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(Decisions of the U. S. Court of Appeals for the District of Columbia are indicated by the letter (▲) and of the U. S. Court of Customs and Patent Appeals by a star (*).)

Patents Nos. 2,323,287 to 2,323,882

THE OFFICIAL GAZETTE OF THE United States Patent Office

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July 6, 1943

Trade-Marks	81	No. 402,155 to No. 402,235, inclusive.
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Patents	596	No. 2,323,287 to No. 2,323,882, inclusive.
Designs	49	No. 135,907 to No. 135,955, inclusive.
Total	812	

Adjudicated Patents

(C. C. A. Ohio.) Ingwer patent, No. 1,987,573, for composite rubber article, *Held* invalid. *Seiberling Rubber Co.* v. *I. T. S. Co.*, 134 F.(2d) 871.

(D. C. R. I.) Bellavance patent, No. 2,108,247, for bracelet and method of making the same, claims 1 and 2 *Held* invalid and not infringed. *Bellavance* v. *Frank Morrow Co.*, 49 F. Supp. 576.

(D. C. R. I.) Manickas patent, No. 2,114,930, for bracelet, claims 1 and 2 *Held* invalid and not infringed. *Id.*

(D. C. Md.) Bodman patent No. 2,215,539 for soap and process of producing same, claims 5, 7, 13 and 20 *Held* invalid and not infringed. *Lever Bros. Co.* v. *Procter & Gamble Mfg. Co.*, 49 F. Supp. 443.

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed.

Pat. 2,124,468, P. U. Lannerd, Projection device, decided June 9, 1943, claims 2, 3, and 16.

Pat. 2,297,104, A. E. Johnson, Piston ring, decided June 7, 1943, claims 1, 3, and 4.

Pat. 2,270,241, E. W. Adams et al., Lubricating oil, decided June 8, 1943, claims 1, 2, 3, 4, 5, 7, 8, and 12.

Pat. 2,282,942, J. J. Crowe, Flame hardening, decided June 7, 1943, claim 10.

Trade-Mark Registrations Canceled

97,979. Certain named pharmaceutical preparations, Dr. Ludwig Kaufmann, Wilmersdorf, near Berlin, Germany. Registered June 30, 1914. Canceled May 26, 1943.

138,396. Ladies' wearing-apparel. Herman Leibowitz, New York, N. Y. Registered December 21, 1920. Canceled May 26, 1943.

354,743. Trays, troughs, receptacles, dishes, food containers, etc. K-Nine Diner Corporation, Cleveland, Ohio. Registered February 22, 1938. Canceled May 26, 1943.

398,559. Hosiery. Neumode Hosiery Co., Kankakee and Chicago, Ill. Registered November 3, 1942. Canceled May 26, 1943.

Disclaimers

2,148,997.—*Harold P. Phillips*, Hastings, Mich. Piston Ring. Patent dated February 28, 1939. Disclaimer filed June 11, 1943, by the assignee, *Hastings Manufacturing Company.*

Hereby enters this disclaimer to claims 2 to 16 inclusive.

2,179,715.—*George L. Davis*, Binghamton, and *Lloyd W. Moulton*, Syracuse, N. Y. Wringer. Patent dated November 14, 1939. Disclaimer filed June 11, 1943, by the assignee, *Nineteen Hundred Corporation.*

Hereby enters this disclaimer to claims 4, 5, 6, and 19 of said patent.

2,216,319.—*Richard T. McGee*, Wheeling, W. Va. Building Construction. Patent dated October 1, 1940. Disclaimer filed June 14, 1943, by the assignee, *The Consolidated Expanded Metal Companies.*

Hereby disclaims claims 1, 2, and 6 of said patent.

2,222,047.—*Clarence E. Snyder*, Akron, Ohio. Apparatus for Removing Liquid from Tires. Patent dated November 19, 1940. Disclaimer filed June 14, 1943, by the assignee, *The B. F. Goodrich Company.*

Hereby disclaims claims 1, 7, 13, and 14 of said patent.

Conditions of Applications Under Examination at Close of Business June 19, 1943

(Total number of applications awaiting action, excluding Trade-Mark Division, 39,220; Trade-Mark Division, 929. Oldest new case, Aug. 8, 1942; oldest amended, July 10, 1942)
(The dates given are 1942 except where † indicates 1943)

Divisions, Examiners, and Subjects of Inventions	Oldest new application awaiting office action	Oldest amended application awaiting office action	No. of applications awaiting action
1. TUCKER, M. W., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Domestic Cooking Vessels; Sewerage.	†Feb. 5	†Mar. 11	285
2. HERRMANN, D., Fishing and Trapping; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Textiles Wringers; Butchering.	†Mar. 16	†Feb. 15	260
3. WOLFFE, S., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	Sept. 1	Sept. 2	911
4. BISHOP, WALTER C., Conveyors; Hoists; Handling Apparatus; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds; Pneumatic Dispatch; Store Service; Mining, Quarrying and Ice Harvesting.	Dec. 16	†Jan. 6	390
5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Clasps.	Oct. 16	Oct. 19	538
6. GENIESSE, E. W., Carbon Chemistry (part)	Oct. 27	Nov. 13	997
7. JARBOE, C. G., Optics; Photography	Dec. 1	Dec. 8	798
8. ADAMS, F. L., Furniture; Kitchen and Table Articles; Racks and Cabinets	Dec. 9	Dec. 14	590
9. BENSON, R. B., Pumps and Fans; Fluid and Fluid-Current Motors	Oct. 31	Nov. 2	755
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	†Jan. 13	†Jan. 14	370
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Stop Mechanisms	†Jan. 18	†Jan. 16	298
13. DONNELLY, A. E., Metal Working (part); Gear Cutting, Milling and Planing; Needle and Pin Making	Dec. 18	†Jan. 6	589
14. HANLIN, GEORGE, Metal Working (part); Farriery; Wire Fabrics	†Feb. 18	†Feb. 22	455
15. HENKIN, BENJ., Glass, Plastic Block and Earthenware Apparatus; Plastics	Dec. 22	Dec. 30	705
16. SPENCER, C. J., Telegraphy; Telephony	Nov. 17	July 10	616
17. HABECKER, LEON B., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Oct. 2	Sept. 16	694
18. KURZ, J. A., Motors, Expansible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal Combustion Engines.	Oct. 23	Nov. 6	547
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	Oct. 6	Oct. 3	577
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Undertaking; Bread, Pastry, and Confection Making; Laminated Fabrics (part).	Sept. 26	†Jan. 25	452
21. THOMPSON, T. J., Textiles	†Jan. 26	†Jan. 24	321
22. RINGLE, D., Aeronautics; Firearms; Ordnance and Explosive Devices	Sept. 14	Sept. 14	1730
23. BARROWS, B., Cash Registers; Calculators (part)	†Jan. 12	†Jan. 2	148
24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines	†Feb. 16	†Feb. 22	462
25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills, Threshing; Vegetable and Meat Cutters and Comminutors.	Dec. 8	Nov. 26	570
26. YOUNG, R. R., Electricity—Generation and Motive Power	Nov. 9	Nov. 17	733
27. CLARK, W. N., Brush, Broom, and Mop Making; Brushing, Scrubbing and General Cleaning; Textiles, Fluid Treating Apparatus; Ironing; Washing Apparatus.	Nov. 12	Nov. 4	535
28. SOLYOM, H. L., Internal-Combustion Engines (part); Cylinders and Pistons	Sept. 15	Nov. 6	627
29. SHKLARIN, J. B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Package and Article Carriers; Woodworking; Tools; Metal Working, Assembling.	†Feb. 19	†Mar. 1	362
30. McCANN, LEO P., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	†Feb. 8	†Feb. 19	285
31. DUNCOMBE, C. S., Hydrocarbons; Mineral Oils	†Jan. 4	†Jan. 4	1361
32. LESH, K., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; Earth Boring.	Nov. 23	Dec. 5	641
33. HULL, J. S., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements	†Jan. 11	†Jan. 27	633
34. SAPERSTEIN, S., Electricity—Meters and Transmission to Vehicles; Railways; Track Sanders; Signals and Indicators.	†Jan. 28	Dec. 18	423
35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles	†Jan. 25	†Jan. 27	515
36. McFADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring	Aug. 8	†Feb. 18	316
37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	†Feb. 19	Dec. 25	382
38. KRAFFT, C. F., Coating Processes; Coating or Plastic Compositions (part)	Dec. 1	Nov. 5	600
39. WHITNEY, F. I., Fluid-Pressure Regulators; Valves; Water Distribution	†Feb. 19	†Feb. 17	382
40. DRUMMOND, E. J., Receptacles	†Feb. 16	†Feb. 26	372
41. HERTZ, M., Coin Handling; Recorders; Deposit Receptacles; Counters and Calculators (part); Typewriting Machines: Check-Controlled Apparatus.	Dec. 9	Dec. 12	384
42. MARANS, H., Electric Signaling	†Mar. 10	†Mar. 8	316
43. FEDERICO, P. J., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Fluid Treatment of Textiles; Azo Compounds.	Aug. 18	Sept. 4	836
44. HARVEY, L. P., Refrigeration	†Jan. 29	Aug. 28	292
45. HILL, H. D., Shafting and Flexible Shaft Couplings; Wheels and Axles; Resilient Tires and Wheels; Lubrication; Bearings and Guides; Motors; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding; Land Vehicles (part).	†Jan. 5	†Jan. 14	712
46. BLEECKER, V. E., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers; Heating Systems; Coating Apparatus.	†Jan. 9	Nov. 30	397
47. KANOF, WM. J., Clutches and Power Stops; Brakes; Boring and Drilling; Land Vehicles (part)	Oct. 22	Dec. 1	994
48. ROEPKE, O. B., Electricity, General Applications; Igniters	Sept. 10	Aug. 25	742
49. SHEFFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Purification.	Aug. 28	Dec. 2	553
50. LEVIN, SAMUEL, Resins; Rubber; Carbohydrates and Derivatives	Dec. 2	Nov. 2	1168
51. BACKUS, C. D., Radiant Energy	Nov. 6	Dec. 5	1076
52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Pipes and Tubular Conduits.	†Jan. 2	Dec. 1	702
53. PECK, M. K., Label Pasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas and Canes; Curtains, Shades and Screens; Cutlery.	†Feb. 24	†Feb. 9	166
54. STRACHAN, O. W., Electric Lamp and Discharge Devices (part)	Sept. 9	Oct. 21	477
55. BOWEN, S. T., Artificial Body Members; Dentistry; Surgery	Sept. 16	Aug. 15	816
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Laminated Fabrics (part); Paper Making	Dec. 28	†Jan. 1	688
57. NICOLSON, G. D., Toys; Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	Aug. 13	Sept. 21	477
58. DOWELL, E. F., Abrading; Bottles and Jars; Stone Working	†Jan. 1	†Jan. 7	527
59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds; Compositions (part).	Sept. 11	Sept. 11	1193
60. GLASS, R. L., Electricity, Heating and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Marine Propulsion; Consumable Electrode Lamp and Discharge Devices.	Sept. 26	Sept. 29	440
61. YUNG KWAI, B., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery; Laminated Electrical Insulation, Belt, Hose, Tire and Ball Making; Boats and Buoys.	Nov. 26	Dec. 10	524
62. PUGH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors	†Mar. 8	†Feb. 15	437
63. WINKELSTEIN, A. H., Preserving; Poisons; Fermentation; Foods and Beverages; Proteins; Oils and Fats.	Oct. 28	Oct. 20	969
64. NASH, P. M., Acetylene; Gas Mixers; Compositions (part); Distillation; Fuel	†Jan. 12	†Jan. 1	1106
65. McDERMOTT, F. P., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave Transmission; Telephony, Repeaters and Relays.	Oct. 24	Oct. 22	712
Trade-Marks: RICHMOND, F. A	†May 14	†June 3	929
Designs: KALUPY, H. H	†May 19	†June 1	300

DECISIONS IN PATENT AND TRADE-MARK CASES

Commissioner's Decision

SCHOEPF ET AL. *v.* HEWITT

Decided April 22, 1938

INTERFERENCE—RULE 109—MOTION TO ADD AN APPLICATION OR PATENT OF OPPONENT.

The provision of rule 109 that "Any party to an interference may bring a motion to put in interference any claims already in his application or patent which should be made the basis of interference between himself and any of the other parties" *Held* "not to be construed to mean that a party may bring a motion to add to the interference an application or patent of his opponent which is not involved in the interference," and *Held* that "the proper procedure in such a case is for the applicant to prosecute the claims in question ex parte."

ON PETITION.

Messrs. Toulmin & Toulmin for Schoepf et al.

Mr. A. M. Wiggins for Hewitt.

MACKLIN, *First Assistant Commissioner:*

The party Hewitt petitions that the Commissioner in the exercise of his supervisory authority, direct the Examiner of Interferences to set for hearing petitioner's motion "B".

The interference involves an application of petitioner and two patents to Schoepf et al., Nos. 2,085,871 and 2,085,873. The interference was declared after petitioner had copied claims from these two patents and also from a third patent to Schoepf et al. No. 2,085,872. The Primary Examiner, in instituting the interference, did not include the last mentioned patent because he held that petitioner's disclosure does not support the claims copied from this patent.

Petitioner's motion "B" presented the claims copied from this patent and also other claims based on claims appearing in the patent and requested that an interference be declared either between his application and this patent or in the alternative between his application and Patent No. 2,085,871. In explanation of his bringing the motion in the alternative, petitioner pointed out that the Schoepf et al. application which matured into Patent No. 2,085,872 is a division of that which matured into Patent No. 2,085,871, and that his own application was filed before either of the applications on which the patents were granted. Petitioner recognizes that the subject matter of his proposed counts is not claimed in the parent patent but in the divisional one, but calls attention to the following statement appearing in *Watson* v. *Thomas*, 106 O. G. 1776:

> "The two parties (viz., applicant and patentee) are to be treated as though they were applicants with copending applications."

Petitioner contends that if this statement properly defines the intended practice then the interference can be set up with the parent Patent No. 2,085,871 because it fully discloses the subject matter of the proposed counts.

Petitioner's contention is thought to be without merit as the statement quoted considered in connection with the context merely means that where an interference is between an application and a patent inadvertently granted on a copending application, the patentee gains no advantage in the interference by reason of his having obtained a patent. There was therefore no occasion for petitioner to bring his motion in the alternative.

Petitioner contends that his motion to declare a new interference between his application and Patent No. 2,085,872 should be set for hearing under the following provision of rule 109:

> "Any party to an interference may bring a motion to put in interference any claims already in his application or patent which should be made the basis of interference between himself and any of the other parties."

That provision however is not to be construed to mean that a party may bring a motion to add to the interference an application or patent of his opponent which is not involved in the interference. The proper procedure in such a case is for the applicant to prosecute the claims in question ex parte. Applicant may follow such procedure in this case.

The petition is denied.

U. S. Court of Customs and Patent Appeals

IN RE COHEN

No. 4,592. Decided February 1, 1943

[133 F.(2d) 924]

1. APPEAL—TECHNICAL QUESTIONS—MANIFEST ERROR.

"The questions involved are highly technical, involving an intimate knowledge of the electrical art. Practically all of the record consists of matters addressed to those skilled in the electrical art, and presumably the Patent Office tribunals passing upon appellant's application were thoroughly familiar with the art involved. Therefore, in accordance with the general rule concerning such matters, we would be warranted in reversing the decision appealed from only if it appears to us that such decision is manifestly wrong."

2. PATENTABILITY—ELECTRICAL CONTROL SYSTEM.

Claims 4, 5, 6, 7, 13, 15, 16, 23, and 26 of appellant's application relating to an electrical system for controlling the burner of a furnace *Held* unpatentable over the prior art; claims 17, 18, and 20 *Held* unpatentable because drawn to new matter; and claim 22 *Held* unpatentable because indefinite; but claims 27 and 28 *Held* patentable over the prior art.

3. APPEAL—REASONS OF APPEAL—REMAND.

Where claim 24 of appellant's application was rejected by the Primary Examiner on two grounds, and as to both grounds the rejection by the Examiner was reversed by the Board of Appeals, but the Board did not allow this claim; and where in his reasons of appeal the appellant merely stated that: "The Board erred in not allowing claims * * * 24 * * *" *Held* that, under the circumstances, said reason of appeal was sufficient to warrant remanding claim 24 to the Board for further consideration, since the only defect in the reason of appeal was that it did not state that the Board erred in not making a specific ruling as to the allowability of claim 24, and this error was apparent upon the face of the record.

APPEAL from the Patent Office. Modified and remanded.

Mr. Theodore W. Miller for Cohen.

Mr. W. W. Cochran (*Mr. Howard S. Miller* of counsel) for the Commissioner of Patents.

LENROOT, *J.*:

This is an appeal from a decision of the Board of Appeals of the United States Patent Office rejecting claims 4 to 7 inclusive, 13, 15 to 18 inclusive, 20, 22, 23, 24, 26, 27, and 28 of appellant's application for a patent.

Claims 19, 21, and 25 were also rejected by the Primary Examiner, but the Board reversed his decision respecting these claims and they stand allowed.

Claims 4 and 27 are illustrative of the involved subject matter and read as follows:

4. In an apparatus of the character described, the combination of an alternating current energized electronic tube circuit and a grid circuit therefor including an electrode adapted to be contacted by a flame for controlling the potential applied to the grid in accordance with said flame and means for applying an alternating potential to said grid through the flame.

27. The combination of ionized contacting path means, an electronic device including a plate circuit responsive to normal presence of an ionized path to provide one predetermined current level and responsive to a diminution of said path to provide another predetermined level, said device and first means having means associated therewith for causing the plate circuit to assume a third predetermined level in response to grounding of said first means and control means in plate circuit operable in accordance with said levels.

The references cited are: Knowles, 1,809,280, June 9, 1931; Breisky et al., 1,899,744, February 28, 1933; McDill, 1,980,816, November 13, 1934.

As is apparent from the above quoted claims, appellant's alleged invention relates to an electrical system. With respect thereto, the Board of Appeals in its decision stated:

The appealed claims relate to an electrical system for controlling the burner of a furnace in accordance with the condition of the pilot light. Applicant's system provides as one condition that if the pilot light is burning the main burner may operate, as a second condition, if the pilot light is out the main burner will be automatically turned off and as a third condition, if the electrode that stands in a position in the pilot flame should become disarranged to contact with the pilot burner to produce a short circuit the main burner will be turned off through a supplemental relay.

The control system shown by appellant operates on alternating current. Of the claims before us, Nos. 4 to 7 inclusive and 15 were rejected by the Examiner upon Knowles in view of McDill. Claims 5 to 7 were further rejected as drawn to new matter, as were claims 17 to 21, 24 and 26 to 28. Claims 13 and 16 were rejected as broader than appellant's invention. Claims 17 to 20 and 23 to 28 were further rejected as vague and indefinite. Claim 22 was rejected as "vague, indefinite and broader than appellant's invention." Claims 23, 26, 27, and 28 were further rejected as unpatentable over the patent to Knowles.

All of the claims were further rejected upon the ground of multiplicity.

During the prosecution of the application certain amendments thereof were made. The Board of Appeals reversed the rejection of the Examiner based upon new matter except as to claims 17, 18, and 20. As to these three claims the Board affirmed the decision of the Examiner holding that they were drawn to new matter not disclosed in the application as filed. It also affirmed the decision of the Examiner rejecting claims 4, 5, 6, 7, and 15 upon Knowles in view of McDill, but reversed his decision with respect to claim 25 and held that the same was allowable. It also reversed the Examiner's rejection of claims 13 and 16 upon the ground of being broader than the invention, but with respect to these claims the Board further stated:

The rejection of claims 13 and 16 upon Knowles taken with Breisky et al. is affirmed. Invention is not believed involved in so broadly merely associating a safety or lock out relay such as shown by Breisky et al. with the system of Knowles. In fact Knowles has an equivalent element in the latch 95 which automatically locks the burner in off condition when turned to that position by the rest of the system.

We find nothing in the record to indicate that the Examiner rejected claims 13 and 16 upon Knowles taken with Breisky et al., but it was competent for the Board to reject claims upon a new ground and appellant has not taken exception thereto other than as to the merits of the rejection.

The Board reversed the Examiner's decision holding that claims 17, 18, 20, 23, 24, 26, 27, and 28 are vague and indefinite but affirmed his decision in that regard with respect to claim 22; it affirmed the decision of the Examiner rejecting claims 23, 26, 27, and 28 upon Knowles; it reversed the Examiner's rejection of all of the claims upon the ground of multiplicity.

All of the references relate to electrical control systems. The patents to Knowles and to Breisky et al. relate primarily to the use of such systems in connection with furnaces using a liquid or gaseous fuel.

The patent to Knowles discloses a system employing direct current; the patent to McDill discloses the employment of an alternating current in the operation of his system.

With respect to the disclosure in the patent to Breisky et al., appellant challenges the statements of the Examiner with respect to the functioning of the structure there disclosed.

A detailed explanation of appellant's system and the systems disclosed by the references could be understood only by a reproduction here of many drawings, which, in view of certain conclusions reached by us, we deem unnecessary.

Such discussion of the references as is deemed necessary will be had in the consideration of the various grounds of rejection of the claims.

[1] Before proceeding to a discussion of the claims we would observe, as is apparent from the hereinbefore quoted claims, that the questions involved are highly technical, involving an intimate knowledge of the electrical art. Practically all of the record consists of matters addressed to those skilled in the electrical art, and presumably the Patent Office tribunals passing upon appellant's application were thoroughly familiar with the art involved. Therefore, in accordance with the general rule concerning such matters, we would be warranted in reversing the decision appealed from only if it appears to us that such decision is manifestly wrong. *In re Bertsch*, 30 C. C. P. A. —, and cases cited.

[2] We now come to a consideration of the grounds of rejection of the various claims.

As hereinbefore stated, claims 4, 5, 6, 7, and 15 were rejected upon the patent to Knowles in view of the patent to McDill.

Both the Examiner and Board held that it would not involve invention to change the direct current system of Knowles to an alternating current system as taught by McDill, and that this group of claims would read upon Knowles, so changed.

The Examiner expressly held that such substitution would be within the skill of an electrician.

Appellant challenges this holding and insists that

"To make McDill function in Knowles would involve invention and be far beyond the expected ability of an electrician without invention."

Upon the record before us we cannot find that the Board of Appeals was manifestly wrong in holding that it would not involve invention to substitute the alternating current employed by McDill for the direct current employed by Knowles. There being no other controversy with respect to the group of claims above set forth, the decision of the Board with respect thereto will be affirmed.

With respect to claims 13 and 16, held by the Board to be unpatentable upon Knowles in view of Breisky et al., it is the contention of appellant that the Examiner and the Board wrongly interpreted the disclosure of Breisky et al.

This patent contains a disclosure, as a part of the system, of means of shutting off the fuel supply in the event, among other things, of current leakage. The Examiner and the Board of Appeals held in effect that it would not involve invention to incorporate the structure so disclosed in the structure embodied in Knowles.

Appellant challenges the statement of the Examiner and of the Board regarding this feature of the Breisky patent. As to just what would happen in the event of the grounding of the flame electrode of Breisky et al. is, in view of the complicated circuits, switches and relays there shown, a very highly technical question.

The Breisky et al. specification clearly states that in the event of low leakage resistance his structure will operate to shut down this system, and by references to the drawings points out how his system would operate to bring about this result.

While this patent does not specifically refer to ground leakage, we are unable to hold that the Patent Office tribunals were manifestly wrong in holding, in effect, that the Breisky et al. structure would operate to shut off the fuel supply in the event of leakage caused by grounding, as well as leakage from any other cause.

For the reasons stated the decision of the Board with respect to claims 13 and 16 will be affirmed.

With respect to claims 17, 18 and 20 held by both of the Patent Office tribunals as drawn to new matter, the Board in its decision stated:

An amendment was proposed comprising several typewritten pages and several additional complex figures involving a theory of relative phase shifting in respect to the potential applied to the grid. After careful consideration we are in full agreement with the Examiner's conclusions that the proposed amendment and certain of the claims include new matter in some of this detail. It is not believed sufficient that applicant may theoretically arrive at such conclusion as being true of the operation of his device. It is a simple fact that certain of the features were not originally disclosed and theoretical considerations are not enough to support them.

Concerning the rejection of the claims, we find the rejection of new matter properly applied to claims 17, 18, and 20. We find other claims rejected on this ground to involve no more than the mere statement found in the first line of page 5 of the specification that under one condition the two potentials applied to the grid may be at 180 degrees apart, that is, exactly opposed and simply neutralizing each other. Such relatively simple proposition appears warranted by the original disclosure. We do not therefore approve the rejection of claims 5, 6, 7, 19, 21, 25, 26, 27, and 28 upon the ground of new matter but as noted, affirm the rejection of claims 17, 18, and 20.

Claim 18 is illustrative of this group of claims and reads as follows:

18. In an apparatus of the character described, an electronic tube circuit having an alternating current energized output circuit and an input control circuit having an ionized path contacting means, a current supply for the last mentioned circuit and a connection from said supply to said path whereby properties of said path control the phase of voltage applied to said input circuit and means associated with said tube circuit adapted to cut off a fuel supply in event of a path through said contacting means lower than a predetermined amount.

With respect to the ground of rejection being drawn to new matter, the Examiner's statement stated:

As originally filed the application recites that the only variable at the flame switch is pure resistance which will not produce a phase shift in the grid voltage. Upon grounding of the electrode, the resistance is practically zero and the grid potential is of a value, due to the voltage applied thereto from coils 17 and 19, to produce a large plate current to actuate the cut-out relay 34. When a flame is present at the pilot burner, and the electrode properly positioned, the resistance of the flame gap is increased, but due to the ionizing effect of the flame it is less than the equivalent air gap. The resulting voltage applied to the grid is of a different value than at short circuit and current of different magnitude flows in the plate circuit to actuate relay 7b. Failure of the flame increases the resistance at the flame switch to infinity and no current flows. The bias on the grid is then such that practically no current flows in the plate circuit. The various potentials applied to the grid cause different values of plate current for the reason that in ordinary operation, vacuum tubes are not operated at their maximum capacity. The current output of the plate circuit is a variable depending upon the grid potential.

Any change of phase between voltages applied to the grid, occasioned by capacitance of the flame, was not mentioned. Since the device originally shown and described would serve to produce two plate currents of different magnitudes depending upon presence of a flame, or short circuit of the electrode, and a negligible current when no flame is present, applicant is so limited. He should not be allowed to revise his specification to ascribe different functions to elements, although the same result is said to be produced in a different way. As the device would function to produce different values of plate current with the potentials of coils 17 and 18 180° out of phase, as originally specified, the inclusion of matter reciting that the potential applied to the grid through the flame changes its phase with respect to the potential applied to the grid by coil 19 should be deleted as new matter.

It is appellant's contention that capacity in his flame switch is an inherent physical property of his structure as originally shown, and therefore the amendment above referred to relating to capacitance did not constitute new matter. In his brief it is stated:

If a resistance (flame) and capacitance (that inherent in the electrode and cable) are placed in parallel and both placed in series with an alternating current voltage source, the voltage appearing across the capacitance will differ in phase from the voltage across said source. This is in accordance with basic electrical principles. A capacity of 100 micro-micro farads easily present with an electrode .250 inch in diameter having a cable 10 feet long is sufficient to produce the phase shift for giving the intermediate plate current level required.

It will be observed from above quoted claim 18 that there is not only involved capacity in the flame

switch but the properties of the ionized path must be such as to control the phase of voltage applied to the input circuit.

While appellant in his brief insists that capacitance is inherent in his original disclosure, it will be observed from the above quotation that he states the diameter of an electrode and length of cable sufficient to produce the phase shift, for giving the intermediate current level required. Appellant's original disclosure is silent with respect to dimensions of electrode and cable, and we find nothing in the record to indicate that any diameter of electrode or any length of cable would be sufficient to produce the phase shift.

Upon the subject of inherency in the case of *Hansgirg* v. *Kemmer*, 505 O. G. 514, 26 C. C. P. A. (Patents) 937, 102 F.(2d) 212, we said:

Inherency, however, may not be established by probabilities or possibilities. The mere fact that a certain thing may result from a given set of circumstances is not sufficient. [Citing cases.]

We are not convinced that capacitance of the electrode and cable sufficient to meet these claims is inherent in appellant's original disclosure, and we are unable to find error in the decision of the Board respecting claims 17, 18, and 20.

The only ground of rejection of claim 22 by the Board was that it is vague and indefinite. It reads as follows:

22. In an apparatus of the character described, an electronic tube circuit having alternating current power means including an extended conducting path contacting means and stabilizing means for preventing detrimental electrical effects which may appear upon said means from causing detrimental function of the electronic apparatus.

With respect to this claim the Examiner stated:

Claim 22 was rejected as vague, indefinite and broader than applicant's invention. Line 2, "conducting path" is an intangible element. Line 3, "contacting means" is inapt. The claim is broader than applicant's invention since it is in fact a single means claim. The new element is the "stabilizing means" added by amendment. The novelty is in this means and not in its association with the tube circuit. It is defined only by the statement of its function. It includes every form of safety device which may be used on any alternating current tube circuit, such as fuses and lightning arresters, regardless of where located. Applicant is not entitled to claim all means for accomplishing a desired result merely because he might be the first to use any means to accomplish the result.

The Board in affirming the rejection of this claim upon the ground of indefiniteness stated:

We, however, affirm the rejection of claim 22 on the ground of being vague and indefinite as a whole. It is not clear what part of the system might be regarded as stabilizing means for preventing detrimental electrical effects. The Examiner states that if stabilizing means can be something found in the proposed amendment, it appears to be new matter.

Appellant's brief states that "stabilizing means" in the claim refers to resistors 22 and 23 of his specification. The only function of the resistors stated in his application is that they are "used to limit the amount of grid current flow below the safe grid dissipation of the tube used." While appellant's brief states that said resistors also perform other specified functions, they are not mentioned in his disclosure, and in our opinion the term "stabilizing means" does not clearly point to said resistors or any other means described in his application.

We are of the opinion that in the use of the term "stabilizing means" in claim 22, appellant's application fails to make a disclosure sufficiently definite to satisfy the requirements of section 4888 of the Revised Statutes (U. S. C., title 35, section 33).

See *General Electric Co.* v. *Wabash Appliance Corp. et al.*, 491 O. G. 463, 304 U. S. 364.

Claim 23, rejected upon Knowles, reads as follows:

23. The combination of ionized path contacting means, an electronic device including a plate circuit responsive to all changes in said path, said plate circuit including control means.

In our opinion this claim reads directly upon Knowles as held by the Patent Office tribunals. Appellant contends that the plate circuit of Knowles is not responsive to all changes in the ionized path, but our view is to the contrary. Knowles' plate circuit does not have control means covering all changes in the ionized path but claim 23 does not so provide. The claim is met by Knowles for he discloses control means for some changes in the ionized path and that is all that the claim requires.

Claim 26 was also rejected upon Knowles and reads as follows:

26. The combination of ionized path contacting means, an electronic device including a plate circuit responsive to a plurality of conditions of the ionized path to provide a plurality of predetermined current levels, said circuit responsive to normal presence of such path to provide one predetermined level and responsive to leakage of first means to provide a second predetermined level and means in said circuit operable at each of said levels.

A plurality of conditions as recited in the claim means more than one. Knowles clearly discloses two conditions of the ionized path, and we believe that he also discloses two predetermined current levels, and means in the circuit operable at each of said levels.

Therefore the rejection of this claim will be affirmed.

Claims 27 and 28 also rejected upon Knowles are very similar in character.

It will be observed that claim 27 hereinbefore quoted embraces a plate circuit responsive to changes in the ionized path to provide two predetermined current levels, and means to cause the current in the plate circuit to assume a third predetermined level in response to grounding of the contacting means, and control means in the plate circuit operable in accordance with said levels.

With respect to the rejection of these two claims the Examiner stated:

Claims 27 and 28 were rejected as unpatentable over Knowles. Fig. 2 of Knowles shows a vacuum tube circuit responsive to a flame at the electrode. Presence of a flame produces a current in the plate circuit. Thus Knowles has two current levels. One when the flame is out and the other when the flame is present. If the electrode of Knowles became grounded, the Examiner is of the opinion that the plate current would be increased to a greater value than that resulting from the presence of a flame. The change in bias on the grid 65 is due to battery 123 and the condition of the circuit leading from it to the grid. Changes in the resistance of this circuit produce changes in grid voltage and corresponding changes in plate currents. If the resistance of the flame switch is zero by reason of a short circuit, the grid would have impressed thereon the maximum voltage from battery 123. If the flame ionized the gap the resistance would be greater and the grid potential due to battery 123 of a lesser value. If no flame is present no potential is applied to the grid by battery 123. *Since in normal operation vacuum tubes will vary their plate circuit output with a change in grid potential, three current levels are attained.* [Italics ours.]

The Board of Appeals in affirming the Examiner's rejection of these claims upon Knowles merely stated:

This ground of rejection is affirmed. Knowles clearly provides two sources of different electrical potentials to bias the grid, namely, 111 and 123.

It is true, as stated by the Examiner, that Knowles clearly shows two current levels. It would also appear to be true, as stated by the Examiner, that if Knowles' electrode became grounded the plate current would be increased to a greater value than that resulting from the presence of a flame and thus a third level would result. However, it seems clear to us that, so accepting the Examiner's analysis of Knowles, the third current level occurring upon shorting of the electrode would merely result in continuing the supply valve position existing under normal operating conditions; in other words, it appears to us that with a shorting of the electrode, the circuit controlling the supply valve of Knowles would continue to be energized and his supply valve would remain open. Appellant's device, however, upon the shorting of the electrode will so operate as to close the supply valve.

This seems so clear to us that we feel compelled to hold that the Board was manifestly wrong in affirming the Examiner's rejection of claims 27 and 28 upon Knowles and that the claims should be allowed.

[3] There remains for consideration claim 24 which reads as follows:

24. The combination of ionized path contacting means, electronic apparatus operable therefrom and provided with an alternating source of power of a plurality of different phases of potentials, such an apparatus including control means, and means whereby said path may control the differences in said phases to correspondingly control said control means.

The only reason of appeal with respect to this claim reads as follows:

"7. The Board erred in not allowing claims * * * 24 * * *."

Ordinarily we would be compelled to hold under a long line of decisions of this court, that this reason of appeal is too general to permit us to give any consideration to claim 24.

However, the facts appearing in the record with respect to this claim present a very unusual situation.

Appellant's brief states:

The Board of Appeals apparently overlooked action on claim 24 entirely but probably intended to allow it for the reasons (Rec. 43) that caused the Board to reverse the Examiner as to claim 25.

The decision of the Board concludes with the following statement:

The decision of the Examiner is affirmed to the extent indicated as to the rejection of all the claims, except 19, 21, and 25, as to which, the decision of the Examiner is reversed.

Claim 24 was rejected by the Examiner upon only two grounds:

1. As being drawn to new matter.
2. As being vague and indefinite.

With respect to the first ground of rejection the Board held as hereinbefore quoted that the rejection by the Examiner upon the ground of new matter properly applied only to claims 17, 18, and 20, and although claim 24 was not specifically mentioned in this connection, it is clear that the Board intended to reverse the rejection of all of the claims upon the ground of new matter except claims 17, 18, and 20.

Therefore we must hold that the rejection of claim 24 upon this ground was reversed by the Board.

The only other ground of rejection of claim 24 by the Examiner was that it was vague and indefinite.

This ground of rejection was expressly reversed by the Board in the following language:

The Examiner has rejected claims 17 to 21 and 23 to 28 on the ground of being vague and indefinite, holding that the term "ionized path" is only an intangible element. While a stream of electrons such as may exist in a flame may be intangible, they are believed to be capable of being considered an element within the patent law. Certainly flame is a sufficiently definite thing to be thus utilized and serve as an element. This ground of rejection is not affirmed.

It therefore appears that the Board of Appeals reversed the Examiner upon the only grounds upon which he rejected claim 24. Nevertheless it does not appear that the Board gave consideration to the allowability of this claim. It is possible that it might have found that the claim is unpatentable upon grounds other than those stated by the Examiner, although no such grounds occur to us.

Inasmuch as the Board held in appellant's favor upon the only grounds upon which the Examiner rejected this claim, the only defect in appellant's reason of appeal was that it did not state that the Board erred in not making a specific ruling as to to allowability of claim 24.

As this is so apparent upon the face of the record, it is our opinion that in this peculiar situation we should hold appellant's 7th reason of appeal sufficient to warrant us in remanding to the Board of Appeals claim 24 for further consideration, not inconsistent with the views here expressed.

For the reasons herein stated the decision appealed from is affirmed with respect to claims 4, 5, 6, 7, 13, 15, 16, 17, 18, 20, 22, 23, and 26; it is reversed with respect to claims 27 and 28, and claim 24 is remanded to the Board for further consideration.

Modified and remanded.

U. S. Court of Customs and Patent Appeals

IN RE GILLETT

No. 4,675. Decided February 1, 1943

[133 F.(2d) 910]

PATENTABILITY—STEEL.

Claims to a low alloy, high tensile steel which is not "killed" although it contains ingredients which are killing agents *Held* unpatentable over the prior art.

APPEAL from the Patent Office. Affirmed.

Mr. John H. Leonard (*Mr. Donald A. Gardiner* and *Mr. George M. Soule* of counsel) for Gillett.

Mr. W. W. Cochran (*Mr. Howard S. Miller* of counsel) for the Commssioner of Patents.

JACKSON, *J.*:

This is an appeal from a decision of the Board of Appeals of the United States Patent Office af-

firming that of the Primary Examiner rejecting in view of the prior art all of the claims, 14 to 17 inclusive and 19 and 20, of an application for a patent for an alleged new and useful improvement in "Low Alloy, High Tensile Steel and Method of Making Same." The involved claims are article claims, of which claim 14 is illustrative:

14. A high tensile, low alloy steel comprising essentially carbon .05 to .20%, manganese .08 to 1.30%, phosphorus .085 to .15%, silicon from a trace to .08%, the balance of said alloy being substantially all iron with the usual impurities, the amount of carbon and phosphorus not exceeding a total of 0.28% and the amounts thereof being varied in inverse relation to each other, and said alloy steel being unkilled.

The references relied on are: British Patent 390,255, April 6, 1933; Metals Handbook, 1939 Edition, pages 786 and 787.

The alleged invention relates to a low alloy, high tensile steel which is not "killed" although it contains ingredients which are killing agents. It is alleged that such steel is the first and only known "rimmed" or "semi-killed" low alloy, high tensile steel. Those steels are known as "unkilled". It is stated to be generally useful for automobile frames, structural steel forms, tanks and the like.

The British patent relates to a steel suitable for objects subjected to heavy wear, such as railroad rails, wheel tires, sheet piling, etc., and it describes and claims a steel comprising

"carbon in amounts less than 0.2%, from 0.7 to 1.6% of manganese, from 0.08 to 0.25% of phosphorus and less than 0.6% of silicon, the remainder being iron."

The Metals Handbook reference defines the meaning of "killed", "semi-killed", and "rimmed" steels. That reference was cited for the purpose of showing that those steels were well known in the art.

The Board of Appeals defined unkilled steel as follows:

"'Unkilled' is a technical term of the steel industry meaning that no metal or alloy having a high affinity for oxygen is added to the bath, with the object of abstracting oxygen and thoroughly reducing any iron oxides as well as others present."

In rejecting the involved claims as lacking invention over the cited prior art, the Examiner held that the British patent shows it is old in the art to produce steel of great mechanical strength and toughness by employing alloying components which fall within the range disclosed and claimed in the application. To illustrate that holding the Examiner set out in his statement the range of the steel components of the British patent and that of claim 14 herein as follows:

British patent

C	Mn	P	Si	Fe
Less than .2%	.7 to 1.6%	.08 to .25%	Less than .6%	Bal.

Claim 14

C	Mn	P	Si	Fe
.05 to .2%	.8 to 1.3%	.085 to .15%	to .08%	Bal.

The Examiner observed that both manganese and silicon are killing agents in the making of steel, and that it would be obvious to use a smaller quantity of silicon as the amount of manganese might be increased in order to produce steel in an unkilled state, and that silicon when used in the production of such steel is always in amounts sufficiently small to leave the steel unkilled.

The Examiner succinctly stated his reasons for rejecting the involved claims in the following language:

Since only the upper limit of silicon is given in the British patent it is clear that this element does not vitally affect the essential properties of the alloy so that it may be used in very small amounts or it may be entirely omitted, thus leaving the steel in the unkilled state just like the applicant's steel. It is therefore believed, that claim 14, as well as the remaining claims, which recite alloy steels falling squarely within the range disclosed in the British patent, were properly rejected as met completely thereby because by specifying that the silicon may be any amount below .6% the British patentee made it amply clear that the steel may be either killed or unkilled, and in view of this fact the applicant is merely claiming one type of steel of the general analysis disclosed in the British patent. Obviously such a selection of a range of alloys within an old and broader range does not amount to invention.

The applicant argues, however, that the British patentee failed to realize that there is a critical range below .6% and that he would not use such a low amount of Si as to leave the steel in the unkilled state because he was concerned with the production of steel rails. It may be admitted that sufficient Si would be used to kill the steel when it is to be rolled into rails, however, it is clear that the British patentee realized that his invention is not limited to railroad rails, where rigid specifications requiring a very dense steel are maintained, and he has therefore disclosed that the advantages of his invention can be obtained as long as the Si is maintained below .6%. The Examiner also agrees with the applicant that when the steel contains such a low amount of Si that it is unkilled, it does not have quite the same properties as a killed steel, however, this is well known to the skilled metallurgist and the question whether the steel should be left in the killed or in the unkilled state will depend upon the use to which the steel is to be applied, and upon economic considerations, as shown on pages 786 and 787 of the Metals Handbook. In this connection attention is also respectfully directed to page 3 of the specification, where the applicant admits that it is well recognized that killed steel affords certain advantages over unkilled steel and vice versa, and to the applicant's own description of the properties of his steel, on page 6 of the specification, which shows that his steel merely exhibits the well recognized properties of semi-killed or rimmed steels. In other words, it is clear from the applicant's own specification and from the description of the properties of semi-killed and rimmed steels on pages 786 and 787 of the Metals Handbook, that the applicant obtains no unobvious results by leaving the steel of the British patent in the unkilled state.

After appellant had taken his appeal to the Board of Appeals he filed two affidavits and the application was thereupon remanded to the Primary Examiner under the provisions of rule 138 for reconsideration under rule 76.

In his supplemental statement after remand the Examiner analyzed the subject matter of the affidavits and adhered to his former action rejecting the said claims, summarizing as follows:

In conclusion the Examiner would like to point out that although the Examiner bases his rejection on the very simple thesis that it involves no invention to leave the steel of the British patent in the unkilled state because (1) it is old and common to leave steels in this state; (2) that the advantages that such practice affords are admittedly well known, and (3) that the applicant's practice produces only these well known advantages, the applicant's eighteen (18) page brief and the two affidavits fail to present a single definitely established experimental fact to show that the results obtained by leaving the steel of the British patent in the unkilled state would not be expected by a person skilled in this art.

The Board of Appeals, while it made no mention of the affidavits, or direct reference to the Metals Handbook, agreed with the reasoning of the Examiner.

The issue here is whether it would be obvious to one skilled in the art of metallurgy in view of the references to leave the steel disclosed in the British patent in an unkilled state.

There can be no question in view of the Metals Handbook reference that unkilled steel was old in the art. Further, it is clear that the range of components shown and claimed in the British patent includes the range shown in the application. It will be noted that the only variation is the manner in which the silicon content is described in the British patent.

It is quite true that the British patent does not state in so many words that the steel is killed, but from the record here we think it fair to state that apparently, in the use of silicon content over the maximum quantity disclosed by appellant, the steel of the patent is killed. However, unless we are able to hold that the silicon content in a quantity small enough, within the range shown and claimed by the British patent, which would produce unkilled low allow steel, results in a steel different from that which is claimed by appellant the decision appealed from must be affirmed. The mere fact that the steel of the British patent had to be killed in reaching the desired product of that patent cannot of itself, in our opinion, indicate that there is invention in leaving the steel unkilled where it is desirable for a different purpose, if there is a suggestion in the prior art of the desirability of leaving steel unkilled for that different purpose. This is admitted in the specification of the application.

Appellant contends that alloy steels are not to be considered as being in the same field as plain carbon steels, which are the steels seemingly mentioned in the Metals Handbook. It may be taken for granted that the properties of plain carbon steel differ from the properties of an alloy steel for the reason that the latter is purposely produced so that it will have properties different from those of plain carbon steel. But we do not think from the mere fact that different properties are possessed by those two kinds of steel it necessarily follows that teachings with respect to one kind may not be applicable with respect to the other. In other words, we do not think the knowledge possessed by metallurgists with respect to one alloy is entirely irrelevant as to another. Moreover, there is nothing contained in the record to indicate that such is the case. Neither is there anything in the record from which we may infer that the product claimed by appellant is a different metal than that which can be produced by reducing the range of the silicon disclosed and claimed in the British patent to that claimed by appellant.

Appellant contends it is well known in the art that a certain quantity of silicon will kill steel. If that is obvious to the metallurgist we think, as is argued in the brief of the Solicitor, it also must be obvious "where the dividing line as to the percentage of silicon necessary to kill the steel lies."

There is no doubt that the range of silicon disclosed in the British patent includes the range set out in the claims herein. We cannot see from the record herein that the British patentee did not have in mind the production of unkilled low alloy steel as well as that of the killed variety, for its specification and its claim clearly disclose that steel identical with that claimed by appellant may be produced.

Appellant relies heavily on the case of *Becket* v. *Coe, Commissioner of Patents*, 495 O. G. 215, 69 App. D. C. 51, 98 F.(2d) 332, 38 U. S. P. Q. 26. An examination of the decision in that case reveals that it was based upon the principle that the steel of the appellant had novel proportions which were critical. There are many cases where critical proportions lend patentability to claims. However, such proportions must involve something over and above that which is obvious to the worker skilled in the art.

We have examined the other cases cited by appellant but in view of our conclusion do not deem it necessary to discuss them.

We are of opinion, as has been heretofore pointed out, that since unkilled steel was well known to the art it would not involve exercise of the inventive faculty to leave the steel of the British patent in an unkilled state if it were desirable to produce a low alloy steel. We find nothing in the affidavits presenting any facts which would justify us in holding them to be more pertinent than they were held to be by the Primary Examiner.

For the reasons hereinbefore stated the decision of the Board of Appeals is affirmed.

Affirmed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

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1,601,476, H. H. Hubbard, Autographic register; 1,716,560, G. J. Neth, Autographic register; Re. 19,208 (of 1,818,271), 1,868,367, F. E. Pfeiffer, same; Re. 20,296, same, Billing machine; 1,957,034, Stern & Pfeiffer, Portable register, D. C., W. D. N. Y., Doc. 579, *The Egry Register Co.* v. *Atlantic Register Co.* et al. Consent order of dismissal May 28, 1943.

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2,109,678, N. A. Nelson, Contact switch for ball rolling games, filed May 10, 1943, D. C., N. D. Ill., E. Div., Doc. 43C459, *Ace Patents Corp.* v. *Stoner Corp.*

2,215,908, A. J. Lauby, Artificial bait, D. C., E. D. Wis. (Milwaukee), Doc. 750, *A. J. Lauby* v. *Steelstamp Corp.* Patent held valid (notice May 24, 1943).

2,226,007. (See 2,265,625.)

2,232,297, E. F. Wiley, Operating mechanism for multiple-sash windows, filed May 21, 1943, D. C., N. D. Calif., S. Div., Doc. 22633–G, *Dalmo Victor, Inc.*, v. *Universal Window Co.*

2,265,625, G. F. Buck, Detachable trolling plate for outboard motors; 2,226,007, A. J. McGrete, Trolling attachment for motor-boats, D. C. Minn., 4th Div., Doc. 666, *Peterson Sales Co.* v. *Champion Outboard Motor Co. et al.* Consent decree May 18, 1943.

2,278,433, A. O. Elting, Lamp fixture; Des. 123,876, Des. 118,968, Des. 118,303, same, Arm for lamp fixtures; Des. 128,013, same, Lamp head, D. C., N. D. Ill., E. Div., Doc. 4529, *Allegheny Steel & Brass Corp. et al.* v. *Albany Steel & Brass Corp. et al.* Patents held invalid, injunction May 7, 1943.

2,285,996, A. D. McKelvy, Soap cake retainer for shaving mugs, D. C., S. D. N. Y., Doc. 19/546, *A. D. McKelvy Co.* v. *Champrel, Inc.* Stipulation of discontinuance (notice June 1, 1943).

2,297,999, Des. 135,138, F. G. Eubanks, Compass, filed May 29, 1943, D. C., N. D. Ill., E. Div., Doc. 43C515, *F. E. Vaughan et al.* v. *F. Buck et al.*

Re. 19,208. (See 1,601,476.)

Re. 20,296. (See 1,601,476.)

Des. 118,303. (See 2,278,433.)

Des. 118,968. (See 2,278,433.)

Des. 123,876. (See 2,278,433.)

Des. 128,013. (See 2,278,433.)

Des. 134,586, H. S. Berk, Combined container and ash receptacle, filed May 28, 1943, D. C., S. D. N. Y., Doc. 21/298, *National Silver Co.* v. *Keg-O-Products Corp.*

Des. 135,138. (See 2,297,999.)

Des. 135,261, Sloane & Sloane, Handbag, filed June 2, 1943, D. C., S. D. N. Y., Doc. 21/312, *Sloane Bros.* v. *Retailer Handbag Co.* Doc. 21/313, *Sloane Bros.* v. *Diana Bag Co.* Same, filed June 4, 1943, D. C., S. D. N. Y., Doc. 21/336, *Sloane Bros.* v. *Rout Rosenthal & Co., Inc.* Stipulation of dismissal June 11, 1943.

T. M. 312,478. (See T. M. 350,402.)

T. M. 350,402, T. M. 388,507, Max Factor & Co., Cosmetic in the nature of a solidified cream used for a make-up base; T. M. 312,478, same, Bleach mask, eau de cologne, powder foundation cream, etc., filed May 7, 1943, D. C., N. D. Ill., E. Div., Doc. 43C456, *Max Factor & Co.* v. *Parfait Powder Puff Co., Inc.*

T. M. 355,905, Foley & Co., Vitamin compound of vitamins A, B, D, and G for general tonic use, filed May 31, 1943, D. C., S. D. Fla. (Miami), Doc. 856, *Foley & Co.* v. *Dade Pharmacies.*

T. M. 388,507. (See T. M. 350,402.)

Notice of Cancellation

U. S. PATENT OFFICE, *Richmond, Va., June 9, 1943.*

Marval-Ac Co., its assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Antiseptol Company, Inc., Chicago, Ill., to effect the cancellation of trade-mark registration of Marval-Ac Co., 32 Lightston St., San Jose, Calif., No. 279,587, dated January 20, 1931, and the notice of such proceeding sent by registered mail to the said Marval-Ac Co., at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Marval-Ac Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

TRADE-MARKS

OFFICIAL GAZETTE, JULY 6, 1943

[VOL. 552. No. 1]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 459,038. AMERICAN CYANAMID COMPANY, New York, N. Y. Filed Mar. 12, 1943.

LAMINAC

FOR SYNTHETIC RESINS AND COMPOSITIONS THEREOF.
Claims use since Nov. 6, 1942.

Ser. No. 459,039. AMERICAN CYANAMID COMPANY, New York, N. Y. Filed Mar. 12, 1943.
Applicant is the owner of Reg. No. 388,606.

MELURAC

FOR CONDENSATION PRODUCTS OF ALDEHYDES AND AMINES—NAMELY, SYNTHETIC RESINS AND COMPOSITIONS THEREOF.
Claims use since July 2, 1942.

Ser. No. 459,040. AMERICAN CYANAMID COMPANY, New York, N. Y. Filed Mar. 12, 1943.

URAC

FOR CONDENSATION PRODUCTS OF ALDEHYDES.
Claims use since July 2, 1942.

Ser. No. 460,108. GENERAL ANILINE & FILM CORPORATION, New York, N. Y. Filed Apr. 23, 1943.

POLECTRON

FOR ARTIFICIAL RESIN POLYMERS.
Claims use since Mar. 31, 1943.

Ser. No. 460,312. STANDARD OIL COMPANY OF LOUISIANA, East Baton Rouge, La. Filed Apr. 30, 1943.



FOR SYNTHETIC RUBBER.
Claims use since Jan. 29, 1943.

CLASS 2

RECEPTACLES

Ser. No. 459,759. NEW ENGLAND COLLAPSIBLE TUBE CO., New London, Conn. Filed Apr. 9, 1943.

Armalloy

FOR SPECIAL ALLOY COLLAPSIBLE TUBES TO BE USED AS A SUBSTITUTE FOR TIN TUBES, CAPS FOR SUCH COLLAPSIBLE TUBES, AND CANS OF COLLAPSIBLE TUBE TYPE OF CONSTRUCTION, THE COLLAPSIBLE TUBES AND THE CANS OF COLLAPSIBLE TUBE TYPE OF CONSTRUCTION BEING SOLD IN THE TRADE EMPTY.
Claims use since Sept. 1, 1942.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 460,652. MARK CROSS COMPANY, New York, N. Y. Filed May 15, 1943.

BUNKER

FOR TRAVELING BAGS.
Claims use since July 4, 1939.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 454,044. SVENSKA DIAMANTBERGBORRNINGS AKTIEBOLAGET, Stockholm, Sweden. Filed July 3, 1942.

DIABOR

FOR GRINDING WHEELS AND GRINDING DISCS.
Claims use since July 19, 1941.

Ser. No. 454,588. UNITED CHEMICAL COMPANY, INC., Kansas City, Mo. Filed July 29, 1942.

RingGo

FOR LIQUID FOR CLEANING AND BLEACHING MARBLE, TILE, PORCELAIN, ENAMEL WARE AND FOR CLEANING SWIMMING POOLS, BATHTUBS, WASH BASINS AND THE LIKE.
Claims use since 1931.

Ser. No. 459,322. TURCO PRODUCTS, INC., Los Angeles, Calif. Filed Mar. 24, 1943.

BORZIN

FOR CLEANING COMPOUND FOR THE INDUSTRIAL CLEANING OF METALS AND ALSO HAVING INCIDENTAL PROPERTIES FOR REMOVING CARBON AND TROUBLESOME DEPOSITS FROM FUEL OIL HEATERS AND THE LIKE.
Claims use since August 1939.

Ser. No. 459,400. THE CARBORUNDUM COMPANY, Niagara Falls, N. Y. Filed Mar. 27, 1943.

MX

FOR ABRASIVE AND POLISHING MATERIAL IN THE FORM OF SHEETS, STRIPS, SLEEVES, BELTS, STICKS, STONES, RUBBING BRICKS, AND WHEELS.
Claims use since April 1942.

Ser. No. 459,632. MORRIS MORRIS, doing business as United Chemical Works, Chicago, Ill. Filed Apr. 5, 1943.

UNICHEM

FOR FUR CLEANING COMPOUNDS.
Claims use since July 30, 1942.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 442,625. BENJAMIN R. BRODY, New York, N. Y. Filed Apr. 16, 1941.



FOR TOILET WATER; EAU DE COLOGNE; PERFUME; MOUTH WASH; TOOTH PASTE; BATH SALTS; BATH POWDER; HAIR DRESSING; HAIR TONIC; HAIR LOTION; HAIR OINTMENT; NAIL ENAMEL; NAIL POLISH; NAIL POLISH REMOVER; COSMETICS—NAMELY, FACE POWDER, BODY POWDER, LIPSTICK, ROUGE, CREAM FOR THE SKIN, EYEBROW PENCILS, EYEBROW COLORING, EYELASH COLORING, MASCARA, EYE SHADOW, BRILLIANTINE, BEAUTY MARKS; LOTIONS FOR USE UPON THE FACE, BODY, SCALP, HAIR, HANDS AND FEET; OINTMENTS FOR USE UPON THE FACE, BODY, SCALP, HAIR, HANDS AND FEET; SHAMPOO; DEPILATORIES; LIQUID, POWDER AND CREAM DEODORANTS.
Claims use since November 1940.

Ser. No. 454,272. SAMUEL RUBIN, New York, N. Y. Filed July 16, 1942.
Applicant disclaims the word "Red" apart from the mark.

Red Rhumba

FOR PERFUMES, TOILET WATERS, FACE AND BODY POWDERS, TOILET CREAM AND TOILET LOTIONS.
Claims use since January 1941.

Ser. No. 454,710. MAURICE BABANI, New York, N. Y. Filed Aug. 4, 1942.

ELUSIVE

FOR PERFUMES, TOILET WATERS, EAU DE COLOGNE.
Claims use since Aug. 1, 1942.

Ser. No. 458,473. CHARLES A. GUISE, doing business as Ivanhoe Remedy Co., Columbus, Ohio. Filed Feb. 11, 1943.

IVANHOE

FOR SALVE USED IN THE TREATMENT OF BOILS, ULCERS, PRURITUS, OLD SORES, CUTS, BURNS, SCALDS, AND ERYSIPELAS.
Claims use since Feb. 15, 1941.

Ser. No. 458,476. MAGITEX COMPANY, INC., Saco, Maine. Filed Feb. 11, 1943.

Protex

FOR DOG REPELLENTS.
Claims use since Dec. 15, 1942.

Ser. No. 459,028. PARFUMS CHARBERT, INC., New York, N. Y. Filed Mar. 11, 1943.

"TONIGHT"

FOR PERFUMES, TOILET WATERS, SACHETS, EAU DE COLOGNES, TALCUM POWDER, FACE POWDER, BATH POWDER, FACE CREAMS, AND CLEANSING CREAMS.
Claims use since Feb. 5, 1943.

Ser. No. 459,888. S. M. A. CORPORATION, Chicago, Ill. Filed Apr. 14, 1943.

DAPTA

FOR VITAMIN AND MINERAL PREPARATIONS FOR USE AS A FOOD SUPPLEMENT.
Claims use since Mar. 31, 1943.

Ser. No. 459,918. CAMPANA CORPORATION, Batavia, Ill. Filed Apr. 16, 1943.



The verbiage is shown in blue on a pink background and this color scheme is an essential feature of the mark. Exclusive use of a circular label or a pink label is not claimed apart from the mark shown.
FOR MAKE-UP PREPARATION.
Claims use since Feb. 18, 1943.

Ser. No. 460,062. THE NORWICH PHARMACAL COMPANY, Norwich, N. Y. Filed Apr. 21, 1943.

FURACIN

FOR ANTISEPTICS AND GERMICIDES.
Claims use since Dec. 3, 1942.

Ser. No. 460,144. GENERAL DYESTUFF CORPORATION, New York, N. Y. Filed Apr. 24, 1943.

SULPHON

FOR DYES AND DYESTUFFS.
Claims use since Sept. 17, 1892.

Ser. No. 460,145. GENERAL DYESTUFF CORPORATION, New York, N. Y. Filed Apr. 24, 1943.

EMERALDOL

FOR DYES AND DYESTUFFS.
Claims use since Aug. 16, 1905.

Ser. No. 460,146. GENERAL DYESTUFF CORPORATION, New York, N. Y. Filed Apr. 24, 1943.

GERANOL

FOR DYES AND DYESTUFFS.
Claims use since June 17, 1912.

Ser. No. 460,147. GENERAL DYESTUFF CORPORATION, New York, N. Y. Filed Apr. 24, 1943.

BENZOFORM

FOR DYES AND DYESTUFFS.
Claims use since June 14, 1912.

Ser. No. 460,148. GENERAL DYESTUFF CORPORATION, New York, N. Y. Filed Apr. 24, 1943.

RADIO

FOR DYES AND DYESTUFFS.
Claims use since Apr. 28, 1922.

Ser. No. 460,165. WHITE LABORATORIES, INC., Newark, N. J. Filed Apr. 24, 1943.

STERIFLATOR

FOR INSUFFLATOR TUBES CONTAINING STERILE MEDICINAL DUSTING POWDERS.
Claims use since Apr. 20, 1943.

Ser. No. 460,368. JOHN W. IRELAND, doing business as Zoo Rub Products Company, Detroit, Mich. Filed May 3, 1943.

ZooRub

No claim is made for the word "Rub" apart from the mark.
FOR PREPARATION TO BE USED EXTERNALLY AS A LINIMENT AND RUB FOR TREATING MUSCULAR ACHES AND PAINS OR STIFF JOINTS.
Claims use since Jan. 10, 1943.

Ser. No. 460,377. R. H. MACY & CO., INC., New York, N. Y. Filed May 3, 1943.

HOSE-TEX

FOR LEG TINTING LOTION.
Claims use since July 17, 1942.

Ser. No. 460,380. NYAL COMPANY, Detroit, Mich. Filed May 3, 1943.

CHOLOZYME

FOR DIGESTIVE ENZYME.
Claims use since Apr. 15, 1943.

Ser. No. 460,381. NYAL COMPANY, Detroit, Mich. Filed May 3, 1943.

ANZYME

FOR DIGESTIVE ENZYME.
Claims use since Apr. 15, 1943.

Ser. No. 460,507. DANIEL C. NALE, Detroit, Mich. Filed May 8, 1943.
No claim is made to the word "Capsules" apart from the mark.

F-E-S Capsules

FOR PREPARATION FOR USE IN THE TREATMENT OF MUSCULAR ACHES AND PAINS.
Claims use since Apr. 1, 1939.

Ser. No. 460,600. HAVILAND LABORATORIES, INC., New York, N. Y. Filed May 13, 1943.
The facsimile signature is that of Ann Haviland, founder of applicant's business.

Ann Haviland

FOR PERFUMES, TOILET WATER, BATH OIL, DUSTING POWDER, AND SACHET.
Claims use since 1925.

Ser. No. 460,601. HAVILAND LABORATORIES, INC., New York, N. Y. Filed May 13, 1943.

PERHAPS

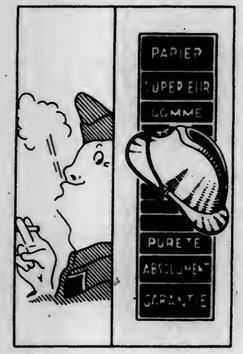


FOR PERFUMES, TOILET WATER, BATH OIL, DUSTING POWDER, TALCUM POWDER, AND SACHET.
Claims use since 1935.

CLASS 8

SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS

Ser. No. 458,171. CHAMBON PRODUCTS LIMITED, London, England. Filed Jan. 26, 1943.
No claim is made to any of the wording apart from the mark.



FOR CIGARETTE PAPERS AND BOOKLETS OF CIGARETTE PAPERS.
Claims use since June 19, 1941.

Ser. No. 459,019. BROWN & WILLIAMSON TOBACCO CORPORATION, Louisville, Ky. Filed Mar. 11, 1943.
Applicant is the owner of Reg. No. 334,823.

VICEROY

FOR CIGARETTE PAPER AND CIGARETTE PAPER BOOKLETS.
Claims use since Jan. 1, 1943.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 455,985. NATIONAL GYPSUM COMPANY, Buffalo, N. Y. Filed Oct. 5, 1942.

GYPSOLITE

FOR WALLBOARD, PLASTERBOARD, SHEATHING, AND PLASTER.
Claims use since Mar. 4, 1922.

Ser. No. 459,447. UNITED GILSONITE LABORATORIES, Scranton, Pa. Filed Mar. 27, 1943.

LASTIDECK

FOR ROOF CEMENT AND LIQUID ASPHALT AND ASBESTOS ROOFING.
Claims use since Feb. 17, 1943.

Ser. No. 459,450. UNITED GILSONITE LABORATORIES, Scranton, Pa. Filed Mar. 27, 1943.

NUDECK

FOR ROOF CEMENT AND LIQUID ASPHALT AND ASBESTOS ROOFING.
Claims use since Oct. 25, 1942.

Ser. No. 459,452. UNITED GILSONITE LABORATORIES, Scranton, Pa. Filed Mar. 27, 1943.

U-G-L

FOR PATCHING PLASTER; SPACHTLING COMPOUND; CRACK FILLER FOR WOOD, STONE, CONCRETE, AND PLASTER; POWDERED, LIQUID AND PLASTIC ASBESTOS AND ASPHALT ROOFING, AND ROOF CEMENT; FURNACE CEMENT FOR MOUNTING STOVES AND FURNACES AND SETTING FIRE AND STOVE BRICKS AND RELINING FIREBOXES; PLASTER OF PARIS, ASBESTOS HEAT INSULATING CEMENT FOR BOILER AND PIPE COVERING.
Claims use since June 1, 1932.

Ser. No. 459,453. UNITED GILSONITE LABORATORIES, Scranton, Pa. Filed Mar. 27, 1943.



FOR PATCHING PLASTER; SPACHTLING COMPOUND; CRACK FILLER FOR WOOD, STONE, CONCRETE AND PLASTER; POWDERED, LIQUID AND PLASTIC ASBESTOS AND ASPHALT ROOFING, AND ROOF CEMENT; FURNACE CEMENT FOR MOUNTING STOVES AND FURNACES AND SETTING FIRE AND STOVE BRICKS AND RELINING FIREBOXES; PLASTER OF PARIS, ASBESTOS HEAT INSULATING CEMENT FOR BOILER AND PIPE COVERING.
Claims use since June 1, 1932.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 459,518. THE INTERNATIONAL NICKEL COMPANY, INC., New York, N. Y. Filed Mar. 30, 1943.



FOR NICKEL CONTAINING ALLOYS—NAMELY, THOSE IN THE FORM OF ALLOYS OF NICKEL, CHROMIUM AND IRON IN THE FORM OF BLOOMS, BILLETS, SLABS, SHEET BARS, RODS, PLATE, SHEET, STRIP, TUBING, WIRE, WELDING RODS, CASTINGS.
Claims use since Nov. 25, 1932.

Ser. No. 459,520. THE INTERNATIONAL NICKEL COMPANY, INC., New York, N. Y. Filed Mar. 30, 1943.



The word "Nickel" is disclaimed apart from the mark.
FOR NICKEL IN THE FORM OF BLOOMS, BILLETS, SLABS, SHEET BARS, RODS, PLATE, SHEET, STRIP, TUBING, WIRE, WELDING RODS, CASTINGS.
Claims use since Apr. 29, 1919.

Ser. No. 459,876. HOYLAND STEEL COMPANY, INCORPORATED, New York, N. Y. Filed Apr. 14, 1943.

CW OIL

The word "Oil" is disclaimed apart from the mark.
FOR TOOL STEEL IN THE FORM OF BARS, BILLETS, SHEETS AND STRIPS.
Claims use since June 8, 1942.

Ser. No. 460,110. HOYLAND STEEL COMPANY, INCORPORATED, New York, N. Y. Filed Apr. 23, 1943.
The words "Alloy Steel" are disclaimed apart from the mark.

HSC 350 ALLOY STEEL

FOR TOOL STEEL IN THE FORM OF BARS, BILLETS, SHEETS AND STRIPS.
Claims use since Oct. 8, 1942.

CLASS 19

VEHICLES, NOT INCLUDING ENGINES

Ser. No. 459,003. GLASCOTE PRODUCTS, INC., Cleveland, Ohio. Filed Mar. 10, 1943.

Applicant is the owner of trade-mark registration No. 151,136, granted Jan. 24, 1922, and trade-mark registration No. 243,975, granted July 3, 1928.

GLASCOTE

FOR VEHICLE TANK BODIES, TRAILER TRUCKS, AND STRUCTURAL PARTS THEREOF.

Claims use since March 1923.

Ser. No. 459,721. THE AMERICAN BRAKE SHOE AND FOUNDRY COMPANY, New York, N. Y. Filed Apr. 9, 1943.

No claim is made to the word "American" apart from the mark.

AMERICAN BRAKEBLOK

FOR VEHICLE WHEELS AND TRUCK CASTER WHEELS OF COMPOSITION MATERIAL.

Claims use since Mar. 18, 1943.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 459,423. NANCY ANN DRESSED DOLLS, INC., San Francisco, Calif., assignor to Nancy Ann Dressed Dolls, San Francisco, Calif., a partnership. Filed Mar. 27, 1943.

MONDAY'S CHILD

FOR DOLLS AND DOLLS' CLOTHES.

Claims use since Jan. 1, 1940.

Ser. No. 459,424. NANCY ANN DRESSED DOLLS, INC., San Francisco, Calif., assignor to Nancy Ann Dressed Dolls, San Francisco, Calif., a partnership. Filed Mar. 27, 1943.

TUESDAY'S CHILD

FOR DOLLS AND DOLLS' CLOTHES.

Claims use since Jan. 1, 1940.

Ser. No. 459,425. NANCY ANN DRESSED DOLLS, INC., San Francisco, Calif., assignor to Nancy Ann Dressed Dolls, San Francisco, Calif., a partnership. Filed Mar. 27, 1943.

WEDNESDAY'S CHILD

FOR DOLLS AND DOLLS' CLOTHES.

Claims use since Jan. 1, 1940.

Ser. No. 459,426. NANCY ANN DRESSED DOLLS, INC., San Francisco, Calif., assignor to Nancy Ann Dressed Dolls, San Francisco, Calif., a partnership. Filed Mar. 27, 1943.

THURSDAY'S CHILD

FOR DOLLS AND DOLLS' CLOTHES.

Claims use since Jan. 1, 1940.

Ser. No. 459,427. NANCY ANN DRESSED DOLLS, INC., San Francisco, Calif., assignor to Nancy Ann Dressed Dolls, San Francisco, Calif., a partnership. Filed Mar. 27, 1943.

FRIDAY'S CHILD

FOR DOLLS AND DOLLS' CLOTHES.

Claims use since Jan. 1, 1940.

Ser. No. 459,428. NANCY ANN DRESSED DOLLS, INC., San Francisco, Calif., assignor to Nancy Ann Dressed Dolls, San Francisco, Calif., a partnership. Filed Mar. 27, 1943.

SATURDAY'S CHILD

FOR DOLLS AND DOLLS' CLOTHES.

Claims use since Jan. 1, 1940.

Ser. No. 459,429. NANCY ANN DRESSED DOLLS, INC., San Francisco, Calif., assignor to Nancy Ann Dressed Dolls, San Francisco, Calif., a partnership. Filed Mar. 27, 1943.

JANUARY GIRL

FOR DOLLS AND DOLLS' CLOTHES.

Claims use since Jan. 1, 1941.

Ser. No. 459,430. NANCY ANN DRESSED DOLLS, INC., San Francisco, Calif., assignor to Nancy Ann Dressed Dolls, San Francisco, Calif., a partnership. Filed Mar. 27, 1943.

FEBRUARY GIRL

FOR DOLLS AND DOLLS' CLOTHES.

Claims use since Jan. 1, 1941.

Ser. No. 459,431. NANCY ANN DRESSED DOLLS, INC., San Francisco, Calif., assignor to Nancy Ann Dressed Dolls, San Francisco, Calif., a partnership. Filed Mar. 27, 1943.

MARCH GIRL

FOR DOLLS AND DOLLS' CLOTHES.

Claims use since Jan. 1, 1941.

Ser. No. 459,432. NANCY ANN DRESSED DOLLS, INC., San Francisco, Calif., assignor to Nancy Ann Dressed Dolls, San Francisco, Calif., a partnership. Filed Mar. 27, 1943.

APRIL GIRL

FOR DOLLS AND DOLLS' CLOTHES.

Claims use since Jan. 1, 1941.

Ser. No. 459,433. NANCY ANN DRESSED DOLLS, INC., San Francisco, Calif., assignor to Nancy Ann Dressed Dolls, San Francisco, Calif., a partnership. Filed Mar. 27, 1943.

MAY GIRL

FOR DOLLS AND DOLLS' CLOTHES.

Claims use since Jan. 1, 1941.

Ser. No. 459,434. NANCY ANN DRESSED DOLLS, INC., San Francisco, Calif., assignor to Nancy Ann Dressed Dolls, San Francisco, Calif., a partnership. Filed Mar. 27, 1943.

JUNE GIRL

FOR DOLLS AND DOLLS' CLOTHES.

Claims use since Jan. 1, 1941.

Ser. No. 459,435. NANCY ANN DRESSED DOLLS, INC., San Francisco, Calif., assignor to Nancy Ann Dressed Dolls, San Francisco, Calif., a partnership. Filed Mar. 27, 1943.

JULY GIRL

FOR DOLLS AND DOLLS' CLOTHES.

Claims use since Jan. 1, 1941.

Ser. No. 459,436. NANCY ANN DRESSED DOLLS, INC., San Francisco, Calif., assignor to Nancy Ann Dressed Dolls, San Francisco, Calif., a partnership. Filed Mar. 27, 1943.

AUGUST GIRL

FOR DOLLS AND DOLLS' CLOTHES.

Claims use since Jan. 1, 1941.

Ser. No. 459,437. NANCY ANN DRESSED DOLLS, INC., San Francisco, Calif., assignor to Nancy Ann Dressed Dolls, San Francisco, Calif., a partnership. Filed Mar. 27, 1943.

SEPTEMBER GIRL

FOR DOLLS AND DOLLS' CLOTHES.

Claims use since Jan. 1, 1941.

Ser. No. 459,438. NANCY ANN DRESSED DOLLS, INC., San Francisco, Calif., assignor to Nancy Ann Dressed Dolls, San Francisco, Calif., a partnership. Filed Mar. 27, 1943.

OCTOBER GIRL

FOR DOLLS AND DOLLS' CLOTHES.

Claims use since Jan. 1, 1941.

Ser. No. 459,439. NANCY ANN DRESSED DOLLS, INC., San Francisco, Calif., assignor to Nancy Ann Dressed Dolls, San Francisco, Calif., a partnership. Filed Mar. 27, 1943.

NOVEMBER GIRL

FOR DOLLS AND DOLLS' CLOTHES.

Claims use since Jan. 1, 1941.

Ser. No. 459,482. NANCY ANN DRESSED DOLLS, INC., San Francisco, Calif., assignor to Nancy Ann Dressed Dolls, San Francisco, Calif., a partnership. Filed Mar. 29, 1943.

LITTLE MISS

FOR DOLLS AND DOLLS' CLOTHES.

Claims use since Jan. 1, 1941.

Ser. No. 459,483. NANCY ANN DRESSED DOLLS, INC., San Francisco, Calif., assignor to Nancy Ann Dressed Dolls, San Francisco, Calif., a partnership. Filed Mar. 29, 1943.

ROSES ARE RED

FOR DOLLS AND DOLLS' CLOTHES.

Claims use since Jan. 1, 1938.

Ser. No. 459,484. NANCY ANN DRESSED DOLLS, INC., San Francisco, Calif., assignor to Nancy Ann Dressed Dolls, San Francisco, Calif., a partnership. Filed Mar. 29, 1943.

OVER THE HILLS

FOR DOLLS AND DOLLS' CLOTHES.

Claims use since Jan. 1, 1940.

Ser. No. 459,485. NANCY ANN DRESSED DOLLS, INC., San Francisco, Calif., assignor to Nancy Ann Dressed Dolls, San Francisco, Calif., a partnership. Filed Mar. 29, 1943.

SCHOOL DAYS

FOR DOLLS AND DOLLS' CLOTHES.

Claims use since Jan. 1, 1937.

Ser. No. 459,486. NANCY ANN DRESSED DOLLS, INC., San Francisco, Calif., assignor to Nancy Ann Dressed Dolls, San Francisco, Calif., a partnership. Filed Mar. 29, 1943.

TO MARKET

FOR DOLLS AND DOLLS' CLOTHES.
Claims use since Jan. 1, 1938.

Ser. No. 459,487. NANCY ANN DRESSED DOLLS, INC., San Francisco, Calif., assignor to Nancy Ann Dressed Dolls, San Francisco, Calif., a partnership. Filed Mar. 29, 1943.

HE LOVES ME

FOR DOLLS AND DOLLS' CLOTHES.
Claims use since Jan. 1, 1940.

Ser. No. 459,488. NANCY ANN DRESSED DOLLS, INC., San Francisco, Calif., assignor to Nancy Ann Dressed Dolls, San Francisco, Calif., a partnership. Filed Mar. 29, 1943.

ONE-TWO

FOR DOLLS AND DOLLS' CLOTHES.
Claims use since Jan. 1, 1940.

Ser. No. 459,489. NANCY ANN DRESSED DOLLS, INC., San Francisco, Calif., assignor to Nancy Ann Dressed Dolls, San Francisco, Calif., a partnership. Filed Mar. 29, 1943.

MERRIE MAID

FOR DOLLS AND DOLLS' CLOTHES.
Claims use since Jan. 1, 1942.

Ser. No. 459,490. NANCY ANN DRESSED DOLLS, INC., San Francisco, Calif., assignor to Nancy Ann Dressed Dolls, San Francisco, Calif., a partnership. Filed Mar. 29, 1943.

WHEN SHE WAS GOOD

FOR DOLLS AND DOLLS' CLOTHES.
Claims use since Jan. 1, 1941.

Ser. No. 459,491. NANCY ANN DRESSED DOLLS, INC., San Francisco, Calif., assignor to Nancy Ann Dressed Dolls, San Francisco, Calif., a partnership. Filed Mar. 29, 1943.

SUGAR & SPICE

FOR DOLLS AND DOLLS' CLOTHES.
Claims use since Jan. 1, 1940.

Ser. No. 459,492. NANCY ANN DRESSED DOLLS, INC., San Francisco, Calif., assignor to Nancy Ann Dressed Dolls, San Francisco, Calif., a partnership. Filed Mar. 29, 1943.

RING AROUND A ROSY

FOR DOLLS AND DOLLS' CLOTHES.
Claims use since Jan. 1, 1940.

Ser. No. 459,493. NANCY ANN DRESSED DOLLS, INC., San Francisco, Calif., assignor to Nancy Ann Dressed Dolls, San Francisco, Calif., a partnership. Filed Mar. 29, 1943.

PRINCESS MINON MINETTE

FOR DOLLS AND DOLLS' CLOTHES.
Claims use since Jan. 1, 1942.

Ser. No. 459,494. NANCY ANN DRESSED DOLLS, INC., San Francisco, Calif., assignor to Nancy Ann Dressed Dolls, San Francisco, Calif., a partnership. Filed Mar. 29, 1943.

PRINCE SOUCI

FOR DOLLS AND DOLLS' CLOTHES.
Claims use since Jan. 1, 1942.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 454,045. SVENSKA DIAMANTBERGBORRNINGS AKTIEBOLAGET, Stockholm, Sweden. Filed July 3, 1942.

DIABOR

FOR MACHINES AND TOOLS FOR ROCK AND EARTH DRILLING, PUMPS, CEMENT INJECTORS, DRILL HEADS, STONE SAWS, TOOLS SET WITH DIAMONDS, TUNGSTEN OR SILICON CARBIDE OR OTHER HARD GRAINS FOR WORKING STONE, MINERALS AND METALS.
Claims use since July 19, 1941.

Ser. No. 455,698. AMERICAN TOOL PRODUCTS, INC., Los Angeles, Calif. Filed Sept. 23, 1942.



FOR BUCKING BARS, RIVET SETS, DIMPLING SETS, WRENCHES, BUSHINGS, TOGGLE PINS, PISTONS, DIMPLE DIE INSERTS, PIN PULLERS, TUBE DRAWING BULLETS, RIVET BUCKS, SPREADER BARS, DRILL GIGS, MILL FIXTURES, LATHE FIXTURES, DOWEL PINS, SWAGING TOOLS, AND HOLE SAW ARBORS.
Claims use since July 19, 1942.

Ser. No. 460,616. JACQUES F. KARELSEN, New York, N. Y. Filed May 14, 1943.

PERMALOY

FOR INDUSTRIAL DIAMOND TOOLS.
Claims use since Feb. 26, 1943.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 460,216. ORIS WATCH CO. LTD., Holstein, Switzerland. Filed Apr. 27, 1943.

BREVO

FOR WATCHES AND CLOCKS AND PARTS OF WATCHES AND CLOCKS.
Claims use since 1919.

Ser. No. 460,219. ORIS WATCH CO. LTD., Holstein, Switzerland. Filed Apr. 27, 1943.

VIRTUS

FOR WATCHES AND CLOCKS AND PARTS OF WATCHES AND CLOCKS.
Claims use since 1922.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 442,415. JIFFY-JOIN INCORPORATED, New York, N. Y. Filed Apr. 9, 1941.

Jiffy Tufts

The word "Tufts" is disclaimed apart from the mark.
FOR FASTENING DEVICES OF FLEXIBLE FABRIC BODY PORTIONS AND ENLARGED RELATIVELY STIFF HEADS FOR CHAIR COVERS, SEAT COVERS AND THE LIKE, UPHOLSTERY TUFTING ASSEMBLIES, AND PARTS THEREFOR.
Claims use since June, 1932.

CLASS 33

GLASSWARE

Ser. No. 459,458. AMERICAN WINDOW GLASS COMPANY, Pittsburgh, Pa. Filed Mar. 29, 1943.

LUSTRAGRENE

FOR SHEET GLASS.
Claims use since Mar. 17, 1942.

CLASS 36

MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 460,246. WISSNER PIANOS INC., Brooklyn, N. Y. Filed Apr. 28, 1943.

MirrApiano

FOR PIANOS.
Claims use since Apr. 23, 1943.

CLASS 37

PAPER AND STATIONERY

Ser. No. 458,744. RIEGEL PAPER CORPORATION, Riegelsville, N. J., and New York, N. Y. Filed Feb. 24, 1943.

KRAFTEEN

FOR IMITATION GLASSINE PAPER.
Claims use since Feb. 2, 1943.

Ser. No. 459,939. SAMUEL D. MILLER, Toledo, Ohio. Filed Apr. 16, 1943.

Tax-O-Gram

FOR PARTIALLY BLANK MAILING CARDS.
Claims use since Dec. 28, 1942.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 460,429. NATIONAL MARITIME UNION OF AMERICA, New York, N. Y. Filed May 5, 1943.

The Pilot

FOR WEEKLY PUBLICATION WHOSE SUBJECT MATTER IS OF INTEREST TO MARITIME WORKERS.
Claims use since Aug. 22, 1941.

CLASS 39

CLOTHING

Ser. No. 457,156. RELIABLE STORES CORPORATION, Baltimore, Md. Filed Dec. 1, 1942.



No claim is made to the words "Fashion" and "A Picture of Loveliness" apart from the mark.
FOR LADIES' DRESSES, COATS, AND SUITS, FUR GARMENTS — NAMELY, COATS, CAPES, ROBES, SCARVES AND COLLARS; UNDERWEAR, AND LINGERIE—NAMELY, SLIPS, PETTICOATS, BLOOMERS, UNDERDRAWERS, UNDERSHIRTS, CHEMISES, BRASSIÈRES, NIGHTGOWNS, PAJAMAS, AND CORSETS.
Claims use since Sept. 17, 1940.

Ser. No. 458,472. THE CROWN OVERALL MFG. COMPANY, Cincinnati, Ohio. Filed Feb. 11, 1943.

GOLD MEDAL

FOR CLOTHING—NAMELY, OVERALLS, SHIRTS, DUNGAREES, AND TROUSERS.
Claims use since January 1919.

Ser. No. 459,401. CORDELL HOSIERY CORPORATION, Greensboro, N. C. Filed Mar. 27, 1943.

CEL-CORD

No claim is made to the word "Cord" apart from the mark.
FOR HOSIERY.
Claims use since September 1942.

Ser. No. 459,911. RUSSELL-NEWMAN MANUFACTURING COMPANY, Denton, Tex. Filed Apr. 15, 1943.

Texsheen

FOR WOMEN'S AND CHILDREN'S PANTIES, VESTS, BLOOMERS, SLIPS, NIGHTGOWNS, PAJAMAS, HOUSECOATS, AND BRASSIERES.
Claims use since Apr. 1, 1943.

Ser. No. 460,008. SOCIETY CLUB HATS CORP., New York, N. Y. Filed Apr. 19, 1943.

TEKNEO

FOR MEN'S HATS.
Claims use since Jan. 16, 1943.

Ser. No. 460,227. WORNOVA MFG. CO. INC., New York, N. Y. Filed Apr. 27, 1943.

WORNOVA

FOR CHILDREN'S PLAYSUITS AND CHILDREN'S ROMPERS, JUMPERS, OVERALLS, AND SMOCKS.
Claims use since July 1920.

Ser. No. 460,405. CHARLES H. LEVY CO. INC., New Orleans, La. Filed May 4, 1943.

PALLADIUM

FOR CRAVATS.
Claims use since Apr. 27, 1943.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS

Ser. No. 459,981. CANNON MILLS COMPANY, Kannapolis, N. C. Filed Apr. 19, 1943.

Monticello

FOR SHEETS AND PILLOW CASES.
Claims use since September 1939.

Ser. No. 460,072. S. & E. NOVELTY CO., INC., New York, N. Y. Filed Apr. 21, 1943.

S and E

The numeral "800" is disclaimed apart from the mark.
FOR VEILINGS AND NETTING IN THE PIECE.
Claims use since Nov. 1, 1941.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 457,190. JULIUS SCHMID, INC., New York, N. Y. Filed Dec. 3, 1942.

VENTO

FOR NIPPLES.
Claims use since Apr. 9, 1941.

Ser. No. 460,442. CORALITE DENTAL PRODUCTS COMPANY, Chicago, Ill. Filed May 6, 1943.

FIX-ACRYL

The word "Fix" is disclaimed apart from the mark.
FOR DENTAL REPAIR COMPOUND OF METHACRYLATE COMPOSITION, USED BY THE DENTAL PROFESSION FOR REPLACING TEETH AND FOR REPAIRING FRACTURES IN ACRYLIC DENTURES.
Claims use since Nov. 30, 1942.

Ser. No. 460,606. THE OHIO TRUSS COMPANY, Cincinnati, Ohio. Filed May 13, 1943.

"KEEP FIT"

FOR SURGICAL BELTS.
Claims use since Apr. 30, 1943.

Ser. No. 460,802. ROBERT A. MANDEL, doing business as Ram Dental Products Co., Brooklyn, N. Y. Filed May 21, 1943.

RAM

FOR DENTAL APPLIANCES CONSISTING OF MECHANICAL SAW BLADES USED FOR CUTTING PLASTER RUBBER AND ACRYLICS IN THE DENTAL FIELD, AND RUBBER ABRASIVE WHEELS USED FOR CUTTING, GRINDING, AND POLISHING GOLD, RUBBER, AND ACRYLICS IN THE DENTAL FIELD.
Claims use since Feb. 15, 1942.

CLASS 45

BEVERAGES, NONALCOHOLIC

Ser. No. 456,120. MONROE HARRISON, Chicago, Ill. Filed Oct. 10, 1942.

ORANGE HUT ORANGE

The individual terms "Orange" are disclaimed apart from the mark.
FOR NON-ALCOHOLIC MALTLESS FRUIT JUICES AND FRUIT CONCENTRATES FOR BEVERAGE PURPOSES.
Claims use since July 15, 1942.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 454,596. FREDK. BOEHM LIMITED, Beaconsfield, England. Filed July 30, 1942.

PLANTOX

FOR YEAST EXTRACT FOR USE AS A FLAVORING FOR SOUP.
Claims use since March 16, 1938.

Ser. No. 458,267. PASCASIO GAUTHIER, doing business as The Viko Company, New York, N. Y., assignor to Viko Inc., New York, N. Y., a corporation of New York. Filed Feb. 1, 1943.

VIKO

FOR PREPARED COMPOUNDS OF NUTRITIVE SUBSTANCES, SUCH AS MALT, MILK, SUGAR, AND OTHER INGREDIENTS, APPROPRIATELY BLENDED AND FLAVORED, WITH OR WITHOUT ADDED MINERALS AND VITAMINS, FOR MAKING FOOD BEVERAGES AND DESSERTS.
Claims use since Nov. 30, 1942.

Ser. No. 458,386. BUGLER BRAND AND AGENCIES LIMITED, Vancouver, Canada. Filed Feb. 8, 1943.
The picture is fanciful.



FOR CANDY.
Claims use since Nov. 12, 1942.

Ser. No. 460,141. FAIR PLAY CARAMELS, INC., Johnson City, N. Y. Filed Apr. 24, 1943.

B-B BATS

FOR CANDY.
Claims use since June 7, 1926.

Ser. No. 460,417. CALIFORNIA OLIVE PACKERS, INCORPORATED, Corning, Calif. Filed May 5, 1943.

RIO RICCO

FOR OLIVES IN TIN AND GLASS.
Claims use since Aug. 17, 1942.

Ser. No. 460,635. STANDARD BRANDS INCORPORATED, New York, N. Y. Filed May 14, 1943.

GLUTAMINO

FOR FOOD SEASONING.
Claims use since Mar. 22, 1943.

Ser. No. 460,638. VEGEX CORPORATION, New York, N. Y. Filed May 14, 1943.

VEGEX

Applicant is the present owner of U. S. trade-mark registrations Nos. 211,126, registered Apr. 6, 1926; 229,107, registered June 21, 1927; 234,520, registered Nov. 1, 1927; and 396,667, registered July 28, 1942.
FOR CONCENTRATED DRY GRAVY COMPOSITION.
Claims use since Apr. 30, 1943.

CLASS 47

WINES

Ser. No. 459,153. SCHENLEY IMPORT CORPORATION, New York, N. Y. Filed Mar. 16, 1943.

MELOROSO

FOR WINES.
Claims use since Sept. 4, 1941.

Ser. No. 460,437. ST. JAMES WINES INC., New York, N. Y. Filed May 5, 1943.

ROYAL JAMES

FOR WINES.
Claims use since Mar. 27, 1943.

Ser. No. 460,711. QUALITY FRUIT WINES CORPORATION, Yonkers, N. Y. Filed May 18, 1943.

CORDINO

FOR WINES.
Claims use since Apr. 19, 1943.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 450,609. GEORGE R. PARR, Pompton Plains, N. J. Filed Jan. 30, 1942.

PARDID

FOR COLLOIDAL PLASTIC.
Claims use since February, 1940.

Ser. No. 453,778. JAHN & OLLIER ENGRAVING COMPANY, Chicago, Ill. Filed June 20, 1942.

DURATONE

FOR ENGRAVED PRINTING PLATES.
Claims use since Apr. 15, 1942.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

JULY 6, 1943

402,155. SHEATH PROPHYLACTICS, INCLUDING RUBBER ARTICLES, FOR THE PREVENTION OF CONTAGIOUS DISEASES. CROWN RUBBER COMPANY, Los Angeles, Calif., assignor, by mesne assignments to Harry Goldstein, doing business as Crown Drug & Sundries Company, Los Angeles, Calif.
Filed April 22, 1939. Serial No. 418,566. PUBLISHED JUNE 6, 1939. Class 44.

402,156. MOLDED RUBBER GOODS—NAMELY, LAMP PADS AND PLUGS FOR HOLES. THE GENERAL TIRE & RUBBER COMPANY, Akron, Ohio.
Filed December 6, 1939. Serial No. 426,291. PUBLISHED APRIL 27, 1943. Class 50.

402,157. SHOES MADE OF LEATHER, FABRIC, RUBBER, OR COMBINATIONS OF SAID MATERIALS. EASTERN FOOTWEAR CORPORATION, Dolgeville, N. Y.
Filed April 9, 1941. Serial No. 442,413. PUBLISHED JUNE 23, 1942. Class 39.

402,158. COMIC MAGAZINE. TIMELY COMICS, INC., New York, N. Y.
Filed May 23, 1941. Serial No. 443,866. PUBLISHED JULY 14, 1942. Class 38.

402,159. SPORTSWEAR — NAMELY, LEATHER, LEATHER TRIMMED AND CLOTH JACKETS. WESTERN LEATHER CLOTHING COMPANY, St. Louis, Mo.
Filed May 23, 1941. Serial No. 443,868. PUBLISHED APRIL 20, 1943. Class 39.

402,160. SYNTHETIC RESINS FOR USE IN THE MANUFACTURE OF VARNISHES, PAINTS, LACQUERS, ENAMELS, ADHESIVES, AND PRINTING INKS. HERCULES POWDER COMPANY, Wilmington, Del.
Filed September 25, 1941. Serial No. 447,307. PUBLISHED APRIL 27, 1943. Class 1.

402,161. SYNTHETIC RESINS FOR USE IN THE MANUFACTURE OF VARNISHES, PAINTS, LACQUERS, ENAMELS, ADHESIVES, AND PRINTING INKS. HERCULES POWDER COMPANY, Wilmington, Del.
Filed September 25, 1941. Serial No. 447,308. PUBLISHED APRIL 27, 1943. Class 1.

402,162. AIRCRAFT PARTS (NON-STRUCTURAL) AND ACCESSORIES—NAMELY, STATIC PRESSURE CONTROL VALVES, SELECTOR VALVES, CHECK VALVES. THE WEATHERHEAD COMPANY, Cleveland, Ohio.
Filed September 26, 1941. Serial No. 447,353. PUBLISHED APRIL 13, 1943. Class 13.

402,163. DICE GAME COMPRISING A PLURALITY OF DICE HAVING VARIED FACE MARKINGS INDICATIVE OF PRONE AND UPRIGHT POSITIONS OF BOWLING PINS WHICH DICE ARE THROWN IN PLAY AND THE RESULTING INDICATIONS SCORED AS IN BOWLING. J. JAY SMITH, doing business as Esseneff Company, Chicago, Ill.
Filed February 19, 1942. Serial No. 451,092. PUBLISHED APRIL 27, 1943. Class 22.

402,164. RADIO SCRIPTS PUBLISHED FROM TIME TO TIME. THE CUDAHY PACKING COMPANY, Chicago, Ill.
Filed February 28, 1942. Serial No. 451,297. PUBLISHED APRIL 27, 1943. Class 38.

402,165. COAL. SOONER COAL MINING COMPANY, Kansas City, Mo.
Filed March 30, 1942. Serial No. 452,027. PUBLISHED APRIL 27, 1943. Class 1.

402,166. BAND AND ORCHESTRA INSTRUMENTS—NAMELY, SAXOPHONES, CLARINETS, TRUMPETS, CORNETS, FRENCH HORNS, TROMBONES, SOUSAPHONES, BARITONE HORNS, AND MELLOPHONES OR ALTO HORNS. WHITTLE MUSIC COMPANY, Dallas, Tex.
Filed April 9, 1942. Serial No. 452,256. PUBLISHED APRIL 27, 1943. Class 36.

402,167. PERIODICAL ISSUED EVERY FOUR WEEKS. FAWCETT PUBLICATIONS, INC., Greenwich, Conn.
Filed July 11, 1942. Serial No. 454,168. PUBLISHED SEPTEMBER 1, 1942. Class 38.

402,168. LADIES' AND MISSES' DRESSES. EDITH D. TOBIN, doing business as Jack Tobin, Philadelphia, Pa.
Filed August 7, 1942. Serial No. 454,784. PUBLISHED NOVEMBER 24, 1942. Class 39.

402,169. AUTOMATICALLY CONTROLLED STEAM VAPORIZING, CONDITIONING AND ECONOMIZING UNITS, FOR USE WITH LAUNDRY DRIERS, IRONERS AND PRESSERS, ETC. ELMER PAUL HARRISON, doing business as Velocity Steam Systems, Chicago, Ill.
Filed August 10, 1942. Serial No. 454,828. PUBLISHED APRIL 27, 1943. Class 34.

402,170. PORTABLE URINALS. RUTH WELLS, Los Angeles, Calif.
Filed September 7, 1942. Serial No. 455,406. PUBLISHED APRIL 27, 1943. Class 44.

402,171. WHEAT FLOUR. CHARLES BANKS STOUT, Memphis, Tenn.
Filed December 31, 1942. Serial No. 457,689. PUBLISHED APRIL 27, 1943. Class 46.

402,172. WOMEN'S AND MEN'S ARTICLES OF JEWELRY FOR PERSONAL ADORNMENT, MADE OF GOLD—NAMELY, BRACELETS, NOT INCLUDING WATCHES, PENDANTS, BROOCHES, EARRINGS, COLLAR HOLDERS, TIE CLIPS, AND CUFF LINKS. HARRY S. BICK, doing business as Kramer & Bick, New York, N. Y.
Filed September 23, 1942. Serial No. 455,699. PUBLISHED APRIL 27, 1943. Class 28.

402,173. BLUE CHEESE. STELLA CHEESE COMPANY, Chicago, Ill.
Filed October 2, 1942. Serial No. 455,934. PUBLISHED APRIL 27, 1943. Class 46.

402,174. HEAT TREATING FURNACES, HARDENING AND TEMPERING FURNACES, AND OVEN FURNACES, ETC. CHICAGO FLEXIBLE SHAFT COMPANY, Chicago, Ill.
Filed November 2, 1942. Serial No. 456,585. PUBLISHED APRIL 27, 1943. Class 34.

402,175. MAPS, ATLASES, AND MISCELLANEOUS BOOKS. RAND MCNALLY & COMPANY, Chicago, Ill.
Filed November 12, 1942. Serial No. 456,778. PUBLISHED APRIL 20, 1943. Class 38.

402,176. NEWS LETTERS PUBLISHED MONTHLY, MICHAEL BAKER, JR., doing business as Baker Engineers, Rochester, Pa.
Filed December 16, 1942. Serial No. 457,431. PUBLISHED APRIL 27, 1943. Class 38.

402,177. LADIES' AND MISSES' DRESSES, BLOUSES, SKIRTS, AND JACKETS. MAYFLOWER DRESS CO., INC., New York, N. Y.
Filed December 31, 1942. Serial No. 457,682. PUBLISHED FEBRUARY 23, 1943. Class 39.

402,178. SMALL DOG AND CAT FOOD. ALBERS MILLING COMPANY, Portland, Oreg.
Filed January 8, 1943. Serial No. 457,800. PUBLISHED APRIL 27, 1943. Class 46.

402,179. STENCIL BOARDS. ERNEST J. LINK, doing business as Link Paper Company, New York, N. Y.
Filed January 13, 1943. Serial No. 457,899. PUBLISHED APRIL 27, 1943. Class 37.

402,180. MAGAZINE. THE NATIONAL HORSEMAN, Louisville, Ky.
Filed January 19, 1943. Serial No. 458,018. PUBLISHED APRIL 20, 1943. Class 38.

402,181. COMIC STRIPS PUBLISHED FROM TIME TO TIME. GEORGE H. COPELAND, doing business as Copeland Features, Kew Gardens, N. Y.
Filed January 21, 1943. Serial No. 458,062. PUBLISHED APRIL 20, 1943. Class 38.

402,182. SPECTACLE CASES AND JEWELRY CASES NOT MADE OF PRECIOUS METALS. THE OPTICASE COMPANY, Newark, N. J.
Filed January 22, 1943. Serial No. 458,105. PUBLISHED APRIL 27, 1943. Class 2.

402,183. CELERY. SARASOTA CELERY COMPANY, Sarasota, Fla.
Filed January 23, 1943. Serial No. 458,123. PUBLISHED APRIL 27, 1943. Class 46.

402,184. TOY AIRPLANES. JEROME H. HAIFLEY, Los Angeles, Calif.
Filed January 25, 1943. Serial No. 458,152. PUBLISHED APRIL 27, 1943. Class 22.

402,185. WATCHES. EMIL LEICHTER, New York, N. Y.
Filed February 1, 1943. Serial No. 458,273. PUBLISHED APRIL 27, 1943. Class 27.

402,186. WATCHES. EMIL LEICHTER, New York, N. Y.
Filed February 1, 1943. Serial No. 458,274. PUBLISHED APRIL 27, 1943. Class 27.

402,187. DRESSED POULTRY, CONSISTING OF CHICKENS AND TURKEYS. CHARLES EDWARD STOKER, Louisville, Ky.
Filed February 1, 1943. Serial No. 458,293. PUBLISHED APRIL 27, 1943. Class 46.

402,188. MAGNIFIER APPARATUS ITS USE BEING FOR INSPECTORS, PHYSICIANS, BANKS, AND DEFENSE PLANTS. GEORGE A. DOSTAL, New York, N. Y.
Filed February 4, 1943. Serial No. 458,328. PUBLISHED APRIL 27, 1943. Class 26.

402,189. NEWSPAPER COLUMN. TRIBUNE COMPANY, Chicago, Ill.
Filed February 4, 1943. Serial No. 458,348. PUBLISHED APRIL 27, 1943. Class 38.

402,190. INSULATED WIRES AND CABLES. THE WHITNEY BLAKE COMPANY, New Haven, Conn.
Filed February 5, 1943. Serial No. 458,362. PUBLISHED APRIL 27, 1943. Class 21.

402,191. OPHTHALMIC MOUNTINGS AND LENSES AND PARTS THEREOF. THE HARLEQUIN CORPORATION, New York, N. Y.
Filed February 9, 1943. Serial No. 458,427. PUBLISHED APRIL 27, 1943. Class 26.

402,192. WATCHES AND CLOCKS. PAUL V. EISNER & Co., New York, N. Y.
Filed February 16, 1943. Serial No. 458,567. PUBLISHED APRIL 27, 1943. Class 27.

402,193. WOMEN'S DRESSES. PAT HARTLY INC., New York, N. Y.
Filed February 18, 1943. Serial No. 458,610. PUBLISHED APRIL 20, 1943. Class 39.

402,194. PREPARATION OF ROASTED CEREAL AND VEGETABLE SUBSTANCES USEABLE WITH OR WITHOUT ADDITION OF COFFEE FOR THE MAKING OF A NON-ALCOHOLIC BEVERAGE. FOOD RESEARCH DISTRIBUTING CORPORATION, Chicago, Ill.
Filed February 25, 1943. Serial No. 458,756. PUBLISHED APRIL 27, 1943. Class 46.

402,195. PREPARATION MADE FROM FRUIT PITS, SUGAR, ETC., FOR USE AS AN INGREDIENT OF CONFECTIONERY AND BAKED GOODS OR AS A TOPPING FOR CAKE AND PASTRY. WOOD & SELICK, INC., New York, N. Y.
Filed February 25, 1943. Serial No. 458,772. PUBLISHED APRIL 27, 1943. Class 46.

402,196. STOCK AND CATTLE FEED. ADA MILLING COMPANY, Ada, Okla.
Filed February 26, 1943. Serial No. 458,775. PUBLISHED APRIL 27, 1943. Class 46.

402,197. SECTION IN A PERIODICAL MAGAZINE. J. HORACE STRUNK, Bangor, Pa.
Filed February 27, 1943. Serial No. 458,821. PUBLISHED APRIL 27, 1943. Class 38.

402,198. POULTRY FEEDS. ALLIED MILLS, INC., Chicago, Ill.
Filed March 3, 1943. Serial No. 458,829. PUBLISHED APRIL 27, 1943. Class 46.

402,199. PAPER GASKETS. BOONVILLE MANUFACTURING CORP., Boonville, N. Y.
Filed March 5, 1943. Serial No. 458,905. PUBLISHED APRIL 27, 1943. Class 35.

402,200. CHOCOLATE. KLEIN CHOCOLATE CO., INC., Elizabethtown, Pa.
Filed March 5, 1943. Serial No. 458,920. PUBLISHED APRIL 27, 1943. Class 46.

402,201. CANNED OLIVE OIL. B. SPILIADIS & CO., INC., New York, N. Y.
Filed March 6, 1943. Serial No. 458,953. PUBLISHED APRIL 27, 1943. Class 46.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

402,202. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ELIZABETH MONAGHAN INC., Detroit, Mich. Filed Apr. 3, 1940. Serial No. 430,326.

Staff-o'-Life

FOR BREAD.
Claims use since March 1940.

402,203. (CLASS 39. CLOTHING.) ISRAEL PRESTON PEARLMAN, Providence, R. I. Filed Jan. 23, 1941. Serial No. 439,905.

Sterling

FOR SHOES, SLIPPERS, AND DANCING SLIPPERS MADE OF LEATHER, FABRIC OR RUBBER, OR COMBINATIONS OF SAID MATERIALS, RUBBERS, OVERSHOES, RUBBER BOOTS, RIDING BOOTS, JODHUR BOOTS, HUNTING BOOTS, MOCCASINS, AND BEACH SANDALS.
Claims use since September 1920.

402,204. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) H. & A. SELMER, INC., Elkhart, Ind. Filed Oct. 17, 1941. Serial No. 447,895.

JESSE FRENCH & SONS

FOR PIANOS.
Claims use since 1911; and since 1880 for "Jesse French."

402,205. (CLASS 39. CLOTHING.) GORDON MAID SKIRT CO. INC., Boston, Mass. Filed Dec. 30, 1941. Serial No. 449,857.

Brockton JUNIOR CLASSICS

FOR WOMEN'S SKIRTS.
Claims use since October 1941.

402,206. (CLASS 39. CLOTHING.) NAN STEWART, INC., Pittsfield, Mass. Filed Apr. 3, 1942. Serial No. 452,136.

Nan Stewart

FOR LADIES' AND MISSES' DRESSES.
Claims use since Dec. 15, 1941.

402,207. (CLASS 39. CLOTHING.) W. T. GRANT COMPANY, New York, N. Y. Filed Apr. 21, 1942. Serial No. 452,472.

MISS JUNIOR-RITE

FOR MISSES' SLIPS.
Claims use since Mar. 16, 1942.

402,208. (CLASS 39. CLOTHING.) ROSELLE FROCKS MFG. CO., INC., New York, N. Y. Filed Apr. 30, 1942. Serial No. 452,698.

SERVICE

FOR WOMEN'S AND MISSES' DRESSES.
Claims use since Apr. 18, 1942.

402,209. (CLASS 39. CLOTHING.) ASSOCIATED LERNER SHOPS OF AMERICA, INC., New York, N. Y. Filed May 5, 1942. Serial No. 452,798.

Coppertone

FOR LADIES' FUR COATS.
Claims use since Apr. 14, 1942.

402,210. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) B. FILIPPONE & CO., INC., doing business as La Perla Food Products Co., Passaic, N. J. Filed May 16, 1942. Serial No. 453,052.

FILIPPONE

FOR WHEAT FLOUR, OLIVE OIL, AND SPAGHETTI.
Claims use since June 1928 on wheat flour; since May 28, 1925, on olive oil; and since May 12, 1942, on spaghetti.

402,211. (CLASS 39. CLOTHING.) ADLER & ADLER, INC., New York, N. Y. Filed May 18, 1942. Serial No. 453,072.

Habitmaker

FOR LADIES' AND MISSES' DRESSES, SUITS, AND COATS.
Claims use since March 1935.

402,212. (CLASS 39. CLOTHING.) CLASSY JEAN DRESSES, INC., St. Louis, Mo. Filed May 25, 1942. Serial No. 453,236.

paul sachs Original

FOR LADIES' AND MISSES' WEARING APPAREL—NAMELY, STREET DRESSES AND SUITS OF SILK, WOOL, RAYON, COTTON, AND COMBINATIONS THEREOF.
Claims use since May 15, 1942.

402,213. (CLASS 39. CLOTHING.) UNITED MILLS, INC., Mount Gilead, N. C. Filed June 3, 1942. Serial No. 453,451.

Miss Swing

FOR SLIPS FOR CHILDREN AND JUNIOR MISSES.
Claims use since Apr. 22, 1942.

402,214. (CLASS 39. CLOTHING.) STETTHEIMER CO., San Francisco, Calif., and New York, N. Y. Filed June 19, 1942. Serial No. 453,762.

TUKKIN

FOR POLO SHIRTS AND OTHER SPORTWEAR—NAMELY, PULLOVER SHIRTS AND PULLOVER SWEATERS FOR MEN, WOMEN, AND CHILDREN.
Claims use since April 1942.

402,215. (CLASS 39. CLOTHING.) L. NACHMAN & SONS, Philadelphia, Pa. Filed June 22, 1942. Serial No. 453,809.

Neat 'n Tidy

FOR DRESS APRONS FOR WOMEN.
Claims use since Apr. 10, 1942.

402,216. (CLASS 39. CLOTHING.) S. L. SCHWARTZ & SONS, Los Angeles, Calif. Filed Aug. 8, 1942. Serial No. 454,814.

Westcote Original

FOR WOMEN'S AND MISSES' COATS, SUITS, JACKETS, SKIRTS, BLOUSES, SHIRTS, SLACKS, AND DRESSES.
Claims use since Apr. 2, 1942.

402,217. (CLASS 39. CLOTHING.) THE MAY DEPARTMENT STORES COMPANY, New York, N. Y., Baltimore, Md., Cleveland, Ohio, Los Angeles, Calif., and Denver, Colo., also doing business as Famous-Barr Company, St. Louis, Mo., and The M. O'Neil Co., Akron, Ohio. Filed Aug. 12, 1942. Serial No. 454,875.

Demi-Miss

FOR MISSES' AND WOMEN'S DRESSES, SUITS, COATS, SLACKS, SKIRTS, SHOES MADE OF LEATHER, FABRIC, AND COMBINATIONS THEREOF, AND HATS.
Claims use since Mar. 17, 1942.

402,218. (CLASS 39. CLOTHING.) H. SIEGFRIED & SONS, INC., St. Louis, Mo. Filed Sept. 17, 1942. Serial No. 455,603.

"SLIM-SLAQUES"

FOR WOMEN'S AND MISSES' SLACKS.
Claims use since Apr. 29, 1942.

402,219. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) ADDRESSOGRAPH-MULTIGRAPH CORPORATION, Cleveland, Ohio. Filed Oct. 16, 1942. Serial No. 456,228.

DUPLEX

FOR PLANOGRAPHIC PRINTING PLATES.
Claims use since Dec. 11, 1935.

402,220. (CLASS 39. CLOTHING.) ALLIED MILLINERY COMPANY, INC., New York, N. Y. Filed Oct. 17, 1942. Serial No. 456,255.

An Elizabeth Ford CREATIVE DESIGN

FOR WOMEN'S, MISSES', AND CHILDREN'S HATS.
Claims use since Aug. 1, 1940.

402,221. (CLASS 39. CLOTHING.) ANGELICA JACKET COMPANY, St. Louis, Mo. Filed Oct. 24, 1942. Serial No. 456,378.

PLANTSWEAR

FOR WOMEN'S AND GIRLS' WEARING APPAREL—NAMELY, BLOUSES, SLACKS, JACKETS, CULOTTES, OVERALLS, CAPS, DRESSES, PANTS, OUTER SKIRTS, COATS, OUTER SHIRTS, AND SUITS.
Claims use since Apr. 1, 1942.

402,222. (CLASS 39. CLOTHING.) DEAN-JONES MANUFACTURING CO., Kansas City, Mo. Filed Dec. 7, 1942. Serial No. 457,239.

dean-jones Sportswear

FOR WOMEN'S SPORT CLOTHING—NAMELY, DRESSES, BLOUSES, SKIRTS, AND SLACKS.
Claims use since Nov. 1, 1940.

402,223. (CLASS 39. CLOTHING.) PHIL & H. QUINTO, New York, N. Y. Filed Jan. 9, 1943. Serial No. 457,841.

Abington

FOR LADIES' AND MISSES' COATS.
Claims use since December 1940.

402,224. (CLASS 39. CLOTHING.) ANN REVERE LINGERIE INCORPORATED, New York, N. Y. Filed Jan. 20, 1943. Serial No. 458,047.

Ann Revere

FOR LADIES' BLOUSES, SLIPS, NIGHT-GOWNS, PETTICOATS, PANTIES, PAJAMAS, AND COMBINATIONS THEREOF.
Claims use since May 10, 1942.

402,225. (CLASS 39. CLOTHING.) BONZETTE FOUNDATIONS INC., New York, N. Y. Filed Feb. 16, 1943. Serial No. 458,565.

Adorable sa-shay bra

BONZETTE FOUNDATIONS

FOR BRASSIÈRES.
Claims use since March 1942.

402,226. (CLASS 38. PRINTS AND PUBLICATIONS.) BRUNO OF HOLLYWOOD, New York, N. Y. Filed Mar. 11, 1943. Serial No. 459,020.

Bruno of Hollywood N.Y.C.

FOR PHOTOGRAPHS AND PICTURES.
Claims use since Jan. 1, 1936.

402,227. (CLASS 39. CLOTHING.) THE HERCULES TROUSER CO., Columbus, Ohio. Filed Mar. 16, 1943. Serial No. 459,149.



FOR INDUSTRIAL TROUSERS.
Claims use since Jan. 10, 1941.

402,228. (CLASS 39. CLOTHING.) GADGETS, INC., New York, N. Y. Filed Mar. 22, 1943. Serial No. 459,265.

WRAP-N-ROBE

FOR INFANTS' AND CHILDREN'S SLEEPING, FEEDING, AND LOUNGING ROBES.
Claims use since Jan. 5, 1942.

402,229. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GARBER EAGLE OIL CORPORATION, Brooklyn, N. Y. Filed Mar. 26, 1943. Serial No. 459,364.



FOR PEANUT OIL USED PRINCIPALLY FOR COOKING BUT ALSO USED FOR MAKING SALADS, MAYONNAISE, AND SIMILAR FOOD PRODUCTS.
Claims use since Apr. 1, 1940.

402,230. (CLASS 39. CLOTHING.) GROSS-GREENBERGER, New York, N. Y. Filed Mar. 29, 1943. Serial No. 459,468.

Gloria Gay

FOR LADIES' COATS AND SUITS.
Claims use since Dec. 10, 1937.

402,231. (CLASS 39. CLOTHING.) ARCHER HOSIERY MILLS, Columbus, Ga. Filed Apr. 5, 1943. Serial No. 459,618.

For Lovely Women

FOR HOSIERY.
Claims use since 1934.

402,232. (CLASS 39. CLOTHING.) I. GROSSMAN & SON, INC., New York, N. Y. Filed Apr. 8, 1943. Serial No. 459,702.

Missy Boy Suit

FOR MISSES' SUITS.
Claims use since Dec. 20, 1941.

402,233. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) H. & A. MANUFACTURING CO., Binghamton, N. Y. Filed Apr. 12, 1943. Serial No. 459,814.

MORRIS

FOR ELECTRIC HEATERS FOR GUNS, MACHINE GUNS, AND CANNON.
Claims use since Apr. 1, 1942.

402,234. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) HUGO MIKOLASCH, New York, N. Y. Filed Apr. 23, 1943. Serial No. 460,120.

"MICHELL GOGGLE"

FOR GOGGLES.
Claims use since March 1942.

402,235. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) COMPO SHOE MACHINERY CORPORATION, Boston, Mass. Filed May 3, 1943. Serial No. 460,364.



FOR SHOE MACHINERY AND PARTS THEREFOR.
Claims use since Oct. 14, 1941.

TRADE-MARK REGISTRATIONS RENEWED

23,022. **BURLEIGH.** BLEACHED, BROWN, AND PRINTED COTTON GOODS. Registered May 16, 1893. GRINNELL WILLIS. Re-renewed May 16, 1943, to Arthur R. Johnson Co. Inc., New York, N. Y., a corporation of New York, assignee by mesne assignments.

23,664. **IZAL.** DISINFECTANTS. Registered September 26, 1893. NEWTON CHAMBERS & COMPANY LIMITED, near Sheffield, England, a United Kingdom corporation. Re-renewed September 26, 1943.

23,665. **NOXONA.** SHEEP DIPS. Registered September 26, 1893. NEWTON CHAMBERS & COMPANY LIMITED, near Sheffield, England, a United Kingdom corporation. Re-renewed September 26, 1943.

23,794. **GRAY'S GLYCERINE TONIC COMP.** A TONIC COMPOUND. Registered November 7, 1893. THE PURDUE FREDERICK CO. Re-renewed November 7, 1943, to The Purdue Frederick Company, New York, N. Y., a corporation of New York, successor.

157,725. **N. J. C.** SOAP FLAKES, ANTISEPTIC CLEANSING POWDER, WHITE NAPHTHA SOAP, OLIVE-OIL SKIN SOAP, HARD-WATER CASTILE SOAP, TAR SOAP, AND TRANSPARENT GLYCERINE SOAP. Registered August 15, 1922. NORTHERN JOBBING COMPANY, Chicago, Ill. Renewed August 15, 1942, to Northern Jobbing Company, St. Paul, Minn., a corporation of Minnesota, successor.

167,103. **BARBICAN.** CLOTHS AND PIECE GOODS OF WOOL, WORSTED, AND HAIR, AND CLOTHS AND PIECE GOODS MADE OF A COMBINATION OF TWO OR MORE OF THOSE FIBERS. Registered April 24, 1923. PRIESTLEYS, LIMITED, assignor to B. Priestley & Co. Inc., Bradford, England. Renewed April 24, 1943, to B. Priestley & Co., Inc., New York, N. Y., a corporation of New York, assignee.

167,194. **"EVERGREEN" AND DRAWING.** CHEESE. Registered April 24, 1923. CARL MARTY AND COMPANY, Chicago, Ill. Renewed April 24, 1943, to The Borden Company, New York, N. Y., a corporation of New Jersey, assignee.

167,722. **NO-CRAK.** METAL LATH AND METAL CORNER BEADS. Registered May 8, 1923. EXPANDED METAL ENGINEERING COMPANY, New York, N. Y., a corporation of New York. Renewed May 8, 1943.

168,125. **WILGLEN.** MEN'S OVERCOATS, SUITS, CAPS, SHIRTS, COLLARS, AND SHOES OF LEATHER, RUBBER, FABRIC, AND COMBINATIONS OF THE SAME. Registered May 15, 1923. WILSON & GLENNY LTD., Hawick, Scotland, an incorporated company of Great Britain and Northern Ireland. Renewed May 15, 1943.

168,199. **"UNIONITE" AND DRAWING.** COMPRESSED ASBESTOS-FIBER SHEET MACHINERY PACKING. Registered May 15, 1923. UNION ASBESTOS & RUBBER COMPANY, Chicago, Ill., a corporation of Illinois. Renewed May 15, 1943.

168,201. **MOONBEAM.** CANNED FRUITS AND CANNED VEGETABLES. Registered May 15, 1923. STARR FRUIT PRODUCTS CO., Portland, Oreg., a corporation of Oregon. Renewed May 15, 1943.

168,368. **VEL VETONE.** FOOT POWDER. Registered May 22, 1923. WILLIAM L. PURCELL, Floral Park, N. Y. Renewed May 22, 1943, to William L. Purcell, Mountain Lakes, N J.

168,589. **"PRINCESS PAT" AND DRAWING.** CANDY AND COCONUT-BAR CANDY. Registered May 29, 1923. QUEEN ANNE CANDY COMPANY, Chicago, Ill. Renewed May 29, 1943, to Queen Anne Candy Company, Hammond, Ind., a corporation of Illinois.

169,039. **PYRALIN.** PYROXYLIN, NITROCELLULOSE, PYROXYLIN AND ARTIFICIAL IVORY COMPRISING SHEETING, RODS, BEADING, TUBES. Registered June 5, 1923. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del., a corporation of Delaware. Renewed June 5, 1943.

169,532. **"MAJESTIC" AND DRAWING.** MEN'S GARTERS. Registered June 19, 1923. J. C. PENNEY COMPANY, Salt Lake City, Utah, and New York, N. Y. Renewed June 19, 1943, to J. C. Penney Company, New York, N. Y., a corporation of Delaware, assignee.

169,670. **"H. C. S." AND DRAWING.** COTTON PIECE GOODS. Registered June 26, 1923. J. C. PENNEY COMPANY, Salt Lake City, Utah, and New York, N. Y. Renewed June 26, 1943, to J. C. PENNEY COMPANY, New York, N. Y., a corporation of Delaware, assignee.

169,671. **PENCO.** COTTON PIECE GOODS, COTTON SHEETS, AND COTTON PILLOW CASES. Registered July 26, 1923. J. C. PENNEY COMPANY, Salt Lake City, Utah, and New York, N. Y. Renewed July 26, 1943, to J. C. Penney Company, New York, N. Y., a corporation of Delaware, assignee.

169,799. **PROTECTOL.** PREPARATIONS FOR PROTECTING ANIMAL SUBSTANCES AGAINST THE NOXIOUS EFFECTS OF CHEMICALS, ESPECIALLY ALKALIES, DURING THE PROCESS OF REFINEMENT. Registered July 3, 1923. ACTIEN-GESELLSCHAFT FUR ANILIN-FABRIKATION, Berlin, Germany. Renewed July 3, 1943, to General Dyestuff Corporation, New York, N. Y., a corporation of New York, assignee.

169,838. **RUBINOLE.** DYES AND DYESTUFFS. Registered July 3, 1923. THE GRASSELLI CHEMICAL COMPANY, Cleveland, Ohio. Renewed July 3, 1943, to General Dyestuff Corporation, New York, N. Y., a corporation of New York, assignee by mesne assignments.

169,839. **CHROMOXANE.** DYES AND DYESTUFFS. Registered July 3, 1923. THE GRASSELLI CHEMICAL COMPANY, Cleveland, Ohio. Renewed July 3, 1943, to General Dyestuff Corporation, New York, N. Y., a corporation of New York, assignee by mesne assignments.

170,038. **EULAN.** COMPOSITION FOR EXTERMINATING MOTHS. Registered July 10, 1923. FARBENFABRIKEN VORM. FRIEDR. BAYER & Co., Leverkusen, near Cologne-on-the-Rhine, Germany. Renewed July 10, 1943, to General Dyestuff Corporation, New York, N. Y., a corporation of New York, assignee.

170,095. **THOM McAN.** SHOES OF COMBINATIONS OF LEATHER AND RUBBER AND OF RUBBER AND FABRIC. Registered July 10, 1923. MELVILLE SHOE CORPORATION, New York, N. Y. a corporation of New York. Renewed July 10, 1943.

170,435. **"THOM McAN" AND DRAWING.** SHOES OF COMBINATIONS OF LEATHER AND RUBBER AND OF RUBBER AND FABRIC. Registered July 17, 1923. MELVILLE SHOE CORPORATION, New York, N. Y., a corporation of New York. Renewed July 17, 1943.

170,664. **"GIBRALTAR" AND DRAWING.** WHEAT FLOUR. Registered July 17, 1923, MAUSER MILL COMPANY, Laurys Station, Pa. Renewed July 17, 1943, to Mauser Mill Company, Treichlers, Pa., a corporation of Pennsylvania.

170,708. **SILVERTONE.** PHONOGRAPH RECORDS. Registered July 24, 1923. SEARS, ROEBUCK AND COMPANY, New York, N. Y., and Chicago, Ill. Renewed July 24, 1943, to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York.

170,853. **SUGAR-CRISP.** CORN FLAKES. Registered July 24, 1923. POSTUM CEREAL COMPANY, INCORPORATED, Battle Creek, Mich. Renewed July 24, 1943, to General Foods Corporation, New York, N. Y., a corporation of Delaware, by changes of name.

171,824. **PERMANITE.** UNWROUGHT AND PARTLY-WROUGHT STEEL IN ROD, BAR, RAIL, SHEET, STRIP, HOOP, OR WIRE, COMPRISING MILD STEEL, CAST STEEL, HIGH-SPEED STEEL, ALLOY STEELS, AND MANGANESE STEEL, STEEL CASTINGS AND FORGINGS. Registered August 14, 1923. HADFIELDS LIMITED, Sheffield, England, a United Kingdom corporation. Renewed August 14, 1943.

171,890. **DEAD EASY.** INSECTICIDE. Registered August 14, 1923. J. L. HOPKINS & Co., New York, N. Y., a corporation of New York. Renewed August 14, 1943.

172,069. **PLAINSMAN.** COFFEE. Registered August 21, 1923. ARBUCKLE BROTHERS. Renewed August 21, 1943, to General Foods Corporation, New York, N. Y., a corporation of Delaware, assignee.

172,087. **"MARATHON" AND DRAWING.** MEN'S HATS. Registered August 21, 1923. J. C. PENNEY COMPANY, Salt Lake City, Utah, and New York, N. Y. Renewed August 21, 1943, to J. C. Penney Company, New York, N. Y., a corporation of Delaware, assignee.

172,088. **"WAVERLY" AND DRAWING.** MEN'S AND BOYS' CAPS. Registered August 21, 1923. J. C. PENNEY COMPANY, Salt Lake City, Utah, and New York, N. Y. Renewed August 21, 1943, to J. C. Penney Company, New York, N. Y., a corporation of Delaware, assignee.

172,266. **WESTVACO.** BOOK PAPER AND WRAPPING PAPER. Registered August 28, 1923. WEST VIRGINIA PULP & PAPER COMPANY, New York, N. Y., a corporation of Delaware. Renewed August 28, 1943.

172,290. **CANFIELD.** DRESS SHIELDS. Registered August 28, 1923. THE CANFIELD RUBBER COMPANY, Bridgeport, Conn., a corporation of Connecticut. Renewed August 28, 1943.

172,757. **PROTECTOR.** WHEAT FLOUR. Registered September 11, 1923. HOLLAND O'NEAL MILLING Co., Mount Vernon and Springfield, Mo. Renewed September 11, 1943, to Pillsbury Flour Mills Company, Minneapolis, Minn., a corporation of Delaware, assignee by mesne assignments.

172,951. **FAMILY CIRCLE.** FLOUR MADE FROM WHEAT. Registered September 11, 1923. PILLSBURY FLOUR MILLS COMPANY. Renewed September 11, 1943, to Pillsbury Flour Mills Company, Minneapolis, Minn., a corporation of Delaware, assignee.

172,994. **WAUREGAN.** COTTON FABRICS AND SILK FABRICS IN THE PIECE. Registered September 11, 1923. THE WAUREGAN COMPANY, Wauregan, Conn., and Providence, R. I. Renewed September 11, 1943, to Wauregan Mills, Inc., Wauregan, Conn., a corporation of Connecticut, successor.

173,162. **GODDESS.** DECIDUOUS FRUITS AND GRAPES IN THEIR NATURAL STATE. Registered September 18, 1923. Y. MAEDA, doing business as Liberty Produce Company. Renewed September 18, 1943, to P. J. McLaughlin, trustee for Y. Maeda, doing business as Liberty Produce Company, Livingston, Calif.

173,386. **NEPTUNE.** CANNED TUNNY FISH. Registered September 25, 1923. SEACOAST CANNING COMPANY, Eastport, Maine. Renewed September 25, 1943, to Seaboard Packing Company, Lubec, Maine, a corporation of Maine, successor.

174,075. **COLODINE.** LIQUID IODINE PREPARATION. Registered October 2, 1923. HARRY J. NOVACK, doing business as Colloidal Laboratories. Renewed October 2, 1943, to Harry J. Novack, Philadelphia, Pa.

174,125. **"PEN-I-NET" AND DRAWING.** WOMEN'S HAIR NETS. Registered October 2, 1923. J. C. PENNEY COMPANY, Salt Lake City, Utah, and New York, N. Y. Renewed October 2, 1943, to J. C. Penney Company, New York, N. Y., a corporation of Delaware, assignee.

174,198. **SMITH.** LENSES, EYEGLASSES, AND SPECTACLES. Registered October 9, 1923. NOEL SMITH, doing business as Miami Optical Co. Renewed October 9, 1943, to Mazie Bamber Smith, Miami, Fla., successor.

174,328. **"DEAN" AND DRAWING.** TRUCKS—NAMELY, PIE, COOKY, BREAD-RACK, PROOF-BOX, DOUGH-TROUGH, TABLE, STEEL, TANK, BARREL, COAL, DISPLAY-CASE, TRAY-CARRIER, STAND, ASH-CAN, AND STORE AND FACTORY TRUCKS, AND TRUCK PARTS. Registered October 16, 1923. THE UNION STEEL PRODUCTS COMPANY, LTD. Renewed October 16, 1943, to Union Steel Products Company, Albion, Mich., a corporation of Michigan, assignee.

174,332. **GUARDIAN.** CYLINDER OIL. Registered October 16, 1923. PURE OIL COMPANY, Columbus, Ohio. Renewed October 16, 1943, to The Pure Oil Company, Chicago, Ill., a corporation of Ohio.

174,333. **WHITE CLOVER.** LUBRICATING OIL FOR HAND SEPARATORS. Registered October 16, 1923. PURE OIL COMPANY, Columbus, Ohio. Renewed October 16, 1943, to The Pure Oil Company, Chicago, Ill., a corporation of Ohio.

174,353. **YF.** YEAST VITAMINE PRODUCT USED AS A GENERAL OR SYSTEM TONIC. Registered October 16, 1923. NORTHWESTERN YEAST COMPANY, Chicago, Ill., a corporation of Illinois. Renewed October 16, 1943.

174,449. **REPRESENTATION OF A BALLOON, ETC.** AIRSHIPS, SPHERICAL BALLOONS, KITES, AND CERTAIN-NAMED AVIATION AND AERONAUTICAL ACCESSORIES. Registered October 16, 1923. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio, a corporation of Ohio. Renewed October 16, 1943.

174,871. **SPIC.** TOILET POWDER. Registered October 23, 1923. ARTHUR G. SMITH, doing business as The Spic Company. Renewed October 23, 1943, to Spic Inc., Chicago, Ill., a corporation of Illinois, assignee by mesne assignments.

175,024. **"ANACONDA" AND DRAWING.** BRASS AND COPPER TUBES, LOW BRASS AND COPPER SEAMLESS TUBES, CONDENSER TUBES, BRAZED BRASS AND COPPER TUBES, NICKEL-SILVER SEAMLESS TUBES, AND PHOSPHOR-BRONZE TUBES. Registered October 30, 1923. ANACONDA COPPER MINING COMPANY New York, N. Y., a corporation of Montana. Renewed October 30, 1943.

175,025. **"ANACONDA" AND DRAWING.** FINISHED COMMUTATOR SEGMENTS, COPPER BARS AND STRIPS USED FOR ELECTRICAL PURPOSES, AND INSULATED COPPER WIRE. Registered October 30, 1923. ANACONDA COPPER MINING COMPANY, New York, N. Y., a corporation of Montana. Renewed October 30, 1943.

175,109. **ANACONDA.** FINISHED COMMUTATOR SEGMENTS, COPPER BARS AND STRIPS USED FOR ELECTRICAL PURPOSES, AND INSULATED COPPER WIRE. Registered October 30, 1923. ANACONDA COPPER MINING COMPANY, New York, N. Y., a corporation of Montana. Renewed October 30, 1943.

175,166. **FIBERSHEEN.** THREAD AND YARN. Registered October 30, 1923. J. & P. COATS (R. I.) INC., Pawtucket, R. I., a corporation of Rhode Island. Renewed October 30, 1943.

175,362. **POGO.** WEARING APPAREL—NAMELY, DRESSES FOR WOMEN. Registered November 6, 1923. THE TAILORED WOMAN, INC., New York, N. Y., a corporation of New York. Renewed November 6, 1943.

175,372. **SANKA.** TEAS AND COFFEES, TEA AND COFFEE EXTRACTS, BOTH DRY AND LIQUID, AND TEA AND COFFEE SUBSTITUTES. Registered November 6, 1923. SOCIETE ANONYME FABRIQUES DE PRODUITS DE CHIMIE ORGANIQUE DE LAIRE, Issy, France. Renewed November 6, 1943, to General Foods Corporation, New York, N. Y., a corporation of Delaware, assignee by mesne assignments.

175,377. **BASSICK.** HOOD CATCHES, HOOD-CATCH BRACKETS, HOOD HANDLES, AND DOOR HANDLES. Rgistered November 6, 1923. THE BASSICK COMPANY, Bridgeport, Conn., a corporation of Connecticut. Renewed November 6, 1943.

175,394. **"AMERICAN BEAUTY" AND DRAWING.** CANNED SHRIMP AND CANNED OYSTERS. Registered November 6, 1923. BILOXI PACKING & TRADING CO. Renewed November 6, 1943, to The Anticich Caning and Packing Company, Inc., Biloxi, Miss., a corporation of Louisiana, assignee by mesne assignments.

175,564. **D=ZERTA.** COMPOUND FOR USE IN THE PREPARATION OF JELLIES, DESSERTS, AND PASTRIES. Registered November 6, 1923. THE GENESEE PURE FOOD COMPANY, Le Roy, N. Y. Renewed November 6, 1943, to General Foods Corporation, New York, N. Y., a corporation of Delaware, assignee by mesne assignments.

175,575. **"PHOMENE" AND DRAWING.** FIRE-EXTINGUISHING COMPOUNDS. Registered November 6, 1923. PYRENE MANUFACTURING COMPANY, Newark, N. J., a corporation of Delaware. Renewed November 6, 1943.

175,603. **VANYA.** ARTIFICIAL-VANILLA MATERIALS SUITABLE FOR THE MANUFACTURE OF FLAVORING EXTRACTS. Registered November 6, 1923. MORANA, INCORPORATED. Renewed November 6, 1943, to Van Ameringen-Haebler, Inc., New York, N. Y., a corporation of New York, assignee.

175,647. **UNGLE WIGGILY.** RUBBER BALLOONS AND INFLATED BALLS, TOY AND DOLL FURNITURE, CHILDREN'S CRAYON, COLORING, AND DRAWING SETS. Registered November 6, 1923. FRED A. WISH INCORPORATED, New York, N. Y. Renewed November 6, 1943, to Howard R. Garis, East Orange, N. J., assignee.

175,786. **THE MUSIC BOX.** MOUTH HARMONICAS. Registered November 13, 1923. M. HOHNER. Renewed November 13, 1943, to M. Hohner, Inc. New York, N. Y., a corporation of New York, assignee.

175,825. **HI N. DRI, THE "ANTI PLUIE" MAN.** WATERPROOF FABRICS. Registered November 13, 1923. THE SCHWARZWAELDER COMPANY, Philadelphia, Pa., a corporation of Pennsylvania. Renewed November 13, 1943.

175,856. **"HARVARD" AND DRAWING.** FRESH FISH WHICH HAVE BEEN SUBJECTED TO A PICKLING SOLUTION AND THEN WRAPPED AND CANNED OR BOXED. Registered November 13, 1923. WHITMAN, WARD & LEE CO. Renewed November 13, 1943, to General Seafoods Corporation, Boston, Mass., a corporation of Massachusetts, assignee.

175,868. **"SILVERCRAFT" AND DRAWING.** SILVER-PLATED HOLLOW WARE. Registered November 13, 1923. FARBER BROTHERS, New York, N. Y., a firm. Renewed November 13, 1943.

175,873. **BLUE RIDGE.** CORDS, TWINES, ROPES, AND LINES OF FIBER MATERIAL MADE FROM COTTON, HEMP, MANILA, SISAL, OR JUTE, SAID LINES BEING OF THE NATURE OF CLOTHES-LINES. Registered November 13, 1923. GRANITE CORDAGE COMPANY, Granite Falls and Hickory, N. C. Renewed November 13, 1943, to Granite Cordage Company, Hickory, N. C., a corporation of North Carolina.

175,876. **REPRESENTATION OF A CONTINENTAL SOLDIER.** ASPHALT SMOOTH-SURFACED ROOFING AND ASPHALT MINERAL-SURFACED ROOFING. Registered November 13, 1923. THE CONTINENTAL ROOFING & MANUFACTURING CO., Highlandtown, Baltimore, Md. Renewed November 13, 1943, to The Ruberoid Co., Bound Brook, N. J., and New York, N. Y., a corporation of New Jersey, assignee by mesne assignments.

175,877. **REPRESENTATION OF A BATTLE AXE.** ROOFING MATERIAL COMPOSED OF A SHEET OF POROUS FELT IMPREGNATED WITH A BITUMINOUS WATERPROOF COMPOUND AND SURFACED ON ONE OR BOTH SIDES WITH CERTAIN MATERIALS. Registered November 13, 1923. THE CONTINENTAL ROOFING & MANUFACTURING CO., Highlandtown, Baltimore, Md. Renewed November 13, 1943, to The Ruberoid Co., Bound Brook, N. J., and New York, N. Y., a corporation of New Jersey, assignee by mesne assignments.

175,887. **AL-LON.** SHOE BAGS, CLOTHES PROTECTORS IN THE NATURE OF BAGS IN WHICH CLOTHES ARE KEPT, AND CLOTHESPIN APRONS. Registered November 13, 1923. AL-LON MANUFACTURING COMPANY, INC., Baltimore, Md., a corporation of Maryland. Renewed November 13, 1943.

175,899. **"COLGATE'S" AND DRAWING.** SOAP FOR SHAVING. Registered November 13, 1923. COLGATE & COMPANY. Renewed November 13, 1943, to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware, assignee.

175,900. **"SMILES" AND DRAWING.** TOILET SOAP. Registered November 13, 1923. EMPIRE SOAP COMPANY, INC., New York, N. Y. Renewed November 13, 1943, to The Procter & Gamble Company, Cincinnati, Ohio, a corporation of Ohio, assignee by mesne assignments.

175,901. **"SMILES" AND DRAWING.** TOILET SOAP. Registered November 13, 1923. EMPIRE SOAP COMPANY, INC., New York, N. Y. Renewed November 13, 1943, to The Procter & Gamble Company, Cincinnati, Ohio, a corporation of Ohio, assignee by mesne assignments.

175,920. **WASHRIGHT.** LAUNDRY BAGS OF NET MATERIAL. Registered November 13, 1923. THE FRY BROS. COMPANY, Cincinnati, Ohio, a corporation of Ohio. Renewed November 13, 1943.

175,923. **BALMAR.** GREEN MINERAL-SURFACED ROOFING. Registered November 13, 1923. THE CONTINENTAL ROOFING & MANUFACTURING CO., Highlandtown, Baltimore, Md. Renewed November 13, 1943, to The Ruberoid Co., Bound Brook, N. J., and New York, N. Y., a corporation of New Jersey, assignee by mesne assignments.

175,946. **DEVIL'S FOOD.** CANDY. Registered November 13, 1923. MAISON BLANCHE CO., New Orleans, La., a corporation of Louisiana. Renewed November 13, 1943.

175,950. **TRIBUNE.** BICYCLES, TRICYCLES, AND PARTS THEREOF FOR ADULTS' AND CHILDREN'S USE. Registered November 13, 1923. THE WESTFIELD MANUFACTURING COMPANY, Westfield, Mass., a corporation of Massachusetts. Renewed November 13, 1943.

175,958. **"FRACTO CONTROL" AND DRAWING.** OIL CONDENSERS, HEAT EXCHANGERS, AND DEPHLEGMATORS. Registered November 13, 1923. C. H. LEACH COMPANY, Boston, Mass. Renewed November 13, 1943, to C. H. Leach Company, Englewood, N. J., a corporation of New Jersey, assignee.

175,964. **BARBARA LEE.** WOMEN'S DRESSES AND HOSIERY. Registered November 13, 1923. ASSOCIATED MERCHANDISING CORPORATION, Newark, N. J., and New York, N. Y. Renewed November 13, 1943, to Associated Merchandising Corporation, New York, N. Y., a corporation of New York, assignee.

175,991. **IRISHPUN.** WRITING PAPER, CORRESPONDENCE ENVELOPES, WRITING TABLETS, AND PAPETERIES. Registered November 13, 1923. MID WEST PAPER & ENVELOPE CO., Marion, Ind., a corporation of Indiana. Renewed November 13, 1943.

176,011. **OCTAB.** BITUMINIZED ROOFINGS, SHINGLES, AND STRIP SHINGLES. Registered November 13, 1923. THE RUBEROID CO., Bound Brook, N. J., and New York, N. Y., a corporation of New Jersey. Renewed November 13, 1943.

176,025. **"ARCH-PLUS" AND DRAWING.** SHOES MADE OF LEATHER OR FABRIC OR A COMBINATION OF LEATHER AND FABRIC. Registered November 13, 1923. HUTZLER BROTHERS CO., Baltimore, Md., a corporation of Maryland. Renewed November 13, 1943.

176,026. **THE CLUB.** GARTERS, WAIST BELTS, AND SUSPENDERS, Registered November 13, 1923. KNOTHE BROTHERS CO., INC., New York, N. Y., a corporation of New York. Renewed November 13, 1943.

176,043. **REPRESENTATION OF A CAMEL.** WATER WHEELS. Registered November 13, 1923. JOHN B. CAMPBELL, Philadelphia, Pa. Renewed November 13, 1943.

REISSUES

JULY 6, 1943

22,340

INSECTICIDAL COMPOSITION

Clarence D. Dolman, Wenatchee, Wash., assignor to Hercules Glue Company, a corporation of California

No Drawing. Original No. 2,195,696, dated April 2, 1940, Serial No. 236,562, October 22, 1938. Application for reissue April 1, 1941, Serial No. 386,383

14 Claims. (Cl. 167—42)

1. A spray composition made up by mixing materials proportionately comprising about 100 gallons of water containing (1) from about one-half to about four pounds of a fatty acid soft soap and a mineral oil having a viscosity from slightly under that of kerosene to about 95 Saybolt, the fatty acid content totalling from about 5 to 30% of the mineral oil, said fatty acid content being only partially saponified so as to leave a free fatty acid content of from ½% to 20%, and (2) a substantially water insoluble finely divided solid inorganic metal salt insecticide suspended in the water in an insecticidally effective concentration.

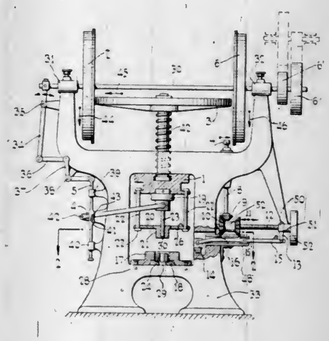
22,341

METHOD OF PRODUCING ELONGATED BODIES BY DEFORMATION

Johann Kafowi, Long Island City, N. Y., assignor of one-half to Friedrich Goldschmidt, Prague, Czechoslovakia

Original No. 2,200,231, dated May 7, 1940, Serial No. 155,559, July 24, 1937. Application for reissue May 6, 1942, Serial No. 441,922

6 Claims. (Cl. 207—10)



1. A method of producing articles which are relatively long compared with their cross-section, such as tubes and rods, comprising heating a blank or billet to a temperature near to but below its melting point, and subjecting the blank to an instantaneous impact blow to extrude the material through a die to form the elongated article.

22,342

CLEANUP AGENT

John D. McQuade, Lakewood, Ohio, assignor to Kemet Laboratories Company, Inc., a corporation of New York

No Drawing. Original No. 2,253,862, dated August 26, 1941, Serial No. 190,583, February 15, 1938. Application for reissue August 26, 1941, Serial No. 408,405

5 Claims. (Cl. 250—27.5)

5. Clean-up agents, for thermionic valves, composed of comminuted active getter alloy of barium and magnesium and from 7% to 15% by weight of comminuted magnesia.

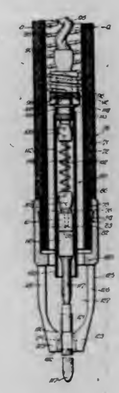
22,343

CUTOUT

Allan Ramsey, Evanston, Ill., assignor to Schweitzer & Conrad, Inc., Chicago, Ill., a corporation of Delaware

Original No. 2,144,707, dated January 24, 1939, Serial No. 154,973, July 22, 1937, which is a division of Serial No. 730,075, June 9, 1934. Application for reissue May 7, 1943, Serial No. 486,085

47 Claims. (Cl. 200—117)



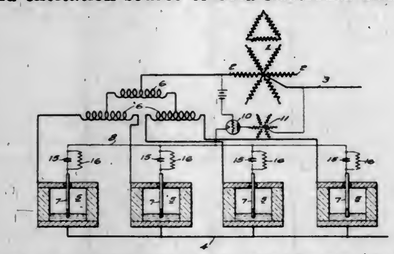
1. In a device of the class described, a movable system including a movable terminal member, a coil spring normally under tension and connected to said terminal member, a fuse link having a fuse terminal for connection with the terminal of said movable system, and a second fuse terminal, a rigid tubular insulating envelope secured to the fuse terminal for connection with the terminal of the movable system and being movable therewith and fitting telescopically over the other fuse terminal, and a fusible element within said envelope, said tubular envelope being out of contact with the fusible element.

22,344
IGNITION SYSTEM

Daniel Silverman, Tulsa, Okla., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Original No. 2,005,875, dated June 25, 1935, Serial No. 711,192, February 14, 1934. Application for reissue May 23, 1940, Serial No. 336,888
25 Claims. (Cl. 315—146)

1. A vapor-electric converter comprising a source of polyphase currents, a load circuit, a plurality of parallel valves between each phase of the source and the load circuit, a make-alive electrode associated with each of said valves, said electrodes being connected in parallel, a source of excitation current substantially co-phasal with the polyphase source and means responsive to the polarity of the polyphase source for connecting said excitation source to said electrodes and ca-



pacitors in series with each of said electrodes for controlling current flow thereto.

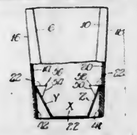
PATENTS

GRANTED JULY 6, 1943

2,323,287
PAPER CUP

Walter E. Amberg, Chicago, Ill., assignor to Universal Paper Products Company, Chicago, Ill., a corporation of Illinois

Application August 14, 1939, Serial No. 290,107
4 Claims. (Cl. 229—53)

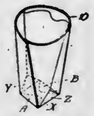


1. A drinking cup of the envelope type adapted to retain a predetermined shape when opened, said cup being formed from a blank of flexible sheet material, part of said blank forming side walls of said cup bounded by longitudinally extending side wall creases, part of said blank forming the base of the cup being divided by fold lines into a plurality of rectangular base planes extending substantially parallel with respect to the side walls of the cup when said cup is in its normally collapsed condition and which open to form a substantially flat bottom when pressure is exerted against said side wall creases, part of the blank forming the base on each side of said flat bottom forming portion being divided into a plurality of triangular base planes extending substantially parallel with respect to the side walls of the cup when said cup is in its normally collapsed condition and which open to form a part of the bottom which is oblique to the flat bottom portion and to the side walls, said oblique opening base planes each forming one side of an open bottomed pyramid when the cup is fully opened, the other sides of said pyramid being formed by the side walls of the cup.

2,323,288
PAPER CUP

Walter E. Amberg, Chicago, Ill., assignor to Universal Paper Products Company, Chicago, Ill., a corporation of Illinois

Application April 17, 1940, Serial No. 330,029
10 Claims. (Cl. 229—53)

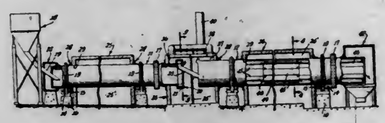


1. A drinking cup of the envelope type adapted to assume a pre-determined shape when opened by lateral pressure against the side edges thereof, said cup being formed from a flexible sheet material with the upper part of said flexible sheet material forming the side walls of the cup and the lower part forming the base of the cup, said base part being folded in such a manner as to permit opening of the cup to a pre-determined shape and with a substantially greater number of folds of said material adjacent the center of said base portion than at the side edges from which the cup is opened, and creased oblique-opening planes integral with said base and said side walls and forming oblique planes thereto when said cup is fully opened.

2,323,289
COAL DRIER

Frank J. Anderson, Laramie, Wyo., and Michael Treshow, West Los Angeles, Calif., assignors to Monolith Portland Cement Company, a corporation of Nevada

Application April 7, 1941, Serial No. 387,232
4 Claims. (Cl. 34—129)

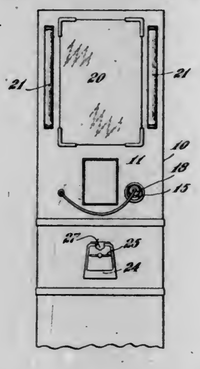


1. In apparatus for drying coal or other material, two elongate drums mounted for rotation about their longitudinal axes at a slight angle to the horizontal, an end of one drum being adjacent an end of the other; means for rotating said drums; means for conveying material from one drum to the other in the region of their adjacent ends; means for introducing hot gases at the opposite ends of said drums and removing said gases at the adjacent ends of said drums; means for heating said drums; and means for substantially preventing the free fall of material laterally through the central portion of the drum receiving the material from the other drum including plates extending longitudinally of said drum spaced inwardly of the wall thereof.

2,323,290
SANITARY SHAVER OUTFIT

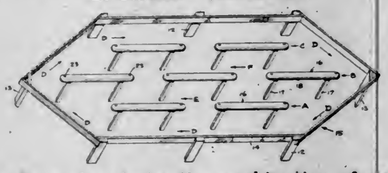
John F. Bagley, Jr., Topsfield, Mass.

Application January 15, 1940, Serial No. 313,837
1 Claim. (Cl. 250—51)



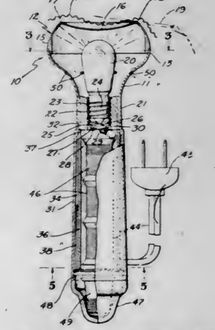
A shaver outfit of the type wherein a switch by which electric current is supplied to a shaver is mounted upon a cabinet, which outfit comprises a compartment in said cabinet, a basket supported in the compartment and adapted to receive said shaver, and an electric bulb in said compartment outside said basket, which bulb is lighted when the outfit is ready for use and by which the shaver, when placed in said basket, is kept free from germs.

2,323,291
GAME DEVICE
Samuel J. Bens, Stamford, Conn.
Application August 15, 1941, Serial No. 406,943
12 Claims. (Cl. 35—29)



1. In a play device the combination of an enclosure; and a plurality of rows of spaced posts within said enclosure, said rows being disposed laterally relative to each other, and posts in at least one row being disposed opposite spaces between posts in another row, providing paths of movement extending longitudinally between adjacent rows and extending zigzag transversely of the rows, said paths of movement being of sufficient extent to permit the passage of persons.

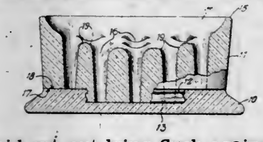
2,323,292
DARNING LIGHT
Alonzo J. Bloodgood, Middlebury, Conn., assignor of one-third to John S. Michelson, Bridgeport, Conn., and one-third to J. Harvey Chandler, Middlebury, Conn.
Application August 6, 1940, Serial No. 351,594
2 Claims. (Cl. 240—2)



1. A device of the character described comprising a hollow head of the translucent material forming a support for an article being darned, said head being substantially circular with convexly curved side walls and a concave end wall forming a depression, the periphery of the depression being of less diameter than the largest diameter of the head so that there is a convexly curved article supporting surface outwardly of said periphery, said periphery being provided with a series of open notches extending transversely thereof to the depression for passage of a needle, and an electric lamp for illuminating the interior of the head.

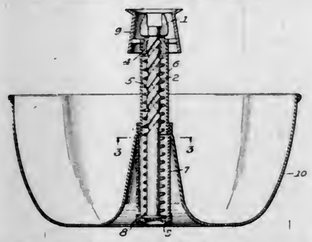
2,323,293
ASH TRAY
Anton F. Boho, Newark, N. J., assignor of one-half to William Lefferts, Nutley, N. J.
Application December 11, 1941, Serial No. 422,525
5 Claims. (Cl. 131—235)

1. A device comprising a base having a threaded cut-out therein and an annular shoulder surrounding said cut-out, and a body having a complementary threaded boss extending therefrom, said body being removably secured to said base by screwing said boss into said cut-out, said body having its upper surface concavely rounded and having a plurality of wells extending substantially vertically therethrough, the upper ends of said wells being rounded outward to provide enlarged mouths blending with said concave surface, the



base of said cut-out lying flush against the lower ends of some of said wells to provide closures for said some of said wells, the upper surface of said shoulder similarly lying flush against the lower ends of the remainder of said wells to provide closures therefor, said wells being tapering in longitudinal cross-section with their narrower ends at the bottom.

2,323,294
MECHANICAL SMOKING PIPE BOWL CLEANER
Sidney J. Brandt, New York, N. Y.
Application April 6, 1942, Serial No. 437,755
3 Claims. (Cl. 131—232)

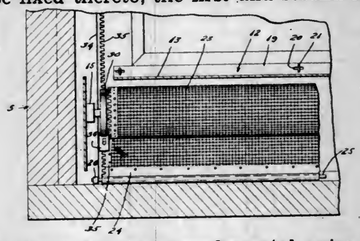


1. A mechanical pipe bowl cleaner operated by pressing a pipe bowl upon the cleaner which pressure causes a cleaning tool to rotate and enter the pipe bowl, and comprising a spiral rod with a cleaning tool attached to one end and a flat disk attached to the other end; a pipe rest attached to a driving nut which travels on the spiral rod and causes the latter to rotate by engaging its spiral; a spring inserted between the flat disk and the driving nut, said spring tending to keep the two apart; a tube fastened to the driving nut, said tube sliding in a sleeve which has a vertical groove into which a small lip of the tube enters and acts as a guide and stop, and keeps the tube from rotating; and a cap provided with a convex surface and fastened to one end of the sleeve and upon which the flat disk rests and rotates.

2,323,295
WINDOW SCREEN
Lewis E. Brewer, Boonville, Mo., assignor of ten per cent to Tom Zeakas and Harry Galanos, St. Louis, Mo.
Application December 3, 1941, Serial No. 421,509
1 Claim. (Cl. 160—246)

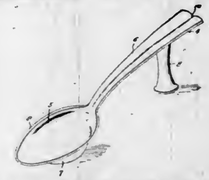
In a window frame having a sill and sash parting strips at the sides thereof, a vertically slidable sash adapted to be mounted in said frame, a screen rollably mounted on said sash and having one end adapted to be connected to said sill whereby said screen is unrolled by elevation of said sash, and means to fasten the side edges

of said screen to said parting strips progressively under elevation of the sash comprising slide fastener strips extending along and fixed to the side edges of the screen, similar slide fastener strips adapted to extend along said parting strips and be fixed thereto, the first and second men-



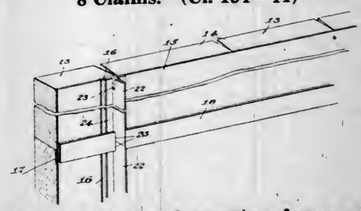
tioned strips forming complemental pairs, and slide fastener connectors carried by said sash intermediate said roll and the end of the screen connected to the sill and adapted to interconnect said slide fastener strips at the respective side edges of the screen.

2,323,296
COMBINED HOLDER AND DRIP COLLECTOR FOR TABLE UTENSILS
Catherine A. Brown, Atlanta, Ga.
Application August 2, 1941, Serial No. 405,264
3 Claims. (Cl. 65—65)



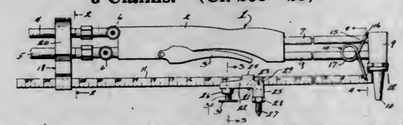
3. A holder for table utensils and the like comprising a drip bowl having a concave interior, a supporting base beneath said bowl, a longitudinal drip support extending upwardly from said bowl and having a gutter formed therein, the gutter draining into said bowl, and a supporting base extending from beneath said drip support, one of said supporting bases having a flat bottom.

2,323,297
HEAT INSULATING CONSTRUCTION
Howard W. Collins, Newark, Ohio, assignor to Owens-Corning Fiberglas Corporation, a corporation of Delaware
Application May 8, 1940, Serial No. 334,020
8 Claims. (Cl. 154—44)



4. A supporting and securing frame of open panel form for sectional tank covering insulation, including: a plurality of bands surrounding the tank and overlying the covering material, a plurality of bars extending at substantially right angles to said bands, relatively spaced about the tank and having end portions received between the bands and the insulating material to be held supportingly against the material and having opposite end abutment portions contacting the edges of adjacent bands to space the bands.

2,323,298
CUTTING TORCH ATTACHMENT
James L. Cook, Trinity Center, Calif.
Application February 26, 1942, Serial No. 432,539
3 Claims. (Cl. 266—23)



1. An attachment for a cutting torch having a cutting tip, comprising a bar, means carried by one end of the bar for coupling the same with said tip, means carried at the other end of the bar for detachably coupling the same with the torch, the said means functioning to maintain the bar in parallel relation with the torch body, a centering unit slidably mounted upon the bar and including a pointed pivot element, means for securing the centering unit in adjusted position on the bar, and a resilient coupling carried by the first mentioned end of the bar, and adapted to engage over the adjacent end of the torch, for yieldingly drawing the first mentioned means into secure engagement with the cutting tip.

2,323,299
SURFACE COVERING
Edward L. Craig, Charleston, W. Va.
Application April 9, 1941, Serial No. 387,564
3 Claims. (Cl. 20—5)

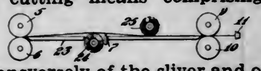


1. As an article of manufacture, a surface covering unit comprising a relatively thick substantial rigid base body of pressed fibrous material, the body being shaped to have one face presenting well defined protrusions and valleys, a tar felt sheet overlying and firmly united to the said one face of the base and following the contours thereof, a granular material adhesively secured to and covering said sheet, the said protrusions simulating laid stones and valleys simulating mortar lines between adjacent stones, the portions of the base forming the backs of the valleys together with the back of the base adjacent the periphery of the unit lying in a common plane whereby the unit has contact with a supporting surface only around its periphery and at various locations within the area defined by the periphery.

2,323,300
TEXTILE MANUFACTURE
Edward J. Abbott, Wilton, N. H., assignor to Abbott Machine Company, Wilton, N. H., a corporation of New Hampshire
Application April 17, 1937, Serial No. 137,492
4 Claims. (Cl. 19—1)

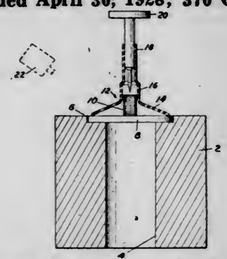
1. Apparatus for use in producing spun yarn

from fiber of the continuous type comprising means for disposing a plurality of such fibers side by side in parallel relation and in substantially the same plane to form a ribbon-like sliver, spaced pairs of drafting rolls operative to advance and progressively to tension the constituent fibers, cutting means disposed at a predetermined distance from one of said pairs of rolls, said cutting means comprising a blade



movable transversely of the sliver and over which the sliver moves, and means for reciprocating said cutter longitudinally of its edge, said cutter being so constructed and arranged as to sever any individual fiber when the tension thereon exceeds a predetermined amount, and means operative to condense the resultant short lengths of fiber to form a continuous sliver.

2,323,301
HOUSING FOR USE IN TESTING DETONATORS
Andrew T. Anderson, Dover, N. J.
Application July 20, 1942, Serial No. 451,660
2 Claims. (Cl. 73—51)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A housing for use in testing detonators comprising an integrally formed body of transparent material designed to be fragmented by the force of the explosion of the detonator, and having an upper elongated portion for the reception of a firing pin, said portion merging into a chamber for the reception of the detonator, and a lower open face flared portion.

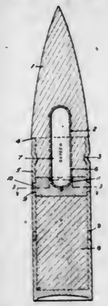
2,323,302
ATTACHMENT FOR PENCILS AND THE LIKE
Samuel E. Block, Philadelphia, Pa.
Application December 31, 1941, Serial No. 425,215
2 Claims. (Cl. 215—12)



1. An attachment for pencils and the like comprising a housing having a dished bottom and an internally threaded mouth portion, a threaded cap member screwed into the mouth portion of said housing, an elongated applicator carried by said cap and depending therefrom, a stopper fitting snugly about said applicator and abutting the lower face of said cap, a portion of the applicator below the stopper being bent to form a transverse offset thereon constituting an abutment engaging the lower end of the stopper for retaining the latter in position against the cap member, and a transparent container having the mouth thereof fitting about and frictionally engaged with said stopper, the container being spaced from walls of the housing and removable from said housing with said cap, the lower end of said container being tapered and disposed in close proximity to the center of the dished bottom of the housing to coact therewith and prevent casual lateral displacement of the container while within the housing

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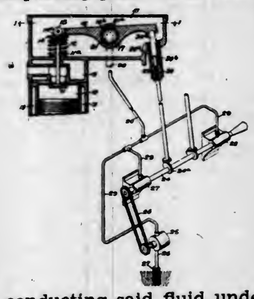
2,323,303
INCENDIARY BULLET
William R. Bluehdorn, Hartford, Conn., and Richard N. Nelson, Black River Falls, Wis.
Application June 27, 1941, Serial No. 400,041
3 Claims. (Cl. 102—90)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



3. An incendiary projectile comprising an ogival point member having a chamber therein communicating with the rear end of said point member, a shatterable bulb in said chamber, compressed gaseous oxidizing material in said bulb, a hollow rear member attached to said point member and incendiary material in said rear member.

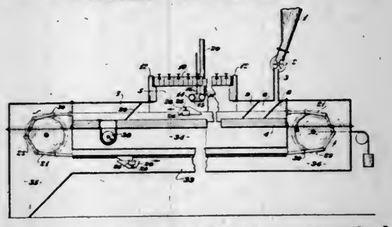
2,323,304
AUTOMATIC PRESSURE CONTROL FOR ENGINES
Raymond H. Bowman, United States Army, Fort Wayne, Ind.
Application December 17, 1941, Serial No. 423,328
7 Claims. (Cl. 123—182)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A system for controlling the operation of an engine having a cylinder and a cooperable valve for controlling the pressure in said cylinder, means for actuating the valve in its normal cycle including a rocker arm, said system comprising a fluid cylinder having an aperture and upon which the rocker arm is pivotally mounted, a piston in the fluid cylinder and having a projection adapted to pass through the fluid cylinder aperture, means on the rocker arm and cooperating with the piston projection for positively locking the rocker arm, a fluid supply means for imparting pressure to said fluid, and



means for conducting said fluid under pressure to actuate the piston projection.

2,323,305
REDUCING APPARATUS
David N. Burruss, Jr., Hammond, Ind., and Joseph E. Drapeau, Jr., Calumet City, Ill., assignors to The Glidden Company, Cleveland, Ohio, a corporation of Ohio
Application March 29, 1941, Serial No. 385,782
9 Claims. (Cl. 266—24)



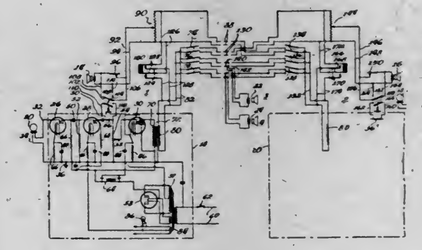
1. In an apparatus of the type described, a reducing chamber having a stationary hearth, continuously traveling rabbling means movable through the reducing chamber, a sealed return chamber for the rabbling means separated from the reducing chamber by an air space, connecting means between the reducing chamber and the return chamber through which the rabbling means pass, means for continuously feeding a charge of material to be reduced to the hearth, means for continuously conveying the charge through the reducing chamber and over the hearth, and means for continuously removing the reduced material from the reducing chamber.

2,323,306
SALUTING TUBE
Alvin A. Campbell, Hackettstown, N. J.
Application August 6, 1940, Serial No. 351,633
2 Claims. (Cl. 42—76)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



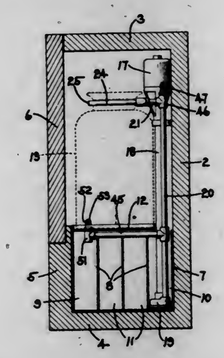
1. A saluting tube comprising a cartridge chamber, and a bore comprising, exclusive of the cartridge chamber, three differentiated merging chambers as follows: a chamber converging forward from the cartridge chamber; an intermediate cylindrical chamber, and a chamber diverging from the cylindrical chamber and extending to the end of the tube.

2,323,307
COMMUNICATION SYSTEM
Richard H. Campbell, Racine, Wis., assignor to Webster Electric Company, Racine, Wis., a corporation of Delaware
Application July 1, 1940, Serial No. 343,390
25 Claims. (Cl. 179—37)



1. A multiple unit intercommunication system comprising a number of similar stations, each having an amplifier with input and output connections, a microphone, a loudspeaker, and amplifier gain control means associated with said amplifier, said amplifier gain control means being arranged to limit the amplifier gain below excessive feedback point when the microphone is connected to the input and the loudspeaker is temporarily connected to the output of said amplifier and prior to normal use of the station in the system.

2,323,308
REFRIGERATING APPARATUS
Joseph W. Chamberlain, Zeeland, Mich.
Application August 4, 1941, Serial No. 405,277
11 Claims. (Cl. 62—141)

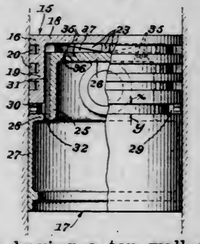


1. A device for showering a spray of cooling fluid over and around a receptacle for cooling the substance therein comprising, a main conduit for passage of the water, two other conduits pivotally connected to said main conduit on a vertical axis, said other conduits each curved to pass partially around said receptacle and movable toward or away from each other in a substantially horizontal plane to a closed operative position or to open position to permit receptacles to be inserted or removed therefrom, and a plurality of openings in said other conduits, whereby cooling fluid under pressure passing therethrough will be sprayed over the receptacle.

2,323,309
MEDICINAL AGENT
Walter G. Christiansen, Glen Ridge, N. J., and Alfred E. Jurist, Brooklyn, N. Y., assignors to E. R. Squibb & Sons, New York, N. Y., a corporation of New York
No Drawing. Application July 20, 1940, Serial No. 346,660
5 Claims. (Cl. 167—69)

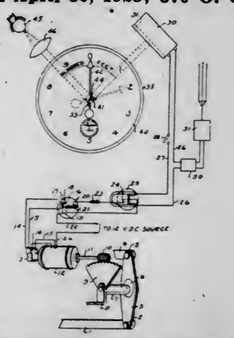
1. A water-soluble medicinal agent essentially comprising a product formed by the condensation of 4-arsinoso-2-amino-phenol with sodium formaldehyde sulfoxylate at no higher than room temperature, and some 4-arsinoso-2-amino-phenol as such.

2,323,310
PISTON
Cornelius S. Clark, Norfolk, Va.
Application January 28, 1942, Serial No. 428,611
19 Claims. (Cl. 123—176)



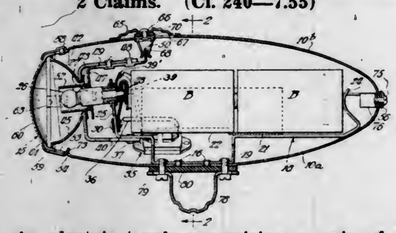
1. A piston having a top wall and a skirt, a transverse partition spaced below said top wall and defining a chamber with said wall and the intervening skirt portion, an outlet opening for the chamber, an inlet opening for the chamber, and a funnel formation communicating with said inlet opening and faced toward the base of the piston, whereby on the down stroke of the piston in use a current will be set up from the inlet opening through the chamber to the outlet opening.

2,323,311
AUTOMATIC ALTITUDE CONTROL
Carl J. Crane and Raymond K. Stout, Dayton, Ohio
Application July 31, 1940, Serial No. 348,719
3 Claims. (Cl. 244—77)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. An automatic altitude control for aircraft comprising an aircraft power plant, an oscillatory member, servomotor means operable through predetermined circuit-controlled alternate cycles and connected with the oscillatory member to position the latter at the limit of its stroke in one direction when at the end of one cycle and to position the same at the limit of its stroke in the opposite direction when at the end of the other cycle, throttle-control means for varying the power output of the power plant and including a throttle-adjusting lever engaged by the oscillatory member to be shifted thereby for adjusting the throttle and movable relatively to the member to be independently adjustable in any given position of the member to vary the throttle setting, said lever having a predetermined throttle-setting position relative to the member which when the member is at the end of its stroke in a given direction effects a decrease in the power output of the power plant to cause the aircraft to descend in a power glide at a predetermined rate of descent and when the member is at the end of the stroke in the opposite direction effects an increase in the said power output, separate control circuits for the servomotor means having a common control switch normally and yieldably positioned in circuit-closing relation to the circuit controlling movement of the oscillatory member in the said given direction and in circuit-opening relation to the other circuit, normally inactive relay means energizable for reversing the position of the control switch to close said other circuit, and a barometric control for the relay, responsive to a predetermined barometric pressure to energize the relay.

2,323,312
ELECTRIC TORCH
William C. Crimmins, Marion, Ind., assignor to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York
Application September 21, 1939, Serial No. 295,946
2 Claims. (Cl. 240—7.55)



1. An electric torch comprising a pair of detachable substantially semi-cylindrical interlocking casing members, and means for positively retaining said members in assembled relation, one of said members having means therein for retaining a battery and also having an electric light system including a lamp, a diffusing element associated with the lamp and slidable into and out of operative relation therewith, a member for actuating said diffusing element, and manipulating means on the other casing member detachably engageable with said actuating member.

2,323,313
SYNTHETIC RUBBERLIKE LATICES
Ingofroh Dennstedt, Cologne-Buchforst, Germany, assignor, by mesne assignments, to Jasco, Incorporated, a corporation of Louisiana
No Drawing. Application March 11, 1939, Serial No. 261,347. In Germany February 26, 1938
4 Claims. (Cl. 260—32)

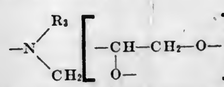
1. The process which comprises polymerizing butadienes-1.3 in aqueous emulsion in the presence of peroxides, incorporating within the emulsion immediately upon completion of the polymerization a water-insoluble anti-oxidant selected from the group consisting of phenyl-β-naphthylamine, dibenzyl naphthylamines and alkyl phenol mono- and disulfides and a water-soluble reducing agent selected from the group consisting of alkali metal hydrosulfites, hydroquinone, hydrogen sulfide and the alkali metal salts thereof, linoleic acid, ferrous salts and alkali metal formaldehyde sulfoxylates in such amount that they are still to be traced after decomposition of the peroxides and then storing the emulsion.

2,323,314
AZO COMPOUNDS AND MATERIAL COLORED THEREWITH
Joseph B. Dickey and James G. McNally, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application November 9, 1940, Serial No. 365,108
7 Claims. (Cl. 260—199)

1. The azo dye compounds having the general formula:

$$R{-}N{=}N{-}R_2$$

wherein R represents the residue of a member selected from the group consisting of an aryl nucleus of the benzene series, an aryl nucleus of the naphthalene series, a benzoxazole nucleus and a benzothiazole nucleus, R_2 represents the residue of a naphthalene nucleus containing a



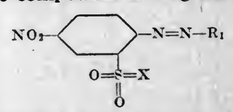
grouping, wherein Z represents a member selected from the group consisting of hydrogen, an alkyl, a cycloalkyl, an alkenyl, a carboxyalkenyl, a phenyl, a naphthyl and a furyl group, Y represents a member selected form the group consisting of hydrogen, an alkyl, a furyl, a phenyl, a naphthyl and an alkenyl group, R_3 represents a member selected from the group consisting of hydrogen, an aliphatic, a cycloalkyl, a phenyl, a naphthyl and a

$$-X{-}O{-}C{-}Z \quad (\text{with } =O \text{ on } C)$$

group, wherein X stands for an alkyl hydrocarbon radical, n stands for 1 or 2 and n_1 stands for 0 or 1, in para position to the azo bond.

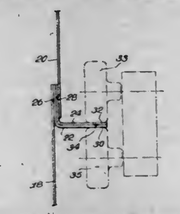
2,323,315
AZO COMPOUNDS AND MATERIAL COLORED THEREWITH
Joseph B. Dickey and James G. McNally, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application July 21, 1941, Serial No. 403,359
15 Claims. (Cl. 260—155)

1. The azo compounds having the formula:



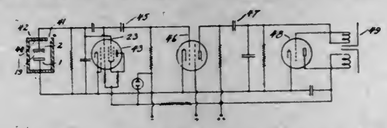
wherein X stands for a member selected from the group consisting of an alkyl group, an alkylcarboxyl group, and an alkylcarboxamide group, and R_1 stands for a member selected from the group consisting of a 1-alkyl-2-low carbon alkyl tetrahydroquinoline nucleus and a 1-alkyl-2-low carbon alkyl phenmorpholine nucleus, said tetrahydroquinoline and phenmorpholine nuclei being joined to the azo bond shown through the carbon atom in the 6-position.

2,323,316
SEAM CONSTRUCTION
William L. Dieter, Allentown, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application June 20, 1939, Serial No. 280,040
5 Claims. (Cl. 189—36)



3. A water tight joint between overlapping metal sheets which comprises a pair of overlapping sheets, a pair of seam strips of deformable material with at least one of said strips interposed between the lapped sheets and extending outwardly from the lapped area, one of said strips being continuously resistance seam welded to one sheet and the other strip being continuously resistance seam welded to the other sheet, and said strips being continuously resistance seam welded together where said one strip extends outwardly from the lapped area.

2,323,317
ALTITUDE MEASURING
Francis W. Dunmore and Evan G. Lapham, Washington, D. C., assignors to the Government of the United States of America, as represented by the Secretary of Commerce
Application February 5, 1940, Serial No. 317,320
3 Claims. (Cl. 177—380)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

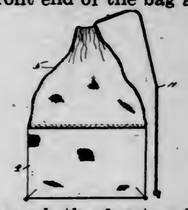


1. In an air-borne radio altimeter or like free-air surrounded device of the type having means for generating a carrier wave and modulator means for applying thereto a resistance varied modulation signal; a sub-combination varying in resistance inherently in response to changes in atmospheric density comprising an ionized air gap electrically connected in controlling relation to said modulator, said air gap physically communicating with the air surrounding said device, and being of a length within the range over which an increase in gap length produces a decrease in resistance.

2,323,318
FISH BAG
Mihaly Farkas, Minneapolis, Minn.
Application October 13, 1941, Serial No. 414,847
1 Claim. (Cl. 43—55)

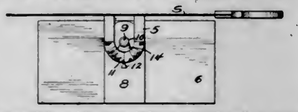
A fish bag for pulling alongside of or behind

a boat comprising an elongated rectangular container of oval flat-sided form transversely and embodying a substantially rigid rear end section of recticulated material, and a collapsible front end section of fabric material less impervious to water than the rear end section to assist in maintaining the front end of the bag at a higher level



than the rear end, the front end section having a mouth end provided with a hem, and a shirr string in said hem and forming a tow line, said shirr string having a loop end within said mouth, the other end of the string extending through said loop to form a slip knot in said string.

2,323,319
MAGNETIC GUIDE FOR TOOLS
Charles S. Finnell, Oklahoma City, Okla.
Application March 24, 1941, Serial No. 385,017
3 Claims. (Cl. 143—89)



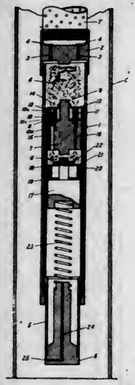
1. The combination with a tool of a nature to cut under its longitudinal reciprocation and provided with an elongated flat, true face extending in the direction of the length of the tool and in parallelism with the stroke of the tool, and a magnet disposed to engage said face and hold the tool against lateral movement while permitting its longitudinal reciprocation.

2,323,320
ROTAMETER
Kermit K. Fischer, Philadelphia, Pa.
Application September 24, 1940, Serial No. 358,071
6 Claims. (Cl. 73—209)



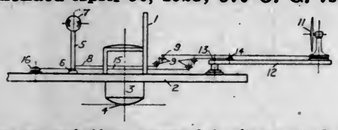
1. A rotameter including a tapered metering tube, a co-axial elongated chamber spaced therefrom outside the path of liquid flow and in communication with said metering tube, a metering float comprising a relatively thin "head" portion disposed within said metering tube and a weight-giving "body" portion disposed wholly within said elongated chamber and a relatively thin spacer portion interconnecting said "head" and "body" portions whereby most of the mass of said float is at all times outside the path of liquid flow; the thickness of said "head" portion being not greater than 10% of the diameter thereof, and means for guiding said metering float coaxially in relation to said tapered tube.

2,323,321
HYDRAULIC TUBING FOOT
Samuel M. Futral, Rodessa, La.
Application December 26, 1940, Serial No. 371,768
2 Claims. (Cl. 166—4)



1. A device of the class described comprising a tubular shell, a closing block on one end of the shell adapted for fastening onto the end of a well tubing or the like, a hollow plunger within the said shell, said hollow plunger including a transversely extending perforated partitioning member through which a fluid may pass when the plunger moves in the shell, a fluid returning plunger mounted within the said hollow plunger on a compression spring below the partitioning member adapted to force fluid through said partitioning member, said compression spring being mounted on a perforated plug located within the hollow plunger, said partitioning member being provided with a primary passageway for conducting a fluid down through the said partitioning member and an upward acting check valve for closing the said primary passageway, said partitioning member being also provided with a secondary passageway through which a fluid may be forced by means of the said fluid returning plunger and a check valve for closing the said secondary passageway.

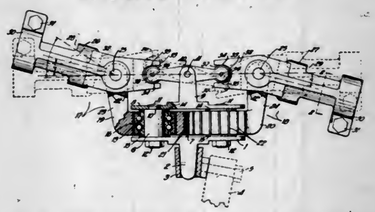
2,323,322
AVIATION GROUND TRAINING MACHINE
John Harlin Geisse, Madison, Wis.
Application May 22, 1942, Serial No. 444,068
3 Claims. (Cl. 35—12)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In an aviation ground trainer of the non-translatable type, the combination of a platform, universal supporting means for the platform to

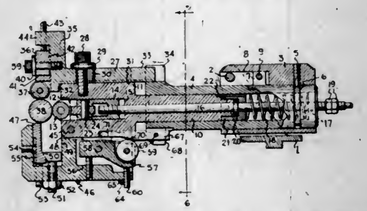
permit the same to be tiltable in any direction, a seat on the platform, a control stick and a universal joint for connecting the same to the platform to permit movement of said control stick in any direction, means movable by the control stick to cause the trainer platform and seat to be tilted longitudinally upon fore or aft movement of the control stick and to cause the trainer platform and seat to tilt or bank laterally in the direction of transverse movement of the control stick, a right and left rudder pedal and means controlled by the rudder pedals to cause the said platform and seat to tilt or bank laterally to the left upon forward movement of the right rudder pedal, and to cause the said platform and seat to tilt or bank laterally to the right upon forward movement of the left rudder pedal.

2,323,323
BOW-FACING OARLOCK
Percy M. Griffin, Albany, N. Y.
Application January 5, 1939, Serial No. 249,457
12 Claims. (Cl. 9—25)



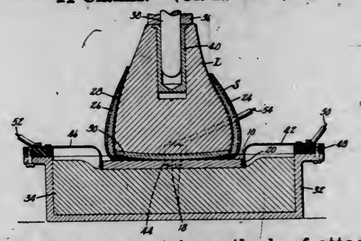
1. In a bow-facing oarlock, the combination with a paddle holding means, of a mounting therefor providing substantially universal movement of said means, a handle holding means and a mounting therefor providing substantially universal movement of said handle holding means, gearing connecting said mountings. and a rocker cooperating with said holding means; whereby said handle and paddle move together but in opposite directions.

2,323,324
FINISHING TOOL FOR METAL TURNING
Clifford Hanson, Detroit, Mich.
Application April 3, 1941, Serial No. 386,598
22 Claims. (Cl. 82—35)



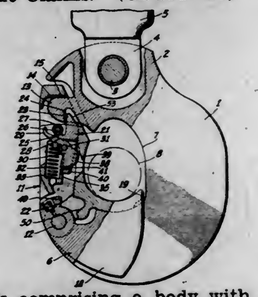
1. A cutting tool for rotating work adapted for forward and back actuation to and from its cutting position, comprising a support, a head slidable forward and back on the support, a spring reacting between the support and head and normally establishing the head at its forward limit of travel on the support, means establishing said limit, a work-abutting roller carried by the head, a cutter carried by the head and positioned by the roller to take effect on the work, and coacting means on the support and head employing advance of the support relative to the head to feed the cutter predeterminedly to the work.

2,323,325
SOLE ATTACHING IN ELECTROSTATIC FIELDS
George T. Hart, Jr., and Erastus E. Winkley, Lynn, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application May 31, 1941, Serial No. 396,070
11 Claims. (Cl. 12—142)



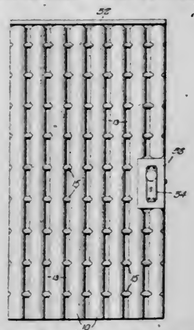
1. That improvement in methods of attaching outsoles to lasted shoes, between which there has been positioned a band of adhesive extending around the margin of the bottom of the shoe, which consists in positioning upon the periphery of said outsole a strip of thin, pliable, metallic foil adapted to serve as one electrode, positioning another electrode adjacent to the inner edge of said margin, bringing together the shoe and outsole, applying pressure thereto, supplying high-frequency electric current to said electrodes to set up an electrostatic field passing through said adhesive to activate it, relieving said pressure, and trimming said sole edge to remove said peripheral electrode.

2,323,326
LATCH MECHANISM FOR HOOKS
Richard K. Hertel, Los Angeles, Calif., assignor to Byron Jackson Co., Huntington Park, Calif., a corporation of Delaware
Application January 9, 1942, Serial No. 426,195
19 Claims. (Cl. 294—83)



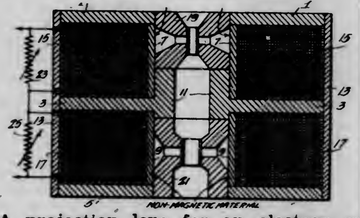
1. A hook comprising a body with a bail-receiving notch, a closing arm pivotally connected to the body and adapted to close the entrance to the notch, a latch member mounted on the arm and having a portion adapted to cooperate with the body to releasably latch the arm in closed position and being movable into an inoperative position, a locking member cooperating with the latch member and having an operative position wherein it positively prevents movement of the latch member out of latching engagement with the body, said locking member being movable into an inoperative position wherein it permits release of the latch member, and common resilient means yieldably retaining both the latch member and the locking member in their operative positions.

2,323,327
DOOR OR PANEL
Aubrey P. Hill and Glenn W. Hill, Cook, Minn.
Application May 1, 1942, Serial No. 441,340
4 Claims. (Cl. 20—35)



1. Panelling comprising juxtaposed planks provided with parallel longitudinal grooves, and transversely disposed dowels connecting the planks together and having exposed portions extending across the grooves.

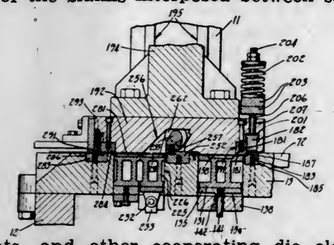
2,323,328
PROJECTION LENS FOR ELECTRON MICROSCOPES
James Hillier, Collingswood, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application October 31, 1940, Serial No. 363,745
7 Claims. (Cl. 250—49.5)



1. A projection lens for an electron microscope including in combination a magnetic structure including an upper pair of pole pieces, a lower pair of pole pieces, means for energizing said magnetic structure and means including said energizing means for controlling separately the magnetic force applied to each of said pairs of pole pieces whereby the field of view and the magnification may be varied according to a predetermined law.

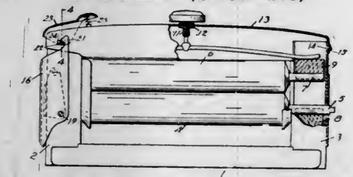
2,323,329
CAN MAKING MACHINE
John M. Hothersall, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application March 30, 1940, Serial No. 327,027
5 Claims. (Cl. 113—7)

1. In a machine for forming a closely contiguous plural layer fold in flat blanks, the combination of a work table for receiving and supporting said blanks and having die elements thereon, a press plate located above and movable toward said work table and having cooperating die elements thereon, means for moving said press plate in a single working stroke whereby said plate die elements cooperate with their associated table die elements to operate on a plurality of blanks on said work table to simultaneously form a step section in one of the blanks, and a closely pressed folded section in still another of the blanks interposed between said die



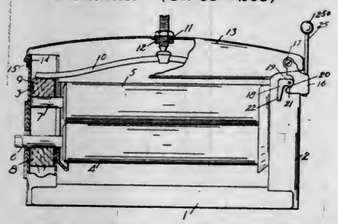
elements, and other cooperating die elements on said work table for forming an intermediate folded step section in still another of said blanks coincidentally with said partial folding and pressing operations on said first mentioned blanks.

2,323,330
WRINGER
Walter L. Kauffman, II, Erie, Pa., assignor to Lovell Manufacturing Company, Erie, Pa., a corporation of Pennsylvania
Application March 17, 1937, Serial No. 131,329
19 Claims. (Cl. 68—263)



8. In a wringer having a frame, rolls mounted in the frame, and a pressure means exerting pressure on the rolls, the combination with said frame and pressure means of a release for the means comprising a toggle having operative connections with the frame and means and an operative connection between the links of the toggle, one of said connections having disengagable pressure sustaining surfaces, and a trip mechanism movable relative to the links effecting direct disengaging relative movement of the disengageable surfaces independent of the toggle action.

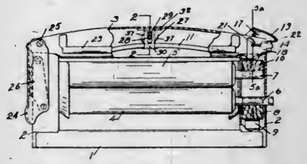
2,323,331
WRINGER AND THE LIKE
Walter L. Kauffman, II, Erie, Pa., assignor to Lovell Manufacturing Company, Erie, Pa., a corporation of Pennsylvania
Application May 9, 1938, Serial No. 206,747
6 Claims. (Cl. 68—263)



1. In a wringer having a frame, rolls mounted in the frame, a top for the frame, pressure means exerting pressure from the top on the rolls, and

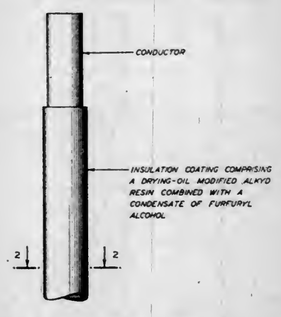
a toggle connection swinging on axes extending from front to rear of the wringer between the frame and top and extending, when set, downwardly along the end of the wringer, said top being releasable by the release of the toggle connection; the combination with the toggle connection and top of means movable with the top for actuating the toggle connection to effect a release of the top and with it the pressue due to said pressure means.

2,323,332
WRINGER AND THE LIKE
Walter L. Kauffman, II, Erie, Pa., assignor to Lovell Manufacturing Company, Erie, Pa., a corporation of Pennsylvania
Original application February 6, 1936, Serial No. 62,605. Divided and this application June 9, 1939, Serial No. 278,297
3 Claims. (Cl. 68—263)



1. In a wringer, having a frame, rolls mounted in the frame, means exerting yielding pressure on the rolls, and a resetting apparatus for the means, the combination with said means and apparatus of mechanism interposed between the apparatus and the means, said mechanism having pairs of correspondingly dimensioned parts so positioned relative to each other that adjustment can be made from any one of several settings to any one of the other settings, the necessary amount of displacement of said mechanism from any one setting to any of the others being always the same, said mechanism maintaining its adjustment between resetting operations.

2,323,333
INSULATING ENAMEL FOR ELECTRIC CONDUCTORS
Henry J. Kauth, Rome, N. Y., assignor to General Cable Corporation, New York, N. Y., a corporation of New Jersey
Application June 22, 1939, Serial No. 280,575
6 Claims. (Cl. 174—125)

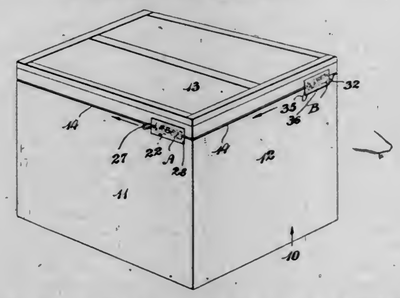


4. A baked coating on wires comprising the combination of a drying-oil modified alkyd resin, with a resin produced by the partial condensation of furfuryl alcohol.

2,323,334
ENAMEL COMPOSITION
Henry J. Kauth, Rome, N. Y., assignor to General Cable Corporation, New York, N. Y., a corporation of New Jersey
No Drawing. Application July 20, 1942, Serial No. 451,665
15 Claims. (Cl. 260—42)

1. The method of compounding an enamel having a furan resin base and containing a flexibilizing agent to improve its qualities for use as a wire coating, which method comprises condensing furfuryl alcohol to a density not substantially less than 14.8° nor substantially greater than 17.4° Baumé at 70° C., stopping the further condensation thereof, and adding thereto a synthetic linear polyamide which is a reaction product of a linear polyamide-forming composition comprising a member of the class consisting of polymerizable monoaminomonocarboxylic acids and a mixture of a diamine and a dibasic carboxylic acid.

2,323,335
CARTON HAVING ATTACHED CARTON OPENER
Robert Lee Kaye, Newark, N. J.
Application June 29, 1940, Serial No. 343,293
2 Claims. (Cl. 229—51)



1. A carton cutter comprising a pair of spaced guide plates, a cutter blade connecting the guide plates, and secured thereto by means of bent-over tabs, said blade having a cutting edge extending between the two guide plates, one of the guide plates having a bead adapted to fit a groove formed in the exterior face of the carton.

2,323,336
RUBBER AND ASPHALT CEMENT AND ARTICLE COMPRISING SAME
Earl S. Knorr, Detroit, Mich., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware
No Drawing. Application May 6, 1940, Serial No. 333,687
11 Claims. (Cl. 260—58)

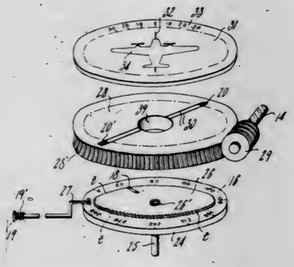
1. The method of making an adhesive composition which comprises placing a plastic rubber material in a heated, internal mixer, mixing such material while gradually adding thereto asphalt as a softening agent for the rubber, then after a smooth mix is attained adding sodium hydroxide solution thereto and continuing the mixing until a uniform batch is again attained, next some volatile solvent is added to reduce the viscosity of the batch, then after a smooth mix is attained water is added and the mixing continued until the same is substantially uniformly disseminated throughout the batch, and then additional amounts of volatile solvent are added, with continued mixing, to bring the resulting adhesive cement to predetermined vis-

cosity or plasticity, the water being added in small proportion, not greater than about 10% by weight of the total weight of said volatile solvent, and said asphalt being added in amount by weight of ¾ to 1½ that of said rubber.

2,323,337
RADIO NAVIGATION SYSTEM

William P. Lear, Dayton, Ohio, assignor, by mesne assignments, to Lear Avia, Inc., Piqua, Ohio, a corporation of Illinois

Application January 11, 1940, Serial No. 313,433
13 Claims. (Cl. 250—11)



3. A navigational instrument of the character described comprising: a directional compass, a disk containing a desired course index, said disk being rotatable by and adjustably mounted on said directional compass, a member rotatably supported adjacent said disk, a radio course index carried by said member coaxially and simultaneously visible with said desired course index, a housing for said directional compass and indices, an element rotatably supported in said housing, said element being engaged with said member for rotation thereof and having a projecting portion for external mechanical coupling, mechanism mounted in said housing adjacent said disk and arranged for direct contacting engagement with said disk, and means for turning said compass while said mechanism is held in engagement with said disk for shifting the angular position of said desired course index with respect to said compass.

2,323,338
COMPOSITION CONTAINING POLYMERIZED CHLOROPRENE

Alexander D. Macdonald, Malden, Mass., assignor to B. B. Chemical Co., Boston, Mass., a corporation of Massachusetts

No Drawing. Original application January 31, 1940, Serial No. 316,513. Divided and this application November 3, 1941, Serial No. 417,681
4 Claims. (Cl. 260—32)

4. The method of inhibiting thickening and gelling of a liquid dispersion of malodorant-free plastic polymerized chloroprene in an organic solvent, which comprises incorporating in said dispersion a salt of the group consisting of sodium monobasic phosphate (NaH_2PO_4) and sodium phosphite (Na_2HPO_3).

2,323,339
MOMENTARILY CONSOLIDATED BOARD PRODUCT

William H. Mason, Laurel, Miss., assignor to Masonite Corporation, Laurel, Miss., a corporation of Delaware

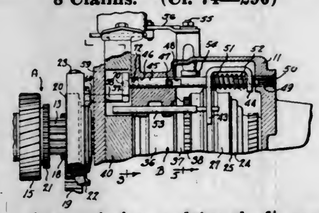
No Drawing. Application December 10, 1938, Serial No. 244,917
4 Claims. (Cl. 92—39)

1. That improvement in roll-consolidated board products having two finished surfaces, which improvement consists in that the board product is composed essentially of extensively hydrolyzed ligno-cellulose material in predominantly plastic state and containing water solubles from hydrolysis only in relatively small proportions, and in that the board product is largely without fibrous structure and is principally dependent for strength and stiffness upon the predominantly plastic character of its constituent material rather than upon fiber length or strength, said board having a specific gravity of about 1 to 1.25 and a modulus of rupture of about 6,000 to 8,300 pounds per square inch.

2,323,340
MOTOR VEHICLE

Forest R. McFarland, Huntington Woods, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan

Application November 8, 1941, Serial No. 418,289
8 Claims. (Cl. 74—290)



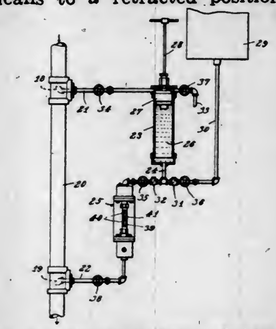
1. In a transmission, a drive shaft, mechanism for selectively driving said shaft in opposite directions including reverse drive shift means, a tail shaft, planetary gearing in driven engagement with the drive shaft, a driving member fixed to the drive shaft, means drivingly coupling a portion of the planetary gearing with the tail shaft and shiftable to engage and couple the driving member with the tail shaft through the planetary gearing, means shiftable to brake a portion of the planetary gearing to effect modified drive from the drive shaft to the tail shaft, loaded spring actuator means for shifting the coupling means into and out of engagement with the driving member, a shift rod operable to operate the loaded spring actuator means, a shift member engaging said rod, said shift member being operable by said reverse drive shift means in its movement effecting reverse drive to shift said rod and engage the coupling member with the driving member, and interlock means cooperating with said shiftable planetary brake means and said rod in relation to prevent reverse gear shift and shift of said coupling means to engage said driving member while the planetary gearing portion is braked.

2,323,341
PROPORTIONAL CHEMICAL FEEDER

Chester T. McGill, Elgin, Ill., assignor to Elgin Softener Corporation, Elgin, Ill., a corporation of Illinois

Application October 17, 1938, Serial No. 235,418
8 Claims. (Cl. 210—38)

1. A proportioning apparatus comprising in combination with a conduit through which fluid is adapted to flow in one direction, a receptacle for treating fluid having a discharge pipe communicating with the fluid conduit to conduct treating fluid thereto, and an inlet pipe communicating with the conduit to conduct fluid from the conduit to the receptacle, means cooperating with the fluid conduit and said discharge and inlet pipes to create a pressure differential between said pipes only when fluid flows through the conduit under pressure, whereby treating fluid is discharged into the conduit only when there is fluid flow therethrough, piston means movable in one direction in said receptacle under pressure of fluid from said inlet pipe to expel treating fluid from said receptacle through said discharge pipe into the conduit, a drain including a shut-off valve communicating with said receptacle on the inlet pipe side of the piston means for drainage from the receptacle of fluid from the fluid conduit to permit return of the piston means to a retracted position, another



receptacle containing treating fluid adapted to be placed in communication with the first receptacle on the discharge pipe side of the piston means to refill said receptacle with treating fluid, and a fluid ejector communicating at one end with the drain and at the other end with the inlet pipe and at an intermediate point with the first named treating fluid receptacle on the inlet pipe side of the piston means, said ejector being arranged when the drain is opened into communication with said first-named receptacle to withdraw fluid therefrom by ejector action.

2,323,342
PRESSURE-SENSITIVE TAPE

John A. McManus, Marblehead, and Martin G. Higgins, Lynn, Mass.

Application June 24, 1940, Serial No. 342,172
2 Claims. (Cl. 154—43)



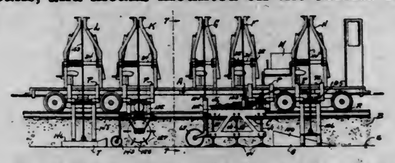
1. A pressure-sensitive tape adhesively coated upon both its upper and bottom surfaces having a removable cover and a narrow liner of flexible cellulose material such as paper extending along the entire length of at least one of the longer borders of the tape, the outer edge of the narrow liner and the edge of the tape being substantially coincident, and the liner being secured to the tape by adhesion of the latter but the upper surface of said liner adjacent the protecting cover being non-adhesive.

2,323,343
RAILROAD BALLAST RESHAPER AND SUBGRADE CLEANER

Harry W. Meese, Meadville, Pa.

Application October 29, 1941, Serial No. 417,030
6 Claims. (Cl. 37—105)

3. In ballast dressing apparatus, a carrier, means supported on the carrier for gathering scattered ballast toward the ballast bed, means mounted on the carrier operative to cut plant growth along the path cleared by the gathering means, and means mounted on the carrier rear-



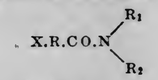
wardly of the cutter for firmly packing the outer edge of the ballast bed.

2,323,344
PROCESS OF BREAKING PETROLEUM EMULSIONS AND BREAKING AGENT

August Moeller, Frankfort-on-the-Main-Griesheim, Germany, Hans Tochtermann, deceased, late of Mannheim, Germany, by Hilde Tochtermann, administratrix, Eisleben, Germany, and Otto Trösken, Frankfort-on-the-Main-Fechenheim, Germany; vested in the Alien Property Custodian

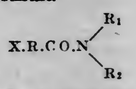
No Drawing. Application September 17, 1940, Serial No. 357,146. In Germany March 18, 1939
8 Claims. (Cl. 252—338)

5. A breaking agent for emulsions from crude petroleum and salt water consisting of a compound of the general formula



wherein X stands for a member of the group consisting of —O—SO_3Y and —SO_3Y, Y standing for a member of the group consisting of hydrogen, alkali metals, alkaline earth metals, ammonium and radicals of a quaternary ammonium compound, R is an aliphatic radical with at least 9 carbon atoms, and R_1 and R_2 stand for aliphatic hydrocarbon radicals.

8. A process for breaking emulsions from crude petroleum and salt water which comprises subjecting the emulsion to the action of a compound of the general formula

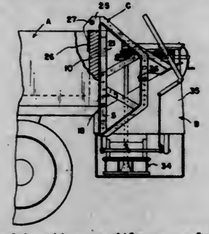


wherein X stands for a member of the group consisting of —OSO_3Y and —SO_3Y, Y standing for a radical of a quaternary ammonium compound, R is an aliphatic radical with at least 9 carbon atoms, R_1 stands for a member of the group consisting of hydrogen, alkyl, aryl, aralkyl, cycloalkyl and R_2 stands for a member of the group consisting of alkyl, aryl, aralkyl and cycloalkyl.

2,323,345
MOUNTING FOR SAND SPREADERS

Herbert R. Moore, Adrian, Mich.

Application October 6, 1941, Serial No. 413,887
18 Claims. (Cl. 275—8)



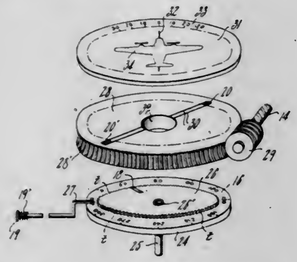
1. The combination with a vehicle having a

cosity or plasticity, the water being added in small proportion, not greater than about 10% by weight of the total weight of said volatile solvent, and said asphalt being added in amount by weight of ¾ to 1½ that of said rubber.

2,323,337
RADIO NAVIGATION SYSTEM

William P. Lear, Dayton, Ohio, assignor, by mesne assignments, to Lear Avia, Inc., Piqua, Ohio, a corporation of Illinois

Application January 11, 1940, Serial No. 313,433
13 Claims. (Cl. 250—11)



3. A navigational instrument of the character described comprising: a directional compass, a disk containing a desired course index, said disk being rotatable by and adjustably mounted on said directional compass, a member rotatably supported adjacent said disk, a radio course index carried by said member coaxially and simultaneously visible with said desired course index, a housing for said directional compass and indices, an element rotatably supported in said housing, said element being engaged with said member for rotation thereof and having a projecting portion for external mechanical coupling, mechanism mounted in said housing adjacent said disk and arranged for direct contacting engagement with said disk, and means for turning said compass while said mechanism is held in engagement with said disk for shifting the angular position of said desired course index with respect to said compass.

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4 Claims. (Cl. 260—32)

4. The method of inhibiting thickening and gelling of a liquid dispersion of malodorant-free plastic polymerized chloroprene in an organic solvent, which comprises incorporating in said dispersion a salt of the group consisting of sodium monobasic phosphate (NaH_2PO_4) and sodium phosphite (Na_2HPO_3).

2,323,339
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William H. Mason, Laurel, Miss., assignor to Masonite Corporation, Laurel, Miss., a corporation of Delaware

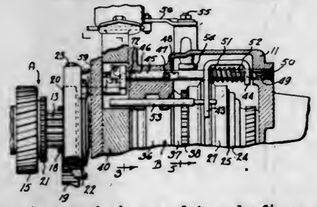
No Drawing. Application December 10, 1938, Serial No. 244,917
4 Claims. (Cl. 92—39)

1. That improvement in roll-consolidated board products having two finished surfaces, which improvement consists in that the board product is composed essentially of extensively hydrolyzed ligno-cellulose material in predominantly plastic state and containing water solubles from hydrolysis only in relatively small proportions, and in that the board product is largely without fibrous structure and is principally dependent for strength and stiffness upon the predominantly plastic character of its constituent material rather than upon fiber length or strength, said board having a specific gravity of about 1 to 1.25 and a modulus of rupture of about 6,000 to 8,300 pounds per square inch.

2,323,340
MOTOR VEHICLE

Forest R. McFarland, Huntington Woods, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan

Application November 8, 1941, Serial No. 418,289
8 Claims. (Cl. 74—290)



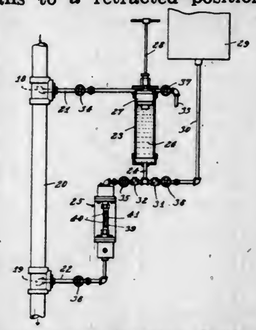
1. In a transmission, a drive shaft, mechanism for selectively driving said shaft in opposite directions including reverse drive shift means, a tail shaft, planetary gearing in driven engagement with the drive shaft, a driving member fixed to the drive shaft, means drivingly coupling a portion of the planetary gearing with the tail shaft and shiftable to engage and couple the driving member with the tail shaft through the planetary gearing, means shiftable to brake a portion of the planetary gearing to effect modified drive from the drive shaft to the tail shaft, loaded spring actuator means for shifting the coupling means into and out of engagement with the driving member, a shift rod operable to operate the loaded spring actuator means, a shift member engaging said rod, said shift member being operable by said reverse drive shift means in its movement effecting reverse drive to shift said rod and engage the coupling member with the driving member, and interlock means cooperating with said shiftable planetary brake means and said rod in relation to prevent reverse gear shift and shift of said coupling means to engage said driving member while the planetary gearing portion is braked.

2,323,341
PROPORTIONAL CHEMICAL FEEDER

Chester T. McGill, Elgin, Ill., assignor to Elgin Softener Corporation, Elgin, Ill., a corporation of Illinois

Application October 17, 1938, Serial No. 235,418
8 Claims. (Cl. 210—38)

1. A proportioning apparatus comprising in combination with a conduit through which fluid is adapted to flow in one direction, a receptacle for treating fluid having a discharge pipe communicating with the fluid conduit to conduct treating fluid thereto, and an inlet pipe communicating with the conduit to conduct fluid from the conduit to the receptacle, means cooperating with the fluid conduit and said discharge and inlet pipes to create a pressure differential between said pipes only when fluid flows through the conduit under pressure, whereby treating fluid is discharged into the conduit only when there is fluid flow therethrough, piston means movable in one direction in said receptacle under pressure of fluid from said inlet pipe to expel treating fluid from said receptacle through said discharge pipe into the conduit, a drain including a shut-off valve communicating with said receptacle on the inlet pipe side of the piston means for drainage from the receptacle of fluid from the fluid conduit to permit return of the piston means to a retracted position, another



receptacle containing treating fluid adapted to be placed in communication with the first receptacle on the discharge pipe side of the piston means to refill said receptacle with treating fluid, and a fluid ejector communicating at one end with the drain and at the other end with the inlet pipe and at an intermediate point with the first named treating fluid receptacle on the inlet pipe side of the piston means, said ejector being arranged when the drain is opened into communication with said first-named receptacle to withdraw fluid therefrom by ejector action.

2,323,342
PRESSURE-SENSITIVE TAPE

John A. McManus, Marblehead, and Martin G. Higgins, Lynn, Mass.

Application June 24, 1940, Serial No. 342,172
2 Claims. (Cl. 154—43)



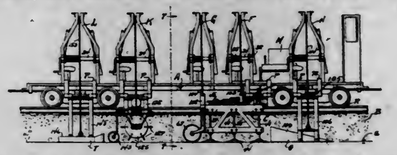
1. A pressure-sensitive tape adhesively coated upon both its upper and bottom surfaces having a removable cover and a narrow liner of flexible cellulose material such as paper extending along the entire length of at least one of the longer borders of the tape, the outer edge of the narrow liner and the edge of the tape being substantially coincident, and the liner being secured to the tape by adhesion of the latter but the upper surface of said liner adjacent the protecting cover being non-adhesive.

2,323,343
RAILROAD BALLAST RESHAPER AND SUBGRADE CLEANER

Harry W. Meese, Meadville, Pa.

Application October 29, 1941, Serial No. 417,030
6 Claims. (Cl. 37—105)

3. In ballast dressing apparatus, a carrier, means supported on the carrier for gathering scattered ballast toward the ballast bed, means mounted on the carrier operative to cut plant growth along the path cleared by the gathering means, and means mounted on the carrier rear-



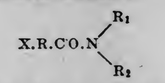
wardly of the cutter for firmly packing the outer edge of the ballast bed.

2,323,344
PROCESS OF BREAKING PETROLEUM EMULSIONS AND BREAKING AGENT

August Moeller, Frankfort-on-the-Main-Griesheim, Germany, Hans Tochtermann, deceased, late of Mannheim, Germany, by Hilde Tochtermann, administratrix, Eisleben, Germany, and Otto Trösken, Frankfort-on-the-Main-Fechenheim, Germany; vested in the Alien Property Custodian

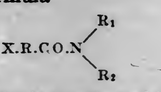
No Drawing. Application September 17, 1940, Serial No. 357,146. In Germany March 18, 1939
8 Claims. (Cl. 252—338)

5. A breaking agent for emulsions from crude petroleum and salt water consisting of a compound of the general formula



wherein X stands for a member of the group consisting of —O—SO_3Y and —SO_3Y, Y standing for a member of the group consisting of hydrogen, alkali metals, alkaline earth metals, ammonium and radicals of a quaternary ammonium compound, R is an aliphatic radical with at least 9 carbon atoms, and R_1 and R_2 stand for aliphatic hydrocarbon radicals.

8. A process for breaking emulsions from crude petroleum and salt water which comprises subjecting the emulsion to the action of a compound of the general formula

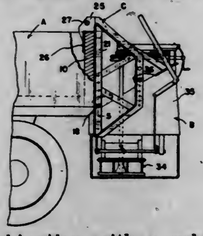


wherein X stands for a member of the group consisting of —OSO_3Y and —SO_3Y, Y standing for a radical of a quaternary ammonium compound, R is an aliphatic radical with at least 9 carbon atoms, R_1 stands for a member of the group consisting of hydrogen, alkyl, aryl, aralkyl, cycloalkyl and R_2 stands for a member of the group consisting of alkyl, aryl, aralkyl and cycloalkyl.

2,323,345
MOUNTING FOR SAND SPREADERS

Herbert R. Moore, Adrian, Mich.

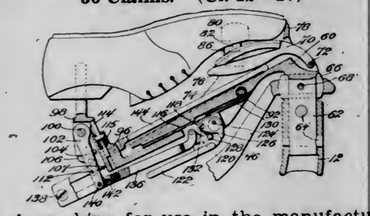
Application October 6, 1941, Serial No. 413,887
18 Claims. (Cl. 275—8)



1. The combination with a vehicle having a

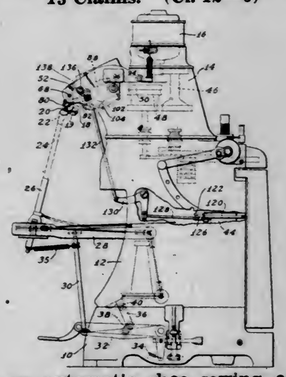
tiltable body, of a support hooked upon a wall of said body, and an apparatus for handling loose material hanging freely on said support, a part of said support being an abutment to limit the swinging movement of said apparatus.

2,323,346
MACHINE FOR USE IN THE MANUFACTURE OF SHOES
Alfred R. Morrill, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application November 28, 1940, Serial No. 367,587
36 Claims. (Cl. 12—17)



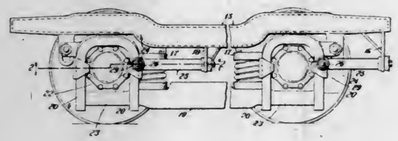
1. A machine for use in the manufacture of shoes having, in combination, means operating along the bottom margin of a shoe, a jack comprising a frame, a shoe support rigid with the frame, a frame support on which the frame is mounted to rotate around an axis substantially perpendicular to the sole surface of a shoe supported on the jack, and mechanism for moving the jack frame to feed the shoe past the operating means comprising an actuating member located outside of the path of movement of the shoe support, and a connection between the member and the jack frame permitting a rotation of the jack in excess of 360°.

2,323,347
SHOE MACHINE FOR SEWING AND LASTING
Alfred R. Morrill, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application September 26, 1941, Serial No. 412,451
13 Claims. (Cl. 12—6)



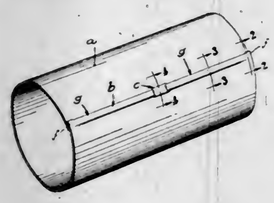
1. In an automatic shoe sewing and lasting machine having inseam shoe sewing mechanism including a curved hook needle, a channel guide and a welt guide, a shoe supporting jack, and automatic supporting and actuating means for the jack, a side lasting gripper located and arranged to engage and to draw in successive portions of the upper in the same transverse plane with and against the support of the channel guide and welt guide, said gripper comprising a jaw supported for movement downwardly between the upper and the sewing rib substantially to the base thereof, and a cooperating jaw pivotally mounted on said first-mentioned jaw for swinging movement to grip the upper between said jaws.

2,323,348
TRUCK FOR RAILROAD CARS
Karl F. Nystrom and Vernon L. Green, Milwaukee, Wis.
Application September 11, 1941, Serial No. 410,356
7 Claims. (Cl. 105—194)



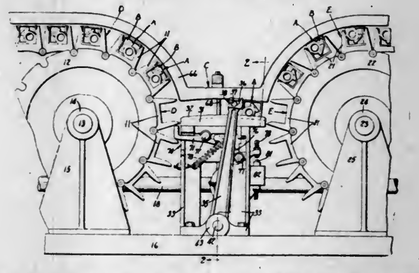
1. In a railroad car truck, a truck frame whose side members are provided adjacent one end and at an intermediate point with depending brackets apertured at their lower ends; equalizer beams disposed beneath the truck side members and provided at the ends with upwardly disposed journal bearing housing receiving yokes, each yoke on a side disposed toward the same end of the truck having an outwardly disposed horizontal pin portion; and connecting arms pivotally secured at one end on said pin portions while the other end of each arm is yieldingly secured to the adjacent bracket so as to resist lateral movement of the arms.

2,323,349
METHOD OF WELDING SIDE SEAMS
Harold T. Odquist, Yonkers, N. Y., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application July 1, 1939, Serial No. 282,553
2 Claims. (Cl. 219—10)



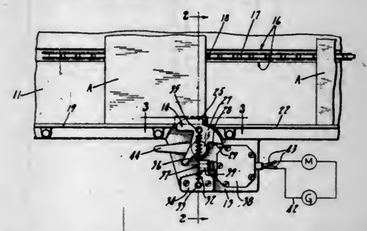
1. The method of electrically welding a composite metallic seam having sections requiring different welding treatments in a given pattern, comprising passing a welding current of variable magnitude into the seam from an electrode while maintaining relative movement between the seam and said electrode, imparting to the seam an uninterrupted heat input in a complete continuous welding cycle and varying the magnitude of said uninterrupted heat input during said cycle, the variations of the heat input having a pattern correlated with said first mentioned pattern to meet the respective required different welding treatments of the seam sections to produce an adequately welded seam joint without burning the several seam sections, and timing the beginning and ending of the welding cycle in synchronism with said relative movement.

2,323,350
CAN TREATING MACHINE
Horace J. Paynter, Union, N. J., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application August 29, 1940, Serial No. 354,760
3 Claims. (Cl. 198—24)



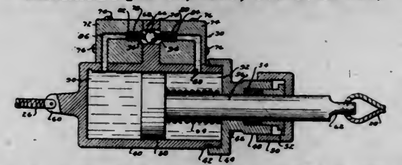
3. In a machine for treating cans having loosely positioned end members applied thereto, the combination of an intermittently movable conveyor having pockets for carrying the cans along a predetermined path of travel, an intermittently movable auxiliary conveyor having pockets for receiving cans from said first mentioned conveyor, a transfer arm pivotally mounted between said conveyors and operable to transfer individual cans from the pockets of one conveyor to the pockets of the other conveyor in a single sweeping stroke while the conveyors are at rest between movements, a runway extending between said conveyors for guiding the cans while being transferred, means for actuating said transfer arm, a pivotally mounted detector arm extending into the path of a can left on said main conveyor by failure of said transfer arm to remove the can from the conveyor pocket, and a switch actuated by movement of said detector arm when engaged by a non-transferred can on said conveyor for stopping the machine.

2,323,351
CONTROL MECHANISM
William Pechy, Manasquan, N. J., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application November 13, 1941, Serial No. 419,004
5 Claims. (Cl. 192—126)



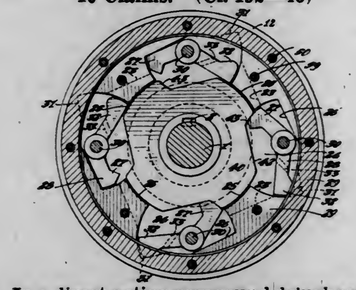
1. A sheet feed control and stop mechanism, comprising a detecting gauge disposed in the path of moving sheets for gauging abnormal sheet thickness or other sheet irregularities, said gauge having spaced walls defining a slot of predetermined dimension and providing free passage for a normal sheet but preventing passage of an abnormal sheet, such abnormal sheet actuating the gauge to remove its slot from the sheet path, and a sheet movement stop mechanism operable by said gauge when it is moved for stopping the further feeding of the abnormal sheet.

2,323,352
CONTROL CABLE SYSTEM WITH IMPROVED COMPENSATING MEANS
Joseph M. Pitts, Dayton, Ohio
Application October 16, 1941, Serial No. 415,265
5 Claims. (Cl. 74—501)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. An apparatus having an operable member, a spaced apart operating member, and connecting means operatively joining said members, said connecting means including a device for compensating for lengthening or shortening of the other portions of the connecting means, said device comprising in combination, a piston, a fluid filled cylinder closed around said piston, said piston being slidable in said cylinder, means for connecting said piston and cylinder to the other portions of said connecting means, there being a passageway connecting the spaces in said cylinder which are separated by said piston, and means for locking said piston in situ in said cylinder, said locking means comprising a valve in said passageway which is normally sufficiently open to allow slow seepage of fluid from one end of the cylinder to the other, but is operative to be tightly closed by any rapid movement of fluid therethrough.

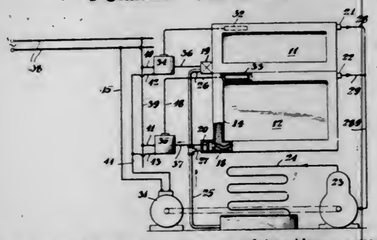
2,323,353
ONE-WAY CLUTCH
William H. Plog, Clifton, N. J.
Application December 18, 1940, Serial No. 370,678
10 Claims. (Cl. 192—46)



1. In a direct action compound drive having load driving means and in drive relation thereto at least two direct action drive members, the improvement in at least one of said drive members comprising an inner rotary member drivingly connected to said load driving means and having lever engaging means, an outer rotary member adapted to be drivingly connected to a power source and substantially surrounding said inner rotary member, said outer rotary member carrying a multiple number of levers, each positioned and adapted to engage with one arm thereof one of said engaging means on said inner rotary member, in unidirectional direct drive relation, each of said levers being pivotally attached intermediate its engaging and non-engaging end to said outer rotary member, the moment of said non-engaging end with respect to the pivot point of said lever being greater than the moment of

said engaging end with respect to said pivot point, a multiple number of pockets carried by said outer rotary member, each of said levers being set in one such pocket, facing with its open end said inner rotary member and substantially filled with a lubricating liquid of a viscosity sufficient to hold said levers in substantially free riding position as the result of impeller induced directional turbulence in said liquid.

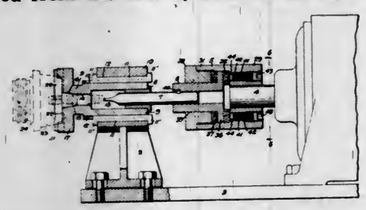
2,323,354
REFRIGERATOR
Clyde M. Rees, White Plains, N. Y.
Application December 10, 1941, Serial No. 422,351
4 Claims. (Cl. 62—8)



1. In a refrigerator the combination comprising, a refrigerator having a freezing compartment and an air-containing food storage compartment; a system for circulating primary refrigerant including a supply conduit, a return conduit, an expansion valve connected to said supply conduit, a cooling element for said food storage compartment connected between said expansion valve and said return conduit, another expansion valve connected to said supply conduit and another cooling element for said freezing compartment connected between said second-mentioned expansion valve and said return conduit; a vessel of heat transferable material having an exposed surface serving as an inner wall of said food storage compartment and containing a body of secondary refrigerant, said first-mentioned cooling element being located in said vessel and immersed in said body of secondary refrigerant therein to maintain the latter within a relatively small predetermined temperature range whereby air in said compartment to be freely circulated by gravity is cooled and a desired temperature gradient therebetween is maintained; expansion valve controlling means associated with said first mentioned expansion valve including a temperature sensitive element located in said vessel and immersed in said body of secondary refrigerant; and other expansion valve controlling means associated with said second-mentioned expansion valve including a temperature sensitive element associated with said freezing compartment.

2,323,355
FUSE ASSEMBLING MACHINE
Matthew C. Ricciardi, Dover, N. J.
Application July 23, 1941, Serial No. 403,772
1 Claim. (Cl. 64—30)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

In a machine of the character described, including a power driven, rotatable shaft, a clutch fixed to said shaft comprising a body having a plurality of axial bores internally threaded at their outer ends and a forward extension, a friction ring in said extension, a slidable disk in each bore bearing against said ring, a spring in each bore bearing against the disks, an adjusting screw in each bore in engagement with the springs to regulate their tension, a tool holding member in said body and formed with a flange abutting said friction ring, a second friction ring spaced from the first by said flange, and a nut



threaded on the front of said body in engagement with the second friction ring, the springs, friction rings and nut cooperating with the tool holding member to maintain it in frictional relation to the power driven shaft.

2,323,356
LINER AND HOLDER THEREFOR
Joseph Rosay, White Plains, N. Y.
Application April 8, 1941, Serial No. 387,409
14 Claims. (Cl. 65—61)



14. In a dish-like receptacle, the combination of a holder having side walls provided with projecting members on the inner surface thereof adjacent the bottom, a liner therefor having a flange member laterally projecting from the base thereof to be disposed under said projecting members upon insertion into the holder to retain the liner against accidental removal, one of said members being resilient and yielding to permit the flange member to pass into retaining position.

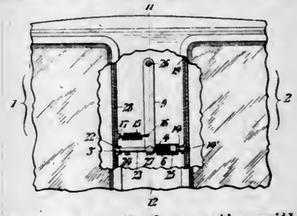
2,323,357
ALCOHOLIC UREA-FORMALDEHYDE RESIN SOLUTION
Israel Rosenblum, New York, N. Y.
No Drawing. Application August 19, 1938, Serial No. 225,721
13 Claims. (Cl. 260—29)

1. The method of producing solutions of urea-formaldehyde condensate which form stable mixtures with oil acid-modified alkyd resins, which comprises reacting a urea and aqueous formaldehyde in the presence of an alcoholic solvent under pressure sufficient to enable a reaction temperature of at least about 110° C. to be obtained, continuing the heating under pressure until an advanced stage of condensation is reached and a hydrophobe condensate is obtained, cooling the reaction mixture, whereupon two liquid layers are formed, and separating the upper, resin-containing layer from the lower, aqueous layer.

2,323,358
LOCKING MECHANISM FOR DOORS
James W. Shannon and Louis M. Hathaway, Ingleside, Tex., and James E. McKee, Wilmington, Del.
Original application November 12, 1940, Serial No. 365,226, now Patent No. 2,273,149, dated February 17, 1942. Divided and this application January 6, 1942, Serial No. 425,734
4 Claims. (Cl. 292—182)

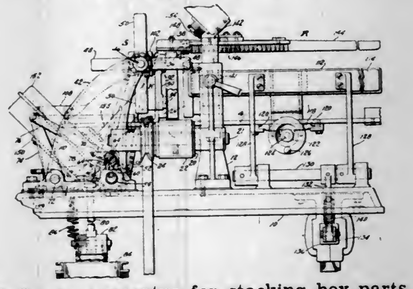
1. In a device for automatically securing

aligned doors, individually-swingable relative to intervening rigid structure, the combination of a pendulously-supported control lever; an outwardly-influenced actuator coupled to the free end of the control lever, said actuator being inwardly-shiftable by coaction with the edge of one door as said door is closed; an aligned securing member also operatively coordinated to



the actuator and similarly coactive with the corresponding edge of the other door prior to active engagement with such door; and tension means between the control-lever and the rigid structure aforesaid, said tension-means serving to retract the securing member from active engagement with the second-mentioned door, upon release of the actuator from coaction with the first-mentioned door.

2,323,359
STACKING APPARATUS
George S. Sillars, Beverly, Mass., assignor to Hoague-Sprague Corporation, Lynn, Mass., a corporation of Massachusetts
Application December 5, 1941, Serial No. 421,725
20 Claims. (Cl. 214—7)

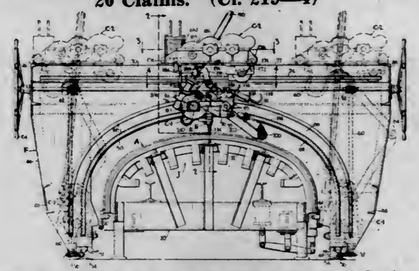


3. In an apparatus for stacking box-parts, a support, means for advancing box-parts successively in a series to the support, means for stopping the box-parts alternately in different positions at the support, means acting upon the stopped box-parts for assembling them in a stack, and means controlled by the advancing box-parts for governing both the stopping means and the assembling means.

2,323,360
TRANSMISSION OIL
Joseph S. Wallace, Whiting, Ind., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana
No Drawing. Application July 1, 1941, Serial No. 400,657
3 Claims. (Cl. 252—46)

1. An extreme pressure lubricant suitable for use as a transmission lubricant containing from about 55% to about 85% of a mineral lubricating oil having a relatively low viscosity index and a viscosity of from about 70 to about 150 seconds Saybolt Universal at 100° F., from about 1% to about 15% of a sulfur-containing extreme pressure agent and from about 10% to about 30% of a resin-like oil obtained by treating a substantially asphalt-free, wax-free lubricating oil stock with a liquefied normally gaseous hydrocarbon to effect a phase separation of a light fraction soluble in said liquefied hydrocarbon and a heavy fraction containing the resin-like oil insoluble in said liquefied hydrocarbon, and precipitating the resin-like oil from said heavy fraction by treating said heavy fraction with further amounts of the liquefied normally gaseous hydrocarbon.

2,323,361
WELDING APPARATUS
William A. Weightman, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application April 30, 1941, Serial No. 391,056
20 Claims. (Cl. 219—4)



19. In a welding apparatus a frame, first and second movable carriages separately carried on said frame for movement along separate predetermined paths of travel, a welding electrode carried by one of said carriages, current supply means carried by the other of said carriages and connected with said electrode, and means for driving said carriages along said predetermined paths of travel.

2,323,362
STAPLE
Leo Weiss, Brooklyn, N. Y.
Application January 7, 1941, Serial No. 373,487
12 Claims. (Cl. 174—159)

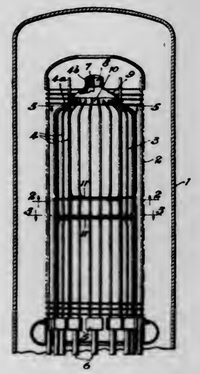


1. A staple for securing an electrical conductor on a base material, comprising in combination two prong members pointed for piercing said material, one prong being shorter than the other prong, means intermediate the top and bottom of the prongs adapted to assist in locking an insulating strip between the prongs, a cross piece supporting the two prongs, and a head over the longer prong and rising above the cross piece a substantial distance, the staple being formed of a continuous piece of wire of substantially uniform cross section, and having one side folded on itself to form the head, said wire extending substantially at a right angle from the folded bottom portion of the head to form the cross piece having at its end the projecting shorter prong, the end of the wire at the head fold being adjacent the longer prong, and a piece of insulating material locked between the prongs.

2,323,363
MOLDING COMPOSITION
George W. Whitehead, Springfield, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application November 24, 1939, Serial No. 305,894
11 Claims. (Cl. 260—36)

1. A polyvinyl acetal resin compression or injection molding composition, having a decreased tendency to stick to a mold after molding, containing a polyvinyl acetal resin having from about 5 to about 20% hydroxyl groups calculated as polyvinyl alcohol, up to about 16% acetate groups by weight, and the balance acetal, and normally having a tendency to stick to a mold, to which has been added a sufficient proportion of a monohydroxy-carboxylic acid having at least three carbon atoms effective to reduce the tendency to stick to a mold.

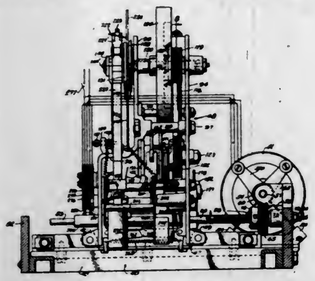
2,323,364
FILAMENTARY CATHODE
Arthur K. Wing, Jr., Chatham, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application March 18, 1942, Serial No. 435,143
5 Claims. (Cl. 250—27.5)



2. A cathode comprising a plurality of parallel straight filaments in a cylindrical surface, the filaments being connected to and supported by current supply conductors at one end, and being bent radially inward at their other end and joined together at the axis of the cathode, and means to fixedly space the filaments at their said other ends comprising metal spacers between the filaments intermediate said surface and said axis.

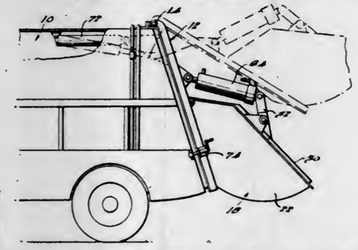
2,323,365
AUTOMATIC PHONOGRAPH
Edward F. Andrews, Chicago, Ill.
Application July 18, 1940, Serial No. 346,105
60 Claims. (Cl. 274—10)

9. In a phonograph, in combination, rotatable means for supporting a record in playing position with the recorded surfaces on both sides exposed, supporting means pivotally mounted on an axis parallel to the axis of record rotation, a swinging member pivotally mounted on said supporting means on an axis at right angles to the axis of the supporting means, a player arm pivotally mounted on said member on an axis parallel to the axis of said member, means for swinging said member so as to locate said player arm on either side of said playing position, and a spring connecting



each side of the player arm to the adjacent side of the supporting means.

2,323,366
REFUSE PACKER
Edward R. Barrett, Detroit, Mich., assignor to Gar Wood Industries, Inc., Detroit, Mich., a corporation of Michigan
Application December 26, 1940, Serial No. 371,732
17 Claims. (Cl. 214—67)

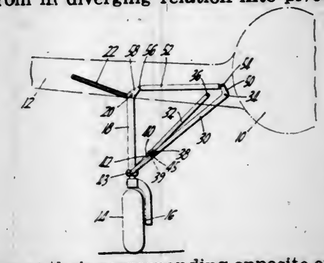


1. A material handling device comprising a receptacle, an inlet conduit having an outlet formed in one end thereof in communication with the interior of said receptacle, an inlet formed in said conduit in the opposite end thereof, said conduit being defined by wall members, one of the wall members being inwardly curved adjacent the outlet end thereof, means movably mounting said one of the walls for movement with respect to said outlet and with respect to the other wall members, a movable closure member disposed within said conduit and movable within the conduit between the inlet and outlet ends thereof, means for moving said closure member toward said outlet to force said material through said conduit, and means for moving said movable wall member to retain said material in said receptacle when said closure member is returned to its initial position.

2,323,367
AIRPLANE LANDING GEAR
Edward M. Bertran, Jackson Heights, N. Y., assignor to Brewster Aeronautical Corporation, Long Island City, N. Y.
Application June 10, 1941, Serial No. 397,429
2 Claims. (Cl. 244—102)

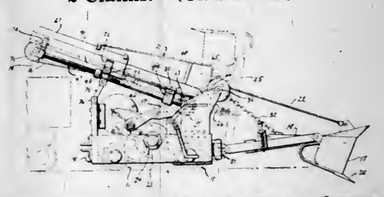
1. In an aircraft, a retractable undercarriage comprising a rigid main strut, landing surface contact means mounted upon one end portion of said main strut, slide-pivot connection means carried by said main strut adjacent its opposite end portion, track means mounted upon a fixed portion of said aircraft in registry with said connection means and extending in substantially horizontal directions whereby said main strut is adapted to simultaneously slide and pivot at said

opposite end portion thereof relative to said track means for swinging said strut and landing surface contact means into retracted position relative to said aircraft, a pair of diagonally disposed knuckle struts pivotally connected at corresponding end portions thereof to said support strut at positions thereon offset from the position of said slide-pivot connection means and extending therefrom in diverging relation into pivotal con-



nections at their corresponding opposite ends with fixed portions of said aircraft, a crank extending from one of said knuckle struts, a second crank extending from said main strut, a beam extending between said knuckle struts at similar sides of the axis of breaking thereof to synchronize their knuckle actions, and jack means extending between said cranks for simultaneous actuation thereof.

2,323,368
MUCKING MACHINE
Anthony R. Biedess, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Original application January 21, 1941, Serial No. 375,214. Divided and this application June 10, 1942, Serial No. 446,439
2 Claims. (Cl. 214—90)

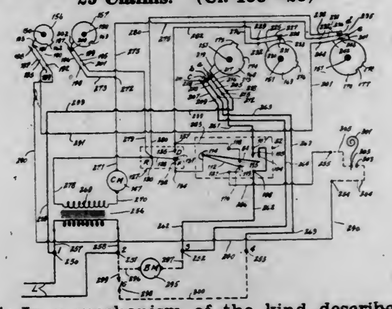


1. In a loading machine having a frame, an endless belt conveyer mounted thereon, a scoop carried on said frame and movable into position to discharge its load by gravity upon the receiving end of said belt conveyer, a cushioning plate yieldably mounted on said frame in supporting relation beneath the upper reach of said belt, and guide means mounted beneath said cushioning plate in tensioning engagement with the lower reach of said belt and movable in substantially non-yielding relation with said cushioning plate to relieve tension on said belt to compensate for yielding deflections of the upper reach of the belt with said cushioning plate.

2,323,369
METHOD FOR PREVENTING SILVER TARNISH
George F. Briggmann, Bayside, N. Y., assignor to Carbide and Carbon Chemicals Corporation, a corporation of New York
No Drawing. Application March 4, 1941, Serial No. 381,669
10 Claims. (Cl. 21—2.5)

1. A method for protecting silver from tarnish which comprises exposing the silver in a confined space to the vapor of a volatile amine.

2,323,370
CYCLIC THERMOSTAT CONTROL
George D. Bower, St. Louis, Mo., assignor to Automatic Control Corporation, St. Louis, Mo., a corporation of Delaware
Application April 6, 1940, Serial No. 328,177
25 Claims. (Cl. 158—28)



1. In a mechanism of the kind described, a burner, a fuel supply means therefor, an ignition device for the burner, a space thermostat, means operable upon shifting of the space thermostat to cause operation of the ignition device and the fuel supply means, means to maintain both of said operations for a given first time interval, means effective a period after ending of said first interval for maintaining the supply means in operation for a given second time interval, and means dependent upon combustion of the fuel to hold said supply means in operation from the first interval to the second.

2,323,371
SCORING DEVICE
Lorenzo Dale Brown, Concord, N. H.
Application January 31, 1942, Serial No. 429,081
5 Claims. (Cl. 235—90)

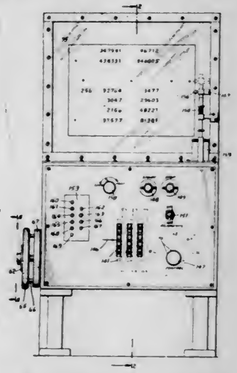


1. A scoring device comprising a board having openings passing through its upper surface, said board having a U-shaped opening passing through its upper surface, one end of the U-shaped opening being assembled with the first named openings and forming therewith a selected opening, a flexible element arranged within the U-shaped opening, and a scoring pin for insertion within the selected opening and adapted to depress one end of the flexible element and project the opposite end above the upper surface of the board.

2,323,372
FILM DATA SELECTING AND VIEWING MACHINE
James W. Bryce, Glen Ridge, N. J., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application June 27, 1940, Serial No. 342,641
12 Claims. (Cl. 88—24)

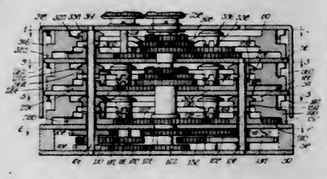
1. A film selecting and viewing machine, including in combination, film feeding means for feeding a film bearing a line or lines of data designations pertaining to different groups, said film also having a plurality of codal data mark designations disposed transversely across the film,

which plurality of marks by their relative lateral position with respect to each other and to the film, denote a multi-denominational code number which distinctively designates each group, said first mentioned data designation being in columnar alignment with the code marks, means including a plurality of elements for concurrently scanning the plurality of transversely disposed code marks which designate a group while the film is in motion, distinguishing means to distinguish scanned data designations from scanned code marks, means to set up data for comparison



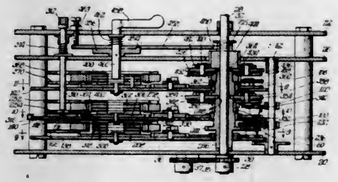
with codal data, means controlled by the scanning means and said setup means and under further control of the distinguishing means for interrupting film feeding movement upon a group of said elements concurrently scanning a plurality of code marks designating a group number corresponding to the set up data and irrespective of the scanning of preceding code marks, and viewing devices which are effective upon stoppage of film feed.

2,323,373
REGISTERING MECHANISM AND COMPUTING DEVICE
Kenly C. Bugg, Fort Wayne, Ind.
Application November 24, 1939, Serial No. 305,758
44 Claims. (Cl. 74—283)



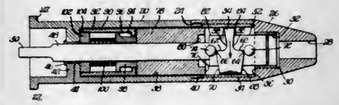
1. In variating mechanism, the combination of an operating shaft, a plurality of driving shafts disposed about a vertical axis and substantially equidistant therefrom, gear means disposed on said driving shafts, certain of the gear means being connected in a train and so proportioned that each of the driving shafts rotates at a predetermined rate, a connection between said operating shaft and said train, a first bank of selecting gears disposed above said gear means, said selecting gears being rotatably mounted on certain of said driving shafts and provided with clutch means, said selecting gears being connected in a selecting gear train, clutch members non-rotatably mounted on the driving shafts provided with said selecting gears and being adapted to move to engage said clutch means to selectively connect the selected of the selecting gears to its respective shaft, a second bank of selecting gears disposed above said first bank of selecting gears, said selecting gears of said second bank being rotatably mounted on certain of said driving shafts and provided with clutch means, said second bank of selecting gears being connected in a second selecting gear train, clutch members non-rotatably mounted on the driving shafts provided with said second bank of selecting gears and being adapted to move to engage said second named clutch means to selectively connect the selected gear of the second bank of selecting gears to its respective shaft, a driven shaft, differential means connecting said gear trains to said driven shaft whereby said driven shaft will rotate in accordance with the selected of said selecting gears, rotatable selecting rings for each of said selecting trains encasing said trains and positioned by said driving shafts to rotate about said vertical axis, said rings each being provided with a flange for carrying said clutch members in declutched position, a portion of each of said flanges being provided with inclined planes defining an interrupted portion of said flange, said inclined planes causing selected downward movement of a selected clutch member to cause said clutch member to be moved to clutched position with respect to its adjacent selecting gear or causing upward movement of a selected clutch member to declutched position, a pivoted member carried by said flange for overlying the clutch members when in clutched position to maintain said clutched position, releaseable locking means for locking said rings in selected position, said locking means selectively locking said selecting gear trains when said rings are in predetermined position, indicating means for showing the setting of said rings, and means connecting said rings and said indicating means whereby movement of said rings moves said indicating means.

2,323,374
COMPUTING MECHANISM
Kenly C. Bugg, Fort Wayne, Ind.
Application September 4, 1941, Serial No. 409,569
25 Claims. (Cl. 74—283)



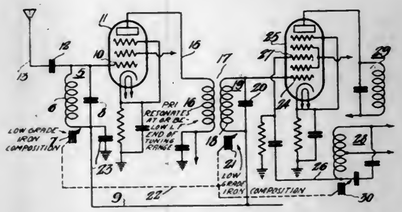
1. In variating mechanism, the combination of a driving shaft, differential means rotatably mounted with respect to said shaft, drive shafts arranged around said driving shaft, operative connections between said drive and driving shafts, selecting gears on said drive shafts, gears movable to selectively connect said selecting gears to said differential means, driven means connected to said differential means and adapted to be driven in accordance with the rotation of the selected of the selecting gears, and means for disconnecting said driven means from said differential means while said second named gears are being moved to engage the selected of the selecting gears, whereby said differential means are free to move unrestrainedly.

2,323,375
TOOL
Kenly C. Bugg, Fort Wayne, Ind.
Application December 26, 1941, Serial No. 424,389
23 Claims. (Cl. 125—33)



1. In a percussion tool, the combination of a casing, a rotatable shaft mounted for reciprocation in said casing, means for reciprocating said shaft, means for rotating said shaft, said shaft having an anvil portion adapted to engage a work tool, a hammer member movable with respect to said shaft by said first named means, and adapted to deliver a blow to said anvil portion whereby a blow is delivered to said tool and resilient means alternately compressed and released by said first named means for urging said hammer member toward said anvil portion whereby a blow is delivered by said hammer member to said anvil portion.

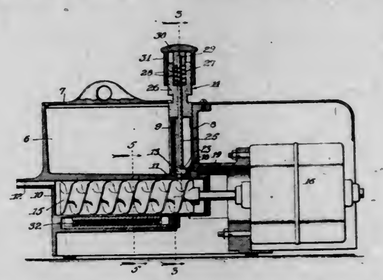
2,323,376
VARIABLE PERMEABILITY TUNING SYSTEM
Robert L. Harvey, Collingswood, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application April 27, 1940, Serial No. 331,966
4 Claims. (Cl. 250—40)



1. In a variable permeability tuning system for radio signal circuits, the combination of a tuning inductance winding, means providing a movable tuning core element for said inductance winding comprising a molded body of comminuted magnetically permeable material so constituted that the inductance increasing effect of the core is less than the resistance increasing effect thereof as said core is moved into close relation to the inductance, one of the magnetic ingredients of said core being sponge iron in predominating proportion to other ingredients therein comprising hydrogen reduced iron in such relative proportion that variation of the Q of the winding with frequency is reversed from the normal variation, and increases with frequency as the tuning of said winding is increased toward the high frequency end of the tuning range thereof.

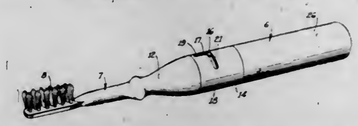
2,323,377
LATHER PRODUCING MACHINE
Albert B. Campbell, Chicago, Ill., assignor to Campbell Products Co., Chicago, Ill., a corporation of Illinois
Application February 6, 1942, Serial No. 429,717
2 Claims. (Cl. 259—25)

1. A lather-producing machine comprising a liquid soap receptacle, a lathering chamber including a screw which produces a suction therein, a valve device for controlling the flow of soap from said receptacle to said chamber comprising a valve seat and a valve cooperating with said



seat and opening in the direction of flow of soap to said lathering chamber toward and adjacent the screw, and means for actuating said valve to open position and means for actuating the screw.

2,323,378
LIQUID DISPENSING DEVICE
Raymond D. Champion, San Gabriel, and Lyle E. Fry, Los Angeles, Calif.
Application June 25, 1941, Serial No. 399,624
2 Claims. (Cl. 221—102)

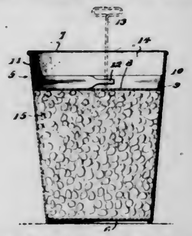


1. In a liquid dispenser of the character described, a tubular shank, the bore of said shank having an outlet communicating with the exterior of said shank, a head reciprocably mounted on one end of said shank in telescopic relation therewith and having a cavity therein adapted to receive liquid detergent, one end of said bore terminating in a compression chamber opening to the associated end of said shank to communicate with said cavity, a plunger complementary to said chamber and carried by said head in position to enter said chamber and, as said head approaches the inner end of its stroke, compress liquid entrapped therein and thereby force liquid through said bore to said outlet, means within said bore presenting a valve seat adjacent said outlet, a rod carried by said plunger and extending therefrom through said bore to engage said seat when said head reaches said end of its stroke, and means for releasably locking said head with said rod in sealing engagement with said seat.

2,323,379
RECEPTACLE
Freda O. Colpron, Warren, Minn.
Application February 7, 1941, Serial No. 377,927
1 Claim. (Cl. 220—61)

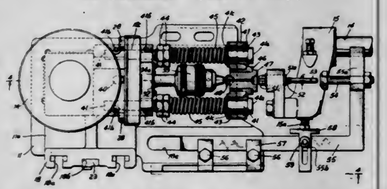
In a receptacle, a container having an open end and provided with a decorative covering on the interior thereof and extending a selected distance inwardly of the container from said open end and defining a marking by the inner edge thereof to indicate the height earth should be extended in the container for the planting of a plant in said container and acting to protect the exposed portion of the interior of the container from deteriorating and to render said

portion attractive, a closure including a peripheral flange engaging the interior of the container inwardly of the covering, and a destructible ring



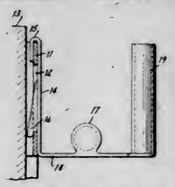
secured to the flange of the closure and to the interior of the container with an edge of the ring abutting the inner edge of the covering.

2,323,380
SCREW MACHINE
Durward M. Davis, Vestal, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application December 23, 1941, Serial No. 424,181
18 Claims. (Cl. 77—5)



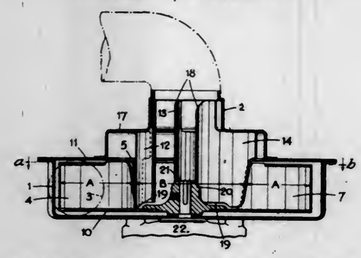
1. A screw machine attachment comprising a frame attachable to the frame of a screw machine, a tool rotating spindle mounted in said frame with its axis parallel with the main spindle of the screw machine, a pickup arm, means to operate the pickup arm to grasp a work-piece cut off at the main spindle and transport said work-piece to a working point in alignment with said tool spindle, a work-piece holding collet carried by said pickup arm, means on the first named frame to close said collet upon a movement of the pickup arm to carry said work-piece to said tool preliminary to engagement of the work-piece for the tool, and means operative upon a retraction of the pickup arm to eject the work-piece from the collet.

2,323,381
CURTAIN ROD BRACKET
John F. Dexter, Jamaica, N. Y.
Application July 8, 1941, Serial No. 401,452
9 Claims. (Cl. 160—19)



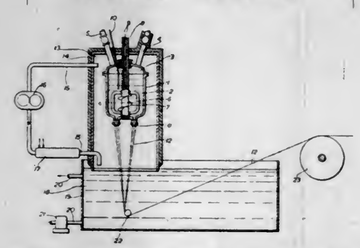
1. A device for attachment to a window frame having a slotted plate secured thereto, said device comprising a bracket provided with a hook for engagement with the upper edge of said plate and an extension for insertion in the slot in said plate, whereby the bracket is suspended from the plate and held against lateral movement thereon, said bracket being provided with a curtain rod holder to receive a curtain rod.

2,323,382
ROTARY BLOWER
Victor Vladimirovitch Dibovsky, London, England
Application May 29, 1942, Serial No. 445,065
In Great Britain April 21, 1941
1 Claim. (Cl. 230—127)



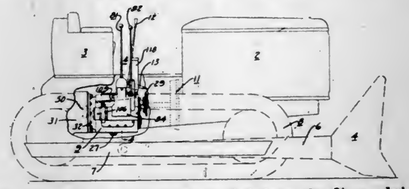
A rotary blower or the like, including, a rotor housing, a cupped section provided with a tangential outlet and a ring like side wall, a rotor mounted in said rotor housing and comprising a disc and an annular ring like plate, the outer edges of said disc and plate lying in the same circumferential plane, a series of arcuate vanes arranged transversely between the disc and plate in spaced relation, said vanes having their outer ends terminating substantially in the circumference plane of the plate and disc and having their inner ends terminating in a common circumferential plane defining a fixed blade receiving chamber, a boss on the inner face of the annular ring like having a bore for receiving a motor driven spindle, a cupped stator section fitted to and covering the opening in the ring like side wall of the rotor section and having an inlet neck of reduced diameter, and a plurality of fixed arcuate blades carried by the stator section, said fixed blades having their outer ends formed to provide portions entering the said inlet neck and their outer side portions extending laterally into the chamber of the cupped stator section, said blades also having their inner ends extending into the said fixed blade receiving chamber formed by the rotor blades.

2,323,383
PRODUCTION OF ARTIFICIAL MATERIALS
Henry Dreyfus, London, England, assignor to Celanese Corporation of America, a corporation of Delaware
Application December 10, 1940, Serial No. 369,405
In Great Britain January 6, 1940
13 Claims. (Cl. 18—54)



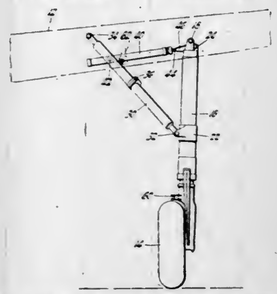
4. Process for the production of shaped articles, which comprises extruding a molten superpolymer and passing the extruded material into an inert medium which is maintained at a temperature which is substantially the same as that of the molten material, and then passing the extruded material into an inert medium maintained at a lower temperature adapted to set the material by cooling.

2,323,384
TRANSMISSION
Harmon S. Eberhard, Peoria, Ill., assignor to Caterpillar Tractor Co., San Leandro, Calif., a Corporation of California
Application November 26, 1940, Serial No. 367,237
2 Claims. (Cl. 74—342)



1. In a transmission, a driving shaft, a driven shaft, a countershaft, relatively shiftable speed change gearing associated with said driven shaft and said countershaft to provide a plurality of gear combinations for transmitting any selected one of a plurality of different speed drives through said transmission, relatively shiftable speed change gearing associated with said driving shaft and said driven shaft for transmitting a drive directly from said driving shaft to said driven shaft, and reversible gearing between said driving shaft and said countershaft for selectively establishing either a forward or reverse drive for each of said gear combinations associated with said driven shaft and said countershaft.

2,323,385
AIRPLANE RETRACTIBLE LANDING GEAR
Edwyn A. Eddy, Stewart Manor, Long Island, N. Y., assignor to Brewster Aeronautical Corporation, Long Island City, N. Y.
Application October 2, 1940, Serial No. 359,406
7 Claims. (Cl. 244—102)



1. A retractable aircraft landing gear comprising a main strut pivotally mounted upon a stationary portion of the aircraft by means of a connection device and having a crank arm portion, a folding strut pivotally connected at one of its ends to said main strut at a position spaced from said connection device and at the other of its ends to a second stationary portion of said aircraft so as to provide a diagonal brace for said main strut when the gear is in extended position, and extensible-contractable control means such as a hydraulic jack pivotally mounted by means of a second connection device to an intermediate portion of said folding strut and extending therefrom into pivotal connection with said crank arm portion at a position substantially in line with said first and second connection devices when said gear is in extended position whereby to cause the control means initially to function solely on the folding strut and thereafter to react through the crank arm portion in swinging the main strut to its retracted position.

2,323,386
THERMOHYDROMETER
Leo Edelmann, Chicago, Ill.
Application June 17, 1940, Serial No. 341,050
7 Claims. (Cl. 265—46)



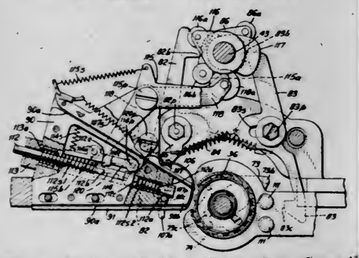
1. A hydrometer structure including a float element having gauge markings thereon, a thermometer carried by said hydrometer structure with a portion thereof exposed to the temperature of a solution being tested and having curved indicating column means disposed transversely, a cylindrical portion fixedly carried by the hydrometer in upright relation adjacent to said curved indicating column means having indicating data thereon in upright column arrangements, and a sleeve revolvable on the cylindrical portion provided with an upright elongated opening through which portions of the indicating data in column arrangement can be viewed and having setting pointer means adapted to be brought into registry with the column temperature indication of the thermometer whereby the opening of said sleeve is positioned to expose a certain predetermined column of indicating data on the cylindrical portion having relation to the particular temperature as indicated, said sleeve having markings thereon adjacent to the opening corresponding substantially to the gauge markings of the float element.

2,323,387
PROCESS OF PRODUCING WATER REPELLENT TEXTILE MATERIAL
Oscar Edelstein, New Haven, Conn., assignor to The Pond Lily Company, a corporation of Connecticut
No Drawing. Application December 4, 1939, Serial No. 307,416
2 Claims. (Cl. 117—92)

1. A process of treating a fibrous material with a water repellent agent to produce a water re-

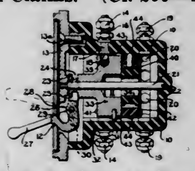
pellent material substantially free from metallic soaps whereby the water repellent effect produced on said material has improved durability and resistance to the action of strong alkaline detergents, comprising the steps of impregnating the fibers of said material with an aqueous solution of a salt of a metal selected from the group consisting of aluminum, zirconium, cerium, thorium, chromium, nickel, lead, barium, and titanium, drying said material after impregnation, treating the dried material with an alkaline solution to form a metal hydroxide on the fibers thereof, and depositing a coating consisting of wax on the fibers of said material to render said material water repellent.

2,323,388
TELEGRAPH PRINTER
Clyde J. Fitch, Endwell, and Kurt R. Schneider, Endicott, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application November 18, 1941, Serial No. 419,577
4 Claims. (Cl. 197—49)



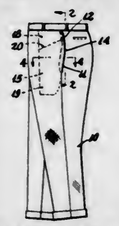
3. In a device of the character described, a typewheel, a printing hammer, means biasing said hammer toward said typewheel, means for cocking said hammer against the force of said biasing means, a pivoted member, means on said member engageable by means on said hammer upon release of said cocked hammer, and means for adjusting the rotative position of said pivoted member to thereby adjust the degree of effectiveness of said hammer upon said typewheel.

2,323,389
SWITCH
Jakob R. Frei, Sidney, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application October 7, 1940, Serial No. 360,101
14 Claims. (Cl. 200—16)



1. In a master switch mechanism, two rows of stationary terminals, mounting means therefor, movable mechanism comprising an insulated section and a conducting section, two sets of contact members, one of said sets being mounted in each of said sections, yielding means for urging said contact members in the direction of said terminals, means carried by said insulating section adapted to electrically connect the contact members carried thereby in pairs, and actuating means for operating said movable mechanism to cause the terminals of one of said rows to become electrically connected to the contact members of one of said sets.

2,323,390
POCKET FOR GARMENTS
Meyer Friedman, New York, N. Y.
Application December 9, 1942, Serial No. 468,329
2 Claims. (Cl. 2—253)



1. In a pair of pants having a substantially vertical pocket opening extending downwardly from the waist band, a bag pocket consisting of two plies of material stitched together, underlying the material of the pants and having a substantially vertical opening coincident with and attached to the defining edges of the pocket opening of the pants to provide an access opening, said pocket being attached at its upper margin to the waist band of the pants, and a transverse line of stitching dividing said bag pocket into two zones and the substantially vertical outseam pocket opening into upper and lower openings, the former being of a length less than half the cumulative length of the two.

2,323,391
BETA-AMINO ACID AMIDES AND METHOD OF MAKING SAME
Henry G. Goodman, Jr., Pittsburgh, Pa., assignor to Carbide and Carbon Chemicals Corporation, a corporation of New York
No Drawing. Application June 29, 1940, Serial No. 343,160
9 Claims. (Cl. 260—562)

1. Compounds of the structural formula

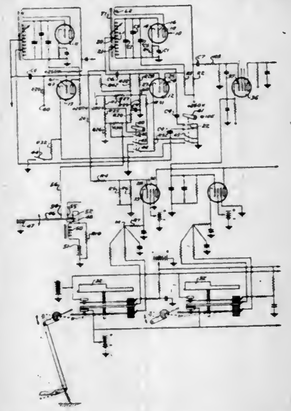
$$CH_2C{=}CHCONHR$$
$$\downarrow$$
$$HO{-}R_1{-}N{-}(R_1O)_n{-}H$$

where R is a monovalent aromatic radical, R_1 is an alkylene hydrocarbon radical containing less than four carbon atoms, and n is a character of the group consisting of 0 and 1.

2,323,392
ELECTRICAL MUSICAL INSTRUMENT
Laurens Hammond and Thomas J. George, Chicago, Ill.; said George assignor to Hammond Instrument Company, Chicago, Ill., a corporation of Delaware
Application December 5, 1940, Serial No. 368,580
6 Claims. (Cl. 250—36)

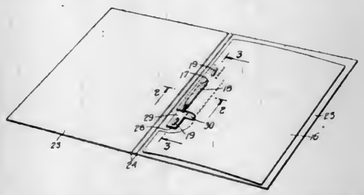
1. For use in an electrical musical instrument having an electron discharge tube oscillator for generating electrical impulses of musical frequency in which said oscillator has a tuned circuit, the combination of an electron discharge device having a cathode, grid and plate, said device having an input and an output circuit, a circuit coupling the input circuit of said device to said tuned circuit, a condenser, a circuit connecting the output circuit of said device to said tuned circuit through said condenser, and means

to vary the gain of said electron discharge device at a vibrato periodicity, said means comprising a voltage divider having one terminal maintained at a potential sufficiently negative to bias such device beyond a cutoff and its other terminal connected to the cathode of said device, a resistance network connecting said first named



terminal of said voltage divider to said grid, a switch operated at a vibrato periodicity, a resistance and capacitance network connected between said grid, an intermediate point on said voltage divider, and one pole of said switch, and means connecting the other pole of said switch to said cathode.

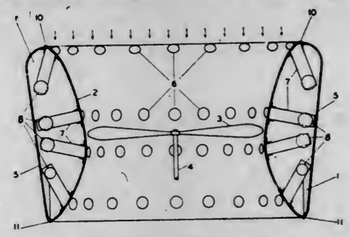
2,323,393
BINDER FOLDER
Paul Hartmann, New York, N. Y.
Application December 13, 1941, Serial No. 422,784
2 Claims. (Cl. 129—25)



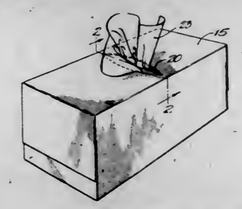
1. A binding assembly for papers comprising, a tab folder to produce a base strip having an adhesive on its inner side by which it may be secured to a sheet and a flap having inner and outer pairs of perforations, the paper being perforated in register with the perforations in said flap, and a thin flat strip of resilient material adapted to be inserted downwardly through the perforations in the papers and said flap and then bent to extend upwardly through the outer pair of perforations in said flap and thence level outwardly therefrom.

2,323,394
ACOUSTIC ATTENUATOR FOR AIR IMPELLERS
Eliot Huntington Harris, New York, N. Y.
Application March 14, 1940, Serial No. 323,938
2 Claims. (Cl. 181—48)

1. An acoustic attenuator of the class described comprising an annuloid, the inner face of said annuloid having a divergent curvature from its axially central section to its leading edge, said inner surface having a divergent curvature from its axial central section to its trailing edge, reflector pipes within said annuloid having openings to the space circumscribed by said annuloid, resonators having their necks open to said reflector pipes at locations near the closed ends of said pipes.



2,323,395
DISPENSING CARTON
Kenneth J. Harwood, Neenah, Wis., assignor to International Cellucotton Products Company, Chicago, Ill., a corporation of Delaware
Application April 12, 1939, Serial No. 267,433
3 Claims. (Cl. 206—57)



1. A package comprising a stack of interfolded sheets, a box of rectangular form enclosing said stack of interfolded sheets and having dimensions corresponding approximately to the width and length of the stack of sheets, said stack terminating in top and bottom parallel planes, said box having a single dispensing opening formed entirely in the wall thereof and at least partially in a plane extending parallel to the top and bottom planes of the stack permitting successive withdrawal of the sheets, the interfolding of such sheets serving to cause the leading end portion of each sheet to be withdrawn from the box automatically as an incident to the complete withdrawal of a preceding sheet, said opening being formed to provide a long, narrow slot having tapered ends and having the length or greater dimension thereof arranged substantially normal to the folded edges of the sheets and being positioned to arrange its smaller dimension or width in the direction of the width of the sheets and it greater dimension or length in the direction of the length of the sheets, whereby, when the sheets are withdrawn through said opening, the sheets will be gathered transversely of their width to such an extent that the normal tendency of the sheets to spring back to ungathered condition causes the sheets to frictionally engage the edges of said dispensing opening with sufficient force to prevent gravitation of the withdrawn leading end portions of the sheets back into the box, the gathering of said withdrawn leading end portions serving to stiffen and cause the same to project from the walls of the box in readily graspable position.

2,323,396
KNITTED FABRIC AND ITS PRODUCTION
Harold Bestwick Hayto, London, and Wallace Blamire Mattinson, Spondon, near Derby, England, assignors to Celanese Corporation of America, a corporation of Delaware
Application August 8, 1939, Serial No. 288,998
In Great Britain August 17, 1938
9 Claims. (Cl. 66—195)

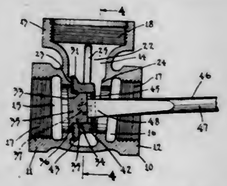


1. Method of producing an elastic knitted fabric, said method comprising warp-knitting a plurality of relatively inelastic yarns together with a number of interspersed elastic yarns or groups of yarns that are in an extended condition and are guided in at least two sets during knitting, securing said elastic yarns in at least some of the courses of the fabric, and causing said elastic yarns to run in the fabric for substantial distances to and fro across the wales of the fabric as well as across the courses of the fabric, the yarns of each set being caused to run similarly in the fabric during knitting and the yarns of the different sets differently.

2,323,397
ORGANIC MERCURY COMPOUND
William H. Hill, Mount Lebanon, Pa., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application May 9, 1941, Serial No. 392,731
7 Claims. (Cl. 260—431)

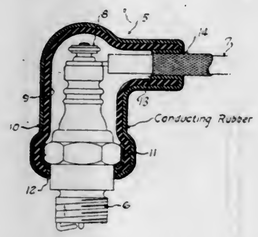
4. Mercuric guanlyurea.

2,323,398
RESEATING TOOL
Justus C. Irwin, Minneapolis, Minn., assignor to Ole O. Rothe, Minneapolis, Minn.
Application June 20, 1941, Serial No. 398.974
2 Claims. (Cl. 90—12.5)



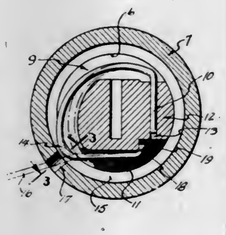
1. A reseating tool comprising a body having a cutting face formed with cutting teeth, said body having a bore extending through the same, a pilot having a shank disposed within said bore, means for holding said pilot from rotation relative to said body, said shank having a screw-driver slot in the end thereof for rotating said body, said shank being of such length that the ends of said screw-driver slot are confined within the bore of said body.

2,323,399
SPARK PLUG SHIELD
Edward N. Jacobi, Milwaukee, Wis., assignor to Briggs & Stratton Corporation, Milwaukee, Wis., a corporation of Delaware
Application November 15, 1941, Serial No. 419,250
10 Claims. (Cl. 123—169)



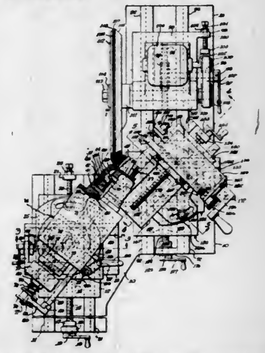
1. An electrostatic shield for electrical appliances such as spark plugs comprising: a hood adapted to fit over the appliance and formed essentially of rubber with the outer layer thereof composed of conducting rubber and the inner surface electrically insulating.

2,323,400
LOCK
Edward N. Jacobi, Milwaukee, Wis., assignor to Brigg & Stratton Corporation, Milwaukee, Wis., a corporation of Delaware
Application January 15, 1942, Serial No. 426,827
3 Claims. (Cl. 70—368)



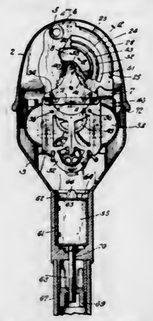
1. In a lock of the character described: a mounting member having a bore and having a groove providing a shoulder accessible from the bore; a cylinder unit rotatably mounted in the bore and having a transverse chamber opening to the exterior thereof in line with the mounting member groove and adjacent to the shoulder; a looped spring wire retaining member having one end portion thereof anchored to the cylinder unit and having its remainder biased toward the bottom of the mounting member groove with parts of the closed portion of the loop lying in the transverse chamber and at least one other part of the closed portion of the loop projecting beyond the cylinder unit into the mounting member groove to engage behind the shoulder on the mounting member; and a hook on the other end of the spring retaining member engaging with a shoulder on the cylinder unit for holding said part of the closed portion of the loop projecting beyond the cylinder unit clear of the bottom of the mounting member groove against the tension of the spring wire retaining member.

2,323,401
METHOD AND MACHINE FOR TRUING GRINDING WHEELS
Glen F. Johnson, Detroit, Mich., assignor to Bower Roller Bearing Company, Detroit, Mich., a corporation of Michigan
Original application December 23, 1940, Serial No. 371,297. Divided and this application September 15, 1941, Serial No. 410,818
2 Claims. (Cl. 125—11)



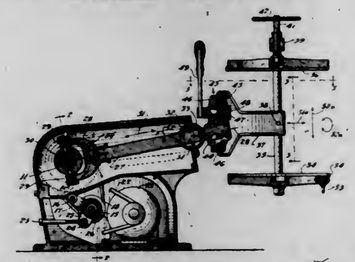
1. An adjustable cutter unit comprising a holder having a guideway, a cutter carrier slidable along said guideway and having an arcuate recess therein, a bolt supported by said holder and extending transversely to said carrier and projecting into said recess, a cutter adjuster nut having an eccentric boss rotatably mounted on said bolt and having an eccentric portion engaging said recess, and said nut and bolt serving for selectively and releasably clamping said carrier to said member.

2,323,402
PARKING METER
Whitney W. Jones, Philadelphia, Pa.
Application October 9, 1940, Serial No. 360,465
11 Claims. (Cl. 194—1)



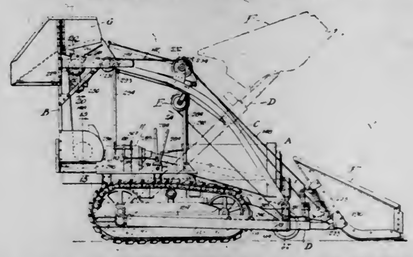
1. A time indicating device comprising a rotatable member providing a circular peripheral surface, means for rotating said member, and means for retaining a coin in contact with said circular peripheral surface during at least a fraction of a complete rotation of said member to cause the coin to have a rolling contact therewith and also an orbital motion about the axis of said member, said last named means including a plurality of separately movable elements spaced radially outwardly from said rotatable member and presenting an inwardly facing surface to contact the periphery of the coin, means for urging said elements toward said rotatable member to maintain the coin against the circular peripheral surface thereof, and means along the path of travel of the coin for measuring the extent of movement of the coin, and thereby indicating a determinable time period.

2,323,403
PAINT-MIXING MACHINE
Arthur P. Jorgenson, Racine, Wis., assignor to Landon P. Smith, Inc., Irvington, N. J., a corporation of New Jersey
Application August 28, 1940, Serial No. 354,492
2 Claims. (Cl. 259—72)



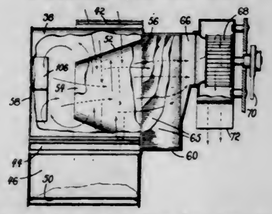
1. In a paint-mixing machine, agitating means comprising a drive shaft having an eccentric crank portion whose axis is disposed at an acute angle to the axis of said shaft, a driven shaft, universal means connecting said driven shaft to said eccentric crank portion, a swivel bearing supporting the other end of said driven shaft, said driven shaft being slideable and rotatable in said bearing.

2,323,404
MATERIAL HANDLING AND LOADING APPARATUS
Joseph Kuchar, Chicago, Ill., assignor to Athey Truss Wheel Company, Chicago, Ill., a corporation of Illinois
Application July 2, 1941, Serial No. 400,768
24 Claims. (Cl. 214—131)



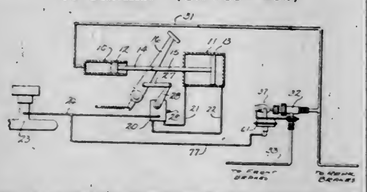
1. In a material handling and loading apparatus comprising, a tractor, a boom pivotally supported on the tractor, a winch mounted on the tractor, the winch having a plurality of pin-receiving openings parallel to and eccentric of the winch axis, a line leading from the winch to the boom, to raise and lower the boom, and power drive means including a drive shaft mounted in axial alignment with and alongside of said winch; a hub keyed to the drive shaft and having a plurality of pin-receiving openings therein adapted to register with said openings in the winch, and a plurality of drive pins inserted in the openings in the drum and extending into the openings in the hub to provide a driving connection between the winch and the drive shaft.

2,323,405
DUST SEPARATOR
Lambert S. Linderoth, Jr., Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Original application May 5, 1939, Serial No. 271,965. Divided and this application May 8, 1941, Serial No. 392,430
1 Claim. (Cl. 183—80)



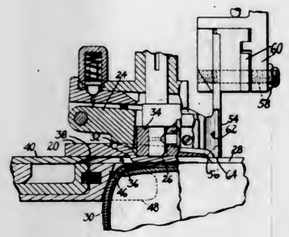
A dust separator suitable for use in shoe repair machines, comprising a casing having a wall of substantially circular cross section disposed about a horizontal axis, an exit conduit of circular cross section within and coaxial with said casing arranged to discharge air through one end of said casing, the opposite end of said casing being closed, said exit conduit having an open end spaced from said closed end of the casing by one-half to one-third the length of the casing, a baffle having a plurality of radial vanes adjacent to the closed end of the casing and spaced from the open receiving end of said exit conduit, said baffle being arranged axially of the casing to reduce the rotary movement of the air current about to enter the conduit, said conduit being arranged within said casing to provide an annular passage between itself and the casing, said casing having an inlet above said axis arranged to direct the incoming air downwardly and tangentially into said annular passage whence the air passes into the space between the receiving end of the conduit and the closed end of the casing and thence into the conduit from which it is discharged, said inlet extending from the discharge end of the casing to a locality spaced from the closed end of the casing by a distance substantially equal to the distance at which the receiving end of the conduit is so spaced, said circular wall having a slot positioned below said axis and extending the length of the casing for discharging tangentially those heavy particles of dust which are thrown by gravity and centrifugal force against the circular wall, and an air-tight receptacle into which dust may pass from said slot.

2,323,406
BRAKING SYSTEM
Edgar A. Milhaupt, Appleton, Wis.
Application April 17, 1941, Serial No. 388,966
20 Claims. (Cl. 188—152)



1. In a vehicle having fluid pressure brakes and an engine, a device operable in an emergency for preventing the seating of a pressure differential valve in said fluid pressure braking system, said device comprising the combination with a part connected with the valve to move therewith, of a limiting means co-acting with said part in a direction to preclude valve seating, said limiting means being movable to and from a position for engagement with said part, and a member having means operatively connected to be controlled in accordance with engine operation for actuating said limiting means in at least one of its directions of movement.

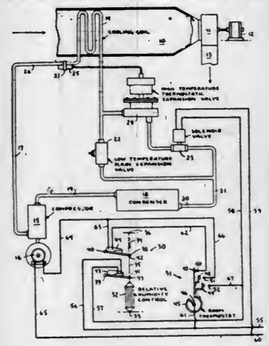
2,323,407
HEEL-SEAT FITTING MACHINE
Lloyd G. Miller, Beverly, and Ralph S. Megathlin, Quincy, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application August 20, 1942, Serial No. 455,444
10 Claims. (Cl. 12—31.5)



1. A heel-seat fitting machine having, in combination, means comprising a crease plate constructed and arranged to deform the central part of the heel-seat portion of an attached sole of a shoe relatively to the margin of said heel-seat portion, a knife movable forwardly in a predetermined path along said crease plate to reduce the heel-seat portion of the sole, and a depressor constructed and arranged to force the lateral margins of the heel-breast line portion across the path of movement of the knife whereby to cause the knife during its forward movement to form heel-breast receiving shoulders on the sole, said depressor being movable across the path of movement of the knife and having a face serving as an anvil against which the knife cuts at the forward end of its stroke.

2,323,408
AIR CONDITIONING SYSTEM
Wayland R. Miller, Milwaukee, Wis., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Original application November 18, 1935, Serial No. 50,291. Divided and this application February 7, 1942, Serial No. 429,902
6 Claims. (Cl. 62—6)

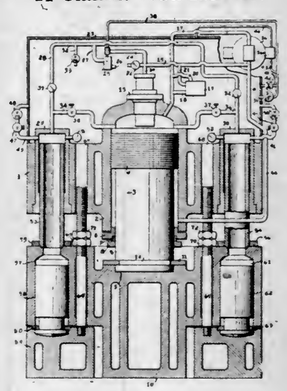
1. The combination with a refrigerating coil over which air to be conditioned is passed before being delivered to a space to be controlled and a compressor for supplying refrigerant to said coil, of an expansion valve for maintaining the coil temperature below the dew-point of of the air, a second expansion valve for maintaining the coil at a higher temperature than the valve first mentioned, moisture responsive means for placing said first valve in operation when the humidity increases, and for placing said second valve in operation when the humidity decreases, and temperature responsive means for placing said second expansion valve in operation when the temperature of the air rises above a predetermined maximum, regardless of the humidity.



2,323,409
ETHYLENE SULPHIDE REACTION PRODUCT OF CYANAMIDE
Leonard Patrick Moore, Stamford, and Walter P. Ericks, Cos Cob, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application December 14, 1940, Serial No. 370,146
1 Claim. (Cl. 260—551)

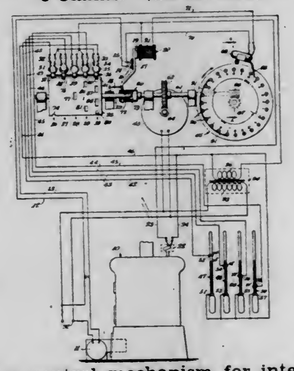
A condensation product of ethylene sulphide and cyanamide.

2,323,410
BLANKHOLDER PRESS
Johan A. Muller, Mount Gilead, Ohio, assignor to The Hydraulic Development Corporation, Inc., Wilmington, Del., a corporation of Delaware
Application May 31, 1941, Serial No. 396,105
11 Claims. (Cl. 113—45)



1. In a hydraulic press, a press platen, first fluid operable means for actuating said press platen, a clamping platen, second fluid operable means for actuating said clamping platen, means mechanically interconnecting said platens but allowing said platens to move relative to each other, thereby permitting said press platen to shape a work piece while it is being clamped against a support by said clamping platen, locking means operable selectively for rigidly locking said clamping platen to said pressing platen to make said clamping platen ineffective for said clamping action, and means for hydraulically interconnecting said first and second fluid operable means for simultaneously advancing said platens when they are locked together, to thereby exert an increased pressure on the work piece to be shaped.

2,323,411
CONTROL MECHANISM
Arthur Newman, New York, N. Y.
Application January 21, 1942, Serial No. 427,531
8 Claims. (Cl. 236—46)

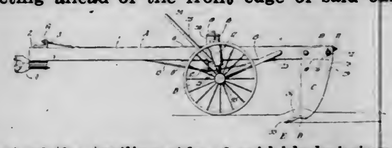


1. In a control mechanism for intermittently operating a fuel supply device in a heating system, a main circuit through which said fuel supply device is controlled, movable control means for starting and stopping said fuel supply device, a solenoid operatively connected with said control means and adapted when energized to hold said control means in its inoperative position for stopping the fuel supply device, a control circuit through which said solenoid is controlled, means for normally holding said control means in its operative position, a plurality of normally open control switches, a plurality of temperature responsive switch members set for different predetermined temperatures each being electrically connected through said control circuit to a corresponding one of said control switches and the said solenoid, and rotatable actuating means for intermittently closing said control switches comprising a rotatably mounted member containing groups of spaced switch-actuating means each group being operatively associated with a corresponding one of said control switches, the said switch-actuating means being spaced in predetermined staggered relation so as to actuate the coacting switches one at a time and a predetermined number of times during each revolution, whereby the frequency of de-energizing of the solenoid and the consequent release of the said movable control means to start the fuel supply device will depend upon the number of temperature responsive switch members in circuit-breaking condition.

2,323,412
COVER CULTIVATOR
Charles Sherwood Noble, Nobleford, Alberta, Canada
Application May 12, 1938, Serial No. 207,603
In Canada June 21, 1937
5 Claims. (Cl. 97—144.1)

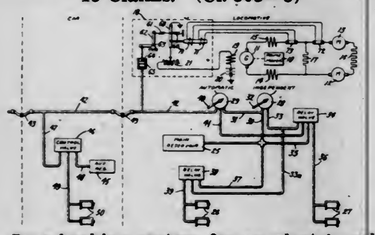
1. In a cultivating blade and carrier combination, an elongated carrier characterized by having an arched upper surface, said carrier and blade

each being divided into two sides by a longitudinal vertical plane extending through each, one side being the advancing side and the other the trailing side, said blade being secured to the upper surface of the advancing side of said carrier at an angle and in overlapping attachment, the advancing side of said blade partially projecting ahead of the front edge of said carrier,



part of the trailing side of said blade being tangent to the trailing side of said carrier and projecting above and to the rear of the advancing side of said carrier, so that soil cultivated by said blade tends to be thrown clear of the trailing side of said carrier thereby decreasing frictional resistance.

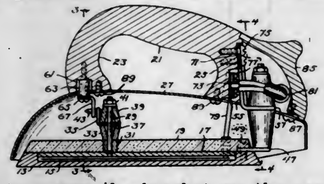
2,323,413
BRAKING SYSTEM
Harold S. Ogden, Erie, Pa., assignor to General Electric Company, a corporation of New York
Application November 21, 1941, Serial No. 419,924
15 Claims. (Cl. 303—3)



1. In a braking system for an electric vehicle, friction brakes for said vehicle, manually-controllable means for controlling the application of said friction brakes, an electric traction motor for driving said vehicle having an armature and a series field winding, a dynamic braking resistor, means for completing a dynamic braking circuit including said armature and said resistor, a source of electric current supply connected in series circuit relation with said series field winding across a portion of said dynamic braking circuit, regulating means responsive to the currents in said armature and series field winding and arranged to control the excitation of said series field winding, and means responsive to said controllable means to change the setting of said regulating means.

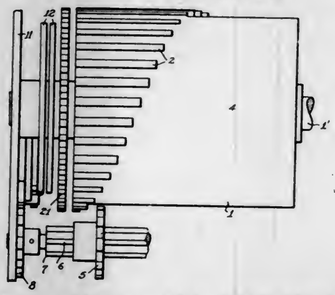
2,323,414
ELECTRIC IRON
Bror G. Olving, Elgin, Ill., assignor to McGraw Electric Company, Elgin, Ill., a corporation of Delaware
Application November 15, 1941, Serial No. 419,247
3 Claims. (Cl. 38—89)

2. An electric iron comprising a heated body, a plurality of vertically extending studs on said body near the front and the rear ends thereof, a pair of heat-insulating elongated bushings on each of said studs, a bracket clamped between said pairs of heat-insulating bushings, a pair of substantially horizontally-extending pins on the bracket secured to said front stud, a handle having depending front and rear portions, a bracket secured to the depending front handle portion and having a pair of openings therein to receive said pair of pins on the bracket on the front stud,



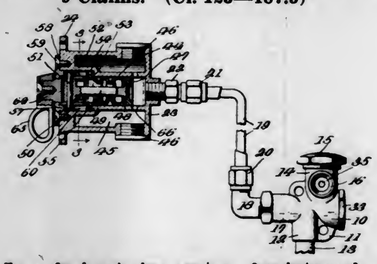
screws to secure the bracket on the rear studs to the rear surface of the handle, and a hollow casing secured against the lower ends of the depending handle portions.

2,323,415
INTERMITTENT DRIVE GEARING
Austin A. Overbury, West Orange, N. J., assignor to Monroe Calculating Machine Company, Orange, N. J., a corporation of Delaware
Application March 18, 1943, Serial No. 479,621
4 Claims. (Cl. 74—435)



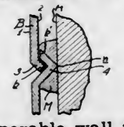
1. The combination with intermittent drive gearing having a driven gear and a mutilated drive gear; of means for automatically rotatably adjusting the driven gear with respect to the drive gear during the intermissions of the drive to insure meshing engagement of the gears following such intermissions including a spring retracted finger device and means for intermittently actuating said finger device.

2,323,416
PRIMING VALVE ASSEMBLY
Arthur L. Parker, Cleveland, Ohio
Application March 24, 1941, Serial No. 385,022
9 Claims. (Cl. 123—187.5)



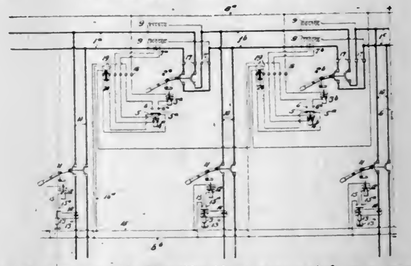
1. In a fuel priming system for internal combustion engines, a valve casing connected in the priming line between the fuel supply and the engine, normally closed valve means disposed within said casing for controlling the passage of priming fuel to the engine, means providing a closed conduit independent of the fuel line and filled with fluid in communication with the valve means in said casing, a housing adapted to be located at a point remote from said casing and having a piston cylinder in communication with the fluid in said conduit, a piston located in said cylinder and operable to force the fluid against said valve means whereby to open the said valve means and permit the passage of priming fuel to the engine, and manually rotatable means disposed exteriorly of said housing for effecting movements of said piston.

2,323,417
WALL TILE
Charles D. Pauli, Jr., St. Louis, Mo.
Application February 3, 1941, Serial No. 377,091
1 Claim. (Cl. 72—25)



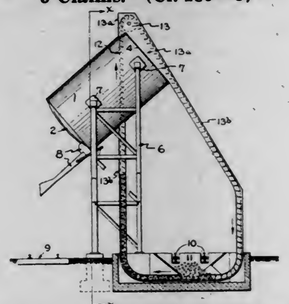
A pair of co-operable wall tiles one having a V-shaped channel along a portion of its margin and the other having a channel-fitting tongue presented obliquely along another portion of its margin, the tongue of the one tile having the same angle of obliquity, as, and being engageable on its under face with, one wall of the channel of the other tile for attaching the tiles together with their outer faces in flushwise relation, said tongue on its outer face and the exposed portion of the outer face of the other wall of the channel presenting a decorative V-shaped groove when the tiles are attached together.

2,323,418
ELECTRIC DISTRIBUTION SYSTEM
Harold E. Pearson, Bethlehem, Pa., assignor, by mesne assignments, to The Pennsylvania Company for Insurances on Lives and Granting Annuities, Philadelphia, Pa., a corporation of Pennsylvania
Application June 11, 1941, Serial No. 397,524
6 Claims. (Cl. 175—294)



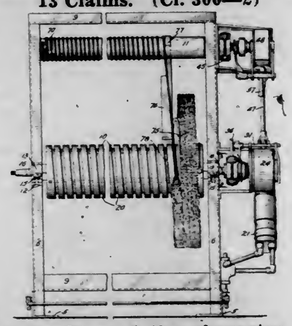
1. A system of distribution comprising a main supply circuit divided into sections, main automatic overload circuit breakers connecting said sections successively in series with each other, impedance devices in series in said main circuit connected between said sections and normally short-circuited by said circuit breakers respectively, feeder circuits connected respectively to said sections, and automatic overload circuit breakers in the feeder circuits respectively, said main breakers and feeder breakers having related control means for causing an affected main breaker to open before its related feeder breaker upon the occurrence of pronounced overload.

2,323,419
LOCOMOTIVE COALING STRUCTURE
Leland G. Plant, Washington, D. C.
Application July 25, 1941, Serial No. 404,093
5 Claims. (Cl. 189—3)



2. In a locomotive coaling structure, a shop fabricated bin section comprising an inclined cylinder the planes of whose ends are substantially perpendicular to its central axis, and means for rigidly supporting said cylinder at an angle to the horizontal slightly greater than the angle of repose of the granular material to be stored therein, whereby the entire volume of the bin section may be evacuated by allowing the granular material to flow by gravity from the lowest part thereof.

2,323,420
BROOM MACHINE
Joseph S. Plumeau, Bellaire, Long Island, and Ernest C. C. Miller, Laurelton, Long Island, N. Y.
Application September 5, 1941, Serial No. 409,602
13 Claims. (Cl. 300—2)

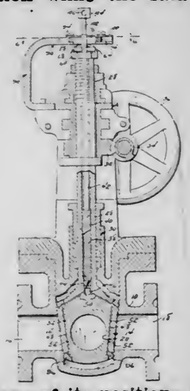


1. In a machine of the character indicated, means for rotatably supporting a broom drum, a cable drum, power means for rotating said cable drum for winding a cable thereon, constant pressure friction means for resisting rotation of said cable drum when a cable wound on the broom drum from said cable drum unwinds from said cable drum, whereby the cable being wound on the broom drum will be maintained taut.

2,323,421
VALVE LUBRICATOR AND SEAL
Isaac N. Reed, Livingston, Ala., assignor, by mesne assignments, to Wedgeplug Valve Company, Inc., New Orleans, La., a corporation of Louisiana
Application September 12, 1941, Serial No. 410,640
2 Claims. (Cl. 251—93)

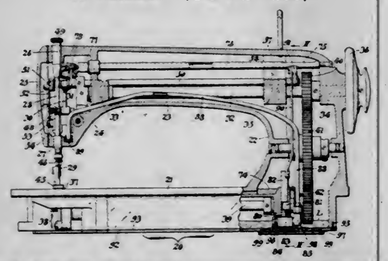
1. In a self lubricating valve, a body having

inflow and outflow passages and a valve chamber transverse thereto, a plug rotatable in said valve chamber and provided with grooves facing the wall of said valve chamber, a stem for said plug having a lubricant reservoir communicating with said grooves, a ram mounted in said reservoir and having screw threaded engagement with the wall thereof, a stem fixed to said ram and being of non-circular formation in cross section, a ratchet wheel fixed to the upper end of the stem of said plug, a second ratchet wheel resting upon and engaging said first ratchet wheel and having a non-circular opening through which the non-circular stem of said ram passes, said ratchet wheel holding said reservoir and ram against relative rotation while the said plug is being



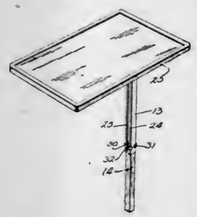
moved from one of its positions to the other, a bracket fixed to said body and provided with a housing through which the stem of said ram passes, a ratchet wheel rotatably mounted in said housing and having a non-circular portion through which the stem of said ram passes, a pawl mounted in the said housing and engaging the ratchet wheel therein to hold it and the ram against turning movement with the reservoir when said plug is turned into another of its positions, and a coil spring sleeved on the stem of the ram between said second and third ratchet wheels to yieldingly hold said second ratchet wheel in engagement with said first ratchet wheel.

2,323,422
SEWING MACHINE
George Sauer, Berwyn, Ill., assignor to Union Special Machine Company, Chicago, Ill., a corporation of Illinois
Application July 11, 1940, Serial No. 344,864
10 Claims. (Cl. 112—256)



3. A sewing machine comprising a frame with a hollow base containing a supply of lubricating oil, a communicating hollow standard rising from the base and sustaining a communicating hollow overhanging arm with a hollow head at its free end whereof the bottom extends below said arm; needle operating means within the head, an actuating shaft for the needle operating means extending longitudinally of the hollow of the overhanging arm; feed means, an actuating shaft for the feed means extending longitudinally of the hollow of the machine base; a train of transmission gears within the hollow of the standard connecting the two shafts which gears in their rotation take oil from the supply and disperse it upwardly within the machine frame; means for trapping some of the oil so dispersed and conducting it to the needle head for lubrication of the needle operating means; a manual control means for rendering the machine operative or inoperative; and means including a normally inactive pump connected to the control means for actuation thereby to remove excess oil accumulation from the bottom of the needle head and to return it to the supply in the machine base.

2,323,423
FOLDING TABLE
Erwin L. Schmidt and Joseph L. Schwabe, Jr., Milwaukee, Wis., assignors to G-H Specialty Co., Milwaukee, Wis., a corporation of Wisconsin
Application July 26, 1940, Serial No. 347,605
5 Claims. (Cl. 311—99)



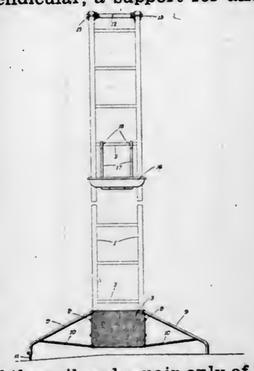
1. An extensible table leg including a housing comprising spaced channel members provided with means joining them at one end, a bearing in said means for pivotally mounting said housing, an extensible element disposed in space defined by the channel members, and manually operable clamp means at least partially encircling said channel members to provide telescopic adjustment between said members and the extensible element.

2,323,424
PROCESS OF FORMING INSOLUBLE AND ADHERENT NONMETALLIC FILMS ON METALS
George Schore, New York, N. Y.
No Drawing. Application August 31, 1940, Serial No. 355,028
11 Claims. (Cl. 204—6)

1. In printing forms of the class wherein a metallic shell is electroplated on a metal base of the group consisting of copper and nickel, the combination of a metal base of said group and an adherent film thereon produced by the action upon the base of an acidic aqueous solution consisting essentially of the ions Cl^-, SO_4^{--}, NO_3^-, and Cu^{++}.

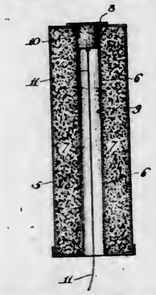
2,323,425
LADDER SUPPORTING STRUCTURE
Ernest L. Seiler, Stockton, Calif.
Application December 15, 1941, Serial No. 423,069
4 Claims. (Cl. 228—64)

1. In the combination of a ladder having an upstanding side rail and a unit projecting rearwardly from the ladder adjacent the top for engagement with a substantially vertical surface and adapted to then maintain the rail substantially perpendicular, a support for and engaging



the base of the rail and a pair only of legs diverging and sloping downwardly and forwardly from the support to a level below that of the base and support when the ladder is perpendicular.

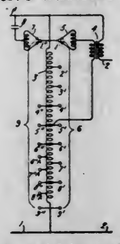
2,323,426
INCENDIARY BOMB
Henry A. Simpson, Philadelphia, Pa., assignor to Machine and Tool Designing Company, a corporation of Pennsylvania
Application February 3, 1942, Serial No. 429,368
2 Claims. (Cl. 102—6)



1. In an incendiary bomb, an elongated shell, an inflammable tube extending therethrough, inflammable material in the space between said shell and said tube, a block in said tube adjacent one end having a sliding friction fit therewith, means temporarily retaining said block in said end of said tube, cord means attached to said block and extending through said tube and out the other end thereof, and a coating of inflammable material on the interior of said tube ignited by the friction of said block in its travel substantially from end to end thereof to ignite the inflammable material in said bomb.

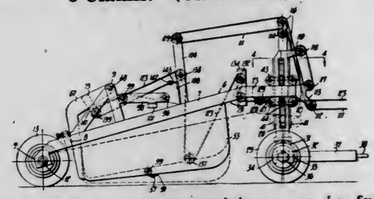
2,323,427
REGULATOR
Robert N. Slinger, Glendale, Mo., assignor to General Electric Company, a corporation of New York
Application November 25, 1941, Serial No. 420,375
25 Claims. (Cl. 171—119)

1. In combination, a transformer system, tap-changing means for varying the voltage of one side of said transformer system in equal voltage steps, reactive means connected to introduce appreciable corrective wattless kva. into a circuit



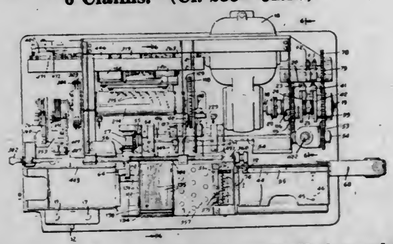
supplying current to said transformer, and means operated by said tap-changing means for varying said wattless kva. in substantially equal steps.

2,323,428
EARTH MOVER
Allan T. Spencer, Jr., Gerber, Calif.
Application March 22, 1939, Serial No. 263,446
5 Claims. (Cl. 37—126)



4. An earth mover comprising a main frame, means for supporting said frame for movement over the ground, a main bowl on said main frame, means affording movement of said main bowl toward and away from the ground, a front bowl on said main frame and having a lower edge, means affording movement of said front bowl back and forth over the ground with said lower edge travelling in a substantially horizontal path, and conjoint means for moving said main bowl away from the ground and said front bowl toward said main bowl.

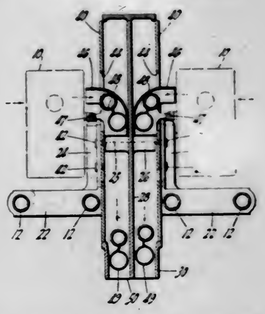
2,323,429
TABULATING MACHINE
Gustav Tauschek, New York, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Original application June 24, 1936, Serial No. 86,920. Divided and this application May 21, 1940, Serial No. 336,409
6 Claims. (Cl. 235—61.10)



1. In a perforated record controlled machine, in combination, a plurality of sets of record analyzing devices positionable for simultaneously engaging all index points of all perforated columns controlling the computations, an accu-

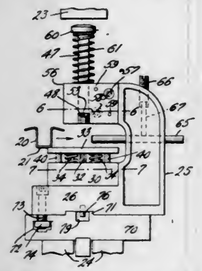
mulator for representing the result of said computations, a single line of punches of a punching mechanism, a single record feeding means, means for effecting by a single operation of said record feeding means the feeding of the record to a rest position to establish a cooperative relationship between the plurality of sets of analyzing devices and the perforated columns controlling the computation and to concurrently correlate at such rest position the first column of the record to be punched in operative relationship to said punches to thereby enable punching to be initiated without moving the record from the analyzing position, means to position said analyzing devices to cause the perforations in all the controlling columns to be engaged by said sets of analyzing devices while the record is at rest, means separate from said last named means to maintain said analyzing devices in such position to control computing operations, means for successively selecting said punches under control of said accumulator and operating the selected punches to punch the result of the computation in multicolumns of the blank part of said record, means for causing the feeding of the record step by step concomitant with successive punching operations, and means to cause the operation of the punch selecting and operating means and to initiate the operation of the last named means and concurrently causing said maintaining means to be disabled to cause said analyzing devices to be positioned out of engagement with the perforated columns prior to the result punching operation.

2,323,430
ORDNANCE
John C. Tro' ...lliamsville, N. Y., assignor to Bell Af...ration, Buffalo, N. Y.
Application ... 1941, Serial No. 422,908
1... Cl. 89—33)



9. In ordnance, a multiple gun battery comprising a plurality of machine guns having link ejection ports for discharge of cartridge belt links from said guns upon disintegration of the gun feeding cartridge belts, an ejected link chute device disposed intermediately of said guns and having apertured wall portions thereof in registry with the corresponding link ejection ports of said guns and partition means extending transversely of said chute device so as to divide the latter into a plurality of separate link receiving chambers lying adjacent respective of said guns, said guns being mounted as a unit so as to be pivotable in elevation upon said partition means, said chute device being pivotally mounted upon a base support so as to provide a gun battery azimuth pivot axis extending between said guns and offset from the respective longitudinal center lines thereof.

2,323,431
PUNCHING DEVICE
George F. Wales, Kenmore, N. Y.
Application May 12, 1942, Serial No. 442,629
12 Claims. (Cl. 164—94)



1. A punching device including a holder, a plurality of punches mounted on said holder, a single die mounted on said holder and having apertures for cooperation with said punches, said die including a stem and having one of said apertures arranged in alinement with said stem, said stem having an opening terminating in the side thereof in which said aperture terminates and through which punchings from said aperture are discharged, said die having a portion extending laterally from said stem and having another of said apertures extending therethrough for discharge of punchings from the upper face of said laterally extending portion at a side of said stem.

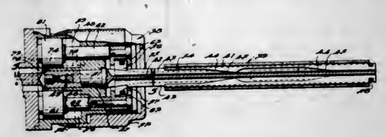
2,323,432
ALUMINUM HYDROXIDE POWDER AND PROCESS OF PREPARING THE SAME
Bruce Walton, Glenbrook, Conn., assignor, by mesne assignments, to Sterling Drug Inc., Wilmington, Del., a corporation of Delaware
No Drawing. Application February 4, 1941, Serial No. 377,336
6 Claims. (Cl. 252—317)

1. Procedure for preparing aluminum hydroxide powder of high neutralizing power and low bulk which comprises the steps of emulsifying aluminum hydroxide gel in a relatively small quantity of a water-insoluble viscous oil at a temperature at which such oil is fluid and then converting such emulsion into a substantially anhydrous powder by vacuum drying it at a temperature of about 45° C. but below approximately 75° C.

5. As a new article of commerce, a substantially anhydrous aluminum hydroxide powder produced in accordance with the procedure defined by claim 1 and composed of approximately 2–15% of water-insoluble viscous oil and the balance substantially all aluminum hydroxide, said powder being characterized by being non-greasy and easy to grind and by possessing a high acid neutralizing power as compared with the gel from which is was prepared.

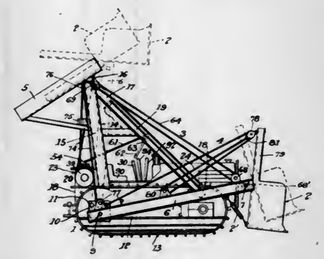
2,323,433
FLUID ACTUATED HEAD FOR ABRADING ELEMENTS
Harry M. Whittaker, Detroit, Mich., assignor to Micromatic Hone Corporation, Detroit, Mich., a corporation of Michigan
Application August 13, 1937, Serial No. 158,967
3 Claims. (Cl. 51—184.3)

2. In an abrading tool, an abrading head comprising a plurality of longitudinally shiftable, radially movable abrading stones, independent actuating means for each stone, said means being shiftable longitudinally, and means for moving



the actuating means to move said stones independently of each other, said means embodying a source of fluid pressure.

2,323,434
MUCKING AND LOADING MACHINE
Bernard Williams, Kanopolis Dam, Kans.
Application October 15, 1940, Serial No. 361,210
1 Claim. (Cl. 214—140)



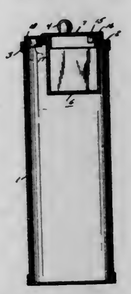
A mucking and loading machine comprising a tractor, a pair of shovel carrier arms fulcrumed at their rear ends on the rear part of said tractor at the sides respectively of said tractor, a shovel fulcrumed directly upon the forward ends of said arms, a power control unit mounted on said tractor and operated by the motor of said tractor, cables operated by said power control unit for tilting said shovel upwardly and forwardly at the end of its digging operation, when moved forwardly by said tractor, and cables operated by said power control unit for swinging said arms, and said shovel with a load of dirt upwardly and over said tractor to a point where said dirt is discharged from said shovel.

2,323,435
METHOD OF PRESERVING QUICKLIME
Nathan Wiseblood, Malden, Mass.
No Drawing. Application May 23, 1940, Serial No. 336,743
3 Claims. (Cl. 23—186)

1. The method of preserving quicklime in finely divided form so that it will remain active when stored which comprises pulverizing the quicklime with from 25 to 75 per cent of hard asphalt.

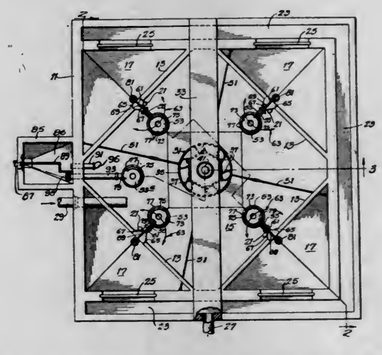
2,323,436
TOP FOR CANS
Fred M. Yakee, Mayville, Wis.
Application July 10, 1941, Serial No. 401,845
1 Claim. (Cl. 220—23)

A top for a can comprising a closure member having an edge flange adapted to fit over the upper edge of the can, a chest set into the member to project therethrough with a tight fit and having side and end walls extending above the member, and a flanged cover fitting over said



side and end walls and down against said member, said cover being hinged to the member.

2,323,437
SEWAGE TREATMENT APPARATUS
Charles Yeomans, Hubbard Woods, and Harold T. Jeffery, Chicago, Ill., assignors to Yeomans Brothers Company, Chicago, Ill., a corporation of Delaware
Application July 31, 1939, Serial No. 287,538
9 Claims. (Cl. 210—8)



1. In apparatus for the treatment of liquid sewage by the use of activated sludge, means defining the walls of at least two separate compartments, one of said compartments constituting a settling compartment and having an outlet for clarified effluent, the other of said compartments constituting an aeration compartment and having an inlet for raw sewage, said settling compartment communicating with said aeration compartment through a restricted opening located adjacent the bottom of said settling compartment, and the bottom of said settling compartment sloping in all directions toward said restricted opening, aerator means operable to raise liquid from said aeration compartment and to scatter this liquid in the form of a spray over the surface of the liquid contained in said aeration compartment to thereby aerate and intermix the same, driving means for said aerator means connected in driving relationship therewith, means including a funnel supported within said aeration compartment with the inlet end thereof located above the liquid level in that compartment for collecting a portion of the liquid scattered over the surface of said aeration tank by said aerating means and for conducting the liquid so collected into said settling chamber

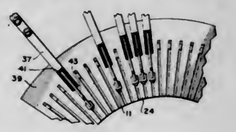
under sufficient pressure head to produce continuous flow from said settling compartment into said aeration compartment through said restricted opening, means providing for vertical adjustment of said funnel, means providing for horizontal adjustment of said funnel, the vertical and horizontal adjustment of said funnel serving to regulate the amount of liquid collected by said funnel and to regulate said pressure head producing continuous flow, and means for discharging sludge from said apparatus during the operation thereof.

2,323,438

TELEGRAPH SWITCHING APPARATUS

Walter J. Zenner, Des Plaines, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware

Application August 4, 1941, Serial No. 405,301
1 Claim. (Cl. 178—23)



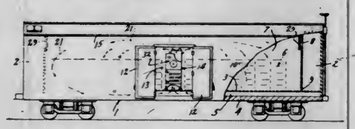
In a printing telegraph machine, a plurality of selectable elements having a cam hook extension, a selector for selecting an element and allowing its movement in one direction, a contact member having a normal and an off-normal position, a cam member on said contact member normally engaged by said cam hook extension for retaining said contact member in its normal position and disengaged promptly from said cam hook extension upon its movement in said one direction whereby said contact member is operated to its off-normal position to complete electrical contact, and means for thereafter moving said selected element in another direction.

2,323,439

METHOD AND MEANS FOR PRECOOLING CONTENTS OF REFRIGERATING CARS

Loyd Adams, Maywood, Calif., assignor to Calavo Growers of California, Los Angeles, Calif., a corporation of California

Application June 28, 1941, Serial No. 400,176
5 Claims. (Cl. 62—102)



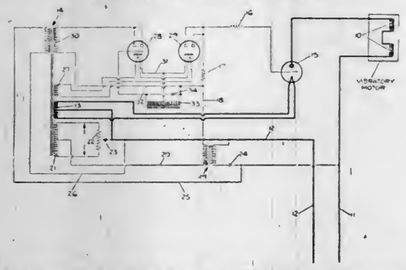
1. In an apparatus for precooling the load of a refrigerator car having a refrigerating space extending longitudinally of the car and having a centrally disposed aisle, of a precooling unit, means for supporting the precooling unit in the aisle in a direction transverse of the length of the car, cooling coils in the precooling unit extending substantially the length of the central aisle, means for circulating a cooling medium through the coils, means for drawing air up through the coils, and means for forcing the air under low pressure outwardly from the precooling unit toward the opposed ends of the refrigerating space so that the cold air may fall through a load in the refrigerating space to return below the load to the said precooling unit.

2,323,440

ELECTRICAL CONTROL SYSTEM

Clyde W. Baird, Columbus, Ohio, assignor to The Traylor Vibrator Company, a corporation of Colorado

Application April 25, 1942, Serial No. 440,507
4 Claims. (Cl. 172—240)



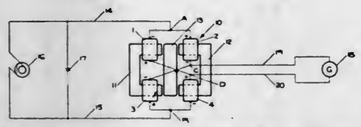
1. In an electrical control system, the combination with a vibratory electro-magnetic motor, of a source of alternating current, means for supplying pulsating current to said motor from said source, said pulsations having a frequency which is a sub-multiple of the frequency of said source, said means including an oscillation generator energized from said alternating current source and including a tuning circuit tuned to a sub-multiple of the frequency of said source, means for rectifying the output of said oscillator to produce a pulsating voltage having a frequency which is determined by said tuned circuit at a sub-multiple of the frequency of said source, a power circuit for said motor including said source of alternating current and a power electron tube having a control electrode, means whereby said control electrode is controlled by said pulsating voltage to control the frequency of current impulses delivered by said power tube to said motor, and means for controlling the amplitude of vibration of said motor including mechanism to provide alternating current voltage on said control electrode which is shiftable in phase relation to said source of alternating current.

2,323,441

ELECTRICAL SYSTEM

Clyde W. Baird, Columbus, Ohio, assignor to The Traylor Vibrator Company, a corporation of Colorado

Application April 25, 1942, Serial No. 440,509
3 Claims. (Cl. 172—240)



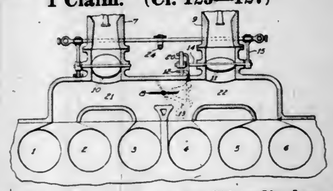
1. An electrical system including a vibratory electro-magnetic motor having a pair of oppositely positioned field cores and a common armature between them adapted to be moved periodically first toward one of said cores and then toward the other, a pair of windings on each core, a circuit for energizing said coils from a source of undulating current including connections whereby said four windings are connected in two parallel branches across the undulating current source, each branch including two coils in series, said series coils being on opposite field cores, a second circuit for energizing said coils from a source of direct current whereby said four windings are connected in two parallel branches across the direct current source, each branch including two coils in series, said series coils being on opposite field cores, the point of connection of the direct current source to any coil being at the opposite terminal thereof as its point of connection to the undulating current source.

2,323,442

MANIFOLD

Bert Beard, Detroit, Mich., assignor to George M. Holley and Earl Holley

Application December 6, 1941, Serial No. 421,893
1 Claim. (Cl. 123—127)



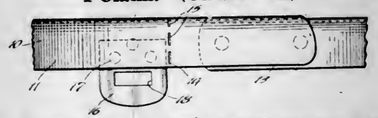
In combination, in a multi-cylinder engine comprising two groups of one or more cylinders, an inlet passage for each of said groups, a carbureting system common to all the cylinders of both groups, throttling means therefor, an interconnecting passage between the two inlet passages, a valve therein which when closed restricts said common carbureting system to one group of cylinders, a carbureting system for the other group of cylinders, throttling means therefor, means for opening said throttling means and closing the valve in the interconnecting passage after the throttling means for the common carbureting system has been opened to a substantial degree.

2,323,443

CONTAINER CLOSURE

Stevens A. Bennett, Chicago, Ill.

Application February 17, 1941, Serial No. 379,329
1 Claim. (Cl. 220—61)



In combination, a container having a peripheral top bead, a cover having a flange extending over the bead, a closure ring having a skirt portion for engagement with the bead and a flange portion for engagement with the cover flange, said skirt portion being bent under the bead to hold the cover in closed position, the ends of said ring being overlapped and welded together, said ring being scored transversely closely adjacent to the overlapped ends to facilitate breaking the same, said score line extending across said flange and skirt portions of the ring, a lug welded to the skirt portion of said ring and depending therefrom and positioned closely adjacent to the scoring on the side opposite from the overlapped ends and having an opening for receiving a tool which may be projected therethrough for breaking the ring at said score line.

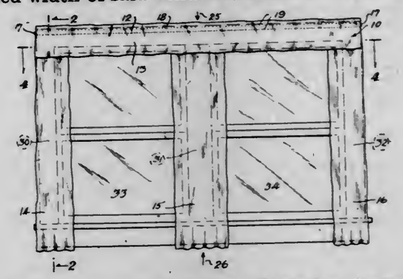
2,323,444

CURTAIN

Edmond P. Bixer, New York, N. Y.

Application January 14, 1941, Serial No. 374,313
3 Claims. (Cl. 160—330)

3. For use with a group of at least two windows, adjacent each other horizontally, a multiple curtain comprising a support member including a rod carrying passage; said support member being of a length substantially equal to the combined width of said windows; a valance connected



to the support member and adapted to be horizontally disposed when the curtain is installed; at least three draping elements integral with the support member, the draping elements being spaced from each other.

2,323,445

AROMATIC COPPER - MERCAPTO COMPOUND AND A PROCESS OF PREPARING IT

Max Bockmühl and Walter Persch, Frankfort-on-the-Main-Hochst, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York

No Drawing. Application December 6, 1940, Serial No. 368,888. In Germany December 27, 1938
9 Claims. (Cl. 260—438)

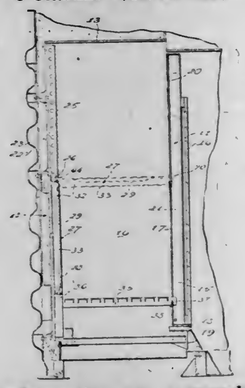
6. The copper derivative of a N-meta-carboxyphenyl-N'-allyl thiourea in which copper is in combination with sulfur.

2,323,446

REFRIGERATOR CAR

George Boswinkle, Chicago, Ill., assignor to Transportation Specialties Company, Chicago, Ill., a corporation of Illinois

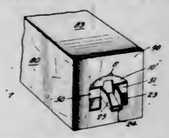
Application March 6, 1942, Serial No. 433,542
6 Claims. (Cl. 62—19)



1. In a refrigerator car, a movable grate arrangement comprising a grate having an apertured body section, and having a hinge arranged at one of its ends, said hinge including a pintle and a hinge fixture having a lost motion and rotating connection with said pintle, and a sup-

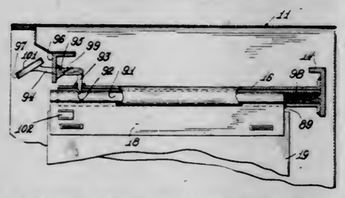
porting member carried by the other end of said grate section and adapted to be moved over a supporting part carried by a bulk-head wall when the grate section is moved toward the bulk-head, a camming member carried by the free end of said grate section, and a supporting surface carried by the car wall, whereby the grate section may be cammed vertically when it pivots into vertical position, and its weight is lifted from the pintle.

2,323,447
CONTAINER
James W. Chase, Neenah, Wis., assignor to Marathon Paper Mills Company, Rothschild, Wis., a corporation of Wisconsin
Application January 6, 1941, Serial No. 373,371
2 Claims. (Cl. 229—17)



1. A container for use in the storage, transportation and dispensing of pourable materials, said container being fabricated of a plurality of flat angularly disposed marginally interconnected panels and being stiff and self-supporting, one wall thereof being cut or scored to provide a displaceable tab integrally connected to the wall by an uncut portion which constitutes a hinge line about which the tab may be swung outwardly to uncover a pouring opening, said tab being provided with spaced score lines intersecting said hinge line and a pair of spaced parallel slits extending from each end of the hinge line, and a transverse slit joining the extremities of each pair of slits to provide leg portions at each end of said hinge line, said tab when hinged outwardly on said hinge line and folded along said spaced score lines forming a spout portion and said leg portions folded at right angles to said spout portion and the ends thereof defined by said transverse slits engaged in abutting contact with a cut portion of said wall for retaining the spout portion in position.

2,323,448
FILING EQUIPMENT
Daniel A. Brennan, deceased, late of Chicago, Ill., by Elmer L. Zwickel, executor, Chicago, Ill., assignor to Acco Products, Inc., Long Island City, N. Y., a corporation of New York
Application November 20, 1940, Serial No. 366,448
2 Claims. (Cl. 211—48)



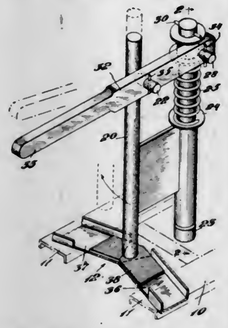
1. In a filing device including front and rear supports, a tubular hanger arm, an external flange at one arm end providing a base to abut the rear support for rigidly maintaining said arm horizontally with its forward end terminating rearwardly of the front support, said arm being longitudinally slotted inwardly from its free forward end, a sheet suspension member consisting of a substantially rectangular sheet of stiff material having a bead co-extensive with one longitudinal edge, said bead being telescoped into one arm end with the remaining sheet portion depending through said slot, a spring in said arm arranged to urge the sheet suspension member into a position projecting forwardly of the front support, and a disengageable latch mounted on the rear side of the front support normally engageable with means in said bead to retain the arm and member in a fully telescoped relation, said latch having means extending in front of said support for manual latch actuating engagement.

2,323,449
QUICKLY DETACHABLE SEAL
Stanley Bright, Jr., Bern Township, Berks County, Pa.
Application September 25, 1940, Serial No. 358,205
1 Claim. (Cl. 215—46)



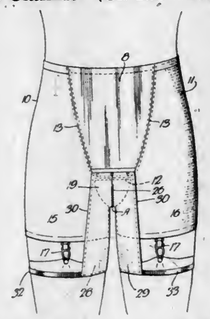
Improved means for opening a jar having an open mouth with a lip protruding from the outer surface of the wall and surrounding the mouth and having a rubber ring around the mouth below the lip and having a cap provided with a depending flange crimped onto the lip and rubber ring, said means comprising a wire attached to the rubber ring and depending between the flange and jar wall and constructed of material sufficently rigid when the depending end of the wire is turned away from the jar, to pry and bend the flange outwardly, loosening the flange and ring.

2,323,450
WELDING CLAMP
Gericho Brosco, Warwick, R. I., assignor of one-third to Constance B. Sargent, Boston, Mass., and one-sixth to Fred Brosco, Johnston, R. I.
Application April 16, 1942, Serial No. 439,151
4 Claims. (Cl. 29—89)



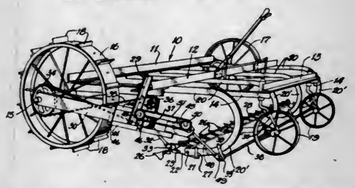
1. A work clamp comprising a rigid post, a jaw member, an arm carrying said jaw member, means to swivelly mount said arm on said post, a spring urging said means along said post in the direction of the longitudinal axis of said post, a pivot swivelly mounted on said post, and a lever swivelly mounted on said pivot and acting on said member for moving said member against the action of said spring.

2,323,451
UNDERGARMENT
Conrad Bullinger, Riverside, Ill., assignor to A. Stein & Company, a corporation of Illinois
Application December 3, 1941, Serial No. 421,430
5 Claims. (Cl. 128—149)



1. An undergarment comprising a body part and legs of such form as to be adapted to snugly fit the body and legs of the wearer, said body part of the garment having its crotch portion cut away to provide a crotch opening, and said legs of the garment being adapted to encircle the legs of the wearer below the crotch, the inner portions of said legs having free upper edges, and a crotch member detachably connected at its upper ends to the front and back of said body part above said crotch opening and having leg portions depending into overlapping relation to said inner portions of the garment legs, said depending leg portions being provided with means for maintaining the same distended.

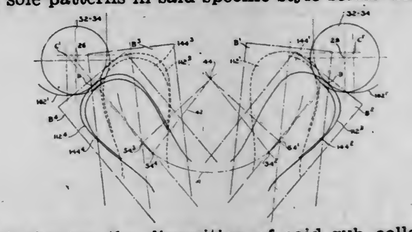
2,323,452
ROTARY ROD WEEDER
Claude C. Calkins and Laurence A. Hunt, Spokane, Wash., assignors to Calkins Manufacturing Company, a corporation of Washington
Application October 11, 1941, Serial No. 414,568
11 Claims. (Cl. 97—42)



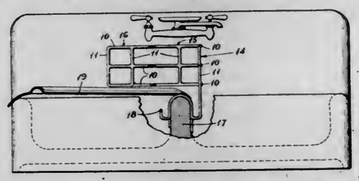
1. In a weeder of the class described having a gang of longitudinal beams terminating at their rear ends in depending portions, the combination of a pair of weeder rods rotatably supported, one behind the other, crosswise of all of said depending portions, and means for simultaneously rotating said weeder rods.

2,323,453
METHOD OF PREPARING HEEL TEMPLETS FOR HEEL TURNING MACHINES
Dominick J. Calderazzo, Dolgeville, N. Y.
Application April 24, 1941, Serial No. 390,068
4 Claims. (Cl. 12—146)

1. In a method of preparing a series of heel templets of a given style series for use in a double spindle wood heel turning machine having a pair of segmentally circular rub collars which are permanently and rigidly symmetrically disposed with respect to said spindles; that improvement which comprises the steps of empirically preparing templets corresponding to two specific sizes of sole patterns in said specific style series without altering the disposition of said rub collars, and preparing other templets of the same style series by grading for use in said machine without altering said disposition of said rub collars.



2,323,454
DRAINBOARD GUARD
Steven Chambers, New York, N. Y., assignor of one-half to Jerome J. Kern, New York, N. Y.
Application July 12, 1940, Serial No. 345,026
2 Claims. (Cl. 141—11)



1. A guard for drainboards and the like adapted to be detachably secured to a partition supporting one end of the drainboard, said guard comprising a shield having a front portion and side members extending from said front portion, an attachment portion depending from said front portion, said attachment portion having the shape of an inverted U for straddling the drainboard partition, said inverted U shaped portion being offset inwardly from said front portion whereby the drainboard will rest upon said inverted U shaped portion.

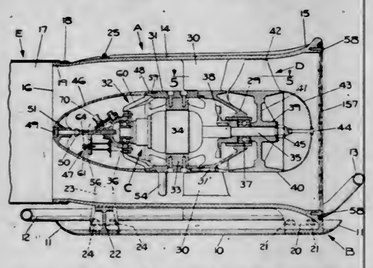
2,323,455
CELL
Jesse Elliott Creech, Jacksonville, Fla.
Application January 19, 1942, Serial No. 427,249
3 Claims. (Cl. 189—5)



1. A cell in which to confine a violent person comprising four rigid vertical walls and a floor,

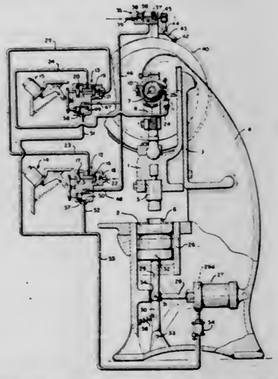
and a resilient surface on said walls, said surface being formed of a smooth continuous flexible imperforate metallic sheet, means for securing the lower edge of the sheet in fixed position adjacent to the floor, means for securing the upper edge of the sheet in fixed position at points above the reach of an occupant of the cell, and springs interposed between the sheet and the walls to support the sheet to yield to pressure of an occupant of the cell.

2,323,456
VENTILATOR
Morton B. Curley and James Kilbourne, Columbus, Ohio, assignors to The Jeffrey Manufacturing Company, a corporation of Ohio
Application July 12, 1940, Serial No. 345,186
10 Claims. (Cl. 230—117)



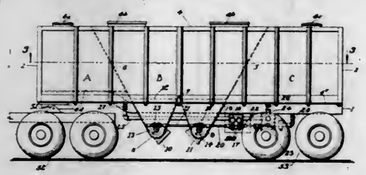
9. As an article of manufacture, a single casting including as integral parts thereof a complete ventilator housing, radially extending air guide and motor supporting vanes and a part of an electric motor including a circular motor main frame part and an end bell adapted to receive and support a bearing of a motor shaft.

2,323,457
TWO HAND CONTROL FOR PRESSES
Ernest Davis, Syracuse, N. Y., assignor to The Prosperity Company, Inc., Syracuse, N. Y., a corporation of New York
Application January 5, 1942, Serial No. 425,675
12 Claims. (Cl. 192—131)



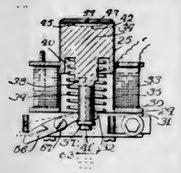
1. In pressing machines which include coacting pressing elements, one of which has a closing and opening movement relatively to the other, and power actuating mechanism for the movable element including a prime mover; the combination of one of said elements being retractable from its normal position relative to and during the closing movement, and means operable independently of the prime mover to retract the retractile element during the closing operation by the prime mover, a two hand control including independently operable manuals, both of which must be operated jointly to control the operation of the actuating mechanism, and means controlled by the release of either manual at an intermediate point in the closing movement of the movable element for operating the retracting means.

2,323,458
APPARATUS FOR TRANSPORTING MATERIALS
Robert A. Dunn, Los Angeles, Calif.
Application March 25, 1942, Serial No. 436,086
7 Claims. (Cl. 214—83)



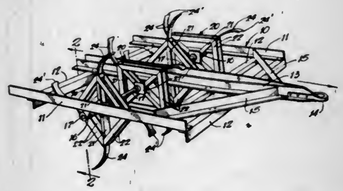
1. An apparatus for transporting materials, comprising: a body structure including longitudinally extending frame members, side, end, top and bottom walls defining a substantially rectangular shell carried by said frame members, intermediate transversely disposed downwardly converging partition members extending from the top wall beyond the normal bottom of said shell and below said frame members and forming a transversely extending conveyor housing, a discharge spout for said housing; a transversely disposed conveyor in said conveyor housing for feeding material into said discharge spout; wheel units for said body structure disposed forwardly and rearwardly of said conveyor housing; each partition and the corresponding end of said shell forming therebetween an end compartment of substantially the full height of the shell; a discharge pump connected with said end compartments; a power unit suspended from said body structure; and a power transmission means for connecting said power unit with said conveyor and said discharge pump.

2,323,459
CIRCUIT CONTROLLING MEANS
Ernest G. De Valera, New York, N. Y.
Application August 14, 1940, Serial No. 352,608
10 Claims. (Cl. 200—97)



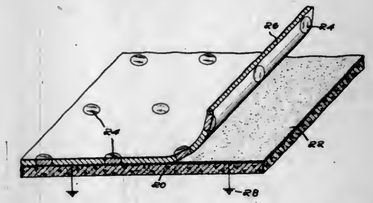
1. In apparatus of the character described, a solenoid winding, a core moved in one direction by the winding and shiftable in an opposite direction, a dash-pot to retard the movement of the core in the opposite direction, a normally closed circuit closing device opened when the core is moved in the said one direction and remaining open until the core moves in the said opposite direction, and a normally open circuit closing device closed and subsequently opened when the core is moved in the said opposite direction.

2,323,460
ROTARY SUBSOILER
Henry Domrese, Waterville, and Claude C. Calkins and Laurence A. Hunt, Spokane, Wash., assignors to Calkins Manufacturing Company, a corporation of Washington
Application May 2, 1941, Serial No. 391,448
3 Claims. (Cl. 97—52)



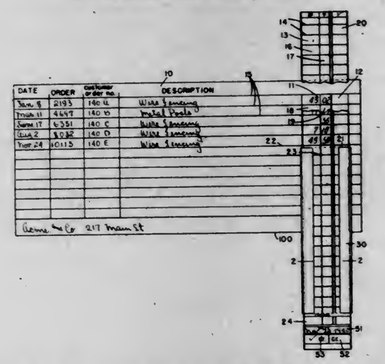
1. A subsoil working implement of the character described, comprising, in combination, a substantially horizontal frame, a shaft journaled on and crosswise of said frame substantially midlength thereof, a plurality of laterally spaced diggers on said shaft, said diggers including polygonal wheel frames fast on said shaft in rolling contact with the ground and radially extending narrow shovels attached to and projecting beyond the peripheral corners of said frames, the projecting portions of said shovels being concave lengthwise in their direction of forward rotation and of sufficient length to penetrate the subsoil whereby they exert a lifting and lateral fracturing action on the subsoil as they emerge from the latter, said polygonal wheel frames being formed with radial spokes extending to the corners of the periphery thereof and having the shanks of said shovels bolted to said spokes and extending through said corners, and a central shaft beam secured to and lengthwise of said frame.

2,323,461
SPARKPROOF FLOORING
William Warren Donelson, Boston, Mass., assignor to The Federal Flooring Corporation, Boston, Mass., a corporation of Massachusetts
Application October 30, 1941, Serial No. 417,144
3 Claims. (Cl. 175—264)



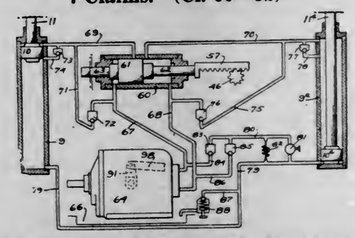
1. Sparkproof flooring comprising a sub-floor, a thin layer of conductive material on and covering the sub-floor, a top flooring on and covering the conductive material, and conductive studs extending through the top floor and in contact with the conductive material, the studs being in a predetermined and relatively close relationship and their top surfaces being substantially flush with the top surface of the flooring.

2,323,462
BOOKKEEPING OR ACCOUNTING AID
Stanley B. Freiberg, Cincinnati, Ohio
Application December 31, 1940, Serial No. 372,597
5 Claims. (Cl. 282—29)



5. In a device of the class described, the combination of a plurality of record sheets, a tally sheet in strip form having a top writing surface and a bottom surface provided with transfer material, and a tally sheet shield, said tally sheet adapted to be superimposed upon one of said record sheets at a time whereby items written on the top surface of the tally will be transferred onto the particular record sheet upon which the tally is superimposed and whereby the various items written on said tally will be accumulated thereon, said tally sheet shield comprising a strip of material having its edges formed to provide a pair of opposed guideways, said tally sheet adapted to be fed longitudinally through said shield with its edges loosely engaged by said guideways and with its bottom surface in contact with that portion of the shield between said guideways for precluding accidental or unintentional transfer of the transfer material of the tally onto a record sheet, incident to a posting operation.

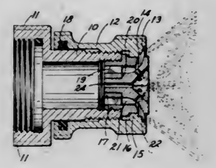
2,323,463
HYDRAULIC DRIVE
Walter Ferris, Milwaukee, Wis., assignor to The Oilgear Company, Milwaukee, Wis., a corporation of Wisconsin
Original application June 26, 1937, Serial No. 150,488, now Patent No. 2,190,642, dated February 20, 1940. Divided and this application January 24, 1940, Serial No. 315,349
7 Claims. (Cl. 60—52)



2. In a hydraulic drive, the combination of two main hydraulic motors having a corresponding end of each connected to each other, a reversible pump, a third hydraulic motor connected in series between one side of said pump and the other end of one of said main motors and between the other side of said pump and the other end of the other

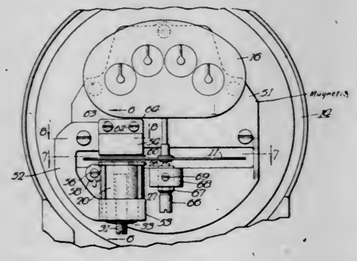
main motor whereby liquid discharged by said pump will first energize said third motor and then pass therethrough and energize one of said main motors and the liquid discharged by that main motor will energize the other main motor, and means providing for the discharge of liquid from each main motor during the time it is energized by liquid discharged by the other main motor.

2,323,464
SPRAY NOZZLE
Donald P. Glessner, Wooster, Ohio, assignor to Akron Brass Manufacturing Company, Inc., Wooster, Ohio, a corporation of Ohio
Application May 21, 1942, Serial No. 443,859
6 Claims. (Cl. 299—143)



3. A spray nozzle comprising a tubular body, a baffle head therein, the end portion thereof being disposed in spaced relation with the end of said body to define a circular port for the delivery of a conical stream, said baffle having a central port therein and a plurality of convergent openings, said openings being inclined towards each other in pairs and towards the central port so that the jets discharged therethrough impinge each other and the resultant spray partially impinges the jet from the central port and partially impinges the divergent conical stream.

2,323,465
DAMPING UNIT FOR WATT-HOUR METERS
Stanley S. Green, La Fayette, Ind., assignor to Duncan Electric Manufacturing Company, La Fayette, Ind., a corporation of Illinois
Application February 21, 1940, Serial No. 320,151
10 Claims. (Cl. 171—34)



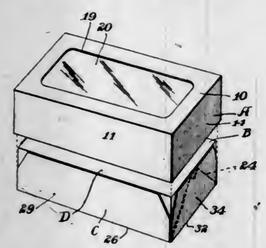
6. A damping unit for a watt-hour meter, including a single block of highly coercive magnetic metal having its pole faces facing in opposite directions, a substantially non-coercive yoke extending from one face of the magnet to a position opposite the other face but spaced therefrom to form a disc-receiving gap, and rivet means securing the magnet to the yoke, at least one of the rivets being formed of a metal of negative temperature coefficient of permeability extending approximately from pole face to pole face of the magnet,

2,323,466
SEASONING COMPOSITION AND CARRIER
Carroll L. Griffith, Chicago, Ill., assignor to The Griffith Laboratories, Inc., Chicago, Ill., a corporation of Illinois
No Drawing. Application December 22, 1939, Serial No. 310,585
7 Claims. (Cl. 99—140)

1. The method of making a solid seasoning composition which comprises extracting fat from animal body protein with a volatile organic solvent to provide a protein mass having not more than 3% of animal fat and capable of being finely divided to form a powder when free from volatile organic solvent and to form a porous protein body, mixing said protein while wet with residual fat-extracting solvent with a solution of a flavoring spice-ingredient in a volatile solvent, and evaporating volatile solvent from the mixture to provide a solid pulverizable mass comprising said protein as a carrier impregnated with the said flavoring spice ingredient.

5. A solid powdery seasoning composition comprising spice-seasoning extracts and a solid carrier comprising finely divided porous absorptive protein of the animal body, said protein being the protein of animal body which is associated with fatty parts of the body, said carrier having from 0 to 3% of animal fat, the extracts being both absorbed by the carrier and occluded in depositories of pore-like and channel-like form in the particles of the carrier.

2,323,467
METHOD OF PACKING CONTAINERS
Reynolds Guyer, St. Paul, Minn., assignor to Waldorf Paper Products Company, St. Paul, Minn., a corporation of Minnesota
Application June 4, 1941, Serial No. 396,595
18 Claims. (Cl. 93—3)

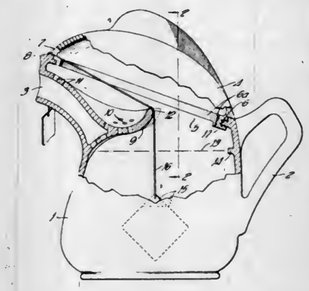


1. The method of packing a two part container having telescopically arranged upper and lower sections, the method consisting of placing a plastic mass of material to be packaged within the upper section of the container, inverting the upper section with the material contained therein above the lower section of the container, dropping and compressing the packaged material into the lower section of the container, and telescoping the two container sections.

2,323,468
TEAPOT
Sylvester E. Hevers, Waterford, N. Y.
Application December 9, 1941, Serial No. 422,246
6 Claims. (Cl. 53—3)

1. A tea pot comprising a body provided with a pouring opening therein and a cover for said body, the interior of said body being provided with means forming a ledge having its free edge extending between opposite sides of said body and

through substantially a central zone thereof and being adapted to support a tea bag when placed thereon, said body and cover being so relatively formed as to provide an opening therebetween when said cover is placed on said body through which the cord of a tea bag may be drawn and said ledge being disposed to the side of said body adjacent said opening between the body and cover; said ledge affording free access for im-



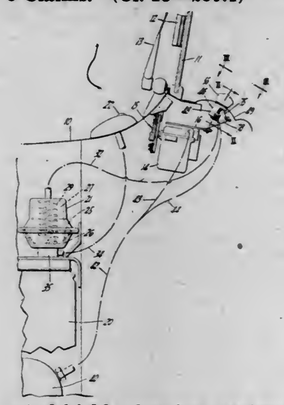
mersing a tea bag in a liquid therebelow and within said body but the free edge thereof being spaced below the portion of said cover overlying the same when said cover is positioned on said body and below and laterally from the opening between the body and cover sufficiently to enable a tea bag freely to be drawn upwardly from the liquid over said edge and upon said ledge without removing the cover.

2,323,469
MANUFACTURE OF TRANSPARENTIZED SHEETS FOR DRAWING, TRACING, AND COPY REPRODUCTION
Walker M. Hinman, Winnetka, and Walter G. Hollmann, Chicago, Ill., assignors to The Frederick Post Company, Chicago, Ill., a corporation of Illinois
No Drawing. Application July 8, 1939, Serial No. 283,376
23 Claims. (Cl. 117—143)

1. A tracing sheet comprising in combination an original tracing cloth of the type which is filled with a hydrophilic colloid and transparentized with a permanent agent selected from the group consisting of oils, fats and waxes; a waterproof transparent lacquer coat on a face of said sheet, said original cloth and said coat both containing the same and a second permanent transparentizing agent selected from the group consisting of oils, fats and waxes, the coat being saturated with said second agent, whereby it cannot draw said second transparentizing agent from the cloth to diminish the transparency of the filled cloth.

13. The method of coating a transparentized tracing sheet of fiber base which is filled with a hydrophilic colloid and which contains a permanent transparentizing agent selected from the group consisting of oils, fats and waxes, which comprises applying a waterproofing lacquer to a face of said sheet, said lacquer containing dissolved transparentizing agent for the said filled fiber-base sheet selected from the group consisting of oils, fats and waxes, said agent being present in quantity in excess of the capacity of the dried coat resulting from said lacquer to hold it dissolved therein, whereby it is in part rejected into the sheet in the formation of said coat, and evaporating the said lacquer to provide said coat.

2,323,470
WINDSHIELD CLEANER CONTROL
Erwin C. Horton, Hamburg, Donald N. Mussen, Williamsville, and Anton Rappl, Buffalo, N. Y., assignors to Trico Products Corporation, Buffalo, N. Y.
Application July 18, 1941, Serial No. 403,056
5 Claims. (Cl. 15—250.4)

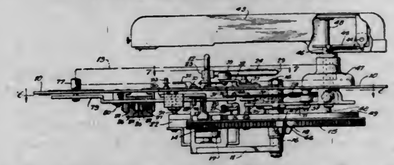


1. In a windshield cleaning system, wiper means and liquid applying means for cooperation therewith, a fluid pressure motor associated with each of said means for actuating the same, common control means for said motors comprising a bearing and a manipulating element supported thereby for relative axial and rotative movement, an arm fixed for rotation with said element and connecting with a control valve on said wiper means motor whereby upon rotative movement thereof said wiper means motor is rendered respectively operative and inoperative, and valve means acted upon by said element upon axial movement thereof for rendering said applying means motor respectively operative and inoperative.

2,323,471
LUBRICATING COMPOSITION
Irvin W. Humphrey, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application February 28, 1941, Serial No. 381,133
16 Claims. (Cl. 252—22)

1. A lubricant comprising a lubricating oil and a metal salt of polymerized rosin in sufficient quantity to substantially thicken the oil.

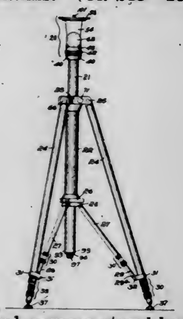
2,323,472
PHONOGRAPH
Carl G. Johnson and James A. Boyajian, Chicago, Ill., assignors to J. P. Seeburg Corporation, Chicago, Ill., a corporation of Illinois
Application May 8, 1941, Serial No. 392,420
17 Claims. (Cl. 274—10)



1. A phonograph comprising a turntable, a

player arm, mechanical means for driving the turntable, means for operatively connecting and disconnecting said mechanical drive means, automatic means operable by said drive means for moving the player arm clear of the turntable after the playing of a record, trip means controlled by the player arm for initiating the operation of said automatic means at the end of the playing of a record, and means for operating said connecting and disconnecting means to disconnected position when the player arm is moved to a position adjacent its initial playing position to arrest the turntable and the player arm in a position adjacent its initial playing position.

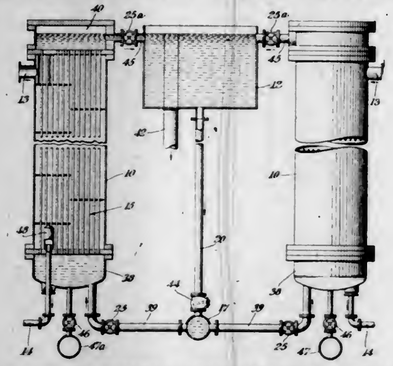
2,323,473
ALL-METAL FOLDING CAMERA STAND
Torkel Korling, Chicago, Ill., assignor to The Folmer Graflex Corporation, Rochester, N. Y., a corporation of Delaware
Application May 6, 1941, Serial No. 392,080
3 Claims. (Cl. 248—183)



2. An all-metal camera stand having a central support column adapted to have tripod legs pivoted thereto, a central column in said support column and having a threaded upper end, an internally threaded head support member received upon said threaded upper end of the column and itself having its upper end circumferentially threaded, a rotatable clamp nut received upon said threaded upper end of the head support member, a pivot member having a threaded axial hole, a cap screw entering said axial hole and securing together said column and its pivot member, a friction washer between the top of said head support member and said pivot member and positioned to be engaged by said rotatable clamp nut for locking or securing said pivot member to said head support member, a lock pin in the head support member to prevent said friction washer from turning when said nut is turned, said pivot member having a transverse, through pivot hole, a clamp screw received in said pivot hole and having two differentially threaded portions, said camera stand having a disk-like top with depending, spaced, parallel, side members provided with means receiving the differentially threaded portions of said clamp screw, said disk-like top having means for securing a camera thereto.

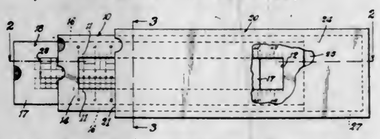
2,323,474
HEAT EXCHANGER
Wheaton W. Kraft, Scarsdale, N. Y., assignor to The Lummus Company, New York, N. Y., a corporation of Delaware
Application July 31, 1941, Serial No. 404,861
6 Claims. (Cl. 196—138)

1. A heat exchange unit including a reservoir, shell and tube heat exchange means mounted adjacent the reservoir, means to introduce condensible hydrocarbon vapors into one end of the shell side of the heat exchange means, means to remove the condensate therefrom, means to introduce cooling water into one end of the tube side of the heat exchange means in indirect contact with and countercurrent to the flow of the hydrocarbon vapors under a velocity to obtain a relatively high heat transfer rate, means to interconnect the other end of the tube side of the heat exchange means with the reservoir, said heat exchange means being at such an elevation that the water, upon discharge therefrom, will fill



the reservoir, means to maintain the normal level of water in the reservoir above the upper end of the heat exchange tubes, said reservoir being detached and at an elevation substantially equal to the top of the heat exchange means, a return-flow conduit between the reservoir and the water inlet end of the heat exchange means, and a self-actuating, normally closed valve in the return-flow conduit, said valve opening under thermo-syphon action of the flow of water upwardly through the heat exchange tubes from the reservoir when the supply of cooling water is cut off, said reservoir maintaining a positive head of liquid on said tubes irrespective of an external supply of cooling water.

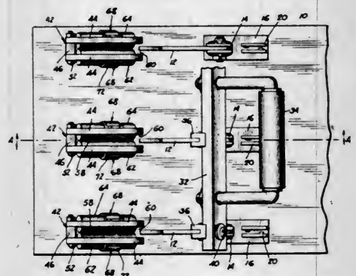
2,323,475
SLIDE RULE FOR WALL PATTERNS AND AREAS
Frederick W. Lang, Chicago, Ill., assignor to Wood Conversion Company, Cloquet, Minn., a corporation of Delaware
Application May 26, 1941, Serial No. 395,132
2 Claims. (Cl. 235—69)



1. A slide rule comprising a main body, and two other parts, one of said other parts providing a line-marking-cursor, and the other part being an elongated slide member relatively slidable with respect to the main body, the main body being marked arithmetically with linear units of length for positioning the line marker to indicate one of the dimensions of a wall, the slide member being marked with one or more sequences of pattern units of wall-forming panel on the same scale-basis as the main body is marked, said slide permitting both the selection

of a length of multiple units of the pattern and centering of the selected length with respect to a dimension marked on the linear scale whereby to enable visualization of the effect and proportions of the said dimension as distributed between said units and border depths, said slide also permitting movement for coincidence of one end of the selected multiple length of pattern units with one end of the said set dimension, whereby the portion of the set dimension required for border may be read.

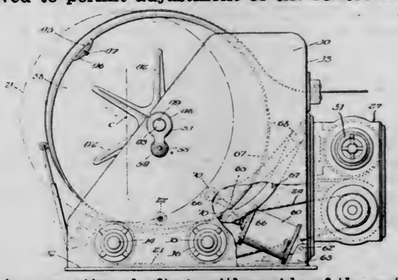
2,323,476
ARC INTERRUPTING DEVICE
William H. Lantz, Jr., East Orange, N. J., assignor to Cole Electric Products Co. Inc., Long Island City, N. Y., a corporation of New York
Application August 7, 1942, Serial No. 454,045
11 Claims. (Cl. 200—151)



1. An arc interrupting device for an electric switch having companion relatively movable contact members, said device comprising a pair of laterally spaced walls between which one of said contact members is positioned and between which the other switch contact member is movable for engagement with and disengagement from the companion contact member, arc-barrier members mounted in said walls, respectively, for movement therein transversely of the space therebetween in the path of said other switch contact, from a first position in which said arc-barrier members are in engagement with each other to a second position in which said arc-barrier members are in laterally spaced relation allowing movement of said other contact member into and out of engagement with said companion contact member, and resilient means for releasably holding said arc-barrier members in said first position.

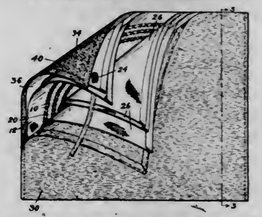
2,323,477
CRADLE REEL
Frederick M. Littell, Detroit, Mich., assignor to F. J. Littell Machine Company, Chicago, Ill., a corporation of Illinois
Application June 24, 1940, Serial No. 341,989
2 Claims. (Cl. 242—78)

1. In a reel of the cradle type for supporting coil stock and the like, a frame member, a plurality of circumferentially disposed shafts journalled by the frame member, axially adjustable supporting rollers on each shaft adapted to contact the periphery of the coil for supporting the same, guiding means for the coil comprising a pair of rotary plates positioned on the respective sides of the coil, said rotary plates depending below the upper surface of the supporting rollers, and a removable insert in the periphery of each rotary plate providing clearance when removed to permit adjustment of the rollers along



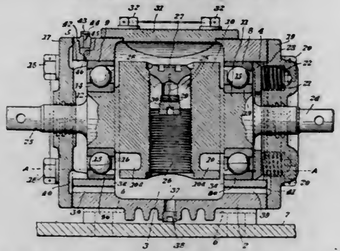
their respective shafts to either side of the rotary plates.

2,323,478
ELECTRIC HEATING PAD
Frederick Lobl, Middleboro, Mass.
Application May 3, 1941, Serial No. 391,728
9 Claims. (Cl. 219—46)



3. An electric heating pad having opposed covers, each arranged for alternate engagement with the body of the user and an interposed heating element, one cover having a flocked surface upon a relatively impervious backing and the other cover being pervious and presenting a surface of long loose fibres.

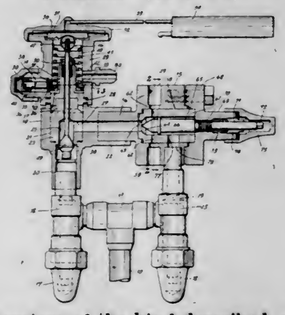
2,323,479
MECHANICAL VIBRATION OR OSCILLATION GENERATOR
Ray A. McCullough, Oakmont, Pa., assignor to Blaw-Knox Company, a corporation of New Jersey
Application December 8, 1941, Serial No. 422,140
6 Claims. (Cl. 74—61)



1. A vibration generating apparatus comprising a housing having a bore therethrough, a rotor within the housing removable endwise through the bore and having its periphery cylindrical and concentric with the bore and of a diameter such that it will just clear the bore, bearings within the bore adjacent each end of the rotor for supporting the rotor and holding it against endwise movement, and an end member at each end of the housing closing the bore and retaining the bearings in place, said rotor hav-

ing its center of gravity eccentric to its axis of rotation, the interior of the housing providing between the bearings an oil reservoir through which the periphery of the rotor revolves.

2,323,480
VALVE CONTROL
Franklin M. MacDougall, Royal Oak, Mo., assignor to Alco Valve Company, Maplewood, Mo., a corporation of Missouri
Application February 28, 1941, Serial No. 380,983
6 Claims. (Cl. 62—8)



4. In a system of the kind described, a distributor having a body, a plurality of outlet ports in the body, a pair of inlet ports in the body, each adapted to communicate with the outlet ports, and a valve in the body adapted to close one inlet.

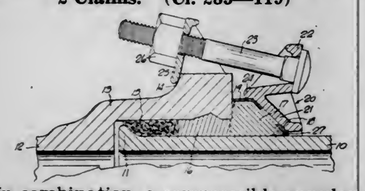
2,323,481
CHEMICAL PROCESS AND COMPOSITION
David M. McQueen, Wilmington, Del., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 14, 1939, Serial No. 261,794
12 Claims. (Cl. 95—88)

1. A photographic developer solution containing a color coupling aromatic amino developing agent and an alkali-soluble condensation product obtained by the action of an aldehyde upon a compound of the general formula:



wherein A is an acid radical selected from the group consisting of carboxylic and sulfonic acids and their water-soluble salts.

2,323,482
GASKET RETAINING RING
Patterson D. Merrill, South Bend, Ind., assignor to M. B. Skinner Company, South Bend, Ind., a corporation of Indiana
Application June 10, 1940, Serial No. 339,707
2 Claims. (Cl. 285—119)

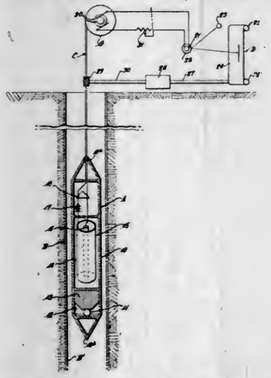


1. In combination, a compressible annular gasket adapted to encircle a pipe, a resilient strip bent circularly with its ends overlapping to form a ring encircling said gasket, one end of said strip having a series of longitudinally spaced apertures therein and the other end having a tongue projecting angularly therefrom and adapted to seat in one of said apertures, to lock said strip ends together, and means for laterally compressing said gasket including a part having a conical surface engaging said gasket and ring to reduce the diameter of said gasket and ring, said tongue flexing to seat in successive apertures during tightening of said compressing means, the component of radial expansion of said gasket normally urging said tongue in locking engagement with the aperture in which it seats.

2,323,483
EXTRACTION AND RECOVERY OF PECTIN
Philip B. Myers and Alvin H. Rouse, McAllen, Tex., assignors to Sardik, Inc., New York, N. Y., a corporation of New Jersey
No Drawing. Application November 3, 1941, Serial No. 417,606
16 Claims. (Cl. 260—210)

1. A process of recovering pectin comprising reacting a pectin complex in an aqueous medium with an ion exchange material.

2,323,484
WELL-LOGGING METHOD AND APPARATUS
Jacob Neufeld, Tulsa, Okla., assignor to Well Surveys, Incorporated, Tulsa, Okla., a corporation of Delaware
Application May 12, 1941, Serial No. 393,127
6 Claims. (Cl. 250—83.6)

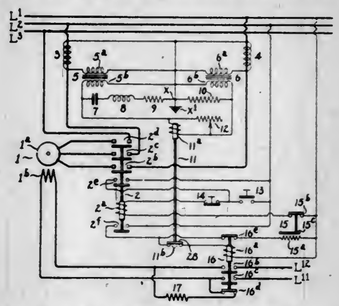


1. Method of geophysical exploration that comprises moving within a well bore a mass of metallic sodium rendered artificially radioactive by bombardment with a stream of fast deuterons; measuring the radiation emanating from the mass reflected by subterranean strata; and correlating the measurements so derived with measurements of depth.

2,323,485
CONTROL MEANS FOR SYNCHRONOUS DYNAMOELECTRIC MACHINES
Eric Pell, Milwaukee, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application July 3, 1942, Serial No. 449,596
10 Claims. (Cl. 172—289)

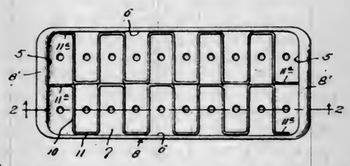
1. In a controller for a synchronous dynamoelectric machine having an armature and a field

winding, the combination with electromagnetic switching means including an energizing winding and means adapted to complete a short-circuit for a field winding of a synchronous dynamo-electric machine and alternately to open said short-circuit and complete an exciting circuit for supplying said field winding with exciting current, of two current transformers, each having a primary winding and a secondary winding, one each of said primary windings connectable to one of the terminals of the armature winding of a synchronous dynamo-electric machine, to be subjected to an influence of the armature current, the secondary windings of said transformers and the aforementioned energizing



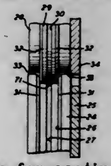
winding of said switching means being connected to form the three sides of a delta-connected network, a non-inductive resistor connected in parallel with one of said secondary windings, and a condenser, an inductance and a resistor connected in series with each other and in parallel with the other of said secondary windings, said delta-connected network being adapted to respond to the frequency and rotation of the voltages induced in said secondary windings by currents flowing in said primary windings of said transformers to bias said electromagnetic switching means to effect said short-circuit and alternately to complete said exciting circuit.

2,323,486
REFRIGERATING TRAY
George Pizarro, Los Angeles, Calif.
Application June 12, 1939, Serial No. 278,743
2 Claims. (Cl. 62—108.5)



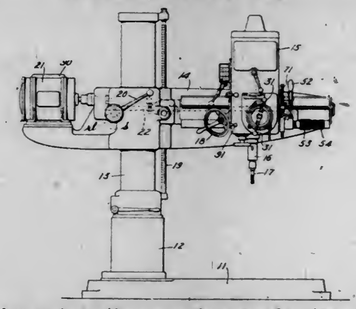
1. The combination of a refrigerator tray and a divider comprising a single zig-zag strip of flexible Celluloid affording longitudinal and transverse walls defining substantially triangular expansible ice-forming chambers within said tray, certain of said wall portions being disposed each at an angle with respect to the longitudinal axis of the divider, and the rest of said wall portions being disposed in substantial parallel relation with said longitudinal axis, the last-mentioned wall portions being disposed in contiguous relation to each other at their vertical edges, whereby the wall portions cooperate to form a plurality of completely closed substantially triangular shaped ice-forming chambers.

2,323,487
STRAND COATING APPARATUS
Vincent A. Rayburn, Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application April 30, 1941, Serial No. 391,033
8 Claims. (Cl. 91—51)



2. An apparatus for coating a textile covered strand, comprising a container for a supply of viscous coating material, a lower roll disposed partially in the coating material, said roll having formed therein an annular peripheral groove provided with an annular die-forming recess formed in a wall thereof, an upper roll having formed thereon an annular peripheral tongue portion disposed in the said groove and having an annular die forming recess formed therein, said recesses cooperating with each other to form a die having a predetermined configuration to control the quantity of the coating material applied to a textile covered strand passing through the die, the groove and tongue portion being adapted to maintain alignment of the die-forming recesses during relative rotational movement of the rolls, means for advancing a textile covered strand longitudinally through the die, and means for rotating the rolls to cause the groove in the lower roll to feed the coating material from the container to the strand and to cooperate with the tongue portion in the upper roll to force the coating material toward the strand passing through the die.

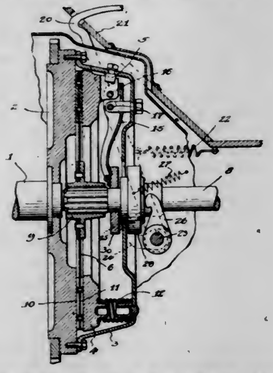
2,323,488
AUTOMATIC REVERSE FOR TAPPING MACHINES
Lawrence Lee Schauer, Wyoming, Ohio, assignor to The Cincinnati Bickford Tool Company, Cincinnati, Ohio, a corporation of Ohio
Application March 9, 1937, Serial No. 129,825
16 Claims. (Cl. 10—136)



1. An automatic reversing mechanism for a tapping machine having a rotatable and axially translatable tap spindle, combining reversible power means connected with said spindle for driving same; control means for said power means including an element operable selectively to start, stop or reverse spindle movement; means for feeding said spindle axially; means automatically operable at a preselected point in the axial movement of said spindle for shifting said element from a forward position across neu-

tral to a reverse position; and means operated by the axial motion of said spindle and effective prior to the said shifting of the said element across neutral to continue the operation of said spindle in a forward direction when said element is withdrawn from its forward position.

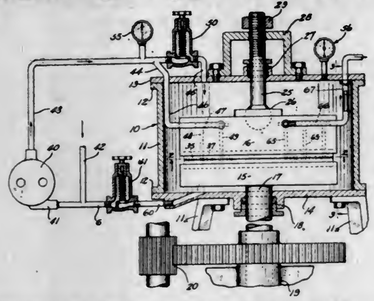
2,323,489
CLUTCH CONTROL
Charles J. Schmidt, Roselle Park, and Gilbert Murray, Newark, N. J.
Application May 14, 1942, Serial No. 442,916
3 Claims. (Cl. 192—110)



1. In combination with a friction clutch having driving and driven members including friction facings subject to wear, one of the members being axially shiftable for clutch release and engagement, means for packing the members together for clutch engagement, release means operable to shift the said shiftable member for clutch release, a thrust member for cooperation with the release means, a control member operable to shift the thrust member for clutch release, said control member having a substantially fixed position when the clutch is engaged with the release means and thrust member spaced apart, an adjustable connection between the thrust member and the control member; an electrical indicating lamp, a circuit therefor, said circuit including and running through the release means and the thrust member whereby the circuit is closed and the lamp energized when the release means and thrust member are in contact with each other, and whereby the circuit remains closed when the facings are worn to a point where the release means remains in contact with the thrust member when the clutch is engaged to show the necessity of adjusting said adjustable connection to re-establish a normal spacing between the release means and the thrust member during clutch engagement.

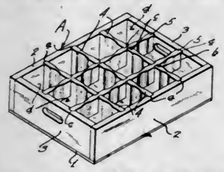
2,323,490
GRINDING MILL
Henry Herman Scherff and Gilbert F. Hoffmann, Milwaukee, Wis.
Application July 22, 1940, Serial No. 346,722
11 Claims. (Cl. 83—7)

1. A mill of the character described comprising a housing defining a pressure-tight chamber, cooperable grinding elements in said chamber, means for holding one of said grinding elements against rotation while providing for its movement toward and away from the other, means for rotating the other grinding element, said grinding elements having their confronting faces provided with concentric registering grooves, means for supplying material to be ground under pressure to alternate registering grooves and also to said



pressure chamber, means for carrying off ground material from the other of said grooves, and pressure relief means for said chamber leading back to the source of supply.

2,323,491
BEVERAGE-BOTTLE CASE
Leroy O. Schneeberger, St. Louis, Mo.
Application October 31, 1941, Serial No. 417,368
2 Claims. (Cl. 217—19)

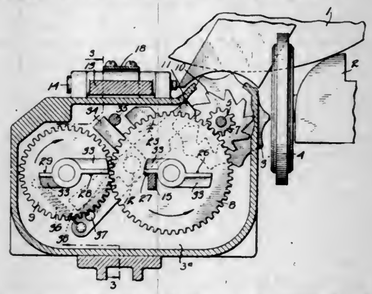


1. A bottle case comprising a bottom wall, upstanding end and side walls cooperating with said bottom wall and forming a substantially rectangular tray, and longitudinally and laterally extending partitions having connection at their ends with said end and side walls and having intermediately crossing connection with each other for dividing the tray of the case into a plurality of cell-like bottle accommodating compartments with the opposed sides of the partitions spaced apart a distance less than the diameter of the bottle to be accommodated, said partitions being of compressible material and having the medial portions thereof intermediate the crossing connections compacted and compressed thereby providing concave recesses and increasing the space within each cell to a diameter slightly greater than required to accommodate a bottle without cutting or removal of material from the partitions whereby the full strength of the material of the partitions intermediate the crossing connections is retained.

2,323,492
COUNTING MECHANISM
Bruno E. Seemel, Brooklyn, N. Y., assignor to Automatic Coinwrapping Machine Corporation, New York, N. Y., a corporation of New York
Application September 1, 1939, Serial No. 293,032
6 Claims. (Cl. 133—8)

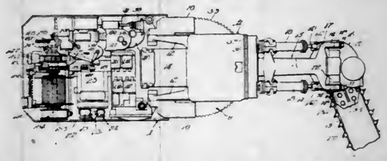
2. In a counting mechanism, a support, a member mounted on said support and driven as the counting proceeds, and provided with a shoulder immovable on the member but moving in a path as said member is driven, stop pin means carried by said support and including a stop pin

positionable in the path of said shoulder to stop counting, said means being movable to remove the stop pin from said path to permit resumption of counting, a movable member, also carried by said support and held at a substantially fixed place with respect to the support as said shoulder approaches said stop pin, biased to move



into the path of said stop pin means, on the movement thereof to remove the stop pin from the path of said shoulder, to prevent the replacement of the stop pin in the shoulder path, and means operable by the counting mechanism to render the second mentioned member ineffective to control the position of the stop pin with respect to said shoulder.

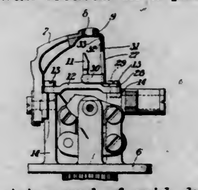
2,323,493
KERF-CUTTING MACHINE
William W. Sloane, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application December 9, 1940, Serial No. 369,194
41 Claims. (Cl. 262—28)



2. In a kerf-cutting machine, a base frame, a tilting frame pivotally supported on said base frame and projecting forwardly thereover for tilting adjustment on a transverse axis, an extension arm supported on the front end of said tilting frame for rotation on a generally horizontal axis, a cutter head pivotally supported on said extension arm in advance of said base frame for tilting adjustment on a transverse axis, and a cutter bar pivotally supported on said cutter head for swinging movement in a plane parallel to said last named transverse axis, and means for adjusting said cutter head on its last named axis including a telescopic power device extending between said extension arm and said cutter head and pivotally connected to the latter on the same side of the transverse axis of the latter as said cutter bar.

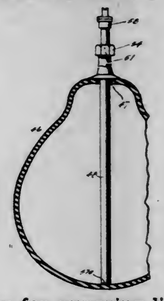
2,323,494
GIMP-CORD GUARD FOR BUTTONHOLE SEWING MACHINES
Edward Paul Spaine, Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application October 10, 1941, Serial No. 414,442
10 Claims. (Cl. 112—161)

1. In a sewing machine, a buttonlike needle-throat member having a needle-clearance aperture and a cord-guiding duct terminating at its delivery end in said needle-clearance aperture, and a member disposed in advance of the receiving end of said cord-guiding duct and providing an abutment wall located in a plane extending



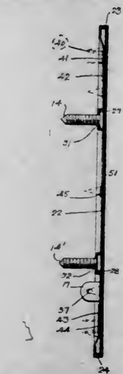
across the receiving end of said duct and serving to back up the cord delivered to said duct and preclude accidental displacement of the cord in the needle-throat member.

2,323,495
FLUID EXPELLING TIRE ASSEMBLY
Aaron D. Steidinger, Fairbury, Ill.
Original application September 25, 1937, Serial No. 165,705. Divided and this application May 23, 1941, Serial No. 394,826
5 Claims. (Cl. 152—330)



3. Apparatus for removing liquid from an inflatable tire having a valve stem, said apparatus comprising a flexible tube adapted to be inserted through the valve stem to the lowest portion of the tire cavity, and means for securing the tube to the valve stem.

2,323,496
CORNICE
Milton H. Stern, Brooklyn, and Jules Nisenson, New York, N. Y.; said Nisenson assignor to said Stern
Application April 15, 1940, Serial No. 329,626
13 Claims. (Cl. 160—39)



1. An adjustable cornice for use with a window, comprising a central cornice element having con-

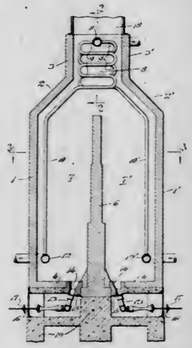
necting means movably attached thereto; and a pair of end cornice elements each attached to said central element by said connecting means.

2,323,497
CUTTING TOOL
Phillips E. Strout, Palisades Park, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application June 18, 1941, Serial No. 398,557
8 Claims. (Cl. 30—124)



1. A pair of cutting pliers having jaws formed with abuttable cutting edges and having a face on each jaw meeting a corresponding face on the other jaw to form a dihedral angle at the joined cutting edges when abutted, in combination with a clipping gripping member of spring sheet metal secured on the said face of one of the jaws and formed to have a gripping edge abutted approximately against the said face of the other jaw when the jaws are closed.

2,323,498
HEATING OF FLUIDS
George W. Thompson, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application June 16, 1941, Serial No. 398,188
6 Claims. (Cl. 122—356)

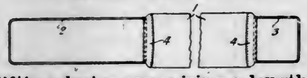


5. A heater for fluids comprising a furnace structure having a lower portion and an upper portion, a vertical wall dividing said lower portion into a pair of combustion zones, a manifold in said upper portion of the furnace structure above said wall, means for firing the combustion zones and for passing combustion gases from both said zones through said upper portion of the furnace structure, a bank of substantially vertical tubular elements in each of the combustion zones and a plurality of fluid conduits, each comprising serially connected tubes, in said upper portion of the furnace structure, the tubular elements of each of said banks and said fluid conduits being in communication with said manifold.

2,323,499
PRODUCTION OF ALUMINUM SULPHATE
William S. Wilson, Brookline, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application August 2, 1940, Serial No. 350,077
7 Claims. (Cl. 23—123)

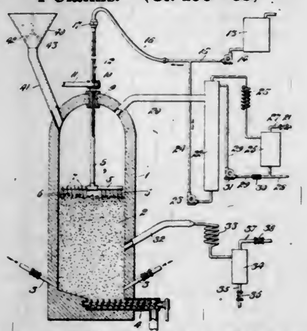
1. The method of preparing a water-soluble basic aluminum sulphate of high alumina content from solutions of basic aluminum sulphate which which comprises forming a body of aluminum sulphate liquor of 21 to 22% basicity and 11 to 17% Al_2O_3 content containing crystalline seed, continuously adding to said body aluminum sulphate liquor of 22 to 34% basicity and continuously evaporating the resulting solution at such a rate as to maintain an Al_2O_3 content of 11 to 17% in the liquid phase thereof, whereby a supersaturated solution of high basicity and crystals of aluminum sulphate having an average basicity of at least 22% are formed, and then separating the resulting crystals and subjecting them to dehydrating conditions.

2,323,500
LIFTING DEVICE
Albert George Trigg, deceased, late of London, England, by Lucy Marie Trigg, administratrix, London, England
Application November 26, 1941, Serial No. 420,581
In Great Britain March 21, 1940
9 Claims. (Cl. 294—15)



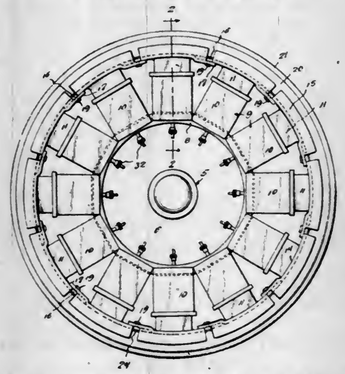
1. A lifting device comprising a length of flexible material and two handles of rigid material, at least one of said handles being of such length that it can extend from one side to the other of the article to be lifted, each handle having two spaced cross pieces at least one of which is at one end of the handle, the end cross piece of each handle being secured to one of the ends only of the length of flexible material so that this material is free to flex between its ends and so that the handles are free to form extensions of the said length of flexible material, and the other cross piece of each handle providing a hand grip.

2,323,501
METHOD OF DISTILLING PETROLEUM RESIDUES OR THE LIKE
Malcolm H. Tuttle, New Rochelle, N. Y., assignor to Max B. Miller & Co., Inc., New York, N. Y., a corporation of Delaware
Application July 10, 1941, Serial No. 401,701
4 Claims. (Cl. 196—55)



3. Method of distilling tar which comprises maintaining a deep, stationary bed of loose granular coke, intermittently rabbling successive portions of the upper portion of the bed, feeding tar continuously to the surface of the bed so that it always strikes a freshly rabbled portion thereof, permitting the tar fed to each portion of the bed to become substantially dry before again rabbling this portion of the bed, and burning coke in the bottom of the bed to maintain substantially constant temperature conditions in the top of the bed.

2,323,502
MOTOR VEHICLE WHEEL
Charles H. Wann, Arcadia, Ind., assignor of one-half to Merrill N. Wann, Winchester, Ind.
Application July 13, 1942, Serial No. 450,736
2 Claims. (Cl. 152—8)



1. In a motor vehicle wheel, a main annular rim, means for mounting said rim on a hub, radially arranged spokes secured on said rim and each including telescopic sections, sleeves mounted in said sections, elastic means connecting said sleeves and coacting therewith in forming air chambers in the sections of the spokes, means for inflating the air chambers, channeled plates secured to said spokes, means for slidably connecting the channeled plates to permit the latter to coact with each other in forming a sectional annular tread carrying rim, and an annular rim including means for mounting an annular tread thereon carried by said sectional rim.

2,323,503
METHYLENE BIS-AZOLES
Cyril D. Wilson, Metuchen, N. J., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 10, 1939, Serial No. 303,872
7 Claims. (Cl. 260—306)

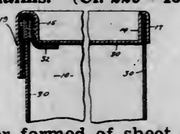
1. As new chemical compounds the unsymmetrical methylene bis-μ-azoles containing a single hetero-nitrogen atom having a double bond attached thereto.

2,323,504
PREPARATION OF OMEGA-ACYL-AZOLES
Cyril D. Wilson, Metuchen, N. J., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 10, 1939, Serial No. 303,873
5 Claims. (Cl. 260—307)

1. The process which comprises reacting an acyacetic acid ester of the general formula: $R—CO—CH_2COOR'$ with an aromatic amino compound of the general formula:

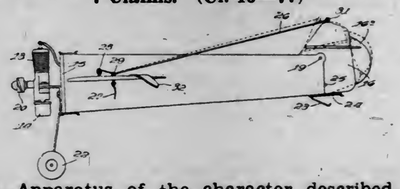
wherein the above formula R—CO is an organic acyl radical, R' is a hydrocarbon radical and X is a chalcogen.

2,323,505
SEALING STRUCTURE FOR CONTAINERS
Isaac L. Wilcox, Fulton, N. Y., assignor to Oswego Falls Corporation, Fulton, N. Y., a corporation of New York
Application April 5, 1940, Serial No. 328,079
7 Claims. (Cl. 229—43)



1. A container formed of sheet fibrous material comprising a body member, a top member, said members being secured together along confronting surfaces, a strip of impervious sheet material initially secured to the confronting surface of one of said members, the exposed surface of said strip being coated with a substance permanently sealable to the confronting surface of the other member and being effective to secure the top member to the body member, said substance being readily separable from said strip when the top member is removed from the body member.

2,323,506
MINIATURE AIRPLANE
Kenneth A. Willard, East St. Louis, Ill., assignor to Comet Model Airplane & Supply Company, Incorporated, a corporation of Illinois
Application February 9, 1942, Serial No. 430,105
7 Claims. (Cl. 46—77)

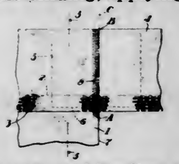


1. Apparatus of the character described for controlling a miniature airplane having a driving motor, wing and fuselage portions, and a movable control element, including: a holding cord fastened to one wing near the tip thereof; and a control cord movably attached to the same wing and fastened to said movable control element.

2,323,507
REINFORCED SEAM
Alfred R. Wood, Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application March 4, 1941, Serial No. 381,619
2 Claims. (Cl. 112—262)

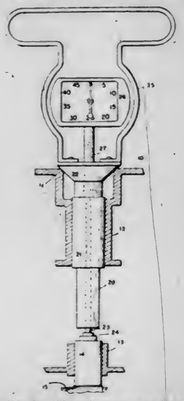
1. The method of finishing a stitched article of the class described including the steps of applying a binding about the end of a body-material and securing the same with a line of stitch-

ing, positioning within said binding a piece of reinforcing material of less length than said binding and stitching the same along one of its edges to said body-material with the line of stitches which secures the binding, applying a line of tack-



ing stitches through said binding and reinforcing material transversely of said binding and in substantial register with a side edge of said body-material, and cutting said binding and reinforcing material closely adjacent the line of tacking stitches.

2,323,508
VALVE GAUGE
Ralph E. Acker, Detroit, Mich.
Application November 28, 1941, Serial No. 420,803
2 Claims. (Cl. 33—181)

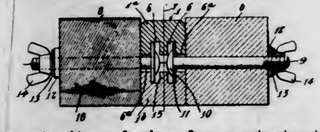


1. A valve length indicator consisting of a stem provided with an enlarged cylindrical portion intermediate its ends and a conical head the angle of which is the same as the angle of a valve seat to be tested, said stem and head being provided with an axial bore; a rod slidably mounted in said bore and provided with a push-rod contacting foot, an indicator mounted upon said head and actuable by said rod and protective means fixed to said head and embracing said indicator.

2,323,509
PROCESS OF PROMOTING PLANT GROWTH
Dell Alvos, Guadalupe, Calif.
No Drawing. Application June 23, 1941, Serial No. 399,399
4 Claims. (Cl. 47—58)

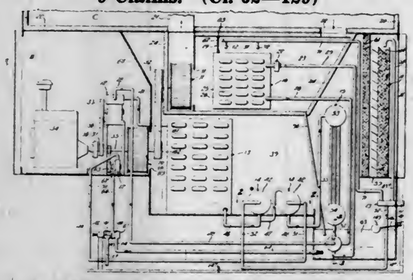
1. The process of treating land for the purpose of promoting plant growth which comprises: dissolving sulphur dioxide in water of sufficient volume to provide adequate irrigation of said land; and thereafter applying the solution so formed to the land in accordance with good irrigation practice, the amount of sulphur dioxide so supplied to the irrigation water being sufficient to produce a hydrogen ion concentration about the roots of the plants on the land after irrigation having a value of from 5.2 to 7.6 pH.

2,323,510
STARTING DEVICE FOR RUNNERS
Richard W. Arnett, Inglewood, Calif.
Application May 18, 1942, Serial No. 443,384
3 Claims. (Cl. 272—59)



1. In a starting device for contestants in a foot-race on a track, the combination of a bar adapted to be secured to the ground just to the rear of the starting line, said bar having a guideway located at each side of its longitudinal vertical medial plane, a block located on one side of the bar having means located in the adjacent guideway and movable longitudinally in the same for guiding the block to position the same as required for one of the feet of the racer, a block located on the other side of the bar and having means located in its corresponding guideway for guiding that block to position the same as required for the other foot of the racer, each of said means being located and confined to its own side of the said medial plane so that the said means may be moved past each other when the blocks are being adjusted to their desired position; and means associated with both said first-named means for enabling the same and said blocks to resist the thrust of the racer's foot in starting.

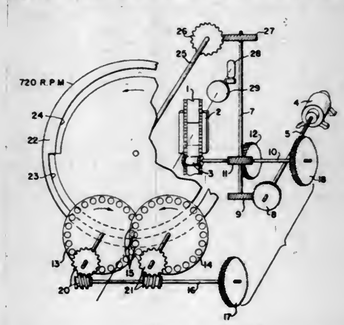
2,323,511
REFRIGERATING AND AIR CONDITIONING APPARATUS
Carroll W. Baker, Los Angeles, Calif.
Application October 24, 1941, Serial No. 416,366
9 Claims. (Cl. 62—129)



1. A refrigerating apparatus comprising a refrigerant handling system including a relatively stationary evaporator and means for circulating refrigerant to and from the evaporator, a cooling system handling a liquid cooling medium, and including means for effecting an exchange of heat from the refrigerant being handled by the first named means and the cooling medium, and means responsive to the frost condition of the evaporator for discharging the cooling medium onto the evaporator to defrost the same.

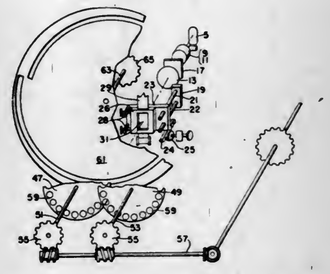
2,323,512
CONTINUOUS PROJECTOR
Harry S. Bamford, Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation, a corporation of Delaware
Application August 14, 1940, Serial No. 352,575
3 Claims. (Cl. 88—16.8)

1. A continuous projector for motion picture film comprising a source of light, means for imparting a continuous motion to a film, a plurality of optical systems arranged successively to project images of said film, means for selecting successive ones of said optical systems for image projection therethrough during successive intervals of time and for disclosing varying areas of said selected systems during the respective intervals of their effectiveness, and means for projecting an image of said source of light substantially in



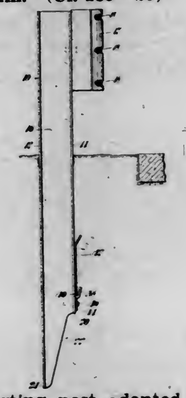
the plane of said selected optical systems and covering said systems, said disclosing means being so constructed that the variations of said disclosed areas of said selected optical systems are in accordance with the relative positions of said selected systems with respect to said image of said light source, thereby to maintain the light flux emanating from said projector substantially constant.

2,323,513
CONTINUOUS PROJECTOR
Harry S. Bamford, Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation, a corporation of Delaware
Application August 14, 1940, Serial No. 352,576
2 Claims. (Cl. 88—16.8)



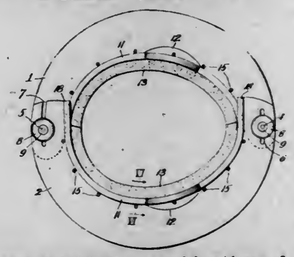
1. A continuous projector for motion picture film comprising means for imparting motion to a film, a light source having a non-uniform intensity distribution, means for projecting through said film an image of said light source on a given plane, a pair of movable lens discs disposed substantially in said given plane in such overlapping relation to each other that during the interval of effectiveness of any pair of lenses in said discs, the effective aperture varies the light flux emanating from said light source through said projection means and said lenses inversely with the intensity distribution of said light source and means for selecting successive pairs of lenses in said discs for image projection therethrough during successive intervals of time.

2,323,514
METAL HIGHWAY GUARD SUPPORT
Alan E. Brickman, Monongahela, Pa., assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
Original application April 29, 1941, Serial No. 390,977. Divided and this application January 31, 1942, Serial No. 429,039
1 Claim. (Cl. 189—29)



A metal supporting post adapted to support a guard rail element, the post having a web and parallel flanges constituting an H-section, one of the said flanges having spaced fulcrum ears struck outwardly therefrom, an anchor plate with a downwardly depending tongue adapted to be positioned between said ears, and means for securing said tongue to the post at a point below the ears whereby the anchor plate is yieldingly secured to the post with freedom to permit outward movement under force of impact of a vehicle colliding with either the post or the guard rail element supported thereby so as to thus resist upward movement of the post, said plate having shoulders on opposite sides of said tongue seated on said ears and adapted to fulcrum thereon when the free end of the plate moves outwardly.

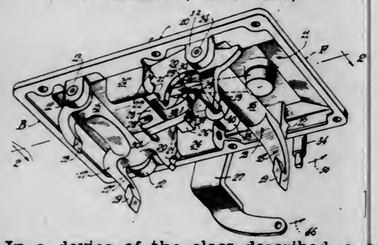
2,323,515
HAIR DRIER SHIELD
Gwen A. Cary, Topeka, and Louis H. Stanley, Madison, Kans.
Application October 21, 1940, Serial No. 362,054
1 Claim. (Cl. 2—174)



In a head shield, the combination of a pair of arcuate plates hinged together at one end and detachably connected at the opposite end, each plate having an upstanding wall at the inner margin terminating at the upper edge in an inturned bead, a gasket of soft resilient material completely lining the upstanding walls and the beads and composed of sections abutting endwise together adjacent the ends of the plates, a metal

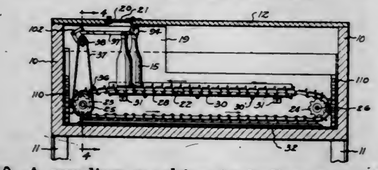
ribbon molded in each gasket section, and a series of spring clips extending outwardly through the ribbons, gasket sections and the walls of said plates and frictionally engaging said walls for withdrawal therefrom to permit the gasket sections to be removed from position.

2,323,516
GEARSHIFT MECHANISM
Salvatore Cipullo, Chicago, Ill.
Application October 13, 1941, Serial No. 414,770
4 Claims. (Cl. 74—473)



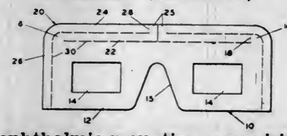
1. In a device of the class described, a cover plate having a relatively shallow recess portion, a rockable shaft supported by said cover plate within said shallow recess portion, a shifting sleeve on said shaft, said sleeve on said shaft having means slidably keying the sleeve to said shaft and provided with a pair of bifurcated members, shaft supporting means adjacent each end of said plate and depending from said cover a relatively short distance therebeneath in the form of a pair of trunnion cradles, a shaft member extending transversely beneath the plate in each of said trunnion cradles, a shifting yoke rockably mounted on each of a corresponding one of said transversely extending shaft members and including pin members adapted to engage in the bifurcation of said bifurcated members, means for yieldably urging the bifurcation of one of said bifurcated members into engagement with one of said pin members, and manually shiftable means for shifting said sleeve against action of said yieldable means to dispose the bifurcation of the other one of said bifurcated members into engagement with the pin member of the opposite shifting yoke, and means for rocking said shaft for imparting rockable motion to either of said yokes when the pin of either of said yokes is disposed in the bifurcation of its respective bifurcated member.

2,323,517
VENDING MACHINE
James R. Clem, Dallas, Tex.
Application March 23, 1939, Serial No. 263,630
10 Claims. (Cl. 312—36)



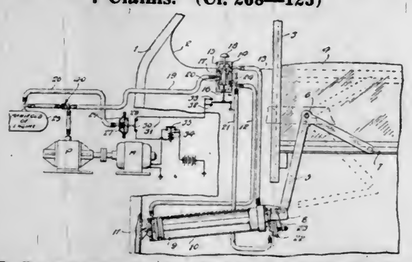
10. A vending machine including, a casing, a plurality of conveyors mounted within the casing for receiving bottled goods to be dispensed, said casing having openings therein alined with the conveyors whereby the bottles carried by the conveyors may be moved therebeneath so that said bottles may be removed from the casing, individual operating means for each conveyor, a common actuating shaft movable through the individual operating means and having individual means for engaging said individual operating means, whereby the individual operating means may be selectively actuated by moving the shaft to selectively engage its individual means with said individual operating means, a door closing each opening, and means actuated by the operating means of each conveyor for preventing removal of more than a single bottle from the selected conveyor.

2,323,518
SPECTACLES
Clarence W. Cochran, Arlington, Mass., assignor to Polaroid Corporation, Dover, Del., a corporation of Delaware
Application November 12, 1941, Serial No. 418,691
6 Claims. (Cl. 88—41)



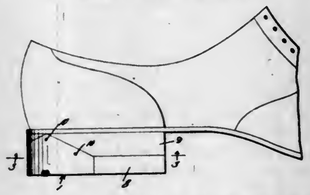
1. An ophthalmic mounting comprising a substantially rectangular, integral blank of sheet material, a portion of said blank defining a spectacle frame and being provided with eye and nose apertures, the remainder of said blank defining temples, each of said temples comprising a plurality of segments, one of said segments comprising the ear-engaging temple portion and forming a portion of the top of said blank, the other of said segments lying in parallel relation with said first-named segment, and means providing fold lines between said segments and between said second-named segment and said frame portion whereby said temples may be unfolded and extended for use.

2,323,519
VACUUM OPERATED WINDOW REGULATOR
Roy H. Dean, Detroit, Mich., assignor to Ternstedt Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application January 24, 1941, Serial No. 375,710
7 Claims. (Cl. 268—125)



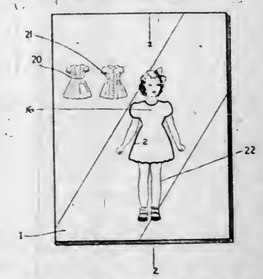
5. In a vacuum operated window regulator operated by engine suction, the combination of means for raising and lowering the window, a vacuum operated motor having a connection with the engine manifold for causing atmospheric pressure to operate the mechanism, supplementary means connecting with said motor for producing a vacuum wholly independent of the engine suction when the vacuum in the manifold becomes ineffective to operate the motor, a valve for controlling the application of the vacuum to the motor to raise or lower the window and means for automatically causing the operation of the supplementary means when the vacuum in the manifold becomes ineffective, comprising an electric circuit controlling the operation of said supplementary means and including two switches, one of which is closed when the vacuum from the engine fails and the other is closed when the said valve is operated.

2,323,520
GUARD FOR SHOE HEELS
Alfred H. Deeley, Hawthorne, N. Y.
Application July 7, 1942, Serial No. 450,028
1 Claim. (Cl. 36—75)



The combination with a shoe heel including a rubber heel lift on the bottom thereof, of a plate-like guard including a longitudinally curved bar-like base substantially rectangular transversely and mortared into the rear side portion of said lift, said base being of substantially the same thickness as said lift, said guard including a lip extending from the upper outer edge portion of said base and having top edges converging to a point, said lip being mortised into the side of the heel above said lift and affixed thereto.

2,323,521
DRAWING SET
Alma Mae De Journette, Atlanta, Ga.
Application January 1, 1942, Serial No. 425,323
2 Claims. (Cl. 35—26)



1. A drawing book comprising front and back covers, a writing tablet secured to the inside of the back cover including a plastic base having an opaque sheet covering the same adapted to record an impression imposed thereon, and a series of stencil sheets interposed between the front and back covers in superposed relation, said stencil sheets and cover having alined cut out portions defining a drawing field in register with said writing tablet.

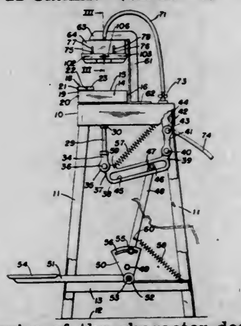
2,323,522
FLAT DOLL
Alma Mae De Journette, Atlanta, Ga.
Application February 23, 1942, Serial No. 431,962
11 Claims. (Cl. 46—157)

1. A flat doll of the character described comprising a head, an opening in the upper part of said head, strands of hair passing through said



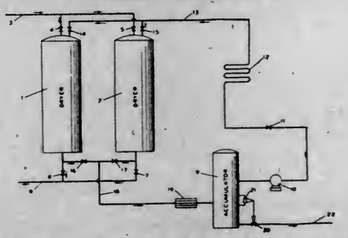
opening and positioned to extend down across both sides of the head.

2,323,523
MOLDING APPARATUS FOR INDIVIDUAL EDIBLE SPREADS
Henry H. Doering and Bert J. Skoglund, Chicago, Ill., assignors to Charles Doering and Henry H. Doering, both of Chicago, Ill.
Application March 27, 1939, Serial No. 264,412
11 Claims. (Cl. 31—7)



1. In a device of the character described, the combination with a supporting member, of die supporting plate means associated with said supporting member, a plurality of uniformly spaced dies detachably secured to said supporting plate, cutting blades interposed between said spaced dies, said cutting blades and die supporting plate being mounted for movement relative to each other on said supporting member, and a platen movably mounted relative to said supporting member for displacing slabs of plastic material in the path of said cutting blades and surface impressing dies.

2,323,524
DRYING PROCESS
George F. Downs, Jr., Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application February 24, 1941, Serial No. 380,384
2 Claims. (Cl. 34—37)



1. In the method of dehydrating hydrocarbon liquids by contact thereof with a desiccant, the

steps which comprise regenerating the desiccant by heating a portion of the hydrocarbon liquid to form vapor, contacting the hydrated desiccant with said vapor to remove water therefrom, condensing the water-containing hydrocarbon vapor, separating the condensed hydrocarbon from the condensed water, and again utilizing the so treated desiccant for the dehydration of said hydrocarbon liquid.

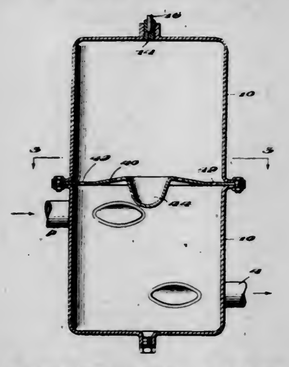
2,323,525

FEEDING OF FUEL TO ENGINES

William K. Ebel, Kingsville, and Arch E. Houstle, Jr., Baltimore, Md., Nathan F. Scudder, Los Angeles, Calif., and William B. O'Neal, Baltimore, Md., assignors to The Glenn L. Martin Company

Original application April 29, 1938, Serial No. 205,032. Divided and this application February 10, 1941, Serial No. 378,304

2 Claims. (Cl. 183—2.5)



1. In a fuel feed system, a gas escape device comprising a chamber, a horizontal partition dividing said chamber into upper and lower compartments, tangentially arranged fuel inlet and outlet conduits arranged in said lower compartment, an integral centrally positioned depending well portion having a closed bottom in said partition extending into the lower compartment of the chamber, a plurality of openings in said partition disposed around said depending well portion and a gas outlet leading from the top of the upper compartment of said chamber.

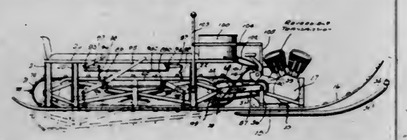
2,323,526

PROPULSION MECHANISM FOR MOTOR TOBOGGANS

Carl J. E. Eliason, Sayner, Wis., assignor to The Four Wheel Drive Auto Co., Clintonville, Wis., a corporation of Wisconsin

Application May 12, 1941, Serial No. 393,053

24 Claims. (Cl. 305—10)



1. In a propulsive device, the combination with spaced chains and cleats connecting the chains, of an intervening flexible belt connected with the cleats and comprising an auxiliary supporting surface.

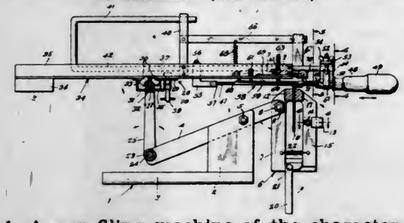
2,323,527

SAW FILING MACHINE

Rolo S. Ewers, Glendale, Ariz.

Application June 2, 1942, Serial No. 445,489

3 Claims. (Cl. 76—31)



1. A saw filing machine of the character described comprising a supporting structure including a pair of bars pivotally mounted, at an intermediate point, for swinging adjustment in a vertical plane, means for mounting a saw to be filed on one end of the bars, a track on the other ends of said bars, a carriage operable on said track, a slide operable on said carriage, and a file mounted on said slide and engageable with the saw.

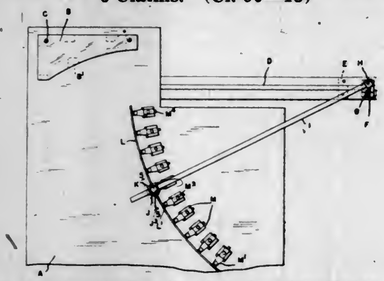
2,323,528

APPARATUS FOR FORMING TEMPLATES

Frederick A. Faulhaber, Detroit, Mich., assignor to The Gear Grinding Machine Company, Hamtramck, Mich., a corporation of Michigan

Application June 4, 1941, Serial No. 396,630

6 Claims. (Cl. 90—13)



1. An apparatus for forming templates comprising a table, means for positioning and securing a template blank thereon, a flexible bar, means for conforming said bar to an arcuate curve of predetermined radius, means for rigidly securing said arcuate bar to said table in predetermined relation to said template blank, a blank cutter, and a flexible band connecting said cutter to said rigid arcuate bar to permit of wrapping about the latter with said cutter moving in operative relation to said blank to fashion the same to an involute curve.

2,323,529

APPARATUS FOR VIOLET RAY TREATMENT

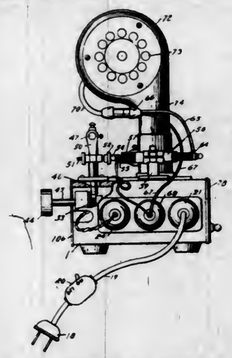
Christian G. Filzer, Erie, Pa.

Application December 26, 1939, Serial No. 310,936

5 Claims. (Cl. 175—363)

5. In a current generator designed for use in a violet ray apparatus of the type having a violet ray applicator tube, a resonance coil activating such tube and a lead from such coil to a current generator, the current generator comprising a magnetic coil, a vibrator acting with the magnetic coil, an operating rod for the vibrator, said rod putting the vibrator into action initially and controlling the vibrator in action to control the

ray, an electric motor, a fan driven by the motor, a connection from the fan directing air on the magnetic coil, a current supply for the magnetic coil and motor, a switch controlling the supply, said switch comprising a rock arm in the path of the operating rod, a shaft actuated by the rock arm, a switch arm on the shaft, a switch rod



moved by the switch arm, means for adjusting the relation of the switch rod and the arm, a switch closed by the switch rod, yielding means for the switch rod permitting a continued movement thereof after contact to permit of a control movement of the operating rod.

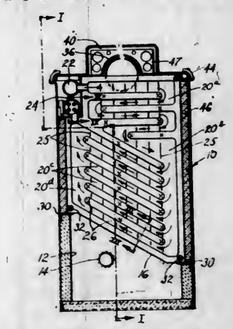
2,323,530

HEATING APPARATUS

Stewart P. Foltz, New Castle, Pa.

Application November 2, 1940, Serial No. 363,987

14 Claims. (Cl. 122—260)



8. A heat transfer unit including a pair of metal plates abutting face to face with the plates being pressed outwardly in juxtaposed areas to form a relatively long undulating passage and adapted to be connected at one end to an inlet conduit and terminating at its other end at the top of a substantially vertical passage at one edge of the unit, the vertical passage being connected to a plurality of upwardly inclined passages in turn connected to a second substantially vertical passage adapted to be connected at its top to an outlet conduit.

2,323,531

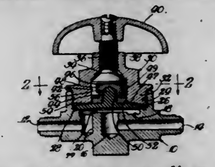
DIAPHRAGM VALVE

George E. Franck, Riverside, Ill., assignor to The Imperial Brass Manufacturing Company, Chicago, Ill., a corporation of Illinois

Application September 8, 1941, Serial No. 409,968

2 Claims. (Cl. 251—24)

1. A diaphragm valve comprising a valve body having an inlet passage, an outlet passage, a centrally disposed recess joining one of said passages, an annular concentric recess joining the other of said passages and a flat, relatively wide annular valve seat separating said recesses, said body having an opening on the side adjacent the valve seat, a shoulder at the bottom of said opening adjacent the outside circumference thereof and a raised bead on said shoulder spaced inwardly from the outside circumference, a bonnet for the valve having a portion fitting into said opening, a relatively flat outer rim on said portion above and adjacent said combined shoulder and bead, a concave face and a pocket centrically disposed relative to said face, a valve in said pocket comprising a stem, a handle on the stem, a foot-piece on the stem within said pocket having a central threaded recess and a flat an-



nular pressure face surrounding the recess located above the valve seat, a diaphragm of non-metallic resilient material of substantial thickness having normally flat faces at the outer edges thereof sealed between the combined shoulder and raised bead in the valve body and the outer rim of the bonnet, said bead being impressed into one of said normally flat faces, and an initially smooth-sided substantially cylindrical boss of non-metallic material integral with the upper side of said disk and compressed between the threads in the recess of said foot-piece for anchoring the disk to the foot-piece, said disk having an annular seat contacting portion between the annular pressure face and the valve seat.

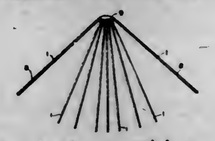
2,323,532

CONTAINER FOR PICTURES AND THE LIKE

Fred R. Fuller, Bay Village, Ohio

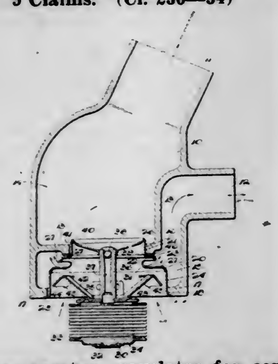
Application August 11, 1941, Serial No. 406,434

9 Claims. (Cl. 129—20)



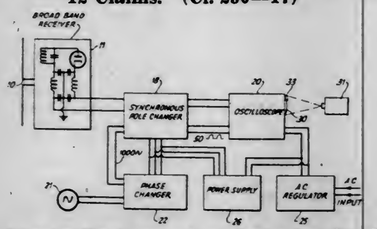
1. A mounting book comprising a plurality of double face mounting frames for photographs, each of said frames being in the form of a rectangular envelope of which the front and back are perimetrically extending endless margins in superposed face to face relation defining aligned central window openings which occupy the major portion of the overall extent of the front and back of the envelope, the front and back margins being connected together at their outer edges along three sides of the frame and being unconnected along the remaining side of the frame to provide an entrance into the interior of the frame, and a flap extending from one of the margins at the unconnected edge thereof and of less width throughout its entire length than the width of the margin from which it extends and shaped to be received in the entrance passage, said frames being assembled in book form with the flap of each extending into the entrance passage of an adjacent duplicate frame and the flap being secured to one margin of the duplicate frame into which it extends for holding the frames in assembled relation in book form.

2,323,533
TEMPERATURE REGULATOR
Jean V. Giesler, Knoxville, Tenn., assignor to The Fulton Sylphon Company, Knoxville, Tenn., a corporation of Delaware
Application February 24, 1941, Serial No. 389,354
5 Claims. (Cl. 236—34)



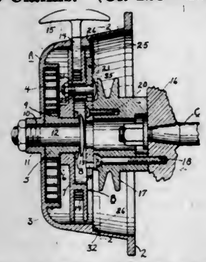
1. In a temperature regulator for controlling the flow of cooling medium through main and by-pass passages of the cooling system of an internal combustion engine, a tubular housing element having end portions of different diameter, a thermostat mounted on said tubular housing element, an intermediate portion of said housing element being inclined to the axis thereof and apertured to provide a valve seat, a pair of valve members connected to said thermostat, one of said valve members cooperating with a valve seat provided on the end portion of said tubular housing element and the other of said valve members haying a seating portion arranged to close the apertures in said inclined portion when said first named valve member is open, and said second named valve member cooperating only at the periphery of said seating portion with the portion of said housing element of larger diameter to constitute a guide for both of said valve members during the expansion and contraction of said thermostat.

2,323,534
SHORT DOT TEST EQUIPMENT
De Witt Rugg Goddard, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application December 12, 1941, Serial No. 422,625
12 Claims. (Cl. 250—17)



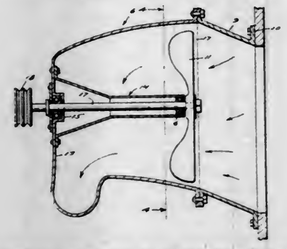
1. In a radiant energy system wherein short pulses of high frequency energy are alternately radiated from different antennae, means for receiving said pulses, means for demodulating said pulses, an oscilloscope having means associated therewith for deflecting a visible spot across a screen in synchronism with the rate of transmission of said pulses, connections from said modulating means to means for deflecting said spot in a direction normal to said first deflection and means for changing the polarity of said connections in synchronism with the rate of alternation of radiation whereby the trace of said spot on said screen representative of pulses from one of said antennae is separated from the trace representative of pulses from the other of said antennae.

2,323,535
ENGINE STARTER
Walter L. Gorden, Chicago, Ill., assignor to Mall Tool Company, Chicago, Ill., a corporation of Illinois
Application July 7, 1941, Serial No. 401,339
8 Claims. (Cl. 123—185)



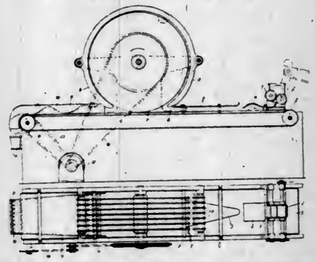
1. An engine starting device comprising a stationary casing, a rotatable member, an engine shaft, an engine shaft engaging element pivotally connected to the rotatable member and rotatable therewith, said element being adapted to establish engagement with the engine shaft upon rotation of the rotatable member in engine starting direction, means associated with said element whereby upon reversing the rotation of said rotatable member, the element releases from engagement with the engine shaft, said means comprising an annular ring loosely mounted and rotatable relative to the stationary casing and having slight frictional engagement with the stationary casing; said element having engagement with the ring and being actuated thereby about its pivot.

2,323,536
SUCTION FAN
John H. Hanselman, Des Moines, Iowa
Application March 25, 1941, Serial No. 385,187
1 Claim. (Cl. 230—120)



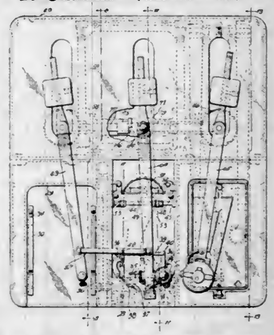
Apparatuses for use in drawing foreign matter out of an opening in one side of a corn harvester, said apparatus comprising a fan housing having a discharge neck at one end thereof and an intake mouth at its opposite end, an adapter extending from said mouth for mounting said housing on said side of the harvester opposite said opening, a fan shaft mounted in said housing to extend through said one end thereof to said mouth, a suction fan fast on said shaft adjacent said mouth, the mounting for the fan shaft comprising a sleeve carried by said one end of the fan housing and extending into the housing in surrounding relation to said shaft, said sleeve having a bearing assembly therein adjacent the fan for supporting said shaft, and a bearing assembly in said one end of the housing and surrounded in said housing by said sleeve.

2,323,537
MANUFACTURE OF BREAD
Laurence Seymour Harber, Peterborough, England, assignor to Baker Perkins Limited, Peterborough, England
Application September 29, 1941, Serial No. 412,857
In Great Britain October 9, 1940
12 Claims. (Cl. 107—9)



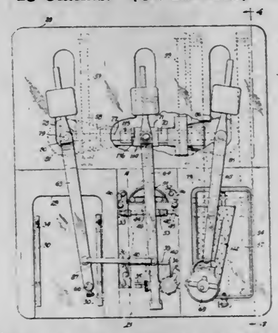
2. Apparatus for forming dough pieces in the manufacture of tin bread having a laminated structure of the character described, comprising conveyor means, means cooperating with said conveyor means for moulding an elongated dough piece, said conveyor means feeding the elongated dough piece to means for impressing a series of spaced annular recesses in said dough piece to form plaques united by necks of relatively small diameter, said conveyor means receiving the necked dough pieces and delivering them to means for applying axial pressure on the ends of the necked dough piece to bring the sides of the plaques into contact with one another and merge the connecting necks into the body of the dough.

2,323,538
APPARATUS FOR FITTING SHOES TO FEET
Daniel F. Hyland, John C. Stiles, Hugo L. Brenner, and John Brenner, St. Louis, Mo., assignors, by mesne assignments, to Arch-O-Graph Company, a corporation of Missouri
Application July 8, 1940, Serial No. 344,458
17 Claims. (Cl. 12—60)



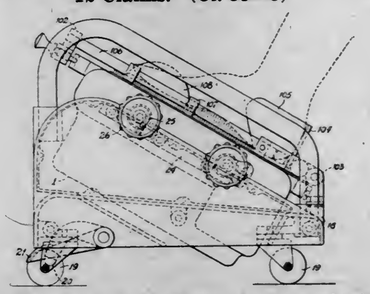
1. In an apparatus of the character described for fitting shoes to feet, means for positioning a foot model, means for positioning a shoe, means for holding a lift-blank, and means operating on both faces of the lift-blank guided respectively by the model and the inside sole surface of the shoe to form the lift to a thickness at any point thereof corresponding to the difference between the height of the model and the height of the sole surface of the shoe at the corresponding point.

2,323,539
METHOD FOR FITTING SHOES TO FEET
Daniel F. Hyland, John C. Stiles, Hugo L. Brenner, and John Brenner, St. Louis, Mo., assignors to Arch-O-Graph Company, St. Louis, Mo., a corporation of Missouri
Original application July 8, 1940, Serial No. 344,458. Divided and this application June 12, 1941, Serial No. 397,702
18 Claims. (Cl. 12—142)



1. In the art of fitting shoes to feet, the process comprising, taking off a model of the plantar surface of the foot in normal position, and forming, from the model and the shoe to be fitted to the foot, as guides, a lift to a thickness at any point thereof corresponding to the difference at that point between height of the model and the height of the inner sole of the shoe.

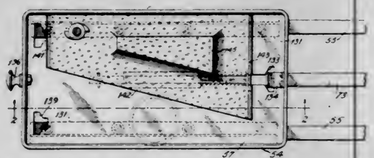
2,323,540
FOOT MODELING DEVICE
Daniel F. Hyland, John C. Stiles, Hugo L. Brenner, and John Brenner, St. Louis, Mo., assignors to Arch-O-Graph Company, St. Louis, Mo., a corporation of Missouri
Original application July 8, 1940, Serial No. 344,458. Divided and this application June 12, 1941, Serial No. 397,703
12 Claims. (Cl. 33—3)



1. In an apparatus of the character described for fitting shoes to feet, means for taking off a model of the foot comprising, a series of shiftable

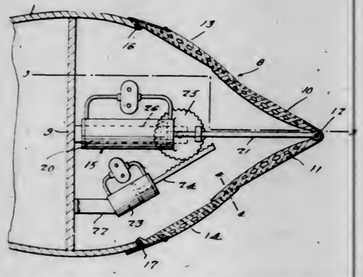
elements engageable with the plantar surface of the foot to take off a three-dimensional model of said surface, means for securing said elements in shifted position, and a continuous plate extending over certain of said elements for engagement by the foot to form a continuation of the model surface.

2,323,541
LIFT-BLANK AND HOLDER THEREFOR
Daniel F. Hyland and John C. Stiles, St. Louis, Hugo L. Brenner, Webster Groves, and John Brenner, St. Louis, Mo., assignors to Arch-O-Graph Company, St. Louis, Mo., a corporation of Missouri
Application May 2, 1942, Serial No. 441,540
14 Claims. (Cl. 12—60)



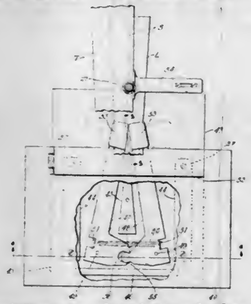
1. A lift-blank of the character described, comprising, a substantially flat body of cork having a substantially plane layer of tensily-strong fabric incorporated therewith, and attaching means associated with the blank engageable with tensioning means and constructed and arranged for tensioning the blank in a holder.

2,323,542
AIRPLANE WING CONSTRUCTION
Theodore Richard Jacobs, Duluth, Minn.
Application September 19, 1941, Serial No. 411,566
2 Claims. (Cl. 244—44)



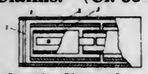
1. In an aircraft, a wing structure having a leading edge construction, said leading edge construction consisting of an upper section, a lower section, said upper and lower sections being hingedly connected together at their forward edge, inner upper and lower sections, said inner sections being hingedly connected to the wing structure, sliable connections between the upper sections and slidable connections between the lower sections, and extending and retracting means for the sections, said extending and retracting means for the sections consisting of a fluid cylinder, a rod extending from the cylinder and connected to the hinged connections of the first-mentioned sections, a gear, means to rotatably mount said gear alongside said rod, a second cylinder including a piston, a rack extending from the piston and in mesh with the gear, and means on the gear embracing the rod to lift or lower the rod as the gear is rotated.

2,323,543
LINING GUIDE FOR TIE SEWING MACHINES
Carl W. Johnson, Brooklyn, N. Y., assignor to American Machine and Foundry Company, a corporation of New Jersey
Application February 7, 1940, Serial No. 317,677
11 Claims. (Cl. 112—152)



1. In a guiding mechanism of the class described, wherein a tapered running strip of material is maintained with its mid-line at a fixed stitching position, a pair of follower-guide-devices, means for yieldingly biasing said follower-guide-devices toward each other to a position where they rest against the opposite edges of the material being guided, upper and lower plates disposed in close arrangement with a spacing therebetween slightly greater than the thickness of said strip to form a guide-throat for said strip adjacent said devices adapted to support said tapered edges thereof against a crumpling deformation under the pressure of said devices.

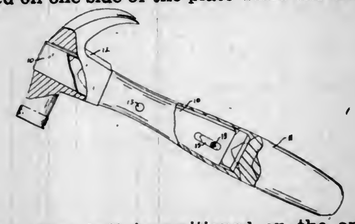
2,323,544
OSCILLATION TUBE MILL
Siegfried Kiesskalt and Erich Korinth, Frankfort-on-the-Main, Germany; vested in the Alien Property Custodian
Application November 8, 1940, Serial No. 364,826
In Germany December 6, 1938
2 Claims. (Cl. 83—9)



2. An improved grinding element comprising in combination an elongated outer tube, a plurality of nested tubes loosely emboxed in said outer tube and extending longitudinally therein, said nested tubes being formed of a plurality of separate sections of varying length and so arranged that a joint between the ends of sections of any particular tube is not in register with the ends of sections of a tube adjacent thereto, and means for retaining said nested tubes in said outer tube.

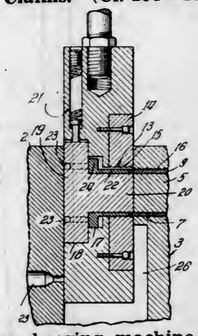
2,323,545
HANDLE REINFORCING DEVICE
Valentine John Kosiancic, Crescent Valley, British Columbia, Canada
Application December 29, 1941, Serial No. 424,842
1 Claim. (Cl. 306—32)

A reinforcing member for hand tools, a tool head having an eye, a handle having one end fitted in the eye of said head, said handle having a longitudinal slot, a metal plate adapted to be driven in the slot of said handle having a wedge shaped end for expanding the portion of the handle engaged in the eye of said tool head, a pair of elongated slots formed in said metal plate in spaced apart relation along the longitudinal axis of the plate, said handle having transverse openings therethrough adapted to intersect the slots of said plate, bolts passing through the openings of said handle and slots of said plate, said bolts having shoulders formed thereon in engaging relation to the side of said metal plate, the shoulder of one bolt being positioned on one side of the plate while the shoulder



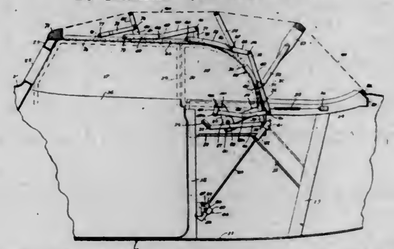
of the other bolt is positioned on the opposite side of the plate whereby the plate is flexed in opposite directions upon tightening the bolts, and friction collars mounted on the bolts between the shoulders and side of the plate adapted to be forced into holding engagement with the plate upon tightening of said bolts.

2,323,546
RING FORMING MACHINE
Edwin W. Krueger, River Forest, Ill.
Application August 12, 1942, Serial No. 454,605
6 Claims. (Cl. 164—48)



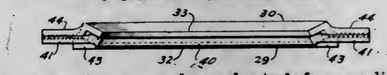
1. In a ring shearing machine comprising a tube supporting mandrel, a feed block and a movable shearing member adapted to shear the protruding end of the tube stock mounted on the supporting mandrel, the improvement that comprises a floating horn member positioned and vertically movable in the shearing member, yielding means for normally holding said horn in its lowermost position with relation to the shearing edge of the shearing member so as to provide a clearance therebetween, said horn having a tube receiving thimble portion of similar diameter to that of the mandrel, arranged to be aligned with the mandrel to receive an end of the tube stock when the shearing member is in its uppermost position, said shearing member provided with a vertically elongated shearing opening having a shearing edge, within which opening the thimble is positioned, said shearing edge clearing the upper surface of the tube to be sheared when in its uppermost position, and being movable in the direction of the long axis of the elongated opening therein whereby the shearing member may descend until the clearance between the sharing edge and the upper portion of the tube stock is closed and the tube to be sheared is firmly gripped between the thimble and the shearing edge preceding and during the shearing action.

2,323,547
FOLDABLE TOP STRUCTURE
Walter P. Levon, Detroit, Mich., assignor to F. L. Jacobs Company, Detroit, Mich., a corporation of Michigan
Application February 6, 1942, Serial No. 429,783
10 Claims. (Cl. 296—117)



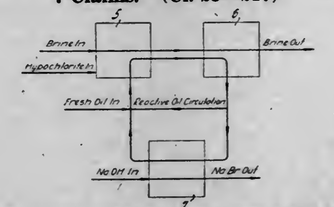
1. In a foldable top structure for a vehicle body with windows and a windshield, a rear top frame member having a lever portion pivoted to said body and an arcuately curved frame portion extending angularly therefrom, a system of top frame members operatively connected to the frame portion of said rear top frame member, a swingable arm mounted adjacent said rear top frame member upon a pivot independent and forwardly thereof, means interconnecting said arm and the frame portion of said rear frame member to swing rearwardly of said lever portion pivot, and power-operated lifting mechanism operatively interconnected to said arm to exert a force on said frame portion about an arc rearwardly of said lever portion pivot.

2,323,548
LUBRICANT SEAL
Robert P. Lewis, Toledo, Ohio, assignor to Spicer Manufacturing Corporation, Toledo, Ohio, a corporation of Virginia
Application May 13, 1941, Serial No. 393,225
6 Claims. (Cl. 286—15)



1. A sealing annulus adapted for application to a spherical casing member comprising a pair of semi-circular sections, each section including a pair of half washers, the inner periphery of the half washers being turned inwardly to provide an angularly disposed channel, a semi-circular flexible sealing element arranged in said channel, and a flexible pressure strip interposed between the channel and said sealing element for urging the latter into engagement with the casing member.

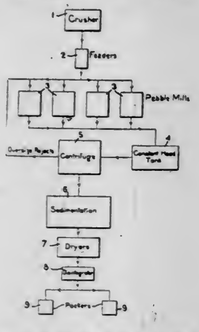
2,323,549
BROMINE EXTRACTION PROCESS
Frank F. Lindstaedt and David L. Shatto, San Francisco, Calif.
Application May 14, 1938, Serial No. 208,084
7 Claims. (Cl. 23—217)



2. The process of extracting bromine from an

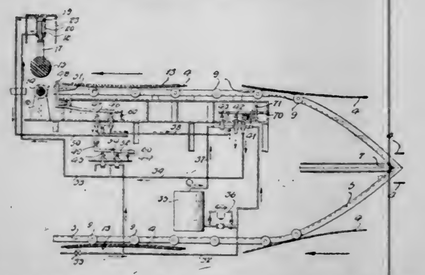
alkaline brine which consists in oxidizing the bromide ion in the brine to a positive valent state in combined form with an element of the group consisting of chlorine and oxygen, said oxidizing step being carried out while retaining the alkalinity of the brine stable to bicarbonate ion, and reacting the combined form of the positive valent bromine with an unsaturated organic compound of the class consisting of fluids, fats, waxes and bitumens derived from petroleum oil, animal and vegetable oils and synthetic organic compounds.

2,323,550
FILLER MATERIAL FOR PAINT, RUBBER, PAPER, ETC.
Alan R. Lukens, Belmont, Mass.
Application August 3, 1940, Serial No. 350,267
12 Claims. (Cl. 260—765)



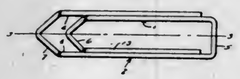
1. A calcium carbonate product in powder form comprising mechanically ground limestone particles of which approximately 99.8% by weight are substantially smaller than fifteen microns in diameter and at least 17% by weight of the particles have a diameter no greater than one micron, the aggregation of particles within the said specified percentages being such as will substantially follow the Rosin-Rammler law of particulate distribution.

2,323,551
MATERIAL HANDLING DEVICE
David S. Mackie, Cleveland, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application August 3, 1940, Serial No. 351,521
8 Claims. (Cl. 154—41)



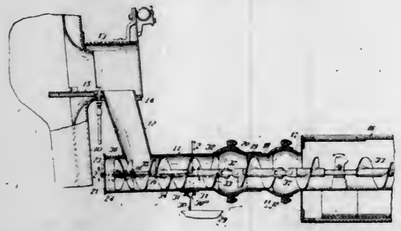
1. An apparatus for pressing sound deadening material on to a panel comprising a conveyor upon which the panel is suspended and by which the panel is conveyed along a predetermined course, an inclined support along which the panel is conveyed by said conveyor, and means positioned along said course for shifting the panel while supported by said conveyor on to said inclined support, and pressing means for pressing the sound deadening material against said panel as it is conveyed along said inclined support.

2,323,552
PAPER CLIP
Harry Marion, Jesse A. Perlstein, and Frank J. O'Donnell, Newark, N. J.
Application November 14, 1942, Serial No. 465,608
1 Claim. (Cl. 24—261)



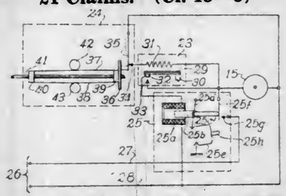
A single piece clip of resilient wire including a pair of inner and outer complemental straight sided loops of elongated form having sides disposed parallel, the inner loop having a rear end disposed at a right angle to the sides thereof and connecting one side of the inner loop with an opposite side of the outer loop, said loops having wedge-shaped front edges spaced apart longitudinally of the loops and inclining forwardly and to one and the same side of the plane of the loops, said front ends inclining at an obtuse angle from the sides of the loops and at the same inclination.

2,323,553
STOKER CONVEYER
William O. Martin, Fort Smith, Ark., assignor to William O. Martin, Incorporated, Fort Smith, Ark., a corporation of Arkansas
Application September 12, 1940, Serial No. 356,493
4 Claims. (Cl. 198—15)



1. A conveyer of the character described comprising a horizontally disposed main conduit provided with an opening intermediate its ends and an upwardly disposed discharge conduit; and a screw conveyer in said conduit loosely supported by its flights on the bottom of the main conduit, the flights of said screw intermediate of the rear end of the main conduit and the rearward wall of said discharge conduit being disposed in one direction, the flights of said screw intermediate the forward wall of said discharge conduit and the forward end of the main conduit being disposed in the opposite direction, while the flights of the screw at said discharge opening intermediate the planes of the forward and rear walls of the discharge conduit are disposed in the same direction as said first mentioned flights and offset radially relative to the first two mentioned flights, all of said flights being in close juxtaposition to each other to maintain continuous movement of the fuel.

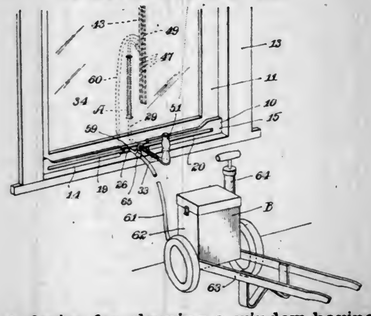
2,323,554
VACUUM CLEANING APPARATUS
Richard D. Mason, Wilmette, Ill.
Application April 19, 1941, Serial No. 389,287
21 Claims. (Cl. 15—8)



1. Vacuum cleaning apparatus comprising, in combination, a nozzle adapted to be moved over a surface to be cleaned, means for producing a cleaning action in the area of said surface which registers with the opening of said nozzle, an electric motor for driving said cleaning means, contacts having open and closed circuit settings, means operated only in response to sustained movement of said nozzle over said surface for holding said contacts in one of said settings, means responsive to the discontinuance of movement of said nozzle over said surface for operating said contacts to the other of said settings, and means including a circuit which comprises said contacts for controlling the operation of said motor to drive said cleaning means.

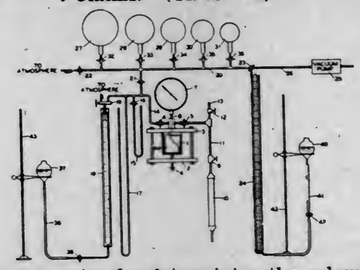
19. In a vacuum cleaner, a nozzle adapted to be moved over a surface to be cleaned, a pair of rollers actuated by movement of the cleaner over said surface, means for producing a cleaning action in the area of said surface which registers with the opening of said nozzle, a thermal relay comprising a bi-metal timing element and a heater, a circuit for energizing said heater, means controlled by said element for arresting the operation of said last-named means and for interrupting said circuit a predetermined time interval after said heater is energized, and means controlled by one of said rollers when said cleaner is moved over said surface in one direction and by the other of said rollers when said cleaner is moved over said surface in the opposite direction for holding said circuit open so long as said nozzle is moved over said surface.

2,323,555
WINDOW CLEANING DEVICE
Eugene F. Matthews, St. Paul, and Norman W. La Clair, Forest Lake, Minn.
Application April 24, 1941, Serial No. 390,046
8 Claims. (Cl. 15—251)



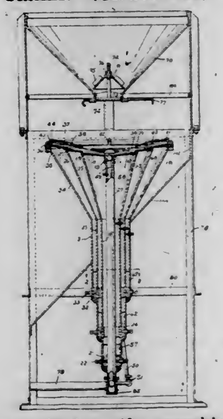
1. A device for cleaning a window having opposed surfaces, comprising a surface engaging device engaging one surface of the window, a supporting device extending around the edge of the window for operation from the side of the window opposite the surface engaged, and means slidably and pivotally supporting said supporting device, said means including a slotted member designed to engage along the edge of the window through which said supporting device extends.

2,323,556
METHOD AND APPARATUS FOR DETERMINING EFFECTIVE POROSITY
Elmer O. Mattocks, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application November 29, 1940, Serial No. 367,855
7 Claims. (Cl. 73—51)



4. In apparatus for determining the volume of connected pore spaces in a porous body, the combination comprising a receptacle for containing the body at a predetermined pressure, pressure indicating means connected to the receptacle, means for transmitting gas into the receptacle at a known pressure above said predetermined pressure, gas receiving means of variable volumetric capacity connected to the receptacle, and means associated with the gas receiving means and controlling the pressure within the gas receiving means without loss of gas transmitted thereinto.

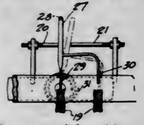
2,323,557
CONCENTRATOR
Lyle McLean, Portland, Oreg.
Application March 8, 1941, Serial No. 382,439
3 Claims. (Cl. 209—44)



1. In a concentrator, the combination of a perforated plate whose top surface slopes downwardly toward a central point, a bleeder pipe adapted to draw materials from said central point, an air pipe within said bleeder pipe having a perforated, upwardly discharging air nozzle thereon constituting a cover for the upper end of said bleeder pipe and spaced from the inlet of

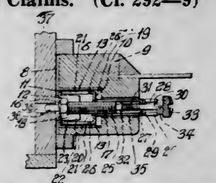
the bleeder pipe and affording a passageway thereto around the rim thereof, means for causing air to pass upwardly through said perforated plate and a screen over said perforated plate adapted to remove from the materials deposited on said plate the oversized materials which are discharged as gangue.

2,323,558
RELAY
Donald A. Miller, Linthicum Heights, Md., assignor, by direct and mesne assignments, to National Electric Control Company, a corporation of Maryland
Application November 10, 1941, Serial No. 418,578
5 Claims. (Cl. 200—110)



1. In a relay, the combination with a rotatable coil, of a switch member comprising a two-part connector, one of said parts being movable with and insulated from the said coil, and a pair of spaced cupshaped members one of which forms a fixed part of said connector, the other of said members cooperating with an arm carried by the movable connector member, cavities within said cup members having the interior surfaces thereof coated with a conducting film of substantially uniform depth, said film being cohesively secured to the adjacent surface of each cup.

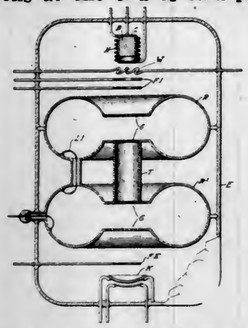
2,323,559
SASH FIXTURE FOR WINDOWS AND THE LIKE
Charles L. Mills, St. Louis, Mo., assignor of one-half to Joseph Polyak, St. Louis, Mo.
Application August 30, 1940, Serial No. 354,871
2 Claims. (Cl. 292—9)



1. A fitting for a window sash comprising a base plate having a pair of vertically alined openings and an intermediately disposed threaded member extending at right angles therefrom, a roller in alinement with each opening of said base plate, a support for said rollers, a threaded sleeve mounted on said threaded member and having one end in cooperable engagement with said support, and a locking bolt reciprocably mounted in said threaded member and said sleeve and having keyed engagement with said sleeve for adjusting it on said threaded member.

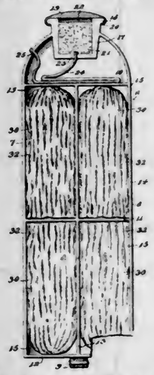
2,323,560
ELECTRON DISCHARGE APPARATUS
Hans Motz, Blackheath, London, England, assignor to International Standard Electric Corporation, New York, N. Y.
Application December 11, 1940, Serial No. 369,514
In Great Britain July 5, 1940
5 Claims. (Cl. 250—27.5)

1. An electron discharge device of the resonator type having a first resonator and a second resonator, a drift tube connected there-between, said resonators and drift tube having an electron beam path extending therethrough, a collector for electrons at one end of said path, electron



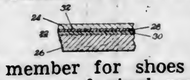
gun means at the other end of said path for projecting a beam of electrons along said path toward said collector, and an ionizable gaseous atmosphere within said resonators and drift tube at a negative-space-charge reducing pressure.

2,323,561
MEANS FOR DESTROYING AIRCRAFT
Phil F. Newman, Blackwell, Okla.
Application January 27, 1941, Serial No. 376,213
2 Claims. (Cl. 102—63)



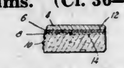
1. In a projectile, an elongated substantially cylindrical container having one end reduced and rounded and including companion sections extending longitudinally thereof, means hinging the sections together to permit the container to swing fully open from end to end thereof, walls integral with the sections and extending inwardly and outwardly of the container at the rounded end thereof and coacting to form an explosive chamber fully open at one end and outwardly of the container, a destructible cap clinched to the walls outwardly of the container for closing the chamber to retain an explosive therein and for securing the sections together against separation and hinging movement relative movement to each other in an end to end manner relative to the container, a fuse connected with the chamber and extending through a wall of one of the sections of the container, partitions in each section to form balloon compartments, and a solid panel loosely mounted in said container to separate the balloon compartments of one section from like compartments of the other section.

2,323,562
SHOE TREAD MEMBER
Frederick V. Nugent, Abington, Mass., assignor to B. B. Chemical Co., Boston, Mass., a corporation of Massachusetts
Application March 24, 1942, Serial No. 435,997
6 Claims. (Cl. 36—30)



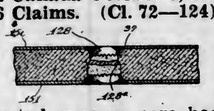
6. A tread member for shoes comprising a tread surface layer of vinyl resin, a film of chlorinated rubber adhesively secured to said vinyl resin, a film whose basic constituents are a copolymer of butadiene and a acrylonitrile, and a toughening agent of the group consisting of chlorinated rubber and vinyl resin, adhesively secured to said chlorinated rubber film, and a layer of leather adhesively secured to said butadiene-acrylonitrile copolymer-toughener film.

2,323,563
TREAD MEMBER FOR SHOES
Frederick V. Nugent, Abington, Mass., assignor to B. B. Chemical Co., Boston, Mass., a corporation of Massachusetts
Application March 24, 1942, Serial No. 435,998
3 Claims. (Cl. 36—30)



1. A tread member for shoes comprising a tread surface layer of vinyl resin, a film of chlorinated rubber adhesively secured to said vinyl resin, a film of polymerized chloroprene adhesively secured to said chlorinated rubber, and a layer of leather adhesively secured to said polymerized chloroprene.

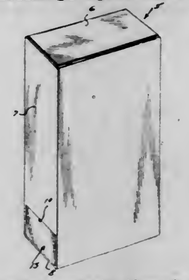
2,323,564
PERFORATED PLASTERBOARD
John Page, Evanston, Ill., assignor to United States Gypsum Company, Chicago, Ill., a corporation of Illinois
Application December 19, 1938, Serial No. 246,625
In Canada October 6, 1938
6 Claims. (Cl. 72—124)



1. A perforated gypsum core board in which the perforations are defined by the inner edges of annular areas of gypsum core material having a greater density than the remaining portions of the core and the walls of said perforations presenting a substantially glazed surface, the walls forming said glazed surface including a farinaceous adhesive composition.

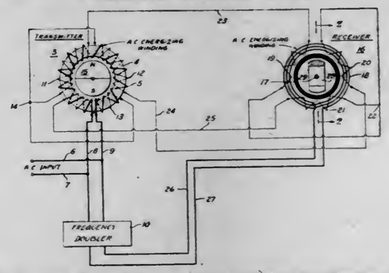
2,323,565
CARTON
Robert E. Peters, Jr., Saginaw, Mich., assignor to Robert E. Peters, Sr., Saginaw, Mich.
Application July 4, 1942, Serial No. 449,795
2 Claims. (Cl. 221—104)

1. A carton comprising side and end walls, a top and a bottom, said end walls being formed with registered openings adjacent the bottom, a horizontal partition providing a transverse passage across said carton at the level of the upper edges of said end openings having a central discharge aperture, a measuring dispenser slidably mounted in said passage on said bottom, said dispenser having laterally spaced end compartments open at top and bottom of predetermined cubic capacity and a cover plate over the space therebetween to normally close said discharge aperture while in the inoperative normal position of the container, said dispenser being arranged to be moved in a lateral direction to register said discharge aperture with either one



of said end compartments thereby conserving a portion of the contents of the carton to be discharged through said aperture to fill the compartments, said dispenser being arranged to be then moved in the opposite lateral direction to empty the filled compartment while simultaneously registering the other compartment with the discharge aperture in the partition.

2,323,566
MEANS FOR REPRODUCING MOTION
Joel D. Peterson, Ridgewood, N. J., assignor to Bendix Aviation Corporation, Bendix, N. J., a corporation of Delaware
Application August 25, 1942, Serial No. 456,065
7 Claims. (Cl. 172—239)

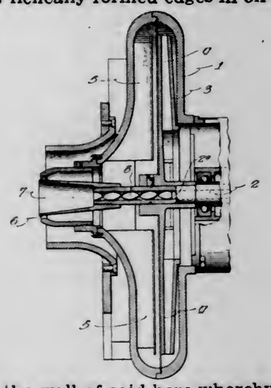


7. In combination, a transmitter having a core of magnetically permeable material adapted to be traversed by a uni-directional magnetic field and provided with coil means thereon having an input and a plurality of outputs, a source of alternating current connected to the input of said coil means, and a remote receiver having a core of insulating material provided with coil means thereon, corresponding to the coil means of said transmitter, means connecting the outputs of said transmitter coil means to corresponding connections of said receiver coil means, a frequency multiplier having its input connected to said source and its output connected to the input of the coil means of said receiver, and a rotor actuated by said receiver coil means.

2,323,567
OIL BURNER
Fred Ravnsbeck, Chicago, Ill., assignor to Ace Engineering Co., Chicago, Ill., a corporation of Illinois
Application September 27, 1940, Serial No. 358,574
1 Claim. (Cl. 158—77)

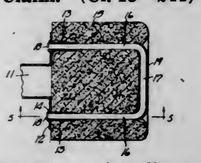
In an oil burner having a member which ro-

tates in a predetermined direction when the burner is operating, said member having an oil feed passage extending horizontally to a constantly open unobstructed outlet which discharges to a combustion chamber and said passage including a cylindrical bore at the axis of rotation of said member, a twisted strip of flat stock secured in said bore with at least one of its helically formed edges in oil-tight con-



tact with the wall of said bore whereby said strip acts to check the flow of liquid along the lower side of the bore when the member is not rotating, said strip being twisted in a direction to facilitate the flow of liquid through the bore toward the outlet when the member is rotated in the said predetermined direction, and said strip constituting the sole obstruction in the passage.

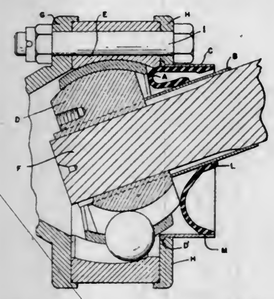
2,323,568
CLEANER
Levant C. Rogers, Niles, Mich.
Application February 17, 1941, Serial No. 379,159
1 Claim. (Cl. 15—244)



A cleaner comprising a handle, a plate having a pair of spaced openings therein, means mounting said plate on said handle, a sponge rubber block bearing against said plate and having a pair of parallel passages therethrough registering with said openings, a pair of tubes fixedly anchored in said openings and projecting into said passages, said tubes being shorter than said passages, and a rigid U-shaped retainer including a cross bar and a pair of parallel arms shorter than said passages extending through said passages and tubes and each having an enlarged head at its end bearing against said plate, and a rubber tube encircling said cross bar, said block being compressed by said cross bar to flare around the same.

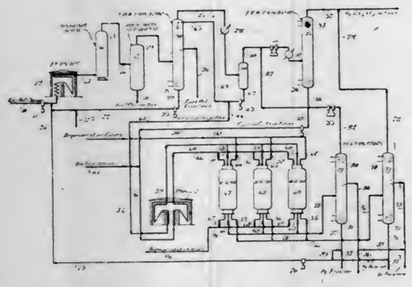
2,323,569
SEALING MEANS FOR UNIVERSAL JOINTS
Alfred H. Rzeppa, Grosse Pointe, Mich.
Application October 30, 1939, Serial No. 302,045
3 Claims. (Cl. 64—32)

3. The combination with a universal joint of the type comprising spherically engaged inner and outer members and a shaft extending axially from said inner member, of a sealing means comprising outer and inner rigid cylindrical members surrounding said shaft at one side of the center of said joint, the inner cylindrical member being sleeved thereon and the outer cylindrical member being attached to the outer member of said joint, and a flexible member between said outer and inner cylindrical members being of return bend cross section, its outer and inner



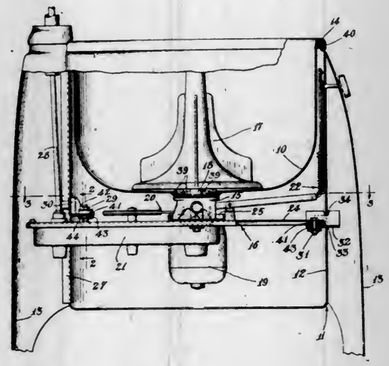
edge portions being attached respectively to said outer and inner cylindrical members and the return bend portion extending axially toward the center of oscillation adjacent to the inner member of said joint, whereby said flexible member is retained completely within said outer cylindrical member during all angular movements of the joint and said outer cylindrical member limits the radial outward movement of said flexible member under centrifugal action.

2,323,570
PRODUCTION OF MOTOR FUELS
George E. Schmitkons, Chicago, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application August 3, 1940, Serial No. 350,407
8 Claims. (Cl. 196—10)



1. A process of hydrocarbon conversion comprising passing a hydrocarbon material rich in olefin hydrocarbons and consisting at least predominantly of normally gaseous hydrocarbons over a catalyst having both olefin polymerizing and cracked naphtha isomerizing powers under conditions adapted to effect substantial polymerization of said olefin hydrocarbons for a period of time sufficient to reduce drastically the olefin polymerizing powers of said catalyst, and then passing a cracked naphtha containing a large amount of normally liquid olefin hydrocarbons over said catalyst under conditions adapted to isomerize a substantial amount of said last-mentioned olefin hydrocarbons and to raise markedly the octane number of said cracked naphtha.

2,323,571
DOMESTIC WASHING MACHINE CONSTRUCTION
Simon E. Schroeder, Ripon, Wis., assignor to Barlow & Seelig Manufacturing Company, Ripon, Wis., a corporation of Delaware
Application December 31, 1940, Serial No. 372,547
5 Claims. (Cl. 68—133)



1. In combination in a washing machine of the character described, including a tub, a skirt surrounding said tub and having equally spaced hollow legs in support thereof extending substantially up its outer face, a framework under said tub comprising crossed elongated members having the ends thereof alined with said legs, and brackets for supporting the ends of said frame members projecting from within said legs through said skirt into overlapping relation to said ends.

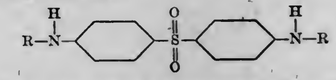
2,323,572
FLOWER HOLDING BROOCH
Conrad E. Schwarzkopf, New York, N. Y.
Application May 13, 1942, Serial No. 442,814
8 Claims. (Cl. 24—6)



7. A flower holder comprising a rear strip of stiff material having flat and unobstructed end portions, a front strip of resilient material normally in contacting engagement with the front face of the rear strip, sleeves extending transversely across ends of the front strip with portions projecting rearwardly therefrom and formed with slots slidably receiving end portions of the rear strip with ends of the rear strip spaced from walls of the sleeves whereby the sleeves may be grasped and shifted along the rear strip to bow the resilient front strip away from the stiff rear strip to permit disposition of flower stems between the strips and gripping thereof when the sleeves are released and the resilient front strip returns to a normal position.

2,323,573
HALOGEN ACYL DERIVATIVES OF 4,4'-DIAMINODIPHENYL SULPHONE AND PROCESS OF PREPARING THEM
Horace A. Shonle and Arthur M. Van Arendonk, Indianapolis, Ind., assignors to Eli Lilly and Company, Indianapolis, Ind., a corporation of Indiana
No Drawing. Application December 1, 1941, Serial No. 421,238
3 Claims. (Cl. 260—397.6)

3. A composition which is represented by the following formula:



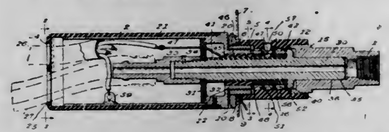
in which the two R's represent like radicals selected from the class which consists of trichloroacetyl, dichloroacetyl, tribromoacetyl and dibromoacetyl radicals.

2,323,574
SCREW PLATE BOX
Herbert J. Smith, Greenfield, Mass.
Application January 4, 1941, Serial No. 373,151
7 Claims. (Cl. 206—16)



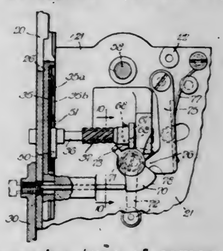
1. In a tool box of the character described, a block provided with recesses for receiving tools, one of said recesses being formed as a relatively long and narrow slot, a cover plate secured on said block over said slot and provided with a plurality of spaced longitudinally aligned openings registering with said slot, and a stepped stop strip secured in the bottom of the slot and provided with inclined shoulder portions which serve as stops for the shank ends of taps inserted in said openings.

2,323,575
SWIVEL JOINT ASSEMBLY
Paul L. Snowberger, Baltimore, Md., assignor to The Glenn L. Martin Company, Baltimore, Md.
Application October 28, 1941, Serial No. 416,794
2 Claims. (Cl. 174—21)



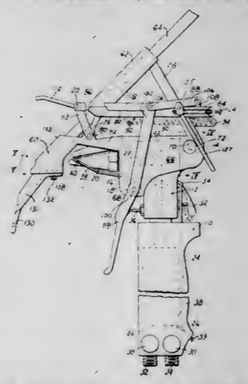
1. A combined separable fluid joint and electrical connector comprising a fixed socket portion and a readily detachable, rotatable plug portion, axially alignable fluid conduits extending through both of said portions, a plurality of electrical contacts carried on the exterior of said plug, and a plurality of complementary contacts carried on the interior of said socket, said contacts carried on the said plug comprising a plurality of conductor rings mounted on but insulated from the fluid conduit of the said detachable, rotatable plug portion, and the complementary contacts carried on the interior of said fixed socket portion comprise spring fingers extending through radial openings in the said socket to bear against the said conductor rings when the said plug is positioned in the said socket.

2,323,576
CAMERA CONTROL MEANS
Philmore F. Sperry, Chicago, Ill.; Helen B. Sperry, executrix of the estate of said Sperry, deceased, assignor, by mesne assignments, to Theodore H. Briskin, Philip F. Briskin, and Jack Briskin
Application November 17, 1941, Serial No. 419,457
14 Claims. (Cl. 88—17)



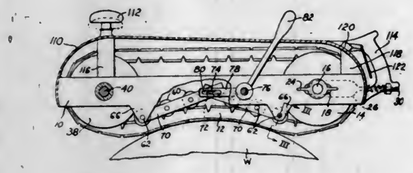
1. In a magazine type of camera and control means therefor, the combination of a camera casing, lens means in operative position thereon, means for mounting a film magazine in said casing so as to hold the film therein in operative relationship to said lens means, a shaft rotatably mounted in said casing, means for driving said shaft, shutter means connected with said shaft so as to be driven thereby for controlling the exposure of the film, means driven by said shaft for advancing the film step by step in timed relation to the operative movements of the shutter means, and means for controlling the rotation of said shaft comprising an adjustable member adapted in one position to hold the shaft from rotation and adapted in either of two changed positions to permit the shaft to run continuously, and yielding means having an operative bearing on said adjustable member adapted normally to return said member to said one position from one of said changed positions but not from the other.

2,323,577
APPARATUS FOR PLASTIC MOLDING
Faye P. Stull, Youngstown, Ohio
Application August 23, 1940, Serial No. 353,852
17 Claims. (Cl. 113—109)



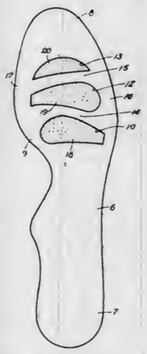
1. In combination, means for slidably supporting a bar of plastic with one end extending downwardly and so that the bar will slide down through the supporting means substantially by gravity, a rest against which the lower end of the bar strikes to prevent it from moving out of the supporting means, means for heating the plastic adjacent the rest, and means controlling the amount of support given the bar by the rest.

2,323,578
SURFACE FINISHING APPARATUS
Faye P. Stull, Youngstown, Ohio
Application March 13, 1941, Serial No. 383,144
17 Claims. (Cl. 29—76)



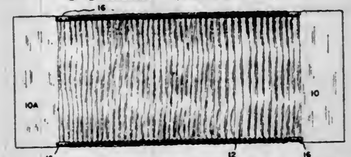
1. A power file comprising a frame, a pair of endless rubber V-belts, means mounting the belts in side by side relation with the lower stretches of the belts extending below the frame, a plurality of relatively short pieces of file mounted on the outer peripheries of the belts, means for positively moving the belts in opposite directions, means adjustably supporting the inside of the lower stretches of the belts whereby the belts can be made to closely fit and surround a flat, a concave or a convex surface of an object being filed, and means functioning to allow the belts to tilt and adjust themselves laterally to a flat, a concave or a convex surface.

2,323,579
FOOT EXERCISING DEVICE
Anthony Vigorith, Cincinnati, Ohio
Application March 10, 1941, Serial No. 382,537
4 Claims. (Cl. 36—71)



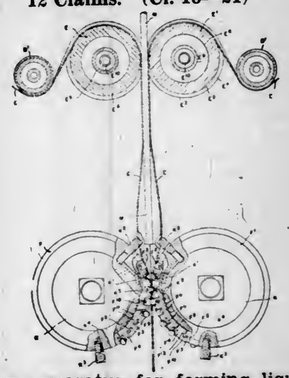
1. A foot massaging structure for shoes, comprising a thin sheet of flexible insole material cut to insole configuration and having a series of transverse apertures formed therein, integral struts between the apertures, having the same thickness as the flexible material of the insole, a series of soft resilient pads each shaped to fit an aperture, said pads each being approximately twice the thickness of the insole material, the thickness of each pad being uniform at all points on its surface, and along all edges thereof, whereby the pads when located within the apertures of the insole present sharply defined edges spaced apart and elevated above the struts and the adjacent areas of the insole sheet, to furnish a series of spaced projecting edges having a massaging action upon the foot of the wearer as the foot in walking alternately applies and releases pressure against the pad edges.

2,323,580
ROLL COVER
Helene E. Uhlig, Highland Park, Mich.
Application May 24, 1941, Serial No. 395,007
3 Claims. (Cl. 38—65)



3. A roll cover consisting of a strip of suitable fabric of a sufficient length to pass around said roll a plurality of times and having along each of its lateral edges elastic members which in relaxed condition are shorter than the length of fabric to which they are connected, there being means for fixing the ends of said member against movement relative to the fabric, said strip having its ends free.

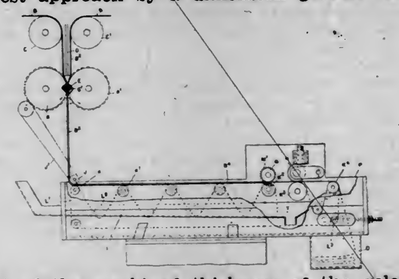
2,323,581
METHOD AND APPARATUS FOR CAPSULATING LIQUIDS
Charles L. Weckesser, Detroit, Mich., assignor to C. E. Jamieson & Company, Detroit, Mich., a corporation of Michigan
Application August 12, 1940, Serial No. 352,319
12 Claims. (Cl. 18—21)



6. In an apparatus for forming liquid filled gelatin capsules, a pair of die rolls having series of registering pockets therein, means for feeding a pair of gelatin strips downward between said rolls, means for pressing together and sealing the margins of the portions of said strips above said rolls to form thereof a liquid holder, a container for liquid medicament, a conduit for feeding the liquid medicament from said container into said holder, a second conduit extending from said container into said holder, and means for withdrawing a portion of the liquid through said second conduit and returning the same to said container whereby the liquid in said holder is circulated to maintain the same at a constant temperature and also to maintain a constant hydrostatic level.

2,323,582
METHOD AND APPARATUS FOR CAPSULATING LIQUIDS
Charles L. Weckesser, Detroit, Mich., assignor to C. E. Jamieson & Co., Detroit, Mich., a corporation of Michigan
Application May 13, 1941, Serial No. 393,293
5 Claims. (Cl. 18—21)

1. In an apparatus for forming liquid-filled gelatin capsules, a pair of die rolls having registering pockets therein arranged in transverse and circumferential series, means for feeding a pair of marginally sealed spaced and liquid-filled gelatin strips downward between said rolls, annular portions surrounding each of the pockets in the respective rolls adapted to roll in contact with each other, the peripheral portions of said rolls intermediate said annular portions being spaced from each other at the point of closest approach by a dimension greater than



that of the combined thickness of the gelatin strips, means for expanding the portions of said strips registering with said pockets to form liquid-filled capsule portions which are sealed together and severed from the remainder of said strips by said contacting annular portions, thereby leaving a liquid-filled net formed by the remainder of said strips, means for puncturing said net during the continued advancement of the same, and means for squeezing out and recovering the liquid content from said punctured net.

2,323,583
METHOD OF AND MEANS FOR TREATING HYDROGELS
Alvin Chesley Wilson, Baltimore, Md., assignor to The Davison Chemical Corporation, Baltimore, Md., a corporation of Maryland
Application July 15, 1939, Serial No. 284,785
3 Claims. (Cl. 23—31)



2. A method of washing silica hydrogel, which comprises placing silica hydrogel in a substantially continuous vertical layer between upwardly extending substantially vertical walls, the said layer occupying the space between the said walls to a height many times greater than the thickness of the layer and the said walls being placed sufficiently close together to prevent packing of the hydrogel and so spaced that the weight of the hydrogel is substantially entirely supported

by the opposed wall surfaces and that the weight of the hydrogel in the upper zones of the layer on the hydrogel in the lower zones is substantially reduced, and subjecting the hydrogel to the action of a washing fluid while said hydrogel is in the layer, thereby removing impurities from said hydrogel, and removing washed hydrogel from between the wall surfaces.

2,323,584

UNSATURATED DEGRADATION PRODUCTS OF STEROLS AND A METHOD OF PRODUCING THE SAME

Walter Schoeller, Berlin-Westend, Arthur Serini, Berlin, Friedrich Hildebrandt, Hohen-Neuendorf, near Berlin, Lothar Strassberger, Berlin-Wilmersdorf, Josef Kathol, and Willy Logemann, Berlin, Germany, assignors, by mesne assignments, to Schering Corporation, Bloomfield, N. J., a corporation of New Jersey

No Drawing. Application September 19, 1935, Serial No. 41,202. In Germany September 29, 1934

43 Claims. (Cl. 260—397.4)

1. Process for the production of neutral degradation products having a cyclopentano polyhydro phenanthrene nucleus, comprising oxidizing sterols containing at least one double bond in their cyclopentano polyhydro phenanthrene nucleus with agents capable of splitting a carbon-to-carbon bond at the side chain and separating the neutral portions of the resultant oxidation products containing the cyclopentano polyhydro phenanthrene nucleus.

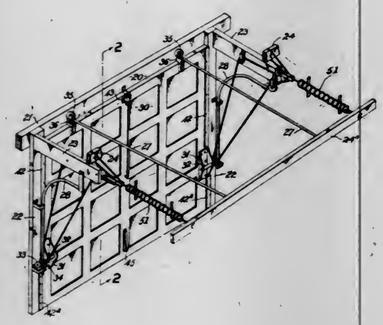
2,323,585

OVERHEAD SLIDING DOOR

William G. Deuring, Cleveland, Ohio

Application December 11, 1939, Serial No. 308,537

5 Claims. (Cl. 20—19)



1. An overhead door assembly, comprising in combination, a building frame forming a doorway, a movable closure member including a trolley device and side bearings closing the doorway when in a substantially upright position and opening the doorway when in a prone position, a rail member having a major portion extending rearwardly of the bearings and a minor portion extending forwardly thereof, and a counterbalancing mechanism mounted on the aforesaid frame and connected to the said bearings in a manner urging the closure member to the open position when the trolley device is on the said major portion or to the closed position when the trolley device is on the said minor portion.

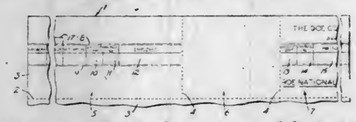
2,323,586

FOLD-OVER CHECK FORM

Daniel F. Dienna, Jr., Allentown, Pa., assignor to Remington Rand Inc., Buffalo, N. Y., a corporation of Delaware

Application April 20, 1942, Serial No. 439,687

1 Claim. (Cl. 282—3)



A foldover check form comprising a sheet formed to provide a check section, an intermediate section, and a statement section, means foldably and detachably connecting said check and statement sections to opposite ends of said intermediate section for folding of said sections into superimposed relation over opposite sides of said intermediate section in oppositely extending relation thereover to form a Z-shaped sheet structure in folded relation, said check and statement sections having free end portions extending beyond the superimposed portions of said sheet in opposite directions and at opposite sides thereof, and a row of appropriately designated sections extending in aligned relation across both the check and statement sections so that the free ends of said sections have appropriately designated sections thereon for information not to be duplicated and the overlapping portions thereon have appropriately designated sections thereon held in registry by said intermediate section for duplicating on each section simultaneously in one writing by interposing a transfer medium between the statement and intermediate section whereby one original writing will provide an original record of the information required to be written in original form on both the check and statement sections and duplicated information on said statement section of identifying information on said check section for accurately identifying the check section and statement section after detachment.

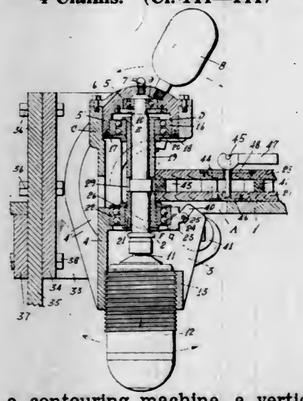
2,323,587

CONTOURING MACHINE

David H. Duffy, Wichita, Kans., assignor to Beech Aircraft Corporation, Wichita, Kans., a corporation of Delaware

Application May 18, 1942, Serial No. 443,380

4 Claims. (Cl. 144—144)



1. In a contouring machine, a vertically disposed shaft having cutter blades secured thereto with their cutting edges lying parallel to the shaft, power means to turn the shaft, rockable carrying means in which the shaft is journalled, a table and stationary supporting means positioned on the table as carrying means for the rockable carrying means, said shaft adapted to rock about a horizontal axis lying in a plane parallel to the plane of the table and bisecting the effective cutting edge of the blade, and a counterbalance to normally keep the shaft in vertical position, there being a pair of templates having aligned bevel edges and carrying a work element therebetween to space the templates apart so that the templates will engage the shaft above and below its rocking axis respectively whereby when the templates are forced into engagement with the shaft they will rock the same, and the cutter blades will trim the edge of the element to correspond with the contour of the templates as predetermined.

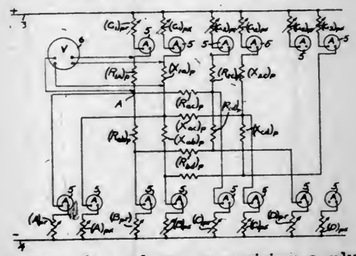
2,323,588

APPARATUS FOR A. C. NETWORK ANALYSIS

Waldo E. Enns, Portland, Oreg.

Application November 6, 1940, Serial No. 364,559

6 Claims. (Cl. 235—61)



1. A network analyzer comprising a plurality of resistance units for simulating the resistances and reactances of the various links of an actual network, means for connecting said units into two simulated networks of similar configuration but with resistances proportional respectively to the resistances only and the reactances only of said actual network, current-limiting means for supplying to and withdrawing from said two networks currents proportional to the two quadrature components of current supplied to and withdrawn from said actual network, and means for simultaneously measuring and adding algebraically the voltage drops across corresponding links of said simulated networks.

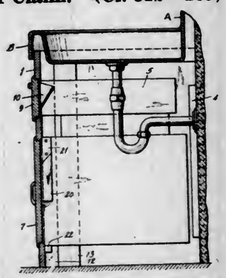
2,323,589

SINK CABINET

Aubrey E. Freshman, St. Louis, Mo., assignor to A. E. Freshman Company, a corporation of Missouri

Application August 19, 1939, Serial No. 290,980

1 Claim. (Cl. 312—169)



A knock-down cabinet structure adapted to be installed under a sink and drain board including a unitary front structure which can be tilted for installation back of a skirt on the sink in a vertical position and having an opening closed by a door and a second opening above and in alignment with the first mentioned opening to accommodate a drawer, a detachable compartment open at its front to register with the first mentioned opening in the front structure, drawer runners secured to the upper surface of said compartment, means secured to the inner surface of the front structure adjacent said opening on which said compartment may be arranged after the front structure is in vertical position as aforesaid to support the compartment.

2,323,590

PHOTOGRAPHIC COLOR PICTURE

Alfred Fröhlich and Wilhelm Schneider, Dessau, and Paul Heisel, Gersthofen, Germany, assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application October 24, 1940, Serial No. 362,592. In Germany November 9, 1939

11 Claims. (Cl. 95—6)

7. The process of producing photographic color pictures which comprises developing an exposed silver halide emulsion with an aromatic developer containing a primary amino group and simultaneously reacting the oxidation products produced in such development with a color former comprising a hydroxyaryl-terpene.

2,323,591

RUBBER CONTAINING TEXTILE PRINTING PASTE

David M. Gans, Bronx, N. Y., assignor to Interchemical Corporation, New York, N. Y., a corporation of Ohio

No Drawing. Application July 12, 1939, Serial No. 283,997

5 Claims. (Cl. 260—727)

1. A textile printing paste comprising a dispersion of color in a vehicle, comprising a solvent having dispersed therein a color binding agent consisting essentially of depolymerized rubber and a rubber derivative, of the class consisting of chlorinated rubber and the reaction products of rubber and amphoteric metal halides in amount sufficient to materially reduce the tack of the rubber, but not exceeding 50% of the weight of the rubber.

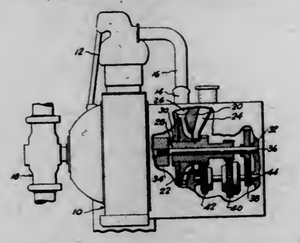
2,323,592

TWO-SPEED SUPERCHARGER DRIVE CONTROL

Harry W. Gunberg, West Hartford, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware

Application February 24, 1940, Serial No. 320,710

11 Claims. (Cl. 74—189.5)



1. In combination, a change speed transmis-

sion having different ratio gear trains and fluid operated clutches for rendering said gear trains operative or inoperative, a source of hydraulic fluid under pressure, and a control valve hydraulically connected between said fluid source and said transmission operative to control the supply of fluid to said clutches individually to render said gear trains operative seriatim and impose a time interval between the end of the operative phase of one gear train and the beginning of the operative phase of the next gear train in the gear ratio series, said valve comprising a movable element operative to connect said clutches in sequence with said source of hydraulic fluid under pressure, resilient means actuatable to move said movable member in at least one direction, and hydraulic means controlling the rate of movement of said movable member by said resilient means.

2,323,593

MANUFACTURE OF CHLORINE DIOXIDE

Clifford Allen Hampel and Maurice C. Taylor, Niagara Falls, N. Y., assignors to The Mathieson Alkali Works, Inc., New York, N. Y., a corporation of Virginia

No Drawing. Application October 8, 1941, Serial No. 414,140
4 Claims. (Cl. 23—152)

1. In the production of chlorine dioxide, the improvement which comprises reacting a chlorite of a metal of the class consisting of the alkali and alkaline earth metals with a persulfate of a metal of the class consisting of alkali and alkaline earth metals in the presence of water at a pH between about 3 and about 11.

2,323,594

PRODUCTION OF CHLORINE DIOXIDE BY REACTION OF CHLORITES AND ALDEHYDES

Clifford A. Hampel, Niagara Falls, N. Y., assignor to The Mathieson Alkali Works, Inc., New York, N. Y., a corporation of Virginia

No Drawing. Application October 29, 1941, Serial No. 417,001
10 Claims. (Cl. 23—152)

1. In the production of chlorine dioxide, the improvement which comprises reacting a chlorite of a metal of the group consisting of alkali metals and alkaline earth metals with an aldehyde in the presence of water at a pH below about 9.

2,323,595

MASCARA APPLICATOR AND CURLER

Arthur O. Hanisch, Altadena, Calif.

Application January 23, 1941, Serial No. 375,564
3 Claims. (Cl. 15—210)



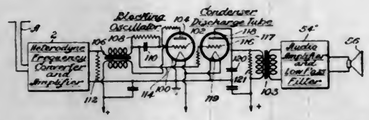
1. An applicator device of the character described including a pair of arms, means for supporting said arms in opposing relation, one of said arms being convex curved and the other being concave curved, as viewed from between said arms a concave surface formed in said convex arm and a convex surface in said concave arm, the inner opposing surfaces of said arms being substantially equally distant from each other, and a curved pad of uniform thickness mounted on the inner opposing surface of each of said arms, at least one of said pads being impregnated with mascara.

2,323,596

FREQUENCY MODULATION RECEIVER

Clarence W. Hansell, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application June 17, 1941, Serial No. 398,391
6 Claims. (Cl. 250—20)



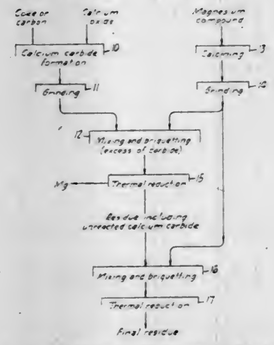
1. In a receiver of angular velocity-modulated carrier waves, a demodulator comprising a first electronic device having at least a cathode, a wave input electrode and an output electrode, means regeneratively coupling the output and input electrodes to provide an oscillator, means operatively associated with the oscillator normally to cause high peaks of output electrode current of short duration at a frequency close to the lowest wave frequency supplied to the receiver, a second electron discharge device having electrodes coupled to said oscillator device to derive therefrom a voltage representative of the modulation of applied waves, and a modulation voltage utilization circuit coupled to the second device.

2,323,597

PROCESS OF MANUFACTURING METALLIC MAGNESIUM

Fritz J. Hansgirg, San Mateo, Calif., assignor to Marine Magnesium Products Corporation, South San Francisco, Calif., a corporation of Delaware

Application July 12, 1941, Serial No. 402,160
2 Claims. (Cl. 75—67)



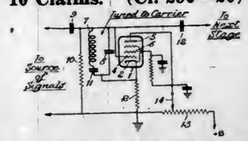
1. In a process for the manufacture of metallic magnesium by thermal reduction of magnesium oxide with calcium carbide, the steps of intermixing the calcium carbide with magnesium oxide in proportions such that there is an excess of calcium carbide present over that theoretically required to combine with the magnesium oxide, subjecting the mixture to a reducing operation at an elevated temperature, intermixing the residue of the reducing operation with additional magnesium oxide, and then subjecting the last-named mix to a second thermal reduction operation at an elevated temperature for reduction of the additional magnesium oxide.

2,323,598

VARIABLE SIGNAL RESPONSE NETWORK

Jarrett Lewis Hathaway, Manhasset, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application January 7, 1941, Serial No. 373,470
10 Claims. (Cl. 250—20)



1. In combination with signal input terminals and output terminals, a reactive impedance coupling said input and output terminals, an electron discharge tube provided with input and output electrodes, said tube including an unby-passed resistive impedance arranged in the space current path thereof and common to its input and output electrodes, means connecting said reactive impedance between the input electrodes of said tube, said reactive impedance and said resistive impedance being arranged in series relation across the signal input terminals, said signal output terminals being connected across solely said series impedances, and means for varying the transconductance of said tube thereby to vary the effective magnitude of said reactive impedance.

2,323,599

ART OF FINISHING CUT-CRYSTAL ELEMENTS

Henry W. N. Hawk, Merchantville, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application August 17, 1940, Serial No. 353,031
4 Claims. (Cl. 171—327)



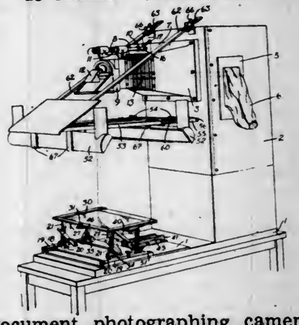
1. Method of finishing a ground crystalline element which comprises applying to the freshly ground surfaces of said element a strongly adherent coating, and subsequently stripping said coating.

2,323,600

DOCUMENT PHOTOGRAPHING CAMERA

Victor C. Heybourne, Tonawanda, N. Y., assignor to Remington Rand Inc., Buffalo, N. Y.

Application July 3, 1940, Serial No. 343,803
15 Claims. (Cl. 88—24)



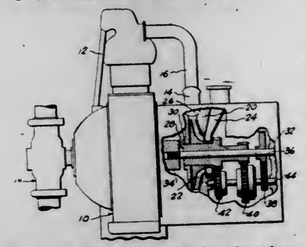
1. A document photographing camera comprising a base, a casing mounted on one end of the base, a supporting tube mounted at one end on one side of the casing and extending over the other end of the base, supporting means on said tube projecting beyond the free end thereof over said base, a photographic unit slidable axially of said tube on said supporting means into either of a plurality of predetermined positions, a flexible tubular member connecting the end of said supporting tube and said photographic unit, holding means in said casing at the end of said tube for holding a sensitized sheet in position for cooperation with said photographic unit, a copyholder plate for holding a document to be photographed, pivoted links connected to said copyholder plate at one end and said base at the other and movably supporting said copyholder plate on said base in parallel relation to the axis of said tube, and means for retaining said copyholder in either of a plurality of positions of movement on said links relative to said base, each position corresponding to one of the positions of said photographic unit whereby a document will be held in focus with said photographic unit in each of said positions.

2,323,601

TWO-SPEED SUPERCHARGER DRIVE

Leonard S. Hobbs, West Hartford, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware

Application January 10, 1940, Serial No. 313,231
6 Claims. (Cl. 74—189.5)



1. In a change speed gear drive having a driving member and a driven member, and a plurality of gear drives of different ratios between said members, a clutch associated with each gear drive to render the respective gear drive operative or inoperative, a single hydraulic coupling between said driving and driven members operative to accelerate said driven member from a lower to a higher speed, and a selector valve associated with said clutches and said coupling to render said clutches and said coupling operative in an order such that the driving connection may be made through the hydraulic clutch before each coupling is engaged in a speed increasing direction.

2,323,602

WITHDRAWN

2,323,603

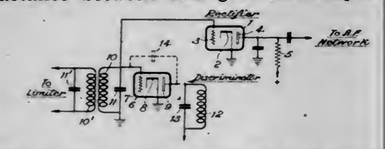
FREQUENCY MODULATION DETECTOR

Seymour Hunt, Flushing, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application August 26, 1941, Serial No. 408,319
11 Claims. (Cl. 250—27)

1. In combination, an electron discharge tube provided with at least a cathode, control grid and output electrode, a tuned circuit connected to said control grid, a tuned circuit connected

to said output electrode, each of said tuned circuits being resonated to the same frequency, a source of frequency-variable waves coupled to said tuned grid circuit, and said resonant frequency being the center frequency of said source waves, means providing sufficient capacitative reactance between said grid and output elec-



trode to cause the damping of said tuned grid circuit to vary substantially with the frequency variation of said waves, and means for utilizing resultant waves of variable amplitude produced across said tuned grid circuit by said varying damping.

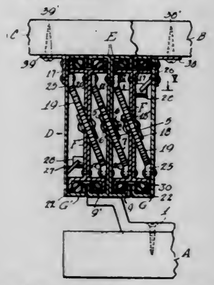
2,323,604

BALL BEARING EQUALIZING TABLE SLIDE

William M. Hyland, Flint, Mich.

Application October 7, 1940, Serial No. 360,040

8 Claims. (Cl. 311—73)



1. An equalizing slide comprising a central slide having a top and bottom, an equalizing gear rotatably carried thereby and extending obliquely so that diametrically opposite portions of the gear will project from opposing sides of the slide and be disposed near the top and bottom of the slide, intermediate slides having tops and bottoms and being movable along both sides of the central slide and having racks meshing with the gear, the racks extending in opposite directions so that a movement of one intermediate slide in one direction with respect to the central slide will cause the other intermediate slide to move in the opposite direction, equalizing gears rotatably carried by the intermediate slides and extending at an angle so that diametrically-opposite portions of the gears will project from opposite sides of the slides and be disposed near the tops and bottoms of the slides, racks carried by the central slide and meshing with said last-named gears, end slides arranged adjacent to the intermediate slide gears and having racks meshing with the gears of the intermediate slides, the racks on the central and end slides being arranged for causing the end slides to move in opposite directions and at the same speed.

2,323,605

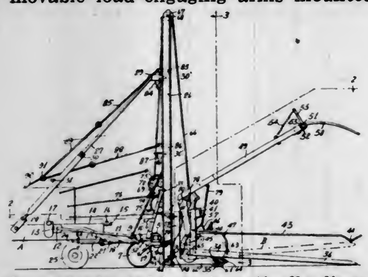
COMBINED SWEEP RAKE AND STACKER

John Melvin Johnson, Lindsborg, Kans.

Application November 13, 1942, Serial No. 465,473

4 Claims. (Cl. 214—113)

1. A combined sweep rake and stacker, comprising a wheel-supported frame adapted to be coupled to a power device, a pair of spaced uprights mounted on the frame, a pivoted rake mounted for movement longitudinally of the uprights, removable end sections forming a part of the rake and adapted to be disconnected from the main portion of the rake, whereby the width of the rake may be reduced, and a pair of vertically movable load-engaging arms mounted on



the rake and adapted to automatically disengage the load on the rake when the rake is dumped, means for elevating the rake, and means for temporarily supporting the rake at the upper end of the frame.

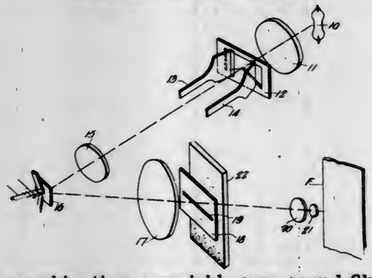
2,323,606

SOUND RECORD PRODUCING APPARATUS

Edward W. Kellogg, Moorestown, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application June 24, 1939, Serial No. 280,960

1 Claim. (Cl. 179—100.3)



In combination, a variable area sound film recording optical system including a mercury vapor light source and a series of lenses adapted to focus a fine line of light from said source upon a film, means including a light slit element for modulating the light from said source in accordance with sound to be recorded, and a light wedge disposed in the path of said modulated light between said light slit and said film for adjusting the average intensity of said modulated light beam independently of said light modulating means.

2,323,607

PHOTOGRAPHIC SOUND RECORDING

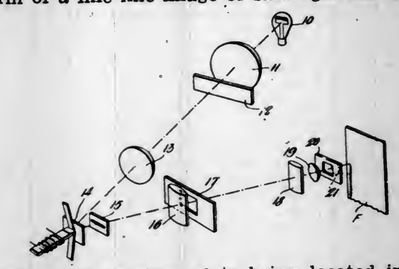
Edward W. Kellogg, Indianapolis, Ind., assignor to Radio Corporation of America, a corporation of Delaware

Application June 30, 1941, Serial No. 400,541

3 Claims. (Cl. 88—24)

1. A sound recording optical system including in sequence, a light source, a condenser lens, a fixed stop defining a side of the light beam, lens means forming an image of said light source, means in the plane of said image for vibrating the beam in accordance with sounds to be recorded, a plate having a light slit therein, means for producing an image of said fixed stop, an

aperture plate for receiving said image, and an objective for directing said beam of light in the form of a fine line image of said light slit upon



a film, said aperture plate being located in an aperture stop plane of said objective.

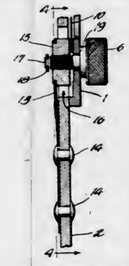
2,323,608

INSTRUMENT DIAL LOCK

Arthur S. Kester, Chicago, Ill., assignor to Rauland Corporation, Chicago, Ill., a corporation of Illinois

Application May 4, 1942, Serial No. 441,757

4 Claims. (Cl. 188—71)



1. A device for locking an adjustable control member comprising a stationary support means, a control member movable in a predetermined path with respect to said support means, a plate affixed to said control member, said plate resilient in directions substantially at right angles to its normal plane of movement, resilient lock means integrally secured at one end to said support means and positioned in close proximity with the surface of said plate, manually operative clamping means coactively related with said lock means and said support, whereby the operation of said clamping means will move said lock means into frictional contact with said plate and thence move said plate into frictional contact with said stationary support means to secure said plate and said control member in a fixed relation with said support means.

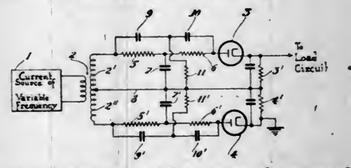
2,323,609

DISCRIMINATOR CIRCUIT

Harry Kihn, Audubon, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application April 16, 1942, Serial No. 439,246

7 Claims. (Cl. 250—40)



5. In combination with a pair of opposed rectifiers, a filter of the resistance-capacity type connected to one rectifier, a second filter of the same type connected to the second rectifier, the impedances of the filters maximizing at frequencies spaced a predetermined frequency value apart, and a source of frequency modulated waves coupled to both filters.

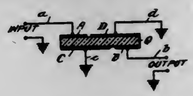
2,323,610

PIEZOELECTRIC CRYSTAL ASSEMBLY

Winfield R. Koch, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application June 4, 1942, Serial No. 445,718

5 Claims. (Cl. 171—327)



1. In combination, a piezoelectric crystal, an input electrode disposed on one side of said crystal, an output electrode disposed on the opposite side of said crystal and offset from said input electrode, and a second pair of electrodes having an area larger than the area of said input and output electrodes disposed on opposite sides of said crystal and effectively connected together for minimizing the capacitive transfer of energy between said input and output electrodes.

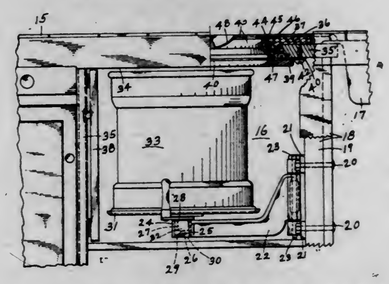
2,323,611

PERTAINING TO GARBAGE DISPOSAL

Charles Le Bleu, Los Angeles, Calif.

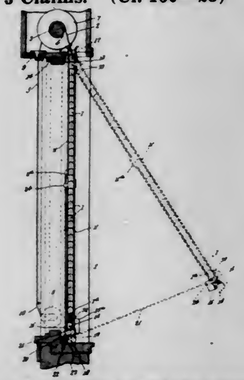
Application February 17, 1940, Serial No. 319,518

3 Claims. (Cl. 248—144)



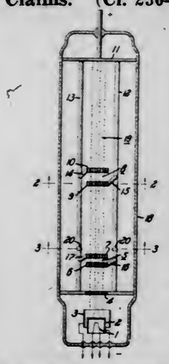
1. In a device of the character described, an arm supported for selective horizontal swinging movement in a fixed path of travel, a container support arranged on the free end of said arm for axial vertical movement, a garbage container normally disposed on said support and having an open end through which garbage may be deposited therein, a closure for the open end of said container, means supporting said closure relative to said path of travel above said container so that said arm and said container support may be swung to dispose said container in a position of vertical alignment with said closure for closed position of said container or selectively to a vertically spaced laterally offset position relative to said closure for open position of said container, and operatable control means between said arm and said container support arranged to function when operated to raise said container support and provide forcible closing contact of the open end of said container with said closure in closed position of said container.

2,323,612
PROJECTING SYSTEM FOR WOODEN OR METALLIC COILING CURTAINS OF ANY MODEL
Alberto Lombardi, Alberto Saponare, and Juan Rafael Saponaro, Montevideo, Uruguay
Application July 26, 1940, Serial No. 347,624
3 Claims. (Cl. 160—23)



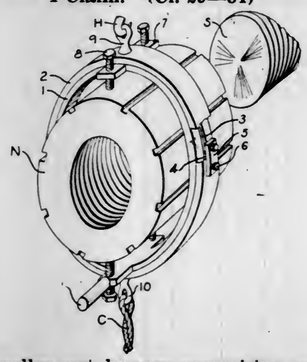
1. A device for coiling curtains comprising a support, substantially vertical guides pivoted adjacent their upper ends to the support for swinging movement, locking mechanism carried by the support to engage the guides and hold them in their normal substantially vertical position, a curtain slidably disposed within said guides, means to raise and lower said curtain within the guides, means carried by the curtain to engage the guides and raise them vertically out of engagement with the locking mechanism, and a thrust member connecting one of the guide elements with the support member, said thrust member pivotally engaging one of said guide elements and slidably engaging the other guide element to be actuated by said vertical movement of the guides to swing the guides about their pivots.

2,323,613
ULTRA HIGH FREQUENCY GENERATOR
Fritz Lüdi, Baden, Switzerland, assignor, by mesne assignments, to "Patelhold" Patentverwertungs & Elektro-Holding A. G., Glarus, Switzerland, a joint stock company
Application March 6, 1941, Serial No. 382,089
In Switzerland February 20, 1940
7 Claims. (Cl. 250—36)



1. An ultra short wave generator comprising means for generating an electron beam in an evacuated space, a modulator comprising a pair of grid electrodes positioned in said beam for subjecting the beam to ultra high frequency potential variations whereby ultra high frequency velocity variations are produced in the beam, an inductor comprising a pair of grid electrodes positioned in the modulated beam whereby ultra high frequency alternating voltages are produced in said inductor, and a feed-back connection between said modulator and said inductor comprising a single resonator to which the ultra high frequency load is connected, said resonator comprising a Lecher system which is electrically terminated at at least one end, both conductors of the Lecher system being each connected to an inductor and a modulator electrode and being positioned parallel to the electron beam with the plane passing through both conductors outside said beam.

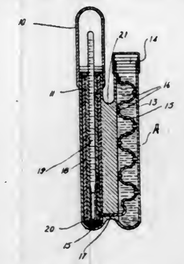
2,323,614
PROPELLER NUT HANGER
James H. MacDonald, Seattle, Wash.
Application March 21, 1941, Serial No. 384,481
1 Claim. (Cl. 29—84)



A propeller nut hanger comprising an inner ring having lugs projecting axially in both directions, and equiangularly spaced about the ring, screws arranged in pairs, and spaced axially in each pair, threaded in such lugs for radial adjustment towards and from a nut within such ring, by such adjustment to support the ring and nut coaxially, and against relative displacement, an outer ring, means removably interengageable between the two rings to support the outer ring coaxially of the inner ring, and to prevent its displacement from such coaxial relationship, and means for the support of the outer ring, and thereby of the inner ring and nut, for rotation relative to the outer ring.

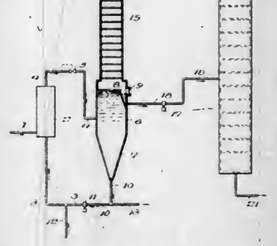
2,323,615
ANTISEPTIC THERMOMETER HOLDER
Joseph L. Martineau, St. Paul, Minn.
Application July 15, 1939, Serial No. 284,739
6 Claims. (Cl. 206—16 6)

1. A thermometer supporting instrument including an elongated tubular compartment into which the thermometer is adapted to be contained, an absorbent lining for said compartment, a cap for closing said compartment, an elongated tubular antiseptic chamber substantially parallel to and adjacent said thermometer compartment, a cap for closing said antiseptic chamber, a small passageway interconnecting said thermometer compartment and said antiseptic chamber, wick means in said antiseptic chamber, said wick means extending through and substantially filling said small passageway, a portion of one end of said wick means being embedded in said absorbent lining, said wick means feeding antiseptic material into said absorbent lining from said antiseptic chamber, whereby a thermometer may be carried in said



thermometer chamber so that the same is kept in an antiseptic condition, a pad in the bottom of said thermometer compartment, said pad adapted to cushion the end of said thermometer, a washer adjacent the top end of said thermometer compartment, and said washer providing means of holding said absorbent lining in place.

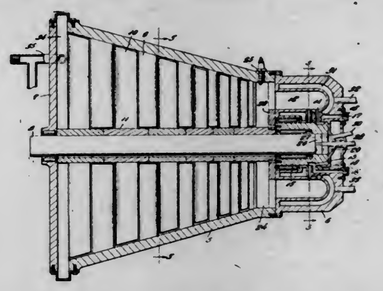
2,323,616
METHOD OF ALKYLATION
Almer M. McAfee and Edward E. Dunlay, Port Arthur, Tex., assignors to Gulf Oil Corporation, Pittsburgh, Pa., a corporation of Pennsylvania
Application June 26, 1941, Serial No. 399,882
8 Claims. (Cl. 260—683.4)



1. A method of alkylating normally gaseous iso-paraffins with normalll gaseous olefins comprising contacting a normally gaseous iso-paraffin with a normally gaseous olefin in the presence of a catalyst consisting essentially of an aluminum halide and a phenol.

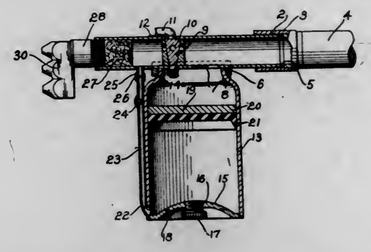
2,323,617
TURBINE ENGINE
Eugene F. Osborne, Peach Bottom, Pa.
Application October 2, 1941, Serial No. 413,351
1 Claim. (Cl. 60—41)

An internal combustion turbine engine comprising a casing having a head thereon, a shaft journaled in the casing having turbine blades connected thereto, combustion chambers in the head having communication with the blades, valve means controlling intake of an explosive charge to the chambers, valve means controlling discharge of gases therefrom, opposed blades on the shaft and valve cooperating to provide a fluid



drive connection therebetween, and a starting drive shaft connected to the blades of the valve.

2,323,618
SPRAY GUN
Oscar Ottoson, Bronx, N. Y.
Application May 23, 1940, Serial No. 336,838
1 Claim. (Cl. 299—85)

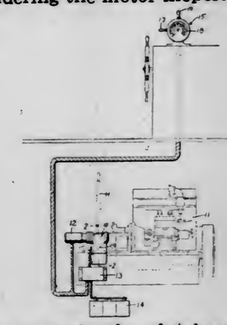


In a spray gun, a barrel having a connection for a fluid source, a container associated with the barrel, a piston slidable in the container, said container adapted to contain a chemical, a pipe connecting the container, below the piston, with the barrel, a valve in the barrel for controlling fluid flow therethrough, a mixing element carried by the barrel near its forward end, said barrel having an opening between the valve and the connection, and means connecting said barrel to said container, said opening being adapted to admit fluid under pressure to the container above the piston and to force the piston to move within said container whereby the chemical will be forced through the pipe and into the barrel at the other side of the valve, said mixing element effecting mixing of said chemical and fluid passing through the valve for forming a spraying solution, said mixing element comprising a wad of brass wool.

2,323,619
CLUTCH CONTROL DEVICE
Erwin J. Panish, Bridgeport, Conn.
Application August 14, 1940, Serial No. 352,499
42 Claims. (Cl. 192—84)

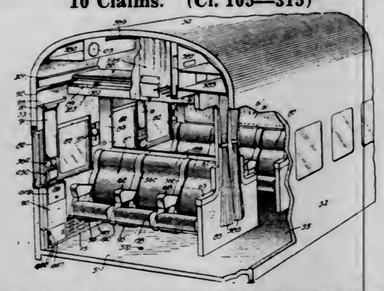
1. In a clutch control device, a motor; a clutch-actuating mechanism operated by the motor; manually operated means for energizing said motor to operate said actuating mechanism and move the clutch from neutral to engaging position; and means operated by the continued rotation of the motor and in response to cessation

of such clutch engaging movement for automatically rendering the motor inoperative to continue



to apply power to the clutch-actuating mechanism.

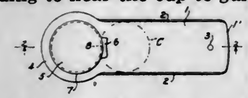
2,323,620
COACH-SLEEPER VEHICLE
Peter Parke, Chicago, James K. Tully, Evanston, Leif Andersen, Chicago, and Basil E. Jones, Flossmore, Ill., assignors to The Pullman Company, Chicago, Ill., a corporation of Illinois
Application July 31, 1940, Serial No. 348,670
10 Claims. (Cl. 105—315)



1. In a railway car, an aisle extending lengthwise to the car adjacent to one of the car sides, a room adjacent to the other side of the car, partitions extending crosswise to the car from the car side wall on the room side and ending at the aisle, said partitions extending from the floor to the ceiling and together with the last mentioned car side wall serving as room walls, the room on the aisle side being open, a sofa in the room extending crosswise to the car with its back against one of the partitions, said last named partition above the top of the sofa back being open over a substantial portion of its area, a berth unit adjacent to the last named wall comprising a berth pan horizontally hinged above the opening and adapted to pivot from a vertical position over the opening to a horizontal position above the opening, and a bunk supported by said pan.

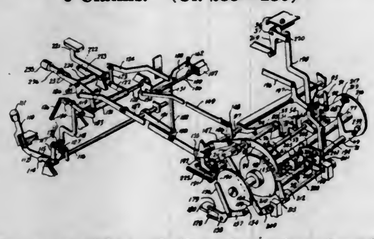
2,323,621
TOOL FOR UNSEALING CROWN BOTTLE CAPS
Harold D. Penney, deceased, late of Pelham, N. Y., by Elizabeth Penney, executrix, Stamford, Conn., and Clarence S. Jackson, Brooklyn, N. Y.
Application January 14, 1942, Serial No. 426,764
2 Claims. (Cl. 81—3.46)

1. A sheet metal tool for unsealing crown bottle caps, said tool comprising a flat handle and a cup at one end of the handle having its wall joining the cup bottom and said handle; the cup wall having an opening confronting the handle, the cup having near the opening and the cup bottom a cap-removing edge transverse to the handle and spaced slightly more than cap-depth from said handle and parallel to the plane of the handle; said handle being provided with side flanges disposed substantially cap-width distance apart turned toward the plane of the cup bottom and extending to near the cup to guide said cap-



removing edge to the cap while the flat handle is flat against the top of the cap, and during unsealing to position said cap-removing edge under the edge of the cap and prevent lateral movement of the tool at the cap; the flat handle during unsealing engaging the entire top face of the cap while thus positioned by the flanges and serving as a flat fulcrum-engaging part on the cap to avoid cap-distortion during unsealing.

2,323,622
COMBINED TYPEWRITING AND COMPUTING MACHINE
Henry L. Pitman, Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware
Application June 22, 1939, Serial No. 280,537
6 Claims. (Cl. 235—130)

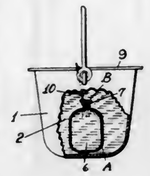


2. In a machine of the character described having a key; a reciprocatory actuator, a lock device conditioned substantially concomitantly with reciprocation of said actuator to lock said key, means tending before the end of the return stroke of said actuator to restore said lock device, a block movable to a position to prevent restoration of said lock device, means tending to restore said block, means enabling said actuator in a final portion of its return stroke to pick up and move said block to said position, and means acting at the end of the return stroke of said actuator to release said block for consequent restoration of said block and said lock device.

2,323,623
APPARATUS FOR FRYING POULTRY, FISH, OR OTHER MEAT PRODUCTS
George W. Porter, Kansas City, Mo., and Benjamen F. Krehbiel, Wichita, Kans.
Application July 23, 1941, Serial No. 403,694
1 Claim. (Cl. 53—21)

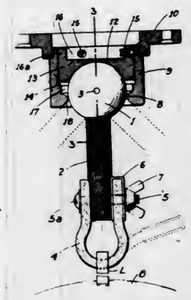
In a flexible grease tight container of the class described, the container comprised of two side members, substantially rectangular in form whereby sides, bottom and top edges are provided, the top edge being open while a marginal portion of the sides and bottom are lapped back on themselves and being stitched together as a grease tight enclosure, the closing means for the top consisting of a metal strip to lie on the outer side,

a portion of each end of the strip extending outward from the container while one edge of the strip is flush with the outer extremity of the container at its open end and being rolled for lapped engagement of the flexible material and secured by bending said end portions of the metal strip inward toward each other to snugly engage on



the other side of the container to avoid unrolling during the process of frying meat contained therein, and the stitching to function as an exit for steam rising from the meat while cooking, the stitching apertures being normally closed against injection of grease but free as an exit for the steam under the force of inflation.

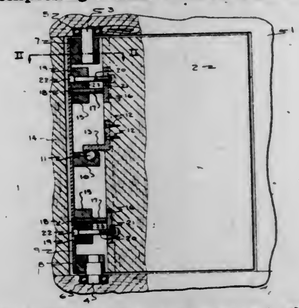
2,323,624
SWIVEL
Myron R. Schall, Sacramento, Calif.
Application August 25, 1941, Serial No. 408,221
6 Claims. (Cl. 272—78)



1. A swivel mounting for a punching bag comprising a ball, a socket unit for the ball having a bottom opening, exposing the bottom portion of the ball, means to mount the unit in depending relation to a platform, and a non-extensible resilient cylindrical stem deflectible universally relative to a straight axial line, secured in and depending from the ball radially thereof; there being a bag-loop engaging element on the lower end of the stem.

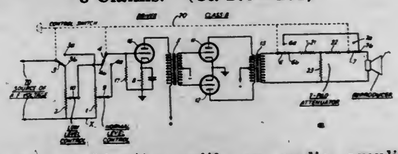
2,323,625
LATERAL DOOR ADJUSTMENT STRUCTURE
David J. Seaman, Battle Creek, Mich.
Application August 2, 1940, Serial No. 349,407
5 Claims. (Cl. 20—16)

1. In a door, a body portion, a vertical post portion adjacent one edge of the body portion, having a laterally extending recess therein for telescopically receiving said door portion, a substantially horizontal ledge on one of said portions and a substantially horizontal shoulder on the other of said portions, said ledge supporting said shoulder, whereby the door portion is supported with respect to the post portion, and means connecting said body and post portions together, said means comprising means to draw said body por-



tion to said post portion and means to force said body portion from said post portion.

2,323,626
DISTORTION CONTROL
Berthold Sheffield, Rocky Point, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application November 7, 1941, Serial No. 418,126
8 Claims. (Cl. 179—171)

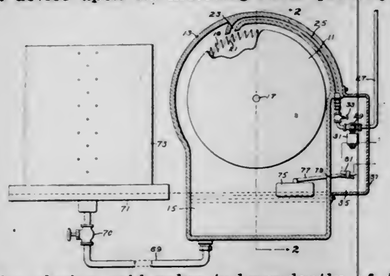


1. In combination with an audio amplifier whose input voltage-output characteristic has an appreciable curvilinear portion at low input level, an audio input source, an audio utilization means, an audio volume level control device adapted to control the transfer of audio energy from said source to said amplifier over a range of relatively low input values, a second volume level control device adapted to control said transfer over a range of relatively higher input values such as normally to operate said amplifier over the linear portion of its characteristic, said first control device being constructed to operate said amplifier at the less curved part of said curvilinear portion, means adapted to reduce the audio volume level of the amplifier output to an extent sufficient to compensate for increase in audio level at said first control device, and means for selectively connecting said first control device and audio volume reducing means into their respective control circuits and disconnecting said second volume control device.

2,323,627
LIQUID METERING DEVICE
Rallston M. Sherman, Glastonbury, Conn.
Application February 3, 1940, Serial No. 317,165
12 Claims. (Cl. 221—101)

3. A combined oil meter and constant level oil tank for feeding oil to the oil chamber of a combustion tube burner, a metering device for delivering a predetermined quantity of oil to said tank, a valve for establishing and interrupting flow of oil to said device; means controlled by the level of oil in said tank, effective until such predetermined quantity has been delivered thereto, for actuating said valve for maintaining a substantially constant level of oil in said tank whereby to cause a substantially uniform flow

of oil to the chamber, and means actuated by said device upon its metering such quantity of



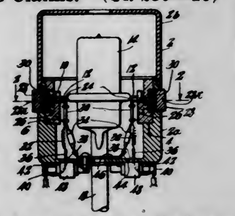
oil for closing said valve independently of the level of oil in said tank.

2,323,628

ART OF MOUNTING ELECTRON DISCHARGE DEVICES

Rogers M. Smith, Ashland Terrace, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application January 31, 1941, Serial No. 376,865
5 Claims. (Cl. 250—16)



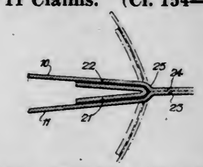
1. A mount for an electron discharge tube comprising a metal housing containing a socket having a plurality of contacts mounted to receive the terminals of said tube, a plurality of armature plates individual to said socket contacts mounted in circumferentially spaced relation within said housing and presented in useful capacitive relation to the inner surface of said housing whereby said armature plates and said housing comprise a plurality of capacitors having a common armature, and means connecting said socket contacts to the capacitor armatures which are individual thereto.

2,323,629

FLEXIBLE COLLAPSIBLE FLUID CONTAINER AND METHOD OF PRODUCING SAME

Abraham N. Spánel, New York, N. Y.

Application December 16, 1942, Serial No. 469,268
11 Claims. (Cl. 154—42)



1. A bladder comprising opposite walls of flexible thermoplastic resinous sheet material whose adjacent marginal edges are fused together in overlapping relationship providing self seams of said material, and a reinforcing strip extending over an edge of said seam, said strip having an inner thermoplastic face fused to said sheet walls on respectively opposite sides of said seam edge.

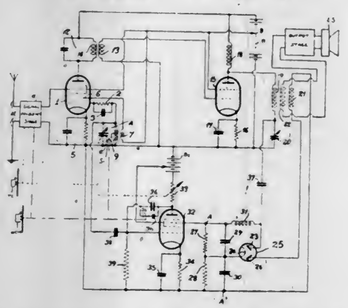
5. The method of forming a bladder which comprises overlapping marginal edges of respectively cooperating free ends of flexible sheet thermoplastic resinous material, placing a fabric strip at the juncture so provided and with one face of said strip lying contiguous corresponding faces of said ends on respectively opposite sides of said juncture, there being a thermo-active substance on said contiguous face of said strip and applying heat and pressure to said overlapped edges and to said fabric strip to thereby cause said overlapped marginal edges of sheet material to be fused into a sealing seam and said fabric strip to be adhesively fused to said sheet material bridging said seam.

2,323,630

RADIO RECEIVING SYSTEM

Rolf Edmund Spencer, London, England, assignor to Electric & Musical Industries, Limited, Hayes, England, a company of Great Britain

Application December 12, 1935, Serial No. 54,003
In Great Britain December 13, 1934
15 Claims. (Cl. 250—40)



1. A modulated carrier wave receiver comprising a tuning circuit, controlling means for determining the tuning of said tuning circuit, discriminating means operating under the control of oscillations derived from a received carrier to generate an electrical effect which, in its sign and magnitude, is dependent upon the sense and the magnitude of the mistuning of said receiver with respect to said desired carrier and means for causing said controlling means to be operated automatically under the control of said electrical effect to tend to compensate for said mistuning, said discriminating means comprising a first reactive circuit having a positive reactance, a second reactive circuit having, when said receiver is accurately tuned for the reception of said desired carrier, a negative reactance of substantially the same magnitude, said two reactive circuits consisting of a pair of opposed rectifiers of the diode type provided with a common input circuit, a condenser and an inductance being arranged in series relation, and in resonance with the frequency of said derived oscillations, to provide said common input circuit, and means for feeding said oscillations to said first and second reactive circuits.

2,323,631

REGENERATION OF DEACTIVATED CUPROUS CHLORIDE SOLUTIONS

Robert Stadler, Heidelberg, and Albert Auerhahn, Neckargemuend, Germany; vested in the Alien Property Custodian

No Drawing. Application March 16, 1940, Serial No. 324,384. In Germany January 25, 1939
4 Claims. (Cl. 252—239)

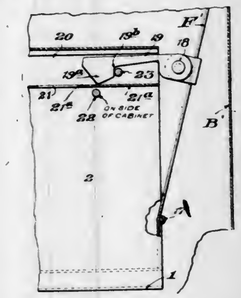
1. The process of regenerating deactivated cuprous chloride solutions which have been employed to catalyze the conversion of acetylene into vinyl acetylene which comprises adding to said deactivated solution an amount of hydrochloric acid equal to 1–15% by weight of said solution, heating the thus acidified solution in the absence of oxygen and free acetylene to a temperature of 60° to 95° C. until a filtered sample thereof on dilution with water yields a pure cuprous chloride precipitate, thereafter filtering the thus treated solution, and recovering as the filtrate a regenerated cuprous chloride solution having a catalytic effect for said conversion reaction equal to freshly prepared cuprous chloride solutions.

2,323,632

DRAWER WITH TILTING BACK WALL

Clarence W. Straubel, Youngstown, Ohio, assignor to The General Fireproofing Company, Youngstown, Ohio, a corporation of Ohio

Original application June 6, 1941, Serial No. 396,956. Divided and this application November 12, 1942, Serial No. 465,393
6 Claims. (Cl. 45—2)



1. In a filing cabinet having side and rear walls, the combination including, a drawer mounted for sliding movement in the cabinet and including side and bottom walls, a back wall hinged on a transverse axis to the rear of the drawer body and movable from a vertical position when the drawer is closed to a rearwardly inclined position when the drawer is open, cooperating latch and keeper means respectively associated with the back wall and drawer and interengageable for holding the back wall in vertical position when the drawer is closed, and fixed means on the cabinet cooperating with the latch to control the unlatching of said latch and keeper means when the drawer is opened.

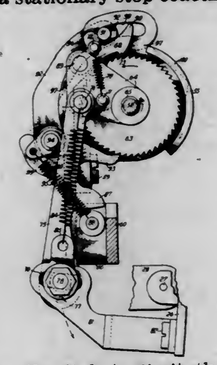
2,323,633

TYPEWRITER ACTUATING MECHANISM FOR COUNTERS

Russell G. Thompson, Elmira, N. Y., assignor to Remington Rand Inc., Buffalo, N. Y., a corporation of Delaware

Application May 22, 1941, Serial No. 394,661
2 Claims. (Cl. 235—102)

1. In a typewriting or like machine, the combination of an oscillating member, a counter, a ratchet wheel operatively connected to said counter, a carrier mounted for forward and reverse movement concentric with said ratchet wheel, a pawl pivotally mounted on said carrier for movement into and out of cooperative relation with the teeth of said ratchet wheel, a link pivotally connected to said carrier and resiliently connected to said oscillating member, stop means on said link, and a stationary stop coacting with said



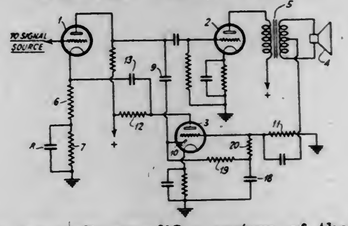
stop means on the link to limit the movement of the link.

2,323,634

LOW FREQUENCY AMPLIFIER

Jacob van Slooten and Rudolf Friedrich Volz, Eindhoven, Netherlands, assignors, by mesne assignments, to Radio Corporation of America, New York, N. Y., a corporation of Delaware

Application August 7, 1937, Serial No. 157,927
In Germany August 11, 1936
3 Claims. (Cl. 179—171)



1. In an audio amplifier system of the type comprising at least two cascaded amplifier tubes, a volume range expander network comprising a negative audio feedback path connected between the output circuit of the second tube and the input circuit of the first tube, means operatively associated with said path for decreasing the feedback of audio voltage to said input circuit in response to increase of the audio amplitude, and additional means operatively associated with said feedback path for increasing the feedback of audio voltage of high audio frequencies to a greater extent than voltage of low audio frequencies in response to a decrease of the said amplitude.

2,323,635

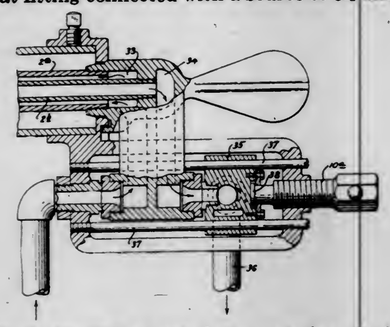
BURNER HEAD AND MOUNTING

Joseph T. Voorheis, Oakland, Calif.

Application August 19, 1941, Serial No. 407,447
5 Claims. (Cl. 158—73)

1. In a device of the character described, a burner head having an inlet end and a discharge end, an arcuate arm connecting said ends and having a passage formed therein to convey oil from the inlet end to the discharge end, a mounting to receive and support the burner head, said mounting comprising an elongated plate having an upper and a lower opening formed therein, a yoke having a pair of spaced arms secured to the plate and extending outwardly from the plate, said yoke aligning with the lower opening in the plate, a burner tube secured to the discharge end

of the burner head and adapted to extend through the upper opening in the plate and to form a swivel-like support for the burner head to permit the inlet end to be swung inwardly between the arms of the yoke to align with the lower opening, a seat fitting connected with a source of oil under



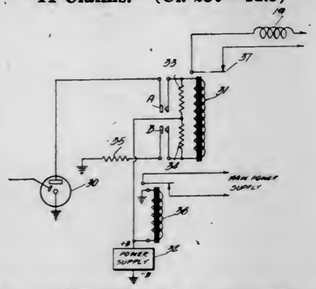
pressure secured in the lower opening, and a clamping screw carried by the yoke engageable with the burner head to secure the inlet end thereof in seated engagement with the seat fitting when oil is to be conveyed to the burner pipe.

2,323,636

BOTTLE INSPECTION APPARATUS

Paul Weathers, Audubon, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application September 30, 1939, Serial No. 297,217
11 Claims. (Cl. 250—41.5)



4. The combination of an amplifier provided with an output circuit, a device to be operated connected to said output circuit, and control means operable to render said device responsive during successive intervals of time to the flow of current in said circuit and to the absence of current in said circuit during each cycle of operation of a cyclic machine.

2,323,637

CENTRIFUGAL PUMP IMPELLER BALANCING PROCESS

Philip H. Williams, San Jose, Calif.

Application August 4, 1940, Serial No. 351,350
2 Claims. (Cl. 103—115)



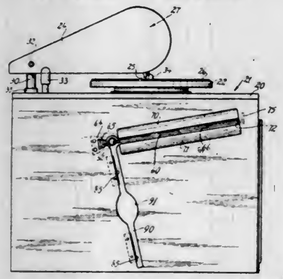
1. The process of balancing a centrifugal pump impeller and the like, consisting in filling the impeller passages completely full of a medium of a specific gravity approximating that of the liquid to be pumped, retaining such medium by suitable means, balancing the impeller in the conventional manner while filled with such medium, and removing such medium by the application of heat.

2,323,638

SOUND AND PICTURE APPARATUS

Lawrence Wise, Bronx, N. Y., assignor to Richard N. Briefer, Brooklyn, N. Y.

Application January 29, 1941, Serial No. 376,423
14 Claims. (Cl. 40—28)



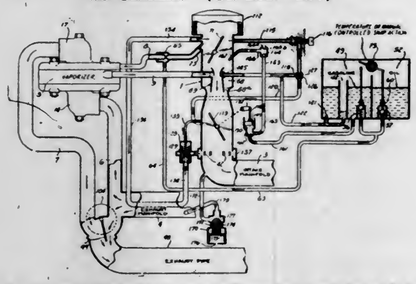
1. In combination, a sound reproducing device having a rotatable turn-table for carrying a spirally grooved record disc, a rotatable post, a tone arm mounted at one end on said rotatable post and carrying at the other end a needle engageable with the groove of said record disc, rotation of said turn-table and the engagement of the groove of said record disk with said needle causing said tone arm to swing across said record and causing said post to rotate; a plurality of sheets carrying visually perceptible indicia, means operable by said rotatable post for successively presenting said sheets to view in synchronism with the record disc.

2,323,639

INTERNAL COMBUSTION ENGINE CHARGE FORMING APPARATUS

Raymond M. Anderson, Detroit, Mich., assignor, by mesne assignments, to Evans Products Company, Detroit, Mich., a corporation of Delaware

Application June 16, 1939, Serial No. 279,394
28 Claims. (Cl. 123—127)



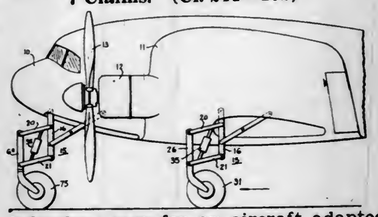
1. In combination, a carburetor mixing chamber for an internal combustion engine air intake conduit having a posterior throttle, main fuel means supplying said mixing chamber with a highly heated rich mixture consisting of a small part of the total air supply and vaporized and finely divided oil or the like at a rate varying with the mixing chamber suction, and auxiliary compensating fuel means concurrently and always supplying said mixing chamber with unheated gasoline or the like at an automatically controlled and limited rate which is relatively constant during normal running.

2,323,640

LEVERED SUSPENSION LANDING GEAR

William Armstrong, Long Island City, N. Y., assignor to The Dowty Corporation, Wilmington, Del., a corporation of Delaware

Application June 10, 1940, Serial No. 339,728
7 Claims. (Cl. 244—102)



1. A landing gear for an aircraft adapted to be retracted into the airfoil thereof comprising a mounting strut, a wheel strut cantilevered forwardly of said mounting strut by means of an articulated quadrilateral frame of which said strut forms the foremost member, a landing wheel cantilevered rearwardly from said wheel strut and positioned with respect the same that the foremost portion of said wheel is not further forward than the foremost portion of said wheel strut, means for resiliently resisting movement of said wheel strut with respect said mounting strut in its spaced planar relation to permit vertical shock absorption movement of said wheel strut, means for retracting said landing gear into to the airfoil of an aircraft to position said gear and said retracting mechanism in one compartment and said wheel in another compartment of the airfoil in the same relative positions as when in extended condition, said compartments being separated by a structural member of the aircraft.

2,323,641

ANTENNA SYSTEM

Arnold B. Bailey, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application January 26, 1940, Serial No. 315,632
7 Claims. (Cl. 250—33)



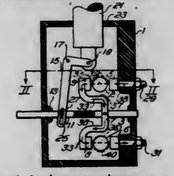
7. A rugged vertical coaxial antenna system comprising a hollow linear member a half wavelength long, a quarter wave-length cylindrical sleeve surrounding the bottom half of said member and attached at its upper extremity to the mid-point of said member, a line conductor extending coaxially within said member, said conductor being attached to an intermediate point in said sleeve and to an intermediate point in the upper half of said member, the conductive path connecting said points being a quarter wavelength long whereby the impedances of said conductor and antenna are matched, and the connection between the upper portion of said member and said conductor includes a high impedance.

2,323,642

CIRCUIT INTERRUPTER

Benjamin P. Baker, Turtle Creek, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application March 31, 1942, Serial No. 437,001
24 Claims. (Cl. 200—150)



1. In a circuit interrupter, an arcing chamber, a passage leading from said chamber, means for establishing an arc adjacent said passage, means for producing a flow of arc extinguishing fluid through said passage, and means for moving said arc away from said passage and laterally to one side thereof during relatively high instantaneous values of current.

2,323,643

GLASS COMPOSITION

George E. Barton, Millville, N. J., assignor to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania

No Drawing. Application August 1, 1940, Serial No. 349,306
12 Claims. (Cl. 106—54)

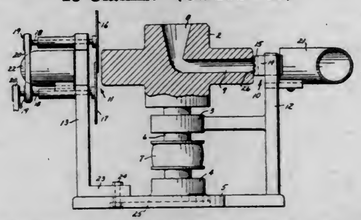
1. A glass composition having high chemical durability and being suitable for machine molding of bottles comprising 69% to 72½% silica, 13% to 14½% alkali metal oxide, 2.4% to 4.2% alumina, 10% to 12% lime, and 0.4% to 1% boric oxide.

2,323,644

MACHINE FOR CUTTING STAPLE FIBERS

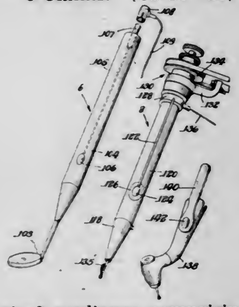
Carl A. Castellan, Wilmington, Del., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware

Application April 30, 1942, Serial No. 441,117
13 Claims. (Cl. 164—39)



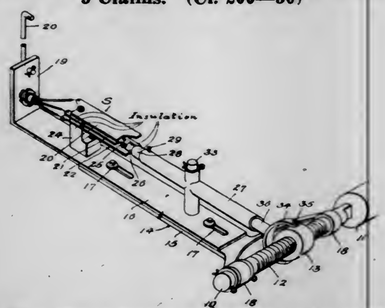
1. In cutting apparatus described, means for intermittently cutting a continuous filamentary material to discontinuous lengths and means for directing alternate cuts into separate discharge channels.

2,323,645
DENTIST DRILL CONTROL
Harry R. Clausen. Chicago, Ill.
Application October 21, 1940, Serial No. 362,031
5 Claims. (Cl. 32—23)



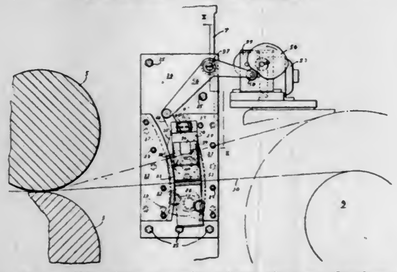
2. A surgical appliance comprising a member having a shank adapted to be grasped in the hand, an electric conducting member embedded in the shank of the tool and electrically exposed for engagement by the hand while grasping the appliance and electric conductor means insulated in the shank of the appliance but extending outwardly therefrom for connection to a capacity responsive control unit of an electrically driven surgical instrument.

2,323,646
SWITCH MECHANISM
Calhoun Collins, Bakersfield, Calif., assignor of two-fifths to California Pacific Service, Inc., Bakersfield, Calif., a corporation of California, and one-fifth to Theodore M. Ryerson, Bakersfield, Calif.
Application April 8, 1942, Serial No. 438,165
5 Claims. (Cl. 200—30)



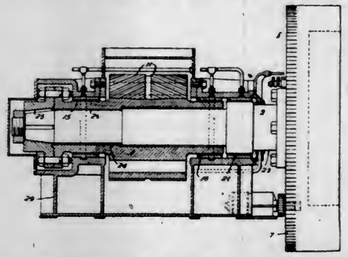
1. In a switch mechanism, a rotatably mounted shaft turnable first in one direction and then in the other, said shaft having a threaded portion, a support having a bearing mounting one end of said support on said shaft near said threaded portion of said shaft, means for supporting the other end of said support, a switch mounted on said support near said other end thereof, said switch having an operating member to be moved first in one direction and then in the other, a lever fulcrumed between its ends on said support, said lever having means at one end for moving said operating member in said one direction when said lever end moves in one direction and for moving said operating member in said other direction when said lever end moves in the other direction, and a nut connected with the other end of said lever and engaged with said threaded portion of said shaft for oscillating said lever.

2,323,647
GAUGE POSITIONING MECHANISM
Herman H. Colson, Teaneck, N. J., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
Application November 12, 1941, Serial No. 418,866
6 Claims. (Cl. 33—147)



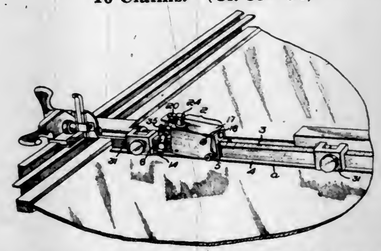
1. A positioning mechanism for a device for indicating a condition of strip material, comprising a means for movably supporting said indicating device adjacent said strip material, means for sensing shifting of said material, and means actuated by said sensing means for moving said indicating device, whereby said indicating device is maintained in a predetermined relationship to said strip material.

2,323,648
GEAR TRANSMISSION DRIVE
Stephen L. Crawshaw, Pittsburgh, Pa., and Jean R. Williams, Seattle, Wash., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 17, 1941, Serial No. 411,120
2 Claims. (Cl. 74—410)



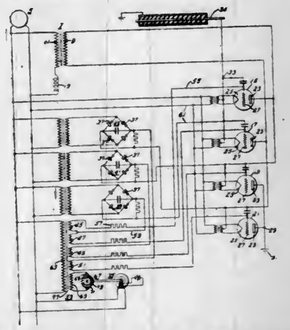
1. In a transmission gear, in combination, a shaft being thick and rigid and of a given uniform diameter for a relatively short length near one end and being of lesser and lesser diameter in the direction of the other end whereby the shaft is progressively more flexible in the direction of the thinner end, one bearing for the shaft so disposed about the said thick uniform diameter portion of the shaft that a short rigid stub portion extends from one side of the bearing and that the thinner flexible end extends a relatively greater distance from the other side of the bearing, a relatively heavy driving clutch member carried by the said stub portion, said bearing constituting the sole support for said driving member, a comparatively rigid quill shaft disposed over the shaft and coupling means at one of its ends for rigidly so connecting over the quill shaft to the thinner flexible end of the shaft that the quill shaft is spaced from the shaft, the length of the quill shaft being such that its other or free end is adjacent the bearing and the outer diameter of the quill shaft at each end thereof and for a relatively short axial length thereof being equal to said given uniform diameter of the shaft, two bearings, each exactly like said one bearing so that the parts of all the bearings are interchangeable, for the quill shaft, one of said two bearings being disposed at the free end of the quill shaft adjacent the said one bearing and the other of said two bearings being disposed just inside the coupling between the quill shaft and the shaft, and a pinion on the quill shaft between the two bearings.

2,323,649
MARKING DEVICE
William M. Davis, Cambridge, Mass., assignor to Craftsman Line-up Table Corporation, Waltham, Mass., a corporation of Massachusetts
Application January 9, 1942, Serial No. 426,133
16 Claims. (Cl. 33—32)



1. A marker comprising a body adapted to ride on a horizontal guide, a marking tool, and means cooperating with said body to support said tool in a normally elevated position but operable to depress the tool into contact with the work, said means including parts limiting the pressure of said tool against the work independently of the pressure applied through said means.

2,323,650
ELECTRIC DISCHARGE APPARATUS
John W. Dawson, Auburndale, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 7, 1938, Serial No. 206,641
23 Claims. (Cl. 175—363)



3. In combination an electric discharge device having a control electrode and a plurality of principal electrodes, means for impressing an alternating potential between said principal electrodes, a transformer comprising a magnetizable core, primary winding means and secondary winding means, means for impressing an alternating potential in synchronism with said first mentioned alternating potential on said primary winding means, means for connecting said secondary winding means between said control electrode and one of said principal electrodes, an auxiliary winding on said transformer and means for short circuiting and open circuiting said auxiliary winding to vary the potential impressed between said control electrode and said one principal electrode.

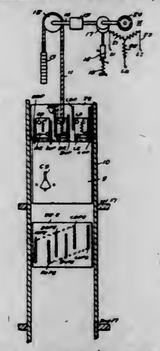
2,323,651
THERAPEUTICALLY VALUABLE COMPOUNDS AND A METHOD OF PRODUCING THE SAME
Max Dohrn, Berlin-Charlottenburg, and Paul Diedrich, Finkenkrug, Osthavelland, Germany, assignors, by mesne assignments, to Schering Corporation, Bloomfield, N. J., a corporation of New Jersey
No Drawing. Application June 10, 1937, Serial No. 147,478. In Germany June 15, 1936
14 Claims. (Cl. 260—397.7)

1. Therapeutically valuable compounds of the general formula

$$R-\underset{\underset{O}{\|}}{S}O-NR''-R'$$

in which R stands for a radical taken from the class consisting of aromatic and heterocyclic radicals substituted by at least one acid group taken from the class consisting of sulphonic and carboxylic capable of forming salts, R' indicates an organic hydrocarbon radical having at least one sulphone amide group attached to carbon of said radical, and R'' stands for a group taken from the class consisting of hydrogen and hydrocarbon, the sulphone amide group being in para position to the NR'' group.

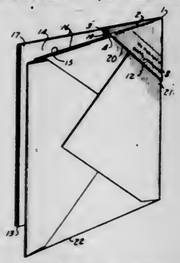
2,323,652
ELEVATOR CONTROL SYSTEM
William F. Eames, Westfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 12, 1942, Serial No. 434,323
9 Claims. (Cl. 187—29)



1. In an elevator system, a car serving a plurality of floors in a hatchway, a motor for operating the car, means for energizing the motor by connecting it to a source of electrical energy, a plurality of switch devices mounted on the car, means mounted on the wall of the hatchway adjacent to each floor for effecting operation of the switch devices in consecutive order as the

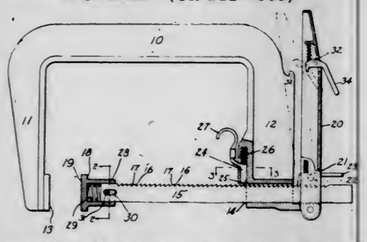
car approaches a stop at a floor, a control device controlled by the loading of the motor, and means responsive to consecutive operation of the switch devices when a stop is to be made and to the condition of the control device for deenergizing the motor when the car approaches within a predetermined distance of the floor at which the stop is to be made proportional to the loading of the motor and its direction of operation.

2,323,653
MARKER
William Raymond Fowler, Jr., Chicago, Ill., assignor to Hall Brothers, Incorporated, Kansas City, Mo., a corporation of Missouri
Application October 6, 1939, Serial No. 298,260
2 Claims. (Cl. 40—2)



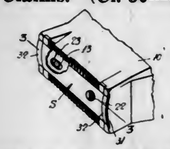
1. A marker including, a member of foldable material having a fold extending substantially transversely through the center of said member to form flaps adapted to overlie the inner and outer faces of a folded greeting card and having a fold transverse of the first named fold forming a hinge adapted to register with the fold of the card, said flap portion of the marker which engages the outer face of the card being adapted to cooperate with the card in forming a triangular-shaped pocket for receiving the corner of an envelope in which the greeting card is to be enclosed.

2,323,654
CLAMPING TOOL
Albert Frank Gordy, Los Angeles, and Alfred F. Rade, Wilmar, Calif., assignors of thirty-one and two-thirds per cent to Albert M. Rex, South Gate, Calif.
Application December 26, 1940, Serial No. 371,812
2 Claims. (Cl. 144—305)



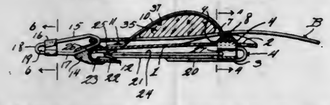
1. A quick acting clamp comprising a C-frame including an arm providing a stationary jaw and a second arm formed with an opening opposite said jaw, a toothed bar slidably and nonrotatably extending through said opening and having a jaw member yieldingly mounted on the inner end thereof in opposing relation to the stationary jaw whereby work may be yieldingly gripped between the jaws by sliding said toothed bar inwardly, a spring pressed latching pawl carried by said second arm for engagement with the teeth of said bar to normally prevent retraction of the bar, and a lever having one end pivotally connected with said second arm and further having a spring pressed operating pawl for engagement with the teeth of said bar for substantially instantaneous tightening of the clamped jaws against the work when the lever is swung toward the frame.

2,323,655
MOUNT FOR SHEARING HEADS
John A. Hanley, Noroton, Conn., assignor to Gillette Safety Razor Company, Boston, Mass., a corporation of Delaware
Application October 16, 1939, Serial No. 299,584
16 Claims. (Cl. 30—43)



16. A hair shearing unit comprising a handle member having a flat supporting end, a metal guard member rigidly affixed to said end and having upturned and inturned end flanges, a shearing blade assembly removably mounted upon said guard plate and over-lapped at its end by said inturned flanges, the said flanges conforming to the contour of said blade assembly, and removable resilient pins extending through said blade assembly and said guard plate into said handle member.

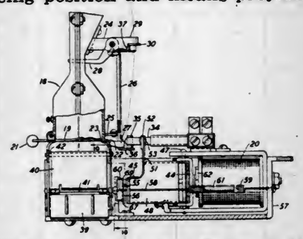
2,323,656
FISHHOOK
John Helfenstein, Bismarck, N. Dak.
Application July 28, 1942, Serial No. 452,645
4 Claims. (Cl. 43—36)



1. A fishing device comprising an elongated member, a sleeve carried by said member for back and forth movement therealong, a bowed leaf spring having one end portion secured to the member and the opposite end portion secured to the sleeve, said spring normally urging the sleeve forwardly, a group of hook members carried by the first-named member, and spurs carried by the hook members engaging within the sleeve when the sleeve is in its forward position to hold the hook members retracted, said hook members automatically separating when the sleeve is moved rearwardly to release the spurs.

2,323,657
COIN DISPOSAL UNIT
Harley A. Henning, Basking Ridge, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application November 27, 1941, Serial No. 420,622
11 Claims. (Cl. 194—9)

1. In a coin collector, a coin hopper, a pivoted coin trap in said hopper biased to a coin supporting position but normally free to drop downwardly to coin discharging position when its bias is overcome by the weight of a coin on said trap, means biased to latch said trap in coin supporting position, cam means normally engaging said latching means to hold said latching means in trap freeing position and means projecting into



said hopper above said trap for actuation by a deposited coin for moving said cam means to a position releasing said latching means.

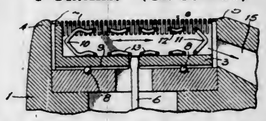
2,323,658
PYRETHRUM ACTIVATED AND STABILIZED WITH POLYETHERAMINES
William F. Hester, Drexel Hill, Pa., assignor to Röhm & Haas Company, Philadelphia, Pa., a corporation of Delaware
No Drawing. Application February 27, 1942, Serial No. 432,625
8 Claims. (Cl. 167—22)

1. Insectidical compositions having as active ingredients pyrethrum and a compound of the formula

$$[R(OC_nH_{2n})_x]_mNR'_{3-m}$$

where R is an aliphatic hydrocarbon group of less than 13 carbon atoms, C_nH_{2n} represents an alkylene group in which n is an integer having a value of two to four inclusive, x is an integer of at least one, m is an integer having a value of two or three inclusive, and R′ is a member of the class consisting of hydrogen, hydroxyalkyl, and hydrocarbon groups.

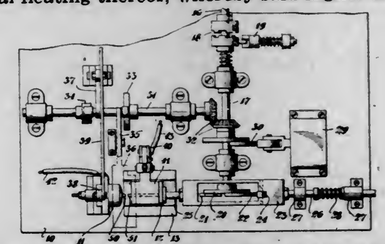
2,323,659
RAZOR
Neil A. Holsclaw, Chicago, Ill., assignor of one-half to Fred E. Sudlow, Rock Island, Ill.
Application July 25, 1942, Serial No. 452,283
8 Claims. (Cl. 30—90)



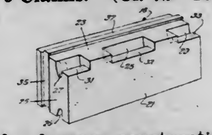
1. In a mechanized shaving device having a shear head comprising an outer cutter and a hollow inner cutter of substantially inverted U-shaped form and having open ends, means for reciprocating said inner cutter, in combination with a member loosely contained within said shear head and adapted to vibrate therein through contact with said inner cutter when said inner cutter is being reciprocated to agitate the clipped hairs entering said inner cutter and discharge them therefrom.

2,323,660
FLASH-ARC WELDING
Edman Francis Holt, Indianapolis, Ind., assignor to P. R. Mallory & Co., Inc., Indianapolis, Ind., a corporation of Delaware
Application March 7, 1942, Serial No. 433,720
6 Claims. (Cl. 219—10)

1. The method of welding together dissimilar metals, one of said metals having a higher melting point than the other which comprises making said higher melting point metal the anode and said other metal the cathode in a D. C. circuit, creating an arc therebetween to cause unequal heating thereof, whereby said higher melting point metal is raised to a higher temperature than said other metal, maintaining said arc until said metals reach welding temperatures and then pressing said metals into contact to complete the weld.

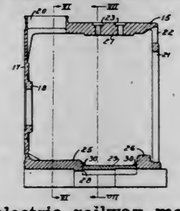


2,323,661
FURNACE WALL CONSTRUCTION
Louis H. Hosbein, Glencoe, Ill., assignor to M. H. Detrick Company, Chicago, Ill., a corporation of Delaware
Original application October 18, 1939, Serial No. 300,020. Divided and this application July 29, 1941, Serial No. 404,551
9 Claims. (Cl. 72—101)



1. A tile for furnace construction, comprising a refractory block having oppositely disposed front and rear faces and oppositely disposed side faces, one of said side faces having a plurality of recesses therein communicating with said rear face, said recesses being arranged in spaced relation and extending substantially parallel with said rear face, each of said recesses communicating with a groove spaced from said rear face, the opposite side face having a groove therein extending along said face adjacent to and parallel with said rear face and in line with said first mentioned groove, said grooves being capable of interlocking cooperation with supporting or retaining members.

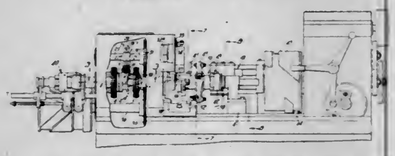
2,323,662
RAILWAY MOTOR FRAME
Charles F. Jenkins, Laughlintown, and George A. Moore, Edgewood, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 28, 1942, Serial No. 463,594
10 Claims. (Cl. 172—286)



1. In an electric railway motor, a generally

cylindrical frame member, said frame member having an opening therein intermediate its ends, said frame member also having inwardly depressed portions on each side of said opening and axially aligned therewith to provide axle bearing seats, and means for closing said opening.

2,323,663
MACHINE TOOL
Elmer Elsworth Kelley, Hartford, Conn.
Application November 6, 1940, Serial No. 364,533
7 Claims. (Cl. 29—53)

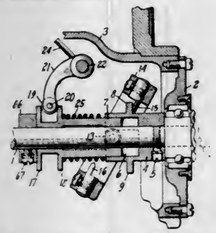


1. In a machine tool having work rotating and feeding mechanism including a pair of work spindles, high and low speed drive means for said spindles, and mechanism for selectively connecting said spindles for simultaneous rotation by said high or low speed drive means having clutch means controlling the connection of said low speed drive means and having cooperating driving elements overrunning when the spindles are rotated at high speed to disconnect said low speed drive means, and controlling clutch means controlling the connection of said high speed drive means and the overrunning of said first mentioned clutch means, said high and low speed drive means including a common drive shaft extending between said spindles and intermeshing high and low speed drive gears on said drive shaft and both of said spindles, and said controlling clutch means being coaxial with said shaft.

5. In a machine tool having work rotating and feeding mechanism including a pair of work spindles, a drive shaft common to both spindles, high and low speed drive means for said spindles including high and low speed drive gears on said shaft and intermeshing high and low speed gears on both of said spindles, and mechanism for selectively connecting said spindles for simultaneous rotation by said high or low speed drive means having clutch means on said drive shaft controlling the connection of said low speed drive means and having cooperating driving elements overruning whe the spindles are rotated at high speed to disconnect said low speed drive means, controlling clutch means on said drive shaft controlling the connection of said high speed drive means and the overrunning of said first mentioned clutch means, tool feeding mechanism having tools operative at different cutting speeds on work carried in said spindles, and means controlled by said feeding mechanism for connecting said controlling clutch means while the tools operative at high speed are in use and disconnecting the same when the tools operative at low cutting speed are in use.

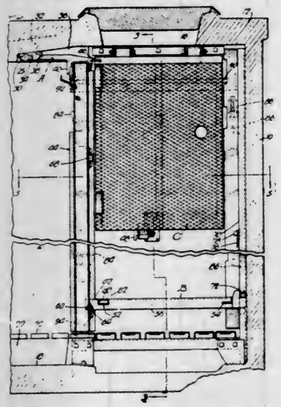
2,323,664
SPEED CONTROLLED MECHANISM
Albert Kindelmann, Floral Park, and Ewald Boecking, Great Kills, N. Y., assignors to International Projector Corporation, New York, N. Y., a corporation of Delaware
Original application August 5, 1938, Serial No. 223,195, now Patent No. 2,276,658, dated March 17, 1942. Divided and this application February 19, 1941, Serial No. 379,628
14 Claims. (Cl. 264—20)

1. A speed controlled device including a rotatable shaft, a lug secured to said shaft, a sleeve slidable on said shaft, a ring, spindles carried by said ring and projecting into said sleeve, a pin carried by said ring and contacting said lug and serving as a pivot point for said ring, a spring urging said ring into an oblique position relative to said shaft, said ring when rotated at normal operating speed moving to a position at right angles to said shaft, thereby moving said sleeve longitudinally of said shaft and against the tension of said spring and means controlled by the movement of said sleeve.



12. As a subcombination of a speed responsive device, a rotatable ring composed of two semicircular halves, one face of one semicircular half being provided with depressions extending toward the opposite face and the opposite face of the other semicircular half being provided with depressions extending toward the first semicircular face the masses of each half being substantially equal, a plane passing through the central diameters of said ring dividing each of said halves into unequal masses.

2,323,665
CONVERTIBLE BULKHEAD FOR REFRIGERATOR CARS
John S. Lundvall, Chicago, Ill., assignor to Union Asbestos & Rubber Company, Chicago, Ill., a corporation of Illinois
Application August 20, 1941, Serial No. 407,524
3 Claims. (Cl. 62—19)



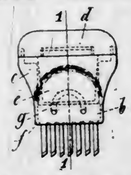
1. In a refrigerator car having an ice bunker in one end, a transverse bulkhead separating said bunker from the remainder of the car and being movable to a stored position adjacent the end wall of the car, a hatchway above said bunker, a pilfer-proof closure hingely secured to the car and adapted to be swung to a horizontal position across the hatchway opening and to a vertical depending inoperative position adjacent the side wall of the car, an arm pivotally secured to the car above said bulkhead and having a free end portion adapted to swing into interlocking engagement with said bulkhead, said free end portion being provided with a lug adapted to project into the swinging plane of said closure whereby said closure will engage said lug and lift said arm out of engagement with said bulkhead when said closure is swung to operative horizontal position.

2,323,666
METHOD OF MAKING COMPOSITE METAL SLABS
Charles A. Medsker, Cleveland Heights, Ohio, assignor to William L. Ulmer
Application October 18, 1940, Serial No. 361,695
8 Claims. (Cl. 22—204)



1. A method of making a composite metal slab which consists in contacting the slab with a burning flux of the alkyl-borate type to deposit a thin layer of boric oxide on the surface thereof, heating said flux coated metal slab to a temperature of from about 800° F. to about 1500° F., applying a metal different from said first metal to the flux coated surface of the first layer of metal, heating both metals to a temperature above the melting point of the applied metal to cause a strong bond between the component metals and then cooling the composite slab.

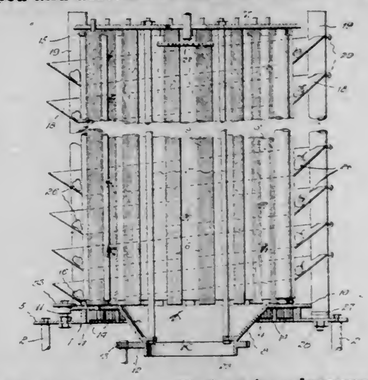
2,323,667
APPARATUS FOR TENDERING MEAT
Joseph Moldawsky, London, England
Application February 11, 1941, Serial No. 378,421
In Great Britain April 13, 1939
4 Claims. (Cl. 17—30)



1. A meat tendering tool comprising a hollow body having parallel slits in its bottom wall which terminates short of the outer edges of the body to leave opposed shoulders, a removable cap for said body, a plurality of comb formed plates removably passing through said slits and having the ends extended and seated on the adjacent opposed shoulders and means situated at least partly within the body for engaging said plates for removably holding said comb formed plates in place with the blades thereof extending outwardly from said slits.

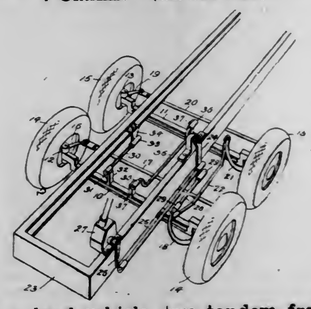
2,323,668
FRUIT DECAPPER
Arthur H. Morgan, Knoxville, Tenn.
Application August 24, 1942, Serial No. 455,891
20 Claims. (Cl. 146—55)

1. A device for decapping and destemming small fruits, which comprises a plurality of decapping rolls mounted substantially vertically, at least one angled tray having a feed end and a discharge end, running transversely with respect to said rolls, forming a runway for said fruit and adapted to hold said fruit against said decapping rolls, means for causing relative motion between said rolls and said tray, means for rotating said rolls, means for feeding fruit to be decapped and destemmed into the feed end of said



tray and means for discharging decapped and destemmed fruit from the discharge end of said tray.

2,323,669
TANDEM FRONT-END AXLE AND STEERING ASSEMBLY
Anthony F. Murty and Benedict P. Murty, Portland, Oreg.
Application December 31, 1941, Serial No. 425,226
7 Claims. (Cl. 280—91)



1. In a land vehicle, two tandem front axles each provided with two wheel-supported knuckles; a load-carrying frame; steering elements carried by said axles and operatively connecting the four knuckles thereof, said axle-carried elements including a front steering arm on one knuckle of the front axle, a rear steering arm on the corresponding knuckle of the rear axle, and a longitudinal steering-arm-tie-rod connecting said front and rear steering arms; additional steering elements carried by said frame and including a forwardly and rearwardly movable member between said axles; a longitudinal drag-link pivoted to said forwardly and rearwardly movable member and to one of said axle-carried elements to effect steering; means yieldably supporting said frame on said axles and including longitudinal walking-beams extending between and pivoted to said axles; a longitudinal torque-rod pivoted to said frame and to one of said axles and substantially co-extensive with said drag-link; and a longitudinal axle-tie-and-torque-rod connecting and pivoted to the two axles; said torque-rod, said drag-link, said walking-beams, said axle-tie-and-torque-rod, and said steering-arm-tie-rod being all cooperable to prevent any swinging of said steering arms with

respect to said axles when either of said axles rises or descends bodily with respect to said frame and when either end of either axle rises or descends with respect to said frame, except for steering purposes.

2,323,670
LUBRICATING OIL, ETC.
John M. Musselman, South Euclid, Ohio, assignor to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio
No Drawing. Application September 28, 1940, Serial No. 358,930
6 Claims. (Cl. 252—46)

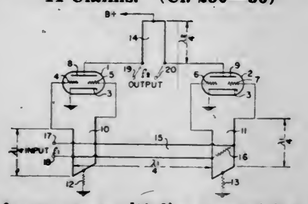
1. A mineral oil containing a small amount of tetra methyl diamino diphenyl methane and sodium lauryl sulphate.

2,323,671
DARNING DEVICE
Otto Mysl'k, New York, N. Y., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application October 22, 1941, Serial No. 415,997
3 Claims. (Cl. 112—121)



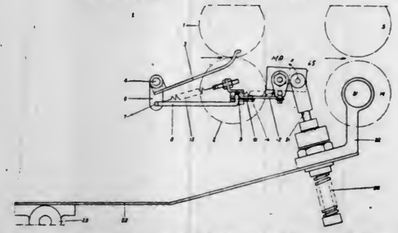
1. A thread holder for use in darning on a sewing machine having a flat work-supporting surface comprising a flat forked shaped base member having a handle located entirely on one side thereof, and a second forked member made of resilient material and superimposed upon said base member and secured thereto only at its closed end, whereby threads may be inserted in parallel relation between the members and be resiliently held therein.

2,323,672
FREQUENCY MULTIPLIER
Arthur L. Nelson, Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation, a corporation of Delaware
Application January 18, 1940, Serial No. 314,480
11 Claims. (Cl. 250—36)



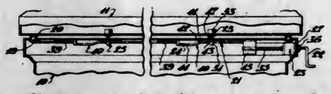
1. A frequency multiplier comprising a signal input circuit, a plurality vacuum-tube signal repeating means, each having an anode and a plurality of control electrodes and being adapted to repeat portions of a signal impressed thereon, a plurality of separate input circuits individually connected to said control electrodes for applying a signal to the control electrodes of each of said repeating means in opposite polarity, phase-shifting means connecting said separate input circuits to said multiplier signal input circuit for successively applying a signal to said repeating means in phase quadrature, and means connected to the anodes of said repeating means for combining signal portions repeated by said repeating means.

2,323,673
ARRANGEMENT FOR STAMPING MACHINES
Ernst Vilhelm Nyberg, Stockholm, Sweden, assignor to Telefonaktiebolaget L. M. Ericsson, Stockholm, Sweden, a company of Sweden
Application February 17, 1941, Serial No. 379,302
In Sweden February 24, 1940
2 Claims. (Cl. 101—233)



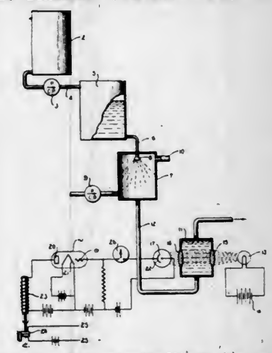
1. In a stamping machine, continuously rotating feed rollers, continuously rotating stamping and impression rollers, a lever actuated by articles passing from the said rollers to the stamping and impression rollers, a pair of rotatable locking discs, a locking member movable from one position to another by said lever to engage and lock either of said discs while disengaging the other disc, a continuously operated drive member, a yieldable drive coupling for imparting rotary movement to said discs from said drive member during movement of the locking member from one position to another, means for displacing said discs incident to rotary movement thereof, and means operated in response to displacement of said discs to move the impression roller towards said printing roller.

2,323,674
APPARATUS FOR LOCKING AND SEALING BURIAL CASKETS
Robert B. Purkiss, Batesville, Ind., assignor to The Batesville Casket Company, Batesville, Ind., a corporation of Indiana
Original application August 7, 1940, Serial No. 351,692, now Patent No. 2,284,921, dated June 2, 1942. Divided and this application October 20, 1941, Serial No. 415,734
4 Claims. (Cl. 292—157)



4. A pull-down and locking means adapted to be mounted within the body of a casket for pulling the lid of the casket into sealed contact with the body, comprising a series of pull-down elements adapted to cooperate with pull-down elements on the lid, said first pull-down elements being interconnected and movable longitudinally along and within the front of the casket body, an operating screw for actuating said elements simultaneously, a screw retaining and supporting device secured to the inner side of the end wall of the casket body, said device traversed by said screw, means in said screw retaining and supporting device maintaining the screw against axial movement within the device, the end wall of the casket body including an opening through which the end of the screw projects for operation, and means between the device and said opening for sealing the opening.

2,323,675
METHOD AND MEANS FOR DETERMINING AND REGULATING THE MASS OF A COMPONENT GAS PER UNIT VOLUME OF A GASEOUS MIXTURE
Henry James Rand, New York, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Original application September 18, 1937, Serial No. 164,488, now Patent No. 2,299,109, dated October 20, 1942. Divided and this application January 7, 1942, Serial No. 425,822
17 Claims. (Cl. 128—191)



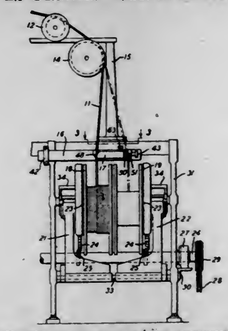
1. In a device for controlling in a gaseous mixture the mass of a component gas per unit volume of said mixture, a compartment having an inlet and an outlet for said mixture, means for continuously supplying said mixture to said compartment at a uniform volumetric rate, means for continuously supplying a substance to said compartment which is adapted to chemically combine with said component gas at a rate which is a function of said mass per unit volume, said mixture being continuously discharged from said compartment through said outlet, a source of said component gas, and means for controlling the flow of said gas from said source into said mixture in accordance with said rate of chemical combination.

2,323,676
PHOTOGRAPHIC EXPOSURE METER
Karl Rath, New York, N. Y.
Application May 12, 1941, Serial No. 393,007
9 Claims. (Cl. 88—23)



1. An extinction type photographic exposure meter comprising a support, a photometric wedge light gauge mounted upon said support, said wedge having a series of substantially identical and adjacently situated visible test marks of increasingly varying density and surrounded by a common background, a scale member mounted upon said support substantially independently of said wedge and adjustable relative to said support, said scale member being provided with a first and a second scale each having adjacently situated graduations representing different exposure controlling values for a photographic camera, said first scale being arranged contiguous to and movable along said wedge, when said scale member is set to varying positions relative to said support, whereby to variably coordinate the marks of said wedge with the graduations of said first scale, and a third scale fixed relative to said support and having graduations representing values of a further exposure controlling factor, said third scale being arranged contiguous and in cooperative relation to said second scale, whereby upon initial adjustment of said scale member to align a pair of preselected values of said second and third scales, the coordinated exposure control value of said first scale for an existing scene brightness will be opposite to the mark on said wedge being just barely visible when the wedge is subjected to illumination by light rays emanating from a photographic scene in the operative position of said meter.

2,323,677
DISTRIBUTING APPARATUS
Paul A. Reh, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application October 24, 1941, Serial No. 416,302
12 Claims. (Cl. 242—25)

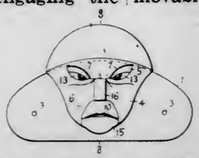


1. A distributing apparatus comprising an arm reciprocal between predetermined limits, a distributing element mounted for movement with the arm and having spaced surfaces to separately distribute advancing material over different areas, and means to vary the relative positions of the said surfaces to vary the relative locations of the said areas over which the material is distributed.

2,323,678
TOY TARGET
Johannes Reintam, New York, N. Y.
Application January 17, 1942, Serial No. 427,129
3 Claims. (Cl. 273—102.1)

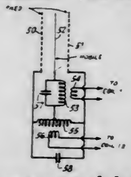
1. A toy target comprising a supporting member, a target member movably supported on the supporting member, representing a head with a face and having openings for eyes and mouth, a movable element slidably supported behind the target member having eyes and lower jaw repre-

sented thereon and registering with the openings for the same in the target member when the target member is in an operative position, a block movably supported on the target member releasably engaging the movable element for



holding the same in an operative position, and yieldable means to move the movable element when the block is moved, thereby displacing the target member.

2,323,679
SIGNALING SYSTEM
Walter van B. Roberts, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application October 29, 1941, Serial No. 416,951
14 Claims. (Cl. 250—20)



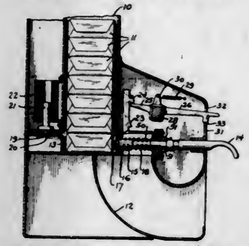
1. In a frequency modulation receiver, the method of detecting received frequency modulated waves which includes the steps of producing from the received energy two frequency modulated energies having the same frequency characteristics and a phase relation which varies from quadrature phase relation in accordance with deviations of the received energy from a predetermined frequency, combining the two energies and producing directly from said combination mechanical motion which is substantially proportional to the mean value of the scalar product of the two combined energies, and utilizing said motion to indicate said deviations.

2,323,680
PRINT DRIER
Antonio Romero, Astoria, Long Island, N. Y.
Application February 29, 1940, Serial No. 321,513
8 Claims. (Cl. 34—146)



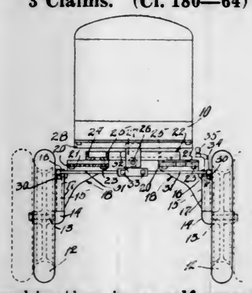
3. A print drier embodying a body provided with a print supporting surface, a frame cooperating with said surface and mounted by one end upon said body for pivotal and bodily sliding movements with respect to the body, a flexible member anchored by one end to said body, means connecting the opposite end of the flexible member to the frame remote from the frame pivot, whereby said flexible member may be positioned over said surface by said frame, means for releasably anchoring the free end of said frame to the body, and means tending normally to move said frame bodily in a direction to maintain the free end of the frame anchored to the body.

2,323,681
CONTROL FOR DISPENSING DEVICES
Weston D. Sangster and Joseph T. Bindner, Oakland, Calif.
Application May 13, 1940, Serial No. 334,850
8 Claims. (Cl. 312—35)



2. In combination with a device for dispensing merchandise and a cash registering device, means normally locking the dispensing device against dispensing operation, means controlled by operation of the cash registering device to release the locking means as to a class of articles in the dispening device, and means to effect selection of one of said class to be dispensed.

2,323,682
WHEEL MOUNTING FOR TRACTORS
Otto R. Schoenrock, Chicago, Ill.
Application August 15, 1940, Serial No. 352,702
3 Claims. (Cl. 180—64)

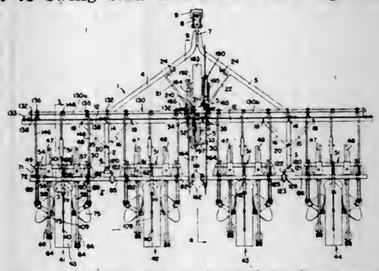


1. In combination in a self-propelled vehicle such as a tractor or the like, having a prime mover and a frame structure, a supporting assembly for the prime mover, a pair of spaced and aligned steerable wheels below said prime mover, means for operatively securing said wheels to the vehicle including spaced elements connected with the frame, means for securing said supporting assembly to the frame, said supporting assembly including spaced members adapted to receive the lower portion of the prime mover therebetween, said spaced elements with spaced members defining an opening beneath the frame in the vicinity of the prime mover whereby the vehicle is provided with a relatively low center of gravity and increased ground clearance.

2,323,683
LISTED CORN CULTIVATOR
Walter H. Silver, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application February 9, 1940, Serial No. 318,068
62 Claims. (Cl. 97—143)

14. A lister cultivator comprising a frame, a transverse rock shaft mounted thereon, a plurality of cultivator gangs, each including a wheel

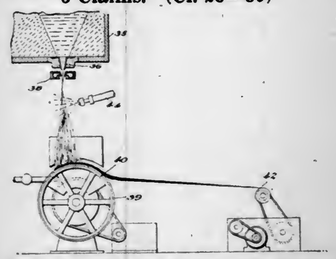
truck having means serving as a wheel arch and supporting wheels journaled on the lower ends thereof, and tool carrying means journaled for limited rocking movement on the central portion of said wheel arch means, at least one pair of substantially parallel links connecting said wheel arch with said rock shaft, whereby rocking movement of the latter swings said wheel arch in a generally fore and aft direction, link means disposed substantially parallel to said first mentioned link means for operatively connecting said rock shaft with said tool supporting means, whereby both said wheel truck and said tool supporting means may shift vertically relative to said rock shaft without causing relative movement between said tool supporting means and said wheel truck, means for rocking said rock shaft to swing said wheel truck in a generally



fore and aft direction and said tool supporting means in a generally vertical direction, and means for adjusting the effective length of said second mentioned link means, whereby to adjust the position of said tool supporting means relative to said wheel truck.

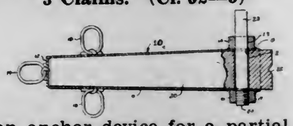
27. In a lister cultivator, the combination with a cultivator gang of a shield, a shield supporting bar fixed thereto, a member pivotally receiving said shield supporting bar, said member comprising a pair of laterally spaced bars adapted to be fixed to said gang in any one of a plurality of vertical positions, said members carrying a pivot upon which the forward end of said shield supporting bar is received, and means at the lower ends of said vertically adjustable bars disposed on opposite sides of said shield supporting bar for guiding the latter in its pivotal movement relative to said shield supporting member.

2,323,684
COATED GLASS FIBER STRAND
Allen L. Simison, Newark, Ohio, assignor to Owens-Corning Fiberglas Corporation, a corporation of Delaware
Application February 7, 1942. Serial No. 429,899
6 Claims. (Cl. 28—80)



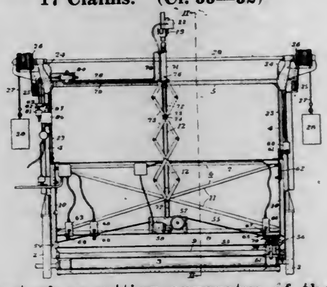
1. A strand composed of a multiplicity of long, fine, attenuated glass fibers, and a coating of wax on the individual fibers in amount sufficient to bond the individual fibers together in strand form.

2,323,685
PARTIAL DENTURE
Clawson N. Skinner, Whittier, Calif.
Original application January 17, 1941, Serial No. 374,848. Divided and this application March 30, 1942, Serial No. 436,755
3 Claims. (Cl. 32—5)



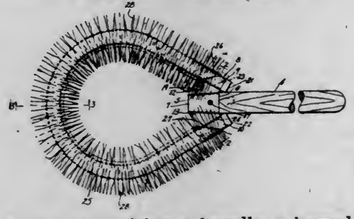
1. In an anchor device for a partial denture, an elongated bar having an anchor member thereon, said bar having plane faces converging from the anchor, a hollow elongated metal housing having an open end receiving said bar, said housing being complemental to the bar, said housing having washers secured on the outside thereof, a pin passing through said washers and engaging the same, said bar having an aperture receiving said pin, said aperture being larger than the diameter of the pin, whereby the pin is loosely held on the bar and a plurality of anchoring loop members mounted on the sides and end of the housing.

2,323,686
AUTOMATIC GLASS CUTTING MACHINE
Karl E. Sommerfeld, Pittsburgh, Pa., assignor to Sommerfeld Machine Company, Braddock, Pa., a corporation of Pennsylvania
Application August 17, 1940, Serial No. 353,095
17 Claims. (Cl. 33—32)



1. Sheet glass cutting apparatus of the class described comprising a frame, a cage movable up and down in the frame, cutter means movable across the cage and carried by the cage, means secured to and normally projecting from the cage to be engaged by the edge of an upwardly moving sheet of glass whereby the cage is caused to move upwardly with the glass, and means for automatically releasing said last-named means from such engagement with the sheet of glass.

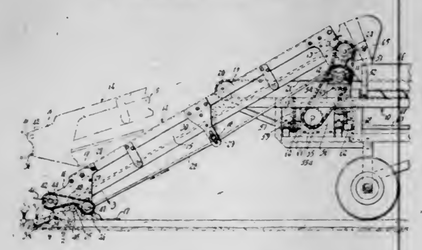
2,323,687
MOP
Karl I. Strand, Huntington Park, Calif.
Application October 30, 1941, Serial No. 417,108
2 Claims. (Cl. 15—147)



1. A mop comprising a handle, a bowed, resil-

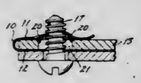
ient rubber member forming a loop, the member having circumferential countersinks adjacent its ends, clamp means gripping the countersunk ends and fastened to the handle adjacent an end thereof, the bowed member extending through said clamp means and having its resilient ends extending rearwardly from said clamp means and positioned at opposite sides of the handle, a sleeve on the bowed member, the sleeve being endwise removable from the said member when an end of the latter is releasd from the clamp, and cords on the sleeve providing mopping means.

2,323,688
VEGETABLE HARVESTER
Otto A. Strassman, Akron, Ohio, assignor of three-fourths to Jacob Graber, Hartville, Ohio
Application May 27, 1941, Serial No. 395,377
4 Claims. (Cl. 55—109)



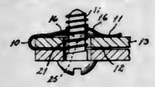
1. In a vegetable harvester, the combination of digging means for removing vegetables from the ground, an inclined upwardly moving conveyor spaced rearwardly of said digging means for elevating the removed vegetables, and resilient rotating paddle blades moving in an orbit across the space between the digging means and the conveyor to impel the vegetables across said space, said blades being arranged to engage said digging means and be flexed thereby so that upon disengagement therefrom they snap back to normal position and thereby impart a sudden added impetus to the vegetables.

2,323,689
FASTENING DEVICE
George A. Tinnerman, Rocky River, Ohio, assignor, by mesne assignments, to Tinnerman Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application March 24, 1939, Serial No. 263,874
2 Claims. (Cl. 85—36)



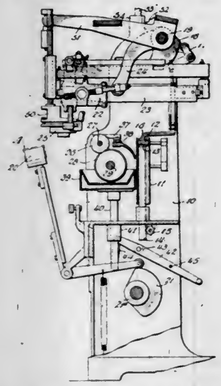
1. A fastener comprising a strip of sheet material doubled on itself to provide two spaced arms adapted to embrace a support, one of the arms having a pair of opposed inclined spring tongues severed at their sides from the arm and free at their adjacent ends but attached integrally to the arm at their distant ends, and a projection carried by one of said inclined tongues and extending downwardly so that it may pass into an opening in the support, whereby the spring action of the tongue carrying the projection is applicable also to the projection, enabling the ready mounting of the device.

2,323,690
FASTENING DEVICE
George A. Tinnerman, Cleveland, Ohio, assignor to Tinnerman Products, Inc., Cleveland, Ohio, a corporation of Ohio
Original application March 24, 1939, Serial No. 263,874. Divided and this application November 24, 1942, Serial No. 466,734
2 Claims. (Cl. 85—36)



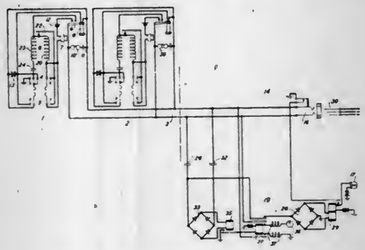
1. A fastener for securing a structure provided with a hole through which a screw or the like extends comprising a strip having two arms which are spaced sufficiently to receive a support between them, one of the arms being formed with a pair of integral spring tongues extending diagonally upwardly from the latter arm toward their free ends, said free ends being spaced apart and warped to provide a helical turn and the sides of the tongues being severed from the arm, whereby the two portions of such arm beyond the roots of the tongues are connected by bridge portions at the outer sides of the tongues, and a downward projection on one of the bridge portions formed by turning downwardly a part of the material of the arm in the region between the adjacent ends of the two tongues, said projection being adapted to enter the hole in the structure, thereby to locate the fastener with reference thereto.

2,323,691
LABELING MACHINE
George W. von Hofe, Bound Brook, N. J., assignor to New Jersey Machine Corporation, Hoboken, N. J., a corporation of New Jersey
Original application December 2, 1936, Serial No. 113,796. Divided and this application February 6, 1940, Serial No. 317,477
2 Claims. (Cl. 91—50)



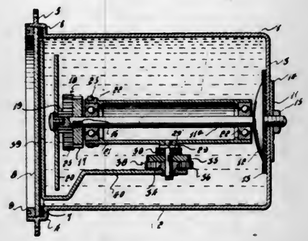
1. In a labeling machine, the combination of a holder for a supply of labels, means for removing labels from said supply and transporting said labels to a labeling point, movable adhesive applying means, means for moving said adhesive applying means to apply coatings of adhesive to said labels during transport thereof to said labeling point, and means whereby the speed of transportation of said labels and the speed of movement of said adhesive applying means varying relatively to each other in predetermined sequence.

2,323,692
TELEPHONE SYSTEM
Lee R. Waller, Montreal, Quebec, Canada, assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application July 11, 1942, Serial No. 450,563
7 Claims. (Cl. 179—84)



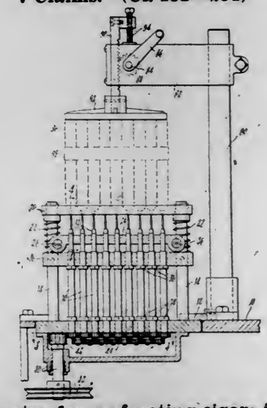
1. In a signaling system, party line subscriber stations, a central office, a line extending from said stations to said central office, means at each station for producing code signals of a relatively high frequency for transmission over said line, means at the central office responsive to said high frequency code signals for producing corresponding code signals of relatively low frequency for transmission back over the line, and means at each station responsive to said low frequency code signals for calling a particular subscriber depending on the code transmitted.

2,323,693
AIRPLANE FLIGHT LEVEL INDICATOR
Jack Walton, Tampa, Fla.
Application May 17, 1941, Serial No. 394,010
9 Claims. (Cl. 33—215)



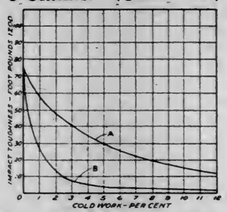
8. An aircraft flight level indicator, comprising a fixed support adapted to be secured rigidly to the supporting aircraft, a balance weight suspended from the support for swinging movement on two perpendicular intersecting axes, a bank direction indicating means comprising a portion supported for turning movement on one of said axes relative to a fixed second portion, a horizon indicator supported for turning movement on the other one of said axes relative to a face of the bank direction indicator, said horizon indicator having movement independently of and in front of a part of the face of said bank direction indicator for visual coaction therewith, an operative coupling between said balance weight and the first mentioned one of the portions of the bank direction indicator by which the said first one of the bank direction indicator portions is given turning movement relative to the other portion upon turning of the balance weight on the said one of the axes, and an operative coupling between the balance weight and the horizon indicator for imparting swinging movement to the horizon indicator about the other one of said axes relative to and in front of the said face of the bank direction indicator.

2,323,694
APPARATUS FOR PERFORATING CIGARS
John C. Ward and Sam Reso, Jacksonville, Fla., assignors to Universal Tobacco Machine Co., Inc., Jacksonville, Fla., a corporation of Florida
Application September 26, 1941, Serial No. 412,450
7 Claims. (Cl. 131—254)



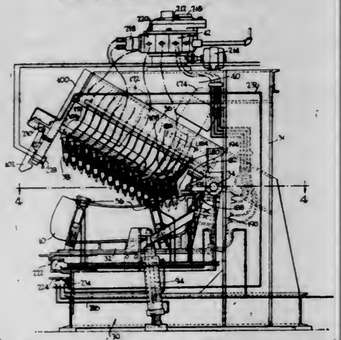
1. Apparatus for perforating cigars in bunches, comprising a plate having a plurality of rows of recesses therein spaced and arranged in accordance with the arrangement of the cigars in a bunch of cigars, said plate also having a perforation coaxial with each said recess, a set of needles corresponding to said recesses, and means supporting said plate and set of needles for relative movement whereby said needles simultaneously project through said perforations and into said recesses.

2,323,695
METHOD OF CONTROLLING THE STRAIN-SENSITIVITY OF BESSEMER STEEL
Richard R. Webster, Beaver, Pa., assignor to Jones & Laughlin Steel Corporation, Pittsburgh, Pa., a corporation of Pennsylvania
Application April 1, 1941, Serial No. 386,260
5 Claims. (Cl. 75—60)



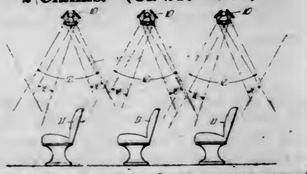
3. In a method of making Bessemer steel having a relatively low strain-sensitivity, the steps including placing a heat of molten iron in a converter, blowing air therethrough, and maintaining the temperature of the iron below about 2950° F. during the blow, thereby producing a controlled nitrogen content in the steel at the conclusion of the blow.

2,323,696
WELDING APPARATUS
William A. Weightman, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Original application December 7, 1940, Serial No. 369,007. Divided and this application November 10, 1941, Serial No. 418,477
9 Claims. (Cl. 219—4)



5. In a multiple spot welding apparatus, a frame comprising a base, and an overhanging support for a plurality of depending welding guns, a work supporting device associated with said frame and elevatable from a work loading and unloading position to an elevated welding position, said guns having welding electrodes positioned at an angle to each other and the direction of movement of the work whereby horizontal welds may be made on the work.

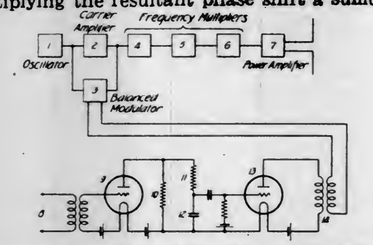
2,323,697
LIGHTING EQUIPMENT
Edward C. Zimmerman, Chicago, Ill., assignor to Patent License Corporation, Chicago, Ill., a corporation of Illinois
Application April 20, 1940, Serial No. 330,789
2 Claims. (Cl. 240—7.35)



1. In a lighting system for a passenger vehicle having a row of seats, lighting fixtures arranged in a row over the seats with one lighting fixture over each seat, each of said fixtures including a condensing lens which directs a beam of light over portions of the two seat areas immediately below and to the rear of the same, and an asymmetrically arranged reflector which reflects light received from a lamp positioned above said lens through the lens to produce a relatively small but intensified lighting pattern on the reading plane of one of the two seat areas lighted by the beam, which lighting pattern is eccentrically disposed with respect to the main beam.

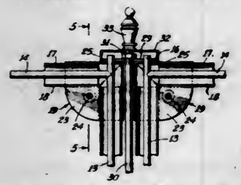
2,323,698
FREQUENCY MODULATION SIGNALING SYSTEM
Edwin H. Armstrong, New York, N. Y.
Application October 12, 1940, Serial No. 360,882
10 Claims. (Cl. 250—6)

5. The method of signaling which consists in varying the phase of a current by an amount which is directly proportional to the amplitude of the modulating signal current while also varying the phase of said current by an amount which is inversely proportional to the frequency of the modulating current throughout the major portion of the frequency range to be transmitted and by a substantially constant amount throughout the lower portion of the said frequency range, multiplying the resultant phase shift a sufficient



number of times to produce the required degree of modulation, transmitting the resulting frequency modulated currents, receiving the transmitted currents, detecting the frequency modulation changes, and increasing the amplitude of the detected currents throughout the lowest portion of the range of modulating current frequencies with reference to the amplitude thereof throughout the remainder of said range.

2,323,699
CORNER CONSTRUCTION FOR FIRE SCREENS
Joseph H. Babros, Los Angeles, Calif.
Application November 10, 1941, Serial No. 418,580
1 Claim. (Cl. 160—135)

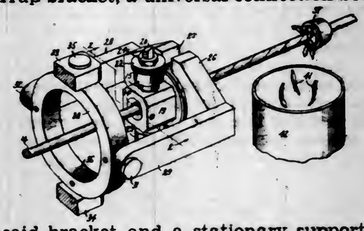


A fire screen having a frame having upright sides and connecting top and bottom members, the sides projecting above and below the top and bottom respectively, wire mesh secured to the frame, split tubings enclosing the parts of the frame and edges of the wire mesh up to points adjacent the corners of the frame, and corner brackets enclosing the ends of the tubings at the corners of the screen, each corner bracket comprising two opposed complementary parts having recessed opposed faces and a connecting web, each recess accommodating approximately one-half of the adjacent ends of the tubings that meet at the corners and the outer sides of the recesses meeting to form a closed outer corner, the edges of the outer sides of the recesses being notched so that the opposed notches cooperate to receive the portions of the sides of the frame that project above and below the top and bottom, and means extending through the connecting webs and through the corners of the wire mesh for fastening the parts of each bracket together.

2,323,700
SCORING DEVICE
Carl A. Bailey, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application June 26, 1942, Serial No. 448,557
3 Claims. (Cl. 90—29)

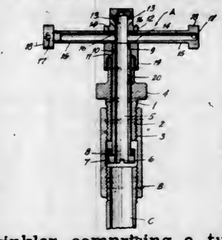
1. In a scoring device, the combination of a

tubular member, tubular extensions protruding from the side of said tubular member, scoring tools mounted in said tubular extensions and adjustable relatively to the axis of said member, a stirrup bracket, a universal connection between



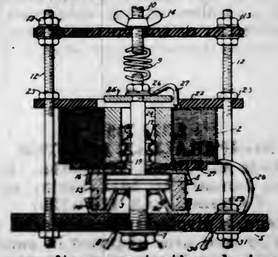
the said bracket and a stationary support, and a thrust bearing between said tubular member and said bracket providing for relatively free rotation of said tubular member about its axis.

2,323,701
ROTARY SPRINKLER
George R. Barksdale, Winnsboro, S. C.
Application March 15, 1943, Serial No. 479,177
5 Claims. (Cl. 299—69)



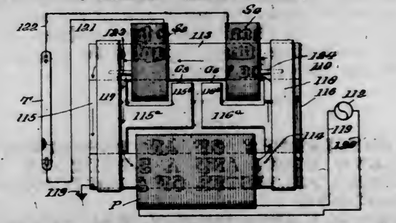
1. A sprinkler comprising a tubular body, a hollow stem projecting therethrough and having an annular flange at its lower end overlapping the bottom of said tubular body, a hollow head secured to the top of said stem, having upwardly inclined openings therethrough, a skirt depending from said head and spaced outwardly from the upper end of said body, and hollow sprinkler arms projecting from said head, each having an outlet opening near the end thereof.

2,323,702
VOLTAGE RESPONSIVE SWITCH
William E. Berkey, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 2, 1940, Serial No. 349,390
4 Claims. (Cl. 200—87)



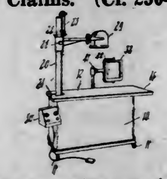
3. An overvoltage protective device for electrical apparatus comprising an enclosed, gas-tight chamber, a pair of plane electrodes within the chamber forming a spark gap between them, said chamber being partially evacuated to subatmospheric pressure, one of said electrodes being fixed in position within the chamber and the other electrode being movable, the movable electrode having a portion extending outside the chamber, gas-tight sealing means for preventing the entrance of air into the chamber around said extending portion, biasing means external to the chamber attached to said extending portion and normally holding the movable electrode so as to accurately space it a predetermined distance from the fixed electrode, and current-responsive means external to said chamber for moving the movable electrode into contact with the fixed electrode in response to current flow through the electrodes.

2,323,703
TRANSFORMER
Charles Philippe Boucher, Paterson, N. J., assignor to Boucher Inventions, Ltd., Washington, D. C., a corporation of Delaware
Application January 2, 1941, Serial No. 372,913
6 Claims. (Cl. 171—119)



1. In electrical transformer apparatus of the character described, in combination, a core comprising two separate parallel linear core members and two separate end core members interposed between said linear members, including substantially C-shaped portions, a primary winding comprising two coil sections one mounted on each of said linear members and two secondary winding coil sections, also one mounted on each of said linear members, said two end core members forming with said linear members a closed main magnetic path interlinking said primary winding and said secondary winding coil sections and with said C-shaped portions also forming individual magnetic shunt paths around said secondary winding coil sections internally of said main magnetic path.

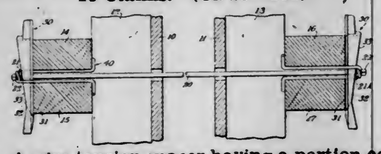
2,323,704
X-RAY FLUOROSCOPIC AND RADIOGRAPHIC APPARATUS
Fred R. Campbell, Boston, Mass.
Application June 17, 1941, Serial No. 398,373
9 Claims. (Cl. 250—58)



1. An X-ray apparatus consisting of a cabinet having upright enclosing walls and a displaceable cover wall, a column rising from within the cabinet above the normal location of the cover wall, a slide mounted on said column for movement between a position within the cabinet to

one above the cover wall, and an X-ray generator carried by said slide and adapted to emit X-rays upwardly from within the cabinet or downwardly from a position above the top of the cabinet.

2,323,705
WALL FORM TIE
Frank P. Cooper, Cranford, N. J., assignor, by mesne assignments, to Ralph E. Ogden, New York, N. Y.
Application December 5, 1941, Serial No. 421,747
13 Claims. (Cl. 25—131)



1. A wire tension spacer having a portion coiled to form a seat adapted to engage a portion of a tie rod near the outer end thereof outside of a waler, an arm portion extending laterally from the seat, and a shank extending at substantially right angles from the outer end of the arm, the free end of the shank being bent to form a laterally extending finger adapted to engage an outer surface of the waler.

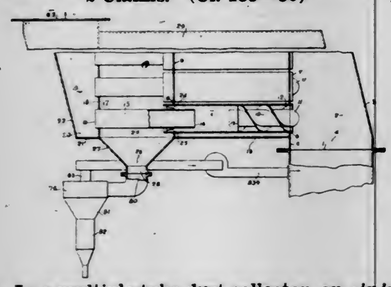
2,323,706
INTERPOLYMERS OF AN UNSATURATED ALKYD RESIN AND A 3-HYDROXY ALKENE-1 POLYESTER OF A POLYCARBOXYLIC ACID
Gaetano F. D'Alelio, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
No Drawing. Application October 31, 1939, Serial No. 302,170
16 Claims. (Cl. 260—42)

1. A polymerizable composition comprising (1) at least one polyester obtained by reaction of a polycarboxylic acid with a 3-hydroxy alkene-1 corresponding to the formula

$$CH_2{=}CH{-}\underset{\displaystyle R}{\underset{|}{C}}HOH$$

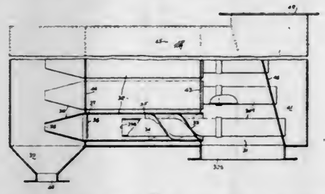
where R represents a monovalent hydrocarbon radical and (2) at least one unsaturated alkyd resin.

2,323,707
TUBE TYPE COLLECTOR
Harry O. Danz, Detroit, Mich., assignor to American Blower Corporation, Detroit, Mich., a corporation of Delaware
Application June 21, 1940, Serial No. 341,682
2 Claims. (Cl. 183—80)



1. In a multiple tube dust collector, an air inlet chamber, a dust collecting chamber, a plurality of pipes of substantially uniform diameter disposed parallel with respect to one another and extending from said inlet chamber to said dust collecting chamber and opening directly thereinto for conveying dust laden air, means therein for imparting a helical movement to the air and dust whereby the dust is thrown out centrifugally on the interior of said pipes, a clean air pipe mounted within each of said first mentioned pipes at least a portion of the length thereof and extending beyond the end of the first mentioned pipes, means for receiving clean air from said clean air pipes, a baffle positioned upon each of said clean air pipes having the edge thereof positioned closely adjacent the wall of the first mentioned pipe and disposed inwardly of the end of said first mentioned pipe.

2,323,708
TUBE TYPE COLLECTOR
Harry O. Danz, Detroit, Mich., assignor to American Blower Corporation, Detroit, Mich., a corporation of Delaware
Original application June 21, 1940, Serial No. 341,682. Divided and this application March 20, 1942, Serial No. 435,495
2 Claims. (Cl. 183—80)

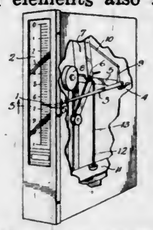


1. In a dust collector, a main air chamber, a partition in said chamber dividing the same into an air inlet chamber and a clean air outlet chamber, a tube chamber, a dust chamber, a plurality of open ended dust tubes of substantially uniform diameter extending from the air inlet chamber to the dust chamber, a plurality of clean air conveying tubes suspended from said partition and extending into the interior of the first mentioned tubes by traversing the inlet chamber into the dust conveying tubes, and means in the first mentioned tubes between the interior of said tubes and the exterior of the clean air tubes for imparting helical motion to dust laden air passing therebetween, whereby the dust is thrown out centrifugally and thence passes out into the dust chamber while the clean air turns 180° and makes its exit through said clean air tubes, and substantially flat baffle plate means disposed within said dust tubes and spaced from the inlet end of said clean air tubes within said dust tubes to aid the formation of the vortex of the clean air and thus reduce the necessary length of the dust tubes.

2,323,709
NONPARALLAX POINTER
Lewis M. Ellison, Winnetka, Ill.
Application January 16, 1942, Serial No. 427,005
7 Claims. (Cl. 116—129)

1. In a gage, a pivoted indicator arm, a pointer on the end of said arm disposed in substantially parallel relation to the pivotal axis of said arm, said pointer comprising a longitudinally tapered blade-like body of sheet material having straight

longitudinal elements forming a surface tapered to a point, said elements also forming a symmetrically curved surface convex to said pivotal axis.



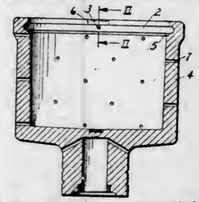
2,323,710
PRINTING INK
Donald Robert Erickson and Paul J. Thoma, Kalamazoo, Mich., assignors to Michigan Research Laboratories, Inc., Kalamazoo, Mich.
No Drawing. Application June 2, 1941, Serial No. 396,300
2 Claims. (Cl. 106—30)

2. A non-offset printing ink comprising a varnish stable against separation of the binder at high atmospheric humidity conditions comprising liquid polyglycol as a solvent for the binder and a binder comprising resin selected from the group consisting of rosin modified by an alpha beta unsaturated organic acid and a terpene hydrocarbon of the formula $C_{10}H_{16}$ modified by an alpha beta unsaturated organic polybasic acid, mixed with shellac, said binder being in sufficient amount to form when subjected to steam immediately after printing a thin hard film of binder over the exposed surface of the printed film, and a pigment.

2,323,711
WELDING ELECTRODE
Raymond J. Franklin, Chicago, Ill., assignor to Chicago Hardware Foundry Company, North Chicago, Ill., a corporation of Illinois
No Drawing. Application July 20, 1942, Serial No. 451,671
11 Claims. (Cl. 219—8)

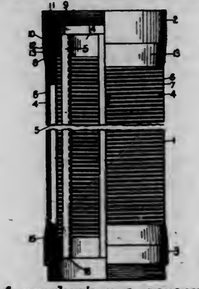
1. An electrode for welding cast iron comprising a core predominantly of iron containing at least 1.85 percent carbon and having a coating thereon, said coating including 10 to 40 percent carbon, 7½ to 30 percent phosphorus, 10 to 60 percent slag forming material, and a binder.

2,323,712
CENTRIFUGAL BUCKET
Hugh D. Haley, Drexel Hill, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application August 16, 1941, Serial No. 407,143
3 Claims. (Cl. 57—76)



1. A centrifugal bucket comprising a cover seat, a groove adjacent said seat for receiving a cover-retaining means, and a thumb notch adjacent said groove for facilitating removal of said means.

2,323,713
METHOD OF MAKING SCREENS
John E. Harmon, Columbus, Ohio
Application July 14, 1941, Serial No. 402,308
1 Claim. (Cl. 29—163.5)



A method of producing a screen of the type described which comprises providing a mandrel, supporting longitudinally of and circumferentially spaced around the periphery of the mandrel a plurality of screen supports formed of metal angle members of substantially uniform cross section from end to end with the diverging edges of the angle members radially outwardly and projecting from the mandrel, helically winding a metal wire around said mandrel and screen supports with the inner edge of the wire in contact with the outer edge of said angle members and with the convolutions of the wire in spaced relationship, filling said angle members and the spaces radially outwardly thereof between the convolutions of said wire with solder by pouring solder between the convolutions and removing the mandrel.

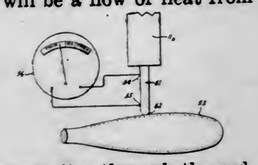
2,323,714
CHEMICAL PROCESS
James E. Kirby and James H. Werntz, Brandywine Hundred, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 25, 1941, Serial No. 399,734
8 Claims. (Cl. 260—508)

1. A process for the preparation of an aminopropanesulfonate which comprises reacting an organic amine containing an allyl group attached to a basic nitrogen atom with a water-soluble compound capable of yielding bisulfite ions in the presence of a catalytic amount of an oxidizing agent.

2,323,715
THERMAL TESTING APPARATUS
Hans P. Kuehni, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application October 17, 1941, Serial No. 415,434
3 Claims. (Cl. 73—51)

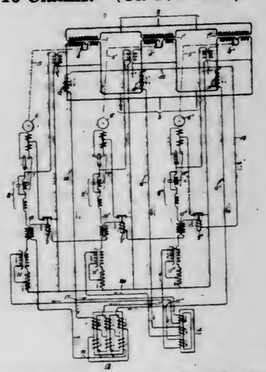
3. Thermal conductivity testing apparatus comprising a main heat storage mass of metal and an auxiliary heat storage mass comprising a metallic rod extending from said mass and terminating in an end part which is adapted to be placed in thermal contact with a test piece, means for maintaining the main heat storage mass at a substantially constant predetermined

high temperature, such that when the rod is brought into contact with a low temperature test piece there will be a flow of heat from the main



mass to the test piece through the rod, and temperature responsive means for measuring the maximum rate of heat flow through said rod.

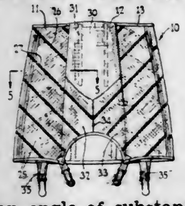
2,323,716
ELECTRIC CIRCUIT
Thomas C. Lennox, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application May 29, 1942, Serial No. 444,999
16 Claims. (Cl. 171—119)



1. In combination, a plurality of alternating-current power circuits, separate voltage regulating means for automatically maintaining the voltage of said circuits substantially the same, said circuits being interconnected so that inequality in their voltage causes a circulating current to flow therein, a common load for said circuits, means for deriving a current from each of said circuits which is proportional to the load component of the total current therein and which is independent of the circulating component of the total current therein, a separate line drop compensator for each of said voltage regulating means, and means for energizing each line drop compensator with the load component current derived from its associated power circuit.

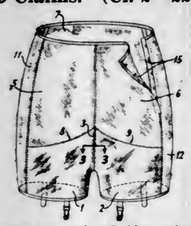
2,323,717
FORM SHAPING AND CONSTRICTING GARMENT
Benn Lewis, Maplewood, N. J.
Application June 23, 1942, Serial No. 448,057
7 Claims. (Cl. 2—43)

1. A garment of the character described for shaping and constricting the human form, comprising a plurality of panels connected to each other along their side edges, at least one of said panels including an outer and an inner ply, each of said plies comprising a plurality of juxtaposed, parallel, woven fabric strips attached to each other along their side edges by stitching which normally maintains said side edges in spaced relationship and which is resilient, the strips in the outer ply being disposed substantially perpendicularly to the strips in the inner ply, the warp or woof of said strips being parallel to said juxtaposed edges and the said juxtaposed edges being



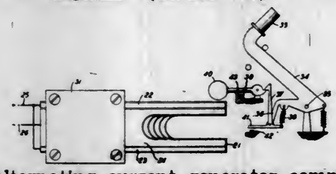
disposed at an engle of substantially 45° to the vertical whereby the full bias lines of said strips will be disposed substantially vertically and circumferentially of said garment.

2,323,718
UNDERGARMENT
Edward G. Madden, Kearney, N. J., and Benjamin Murdock, Brooklyn, N. Y., assignors to Wolfe & Lang, Inc., a corporation of New York
Application July 22, 1942, Serial No. 451,884
5 Claims. (Cl. 2—224)



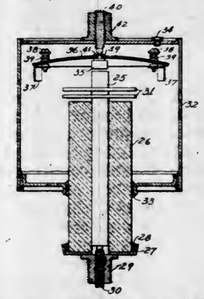
1. An undergarment of the girdle type having as an integral element theerof a two-piece crotch, each piece of which is cut along the bias and composed of a fabric material having non-elastic warp and woof threads, each piece of said crotch being folded to form a tubular passage for one of the legs of the wearer, a non-elastic body portion for at least the front of said garment and secured to the top edges of said crotch pieces, and means for securing said two pieces together on a straight line in the center of the garment whereby said crotch is stretchable in a vertical direction as seen looking at the wearer.

2,323,719
ALTERNATING CURRENT GENERATOR
Rudolph F. Mallina, Hastings on Hudson, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 21, 1941, Serial No. 394,465
1 Claim. (Cl. 179—90)



An alternating current generator comprising an electrical circuit, a piezoelectric crystal for modulating said circuit, said piezoelectric crystal being constructed in the form of a vibrator clamped at its middle, said crystal being further proportioned and arranged to have a given natural period of vibration, and mechanical means for striking said crystal into free vibration.

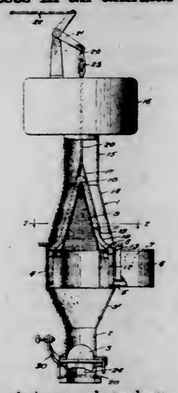
2,323,720
PROTECTIVE DEVICE FOR SERIES CAPACITORS
Ralph E. Marbury, Wilkinsburg, and William E. Berkey, Forest Hills, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 27, 1940, Serial No. 358,635
2 Claims. (Cl. 200—118)



1. A protective device for electrical apparatus for bypassing said apparatus upon the occurrence of a predetermined overvoltage, said protective device comprising a gas-tight metal container containing a gas at sub-atmospheric pressure, a fixed electrode having a plane sparking surface within the container, said fixed electrode extending to the outside of the container and being insulated therefrom, a thermally-responsive device mounted in the container, a movable electrode disposed within the container and electrically connected thereto, said movable electrode being adapted to be moved by said thermally responsive device and having a plane sparking surface which is normally spaced from the sparking surface of said fixed electrode to form a spark gap therewith, said thermally-responsive device being adapted to be heated by a discharge between the electrodes to effect movement of the movable electrode into contact with the fixed electrode, said thermally-responsive device being mounted in heat-exchange relation to the metal container, whereby the thermally-responsive device is cooled sufficiently after a discharge is extinguished by contact of the electrodes to effect separation of the electrodes at a more or less definite time interval after they have been brought together, said time interval being substantially independent of the magnitude of the current flowing through the protective device.

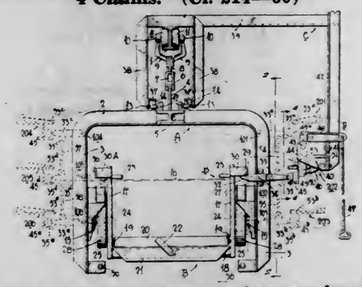
2,323,721
CARBURETOR
William F. McLindon, Arlington, Va.
Application April 10, 1941, Serial No. 387,941
6 Claims. (Cl. 261—62)

6. Carburetor comprising a casing including an annular reservoir for liquid fuel, a conical tubular wick having its lower end immersed in the liquid fuel in said reservoir for raising liquid fuel by capillarity into said wick, a perforate shape sustaining support for said wick circumscribing the central opening of said annular reservoir, said casing including a shell extending above said reservoir having substantially the same taper as said wick, spaced therefrom to form a surrounding air duct and terminating in an air inlet, said casing including also a shell below said reservoir having a combustible mixture outlet, and a hollow conical cap fitting upon the apical portion of said wick within said casing defining an exposed zone of said wick through which air passes in an annular curtain to said



combustible mixture chamber creating suction beneath said cap whereby the capillary feed of fuel to the exposed zone of said wick is augmented by suction on the upper part of said wick, and means for moving said cap axially of said wick to closed position relative to said shell or to intermediate positions of closure whereby it functions as a choke valve.

2,323,722
TROLLEY CONVEYER
Julius A. Meister, Ellwood City, Pa., assignor to Mathews Conveyer Company, Ellwood City, Pa., a corporation of Pennsylvania
Application June 5, 1941, Serial No. 396,776
4 Claims. (Cl. 214—60)



1. In a trolley conveyer system, a plurality of carriages for transporting material from a loading station to a plurality of discharging stations, a latch on each carriage for controlling the discharge of material therefrom, a member on each carriage selectively positionable at certain elevations thereon for determining a station at which the material on the carriage will be discharged, a pivotal link adapted to connect the latch to said member in its selected position, a tripping mechanism at each of said stations movable into and out of operative position, said tripping mechanisms being arranged at preselected elevations each to engage a member at that elevation to cause a selected carriage to discharge the material therefrom, means on

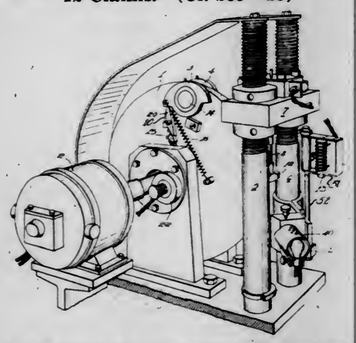
each carriage tending to move said member to inoperative position after it has engaged a tripping mechanism, and a latch for holding said member in operative position.

2,323,723
SPACER FOR PULL TIES
James C. Mushet, Roselle Park, N. J., assignor, by mesne assignments, to Ralph E. Ogden, New York, N. Y.
Application November 21, 1941, Serial No. 419,859
6 Claims. (Cl. 85—51)



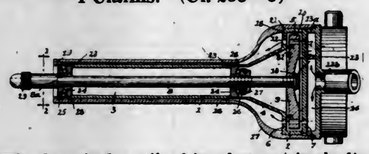
1. A spacer adapted to engage an enlarged head on a tie rod passing between the walers of a concrete form, said spacer comprising a pair of members pivoted together near one of their ends, said members being in the form of flat plates longer than the space between the walers and having straight parallel edges and having an edge of each cut back beyond its longitudinal center to clear the rod, an oblique edge from the cut back portion of at least one of the members to an edge thereof, and means for limiting the relative opening movement of the members about their pivotal connection.

2,323,724
HIGH VELOCITY TENSILE MACHINERY
Arpad Nadai, Forest Hills, and Michael J. Manjoine, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 12, 1940, Serial No. 345,098
12 Claims. (Cl. 265—13)



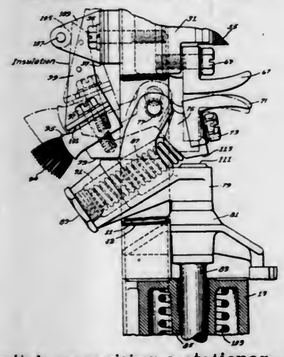
1. A machine for measuring the stress-strain characteristic of a specimen at high speed, comprising, in combination, a rigid metallic body having a relatively high elastic modulus, said body having a screw-threaded opening for supporting one end of said specimen, an anvil which is in screw-threaded engagement with the other end of said specimen, a flywheel, means for rotating said flywheel, hammer means mounted on said flywheel, means for rendering said hammer means effective to strike said anvil and effect elongation of said specimen, photoelectric amplifying means for producing a current proportional to the elongation of said body which is indicative of the force acting on said body, a second photoelectric amplifying means for producing a current proportional to the elongation of said specimen, a cathode ray tube means including a screen for combining at right angles the effects of said currents to visibly produce a stress-strain curve.

2,323,725
GRINDING TOOL
John J. O'Brien, East Paterson, N. J.
Application March 20, 1942, Serial No. 435,507
4 Claims. (Cl. 253—3)



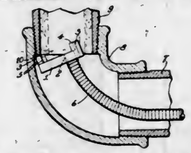
1. The hereindescribed implement including an elongated housing which for the major portion of its length is formed slender and has one end portion enlarged, said housing having a bore extending longitudinally therethrough from end to end thereof and which within said end portion provides a cavity of greater diameter than the remainder of the bore and said housing having a wall partitioning off a space of the cavity from the open end of the latter, a shell fixed to and surrounding the housing from approximately end to end thereof and forming with the housing a passage closed at one end by the enlarged portion of the housing and open at the other end, and a rotor journaled in and coaxial with the bore and having a turbine in said space, said enlarged portion of the housing having an outlet from said space to the passage and said wall and the turbine having means to conduct into and past the turbine and to the outlet fluid existing under pressure at the relatively outer side of said wall.

2,323,726
CIRCUIT BREAKER
Lynn G. Riley, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 22, 1941, Serial No. 407,918
13 Claims. (Cl. 200—165)



1. A switch comprising a stationary contact, a movable contact, an actuating member movable to open and close the contacts, said movable contact being movable to open and to closed position in a path at right angles to the surface of engagement of said contacts, and means insulated from one of said contacts and operable prior to engagement of the contacts to cause an impact of the movable contact before the contacts engage.

2,323,727
PIPE CLEANING CUTTER
Kyle I. Robinson, Bolivar, and Lawrence R. Robinson, Zellenople, Pa., assignors to Pittsburgh Pipe Cleaner Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application October 11, 1941, Serial No. 414,637
6 Claims. (Cl. 15—104.09)

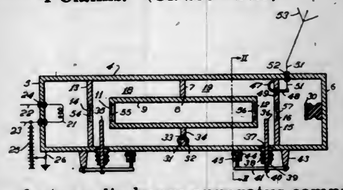


1. A pipe cleaning cutter in the form of a body member formed off center for connection to the front end of a rotating flexible cable, and only two laterally spaced cutting members disposed opposite each other and rigidly connected to said body member and projecting forward from its edge, the outer end of each cutting member being substantially straight in the direction of rotation whereby when the rotating cutter engages a shoulder in a bend of a pipe one of said cutting members will hook over the shoulder and remain in engagement therewith to permit the cutter to lift itself over the shoulder.

2,323,728
CATALYST AND THE PREPARATION THEREOF
Robert F. Ruthruff, Chicago, Ill.
No Drawing. Application January 15, 1940, Serial No. 313,898
5 Claims. (Cl. 252—204)

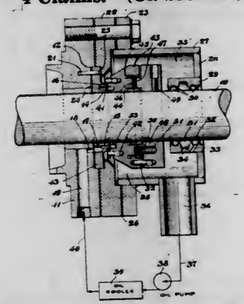
1. In a process for producing catalysts, the step comprising forming a superficial layer of catalytically active magnesia-silica complex upon the surface of inert siliceous particles.

2,323,729
MEANS FOR TUNING SHORT-WAVE HOLLOW-BODY RESONATOR APPARATUS
Alden H. Ryan, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 13, 1940, Serial No. 352,412
4 Claims. (Cl. 250—27.5)



1. An electron-discharge apparatus comprising an evacuated container; means therein for producing an electron-beam; a modulating beam-coupling means for operating on said electron-beam at one region thereof for modulating said beam at a predetermined high-frequency rate; an excitable beam-coupling means to be acted upon by said electron-beam at another region thereof for absorbing high-frequency energy from the modulations of said beam; said beam-coupling means including hollow-body resonator-means to be excited to oscillate at a common resonating-frequency and including frequency-changing means for adjusting said common resonating frequency, said frequency-changing means including an externally controllable movable means adjacent to the path of said beam for varying the capacity-effects in its vicinity without changing the effective extents of said beam-coupling means along the path of said beam; coupling excitation-means mounted in said hollow-body resonator-means for supplying high-frequency excitation-energy to said modulating beam-coupling means; and coupling output-means mounted in said hollow-body resonator-means for deriving high-frequency electrical energy from said excitable beam-coupling means.

2,323,730
SHAFT SEAL
Francis Shenton and Leon Buehler, Jr., Waynesboro, Pa., assignors to Frick Company, Waynesboro, Pa., a corporation of Pennsylvania
Application January 27, 1941, Serial No. 376,234
4 Claims. (Cl. 286—19)

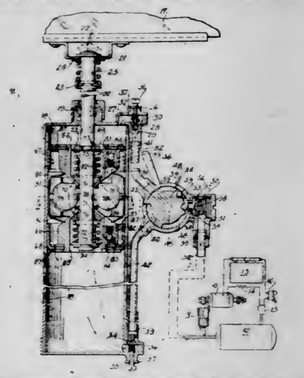


1. In apparatus having a rotating shaft projected through an opening in a housing containing a fluid under pressure, for example the crankcase of a turbo-compressor unit for a refrigeration system, a fluid pressure seal assembly for the joint between the shaft and housing comprising a sealing member fixed to the housing and having a seal nose with an axially-presented sealing surface formed with a channel or groove in the face thereof and a port communicating said channel with the exterior of the seal nose, a rotating seal unit including a seal ring and an axially movable annulus connected to the shaft for rotation with the latter, means associated with said annulus for sealing against leakage of fluid axially of the shaft and for transmitting fluid pressure through said annulus to said sealing ring, a seal housing enclosing the seal assembly and providing a chamber around the latter, means for circulating oil into and through the channel of the seal nose in contact with the rotating seal face and outwardly through said port into the chamber surrounding the seal assembly, and means for effecting a seal against leakage of fluid from said chamber axially outwardly along the shaft.

2,323,731
WINDOW OPERATING MEANS
Walter F. Shetzline, Los Angeles, Calif.
Application January 29, 1941, Serial No. 376,461
8 Claims. (Cl. 268—125)

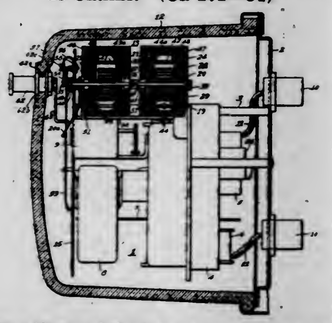
1. In a window or panel operating device, a

cylinder, a piston rod arranged for operation through one end of said cylinder, which piston rod is connected to a sliding window or panel, a pair of spaced heads mounted for sliding movement upon the piston rod within said cylinder, two sets of segments yieldingly arranged between said heads, brake shoes carried by said segments for engaging the inner surface of the cylinder,



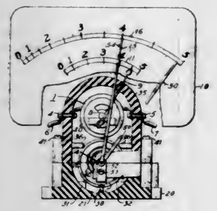
spherical members arranged between said segments, which spherical members are moved outwardly by the heads on the piston rod as said heads move toward each other and manually operable valvular means for admitting compressed air to the ends of said cylinder to move the heads therein.

2,323,732
THERMAL DEMAND METER
Benjamin H. Smith, Bloomfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 14, 1941, Serial No. 393,343
15 Claims. (Cl. 171—34)



14. In a thermal device responsive to a variable quantity; an actuating assembly comprising a shaft, a pair of thermoresponsive means for actuating said shaft, and means connecting said thermoresponsive means to said shaft at axially spaced positions; a housing formed of insulating material for said actuating assembly, said housing comprising a base section and a cover section separable in a direction substantially transverse to said shaft, bearing means associated with said housing for mounting said shaft for rotation therein intermediate said sections, said housing having spaced chambers for receiving said thermoresponsive means and bearing means configured to permit withdrawal of said actuating assembly therefrom as a unit in a direction substantially transverse to said shaft when said sections are separated, and electrical heating means positioned in said housing for heating said thermoresponsive means in accordance with an electrical quantity to be measured, said heating means having terminals extending exteriorly of said housing.

2,323,733
ELECTRICAL MEASURING DEVICE
Benjamin H. Smith, Bloomfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 29, 1941, Serial No. 408,796
4 Claims. (Cl. 171—95)

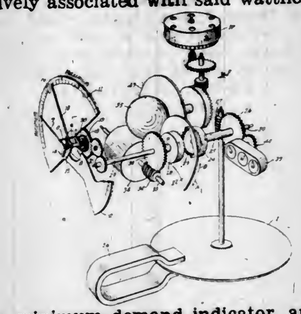


3. In a measuring device for measuring both instantaneous electrical current values and maximum demand current values; an ammeter having indicating means and current responsive actuating means for actuating said indicating means, said actuating means being subject to heating dependent on the value of current passing therethrough; a maximum demand ammeter comprising a shaft, a pair of bimetallic springs associated with said shaft, said bimetallic springs being disposed to urge said shaft in opposite directions of rotation when said bimetallic springs are heated; means positioning a first one of said bimetallic springs to be heated by heat emitted by said actuating means, a common enclosure for said first one of said bimetallic springs and said current responsive actuating means, said common enclosure being formed of heat insulating material for confining about the enclosed first bimetallic spring heat developed by said current esponsive actuating means, the second one of said bimetallic springs being positioned externally of said enclosure for compensating said maximum demand ammeter against changes in ambient temperature.

2,323,734
MEASURING INSTRUMENT
Stanley Stokes, St. Louis, Mo., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 1, 1940, Serial No. 338,405
2 Claims. (Cl. 171—34)

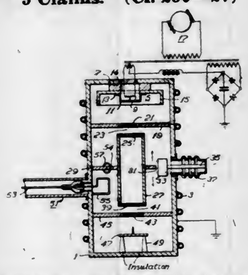
2. In a device for providing indications of extreme voltage values in an electrical circuit, an integrating watthour meter unit, a fixed resistance load for said watthour meter unit, and an

exponentially lagged maximum demand register operatively associated with said watthour meter



unit, a minimum demand indicator, and means mounting said minimum demand indicator for operation by said lagged demand register.

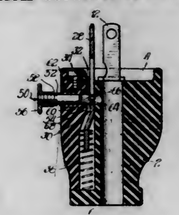
2,323,735
ELECTRIC DISCHARGE APPARATUS
Gereld L. Tawney, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 14, 1940, Serial No. 323,935
5 Claims. (Cl. 250—27)



1. An electric discharge device comprising a container having a conducting portion of substantial area on its inner wall and containing an electron emitting electrode, means for deriving an attenuated stream of electrons from said electrode, a first hollow body resonator disposed in the path of said stream for impressing variations on the velocity of the electrons in said stream, a second hollow body resonator disposed in the path of said stream for deriving energy from the electrons in said stream, a circuit connecting said conducting portion with said emitting electrode for returning to the latter the electrons emerging from said second resonator and a deflecting electrode insulated from said resonators and said emitting electrode for deflecting the electrons emitting from said resonator to said conductor.

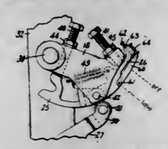
2,323,736
ATTACHMENT PLUG
Victor H. Tousley, Chicago, Ill.
Application June 11, 1941, Serial No. 397,516
1 Claim. (Cl. 173—361)

An electrical attachment plug comprising a body member, spaced contact elements mounted on said body member and adapted for engagement with terminal members of a receptacle to complete an electrical circuit, a contact element movably mounted with respect to said body member adapted for engagement with a terminal member of a receptacle, manually operable means for locking said last-named contact member in position with respect to said body, and a spring normally urging said last-named contact element into extended relation to said body member, said spring being characterized as having a capacity slightly greater than required to overcome the friction between said last-named con-



tact element and its mounting in said body member but insufficient to force the said last-named contact element into operative relation to a terminal member of a receptacle provided therefor, thereby preventing the said attachment being forced out of cooperative relation with a receptacle in which a loose or faulty connection exists between said first-named contact members and their cooperating terminal members for a receptacle.

2,323,737
CONTROL SYSTEM
John F. Tritle, Erie, Pa., assignor to General Electric Company, a corporation of New York
Application August 9, 1941, Serial No. 406,231
8 Claims. (Cl. 74—568)

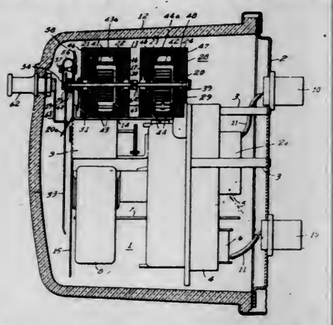


1. A cam-actuated mechanism comprising in combination, a movable member, a cam follower, adjustable means for connecting said follower to move said member throughout a limited range of movement, an adjustable cam operable in conjunction with said follower and comprising a pair of lobes pivoted together at a point defining an intermediate position in said range, said intermediate position being adjustably determinable by said adjustable means, means for independently adjusting one of said lobes about said point adjustably to determine a first limiting position of said range, and means for independently adjusting the other of said lobes about said point adjustably to determine the other limiting position of said range.

2,323,738
THERMAL DEMAND METER
Hervey P. Vassar, Bloomfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 20, 1941, Serial No. 394,260
20 Claims. (Cl. 171—34)

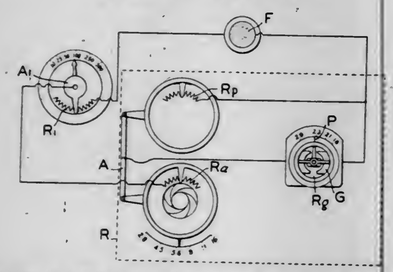
1. In a measuring device, a pair of thermoresponsive units, means differentially responsive to the outputs of said thermoresponsive units,

means for heating each of said thermoresponsive units in accordance with functions of a quantity to be measured, an insulating housing providing a substantially separate enclosed space for each of said thermoresponsive units and its associated heating means, and means for spacing said thermoresponsive units and said heating



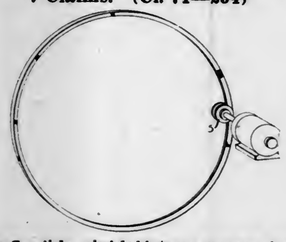
means from said housing to provide a separate air space within said housing substantially surrounding each of said thermoresponsive units and its associated heating means.

2,323,739
PHOTOGRAPHIC CAMERA
Ferdinand Wagner, Munich, Germany, assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
Application March 17, 1941, Serial No. 383,760
In Germany March 6, 1940
4 Claims. (Cl. 95—10)



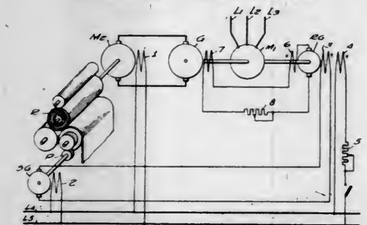
1. In a photographic camera having a shutter and diaphragm and means for adjusting the action of the same, a photoelectric exposure meter comprising an electric circuit including a galvanometer, a photoelectric element for actuating said galvanometer, a first variable resistance mechanically coupled with said means for adjusting the shutter action, a second variable resistance mechanically coupled with said means for adjusting the diaphragm action and connected in series with the galvanometer and photoelectric element, a third variable resistance connected in parallel with said galvanometer and means for electrically coupling said second and third resistances in such a manner that the electrical resistance of one of said second and third resistances increases as that of the other decreases and vice versa, to thereby insure that the total electrical resistance of said second and third resistances and the internal resistance of said galvanometer remains constant regardless of the adjustment of said second resistance.

2,323,740
V-BELT
William T. Wagner, Los Angeles, Calif., assignor to The Dayton Rubber Manufacturing Company, Dayton, Ohio, a corporation of Ohio
Application March 24, 1941, Serial No. 384,779
7 Claims. (Cl. 74—234)



4. An inflexible rigid V-type power belt which comprises a rigid steel ring reinforced rubberized belt, said steel ring being embedded in the rubber body portion thereof, and a rubberized fabric wrapper disposed around and vulcanized to said rubber body portion forming a unitary belt.

2,323,741
SPEED CONTROL FOR DIRECT CURRENT MOTORS
Earl C. Watson, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 15, 1941, Serial No. 393,603
11 Claims. (Cl. 172—239)

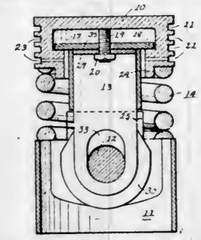


1. A motor speed control system comprising, in combination, a prime mover, a main generator and a regulating generator, both mechanically driven thereby, a driving motor having its armature connected in loop circuit with the generator armature, said regulating generator having three field windings in the same magnetic circuit, a constant potential source for exciting the first winding, a tachometer generator mechanically driven by said driving motor for exciting the second winding, said first and second windings having oppositely acting fields, a main generator shunt field connected in series with the third winding and with the armature of the regulating generator, whereby corrective influences on the speed of the driving motor are provided in accordance with the voltage produced by the tachometer generator.

2,323,742
INTERNAL COMBUSTION ENGINE PISTON
Philip S. Webster, Muskegon, Mich.
Application March 19, 1942, Serial No. 435,272
4 Claims. (Cl. 309—15)

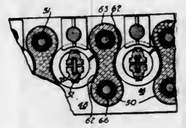
1. A piston for an internal combustion engine having an upper portion and a lower portion in spaced relation thereto having vertically spaced

side walls whose lower ends are each provided with a shoulder, a connecting member secured to the upper portion of the piston and limitedly slidably disposed within the lower portion there-



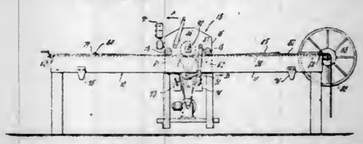
of whose lower ends are flared outwardly and are adapted to engage said shoulders, and a helical expansion spring interposed between the upper and lower portions of the piston.

2,323,743
VENTILATED RESISTOR
Charles C. Whittaker, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 11, 1941, Serial No. 388,058
13 Claims. (Cl. 201—74)



1. A resistor comprising an elongated core member of insulating material, a resistance element including a plurality of spaced turns of an edgewise wound ribbon of resistance material of generally helical form positioned about the core member, and a pair of elongated baffle members of insulating material so positioned on opposite sides of the element and having transversely curved surface portions in juxtaposition to the outer edges of the turns of the resistance material so shaped as to define with the core member a plurality of relatively long arcuate channels between adjacent turns of the element throughout substantially the full length of the element.

2,323,744
BUFFING MACHINE
George F. Wikle, Grosse Pointe, Mich., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application November 30, 1940, Serial No. 367,885
11 Claims. (Cl. 51—34)



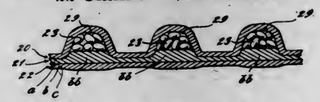
9. Means for buffing sheet material comprising in combination means for stretching a sheet of elastic material and holding it under predetermined tension, a rotatable buffing wheel, a rotatable work supporting drum, means for supporting the wheel and drum adjacent each other and on opposite sides of the sheet material, the drum being adapted to hold the sheet in operative contact with the buffing wheel, and means for rotating the buffing wheel and moving the buffing wheel and drum over the sheet in a direction parallel to the direction of movement of the periphery of the buffing wheel where it makes contact with the sheet to buff the sheet while stretched.

2,323,745
RAZOR
George A. Wildeboor, Harrisonville, Mo.
Application September 29, 1941, Serial No. 412,704
9 Claims. (Cl. 30—43)



7. A device of the character described including a casing, spaced parallel concaves carried by the casing, each having slot-like apertures arranged diagonally with respect to axes of the concaves with the apertures in one concave extending in opposite angular relationship to the apertures of the other concave, rotors in said casing having substantially flat cutting blades arranged to cooperate with edges of said apertures for severing hair passed through the apertures, interengaging wheels on said rotors, and means in said casing for rotating one of said rotors in one direction, said other rotor being rotated in the opposite direction incidental to said engagement of said wheels.

2,323,746
PRESSURE-BONDED SEED WRAPPER AND METHOD OF MAKING SAME
William H. Woolf and Percival Paul Korn, New York, N. Y.
Application January 26, 1942, Serial No. 428,316
22 Claims. (Cl. 47—56)

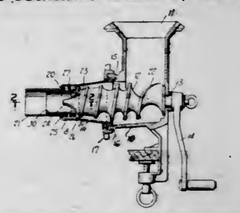


1. As an article of manufacture, a wrapper, seeds disposed within said wrapper in seed areas, said seeds being covered by said wrapper, the portions of the latter covering said seeds in said seed areas being distended and stretched, relative to the remaining portions of said wrapper.

2,323,747
JUICE EXTRACTOR
Carl Gunnar Zetterstrom and Lars Johan Faith Ell, Stockholm, Sweden, assignors to Aktiebolaget Elektrolux, Stockholm, Sweden, a corporation of Sweden
Application April 16, 1941, Serial No. 388,760
In Sweden April 24, 1940
10 Claims. (Cl. 100—48)

1. In a fruit juice extracting machine, a housing, a rotatable member including a spiral worm disposed within said housing for compressing fruit to separate the juice from the solids, said housing being formed with a plurality of small apertures for the withdrawal therethrough of the

juice and with a discharge port for the solids axially spaced from one end of said rotatable member, an annular valve seat formed on said end of said rotatable member, an axially dis-



placeable annular valve member cooperating with said seat, and resilient means urging said valve member against said seat, said housing constituting an abutment for said resilient means.

2,323,748

WATER-REPELLENT ULTRAMARINE

Henry Frederick Dieterle, Cedar Grove, N. J., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application September 4, 1940, Serial No. 355,313
16 Claims. (Cl. 106—305)

1. A method of producing a water dispersion of ultramarine capable of drying on a surface to a water-repellent non-dispersible ultramarine coating which comprises homogeneously coating finely ground ultramarine with a very thin film of a soluble soap by admixing a solution of said soap with the ultramarine until homogeneous coating results and suspending the coated ultramarine in water in the presence of a water soluble volatile dispersing agent and in the presence of a salt of a polyvalent metal capable of reacting with the soap coating the ultramarine to transform the former into the salt of the polyvalent metal and the fatty acid of the soap.

2,323,749

WATER-REPELLENT ULTRAMARINE

Henry Frederick Dieterle, Cedar Grove, N. J., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Original application September 4, 1940, Serial No. 355,313. Divided and this application June 16, 1942, Serial No. 447,276
17 Claims. (Cl. 106—305)

1. A method of producing a water dispersion of ultramarine capable of drying on a surface to a water repellent non-dispersible ultramarine coating which comprises homogeneously coating finely ground ultramarine with a very thin film of a soluble soap of a higher fatty acid by admixing a solution of said soap with ultramarine until homogeneous coating results and suspending the coated ultramarine in water in the presence of a water soluble dispersing agent and in the presence of sufficient acid to react with the soap and transform the film into a film of free fatty acid.

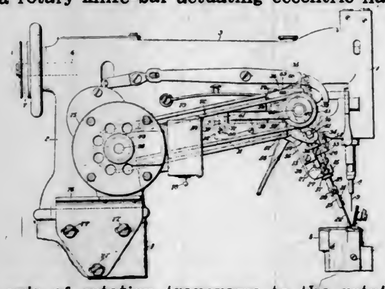
2,323,750

TRIMMER MECHANISM FOR SEWING MACHINES

Irvin John Frey, Lakewood, Ohio, assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey

Application September 24, 1940, Serial No. 358,045
27 Claims. (Cl. 112—125)

1. In a sewing machine having stitch-forming mechanism including a reciprocatory needle, a rotary needle-reciprocating shaft, and a trimmer mechanism associated with said stitch-forming mechanism including a reciprocatory knife-bar, the improvement which consists in the provision of a rotary knife-bar actuating eccentric having



its axis of rotation transverse to the rotation-axis of said needle-reciprocating shaft, a pitman directly pivoted to said knife-bar and having a strap embracing said eccentric, and driving means operable independently of said needle-reciprocating shaft for rotating said knife-bar actuating eccentric.

2,323,751

PROCESS OF TREATING PELTS OR FURS

Siegfried Gottfried, Budapest, Hungary, assignor to Pannonia (London) Limited, London, England, a limited-stock company of England

No Drawing. Application July 27, 1937, Serial No. 156,005. In Hungary November 24, 1936
1 Claim. (Cl. 149—28)

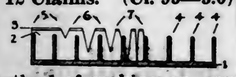
In the treatment of pelts and furs, the process which comprises treating the hair of a pelt by contacting the hair with the vapors of formaldehyde in quantity sufficient to cause the eventual setting of the hair and, while at least residues of said aldehyde are still present on said hair, subjecting the hair to the simultaneous action of mechanical pressure and heat, thereby producing setting of the hair.

2,323,752

PHOTOENGRAVING PROCESS AND PRODUCT

Walter Howey, Boston, Mass.

Application December 26, 1939, Serial No. 310,878
12 Claims. (Cl. 95—5.6)



1. The method of making an engravers' plate which consists in preforming a base layer with spaced apart disconnected projecting members approximately normal to the plane of said base, coating the said base between the projections with an intermediate etchable layer chlorinated rubber to form a printing surface on a plane corresponding to the upper face of said projections, and covering the intermediate layer with a light sensitive coating.

2,323,753

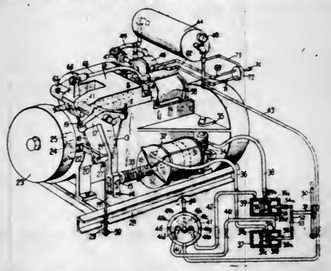
TRUCK MIXER TRANSMISSION CONTROL

Gebhard Jaeger and Clarence I. Bohmer, Columbus, Ohio, and Chris Gerst, Detroit, Mich., assignors to The Jaeger Machine Company, Columbus, Ohio, a corporation of Ohio

Application August 3, 1940, Serial No. 350,586
8 Claims. (Cl. 192—4)

1. In combination with a transmission having

a clutch, a clutch operating member adapted to be moved from a neutral position to a position where it engages the clutch and causes it to drive the output shaft of the transmission in one direction or to a position where it engages the clutch and causes it to drive the said shaft in an opposite direction, said transmission also having a brake unit associated therewith for exerting a braking force on the output shaft whenever the clutch is disengaged, a lever for operating said brake unit, a vacuum operated control mechanism for moving said clutch operating member from neutral position into either of its positions where it engages the clutch and for



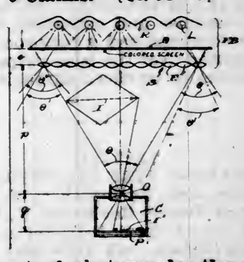
simultaneously moving the brake control lever to release the brake, said vacuum operated control mechanism comprising a cylinder having a piston therein movable in both directions, a piston rod extending from said piston, a main control lever having one end keyed to a shaft which carries it and its opposite end connected to said piston rod, said shaft being rotatable by said main control lever and being connected to said clutch operating member to move said member, said main control lever having oppositely extending arms adjacent its pivot point, said arms being connected to said brake lever to produce movement thereof upon movement of said main control lever.

2,323,754

ILLUMINATION OF PHOTOGRAPHIC SCREENS

Leslie W. Oliver, Amersham, England, assignor to Technicolor Motion Picture Corporation, Los Angeles, Calif., a corporation of Maine

Application October 17, 1939, Serial No. 299,829
9 Claims. (Cl. 95—5)



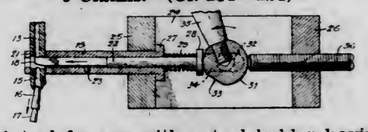
5. In the art of photography the method of taking a scene against a backing which comprises illuminating one side of the backing with diffused light of substantially uniformly distributed flux, optically bunching said light flux at said backing into a plurality of substantially parallel beams with substantially uniform flux density in each beam, and exposing a scene at the other side of said backing in a taking camera directed at said scene and said backing in a position rendering the axes of said camera and of said beams substantially parallel and the angles subtended by said beams at said backing at least as large as the angle subtended at the camera aperture by the longest dimension of the photographically effective emulsion area of the camera.

2,323,755

DIE PUNCH

Jacob A. Smith, Chicago, Ill., assignor of one-half to Claude A. Benjamin, Chicago, Ill.

Application June 5, 1942, Serial No. 445,841
9 Claims. (Cl. 164—124)



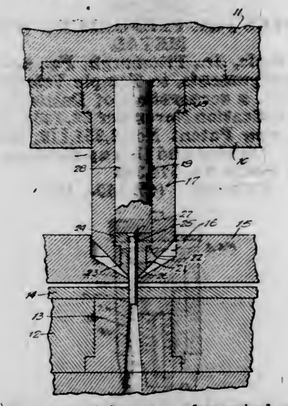
1. A tool for use with a tool holder having a pad, comprising a quill carried by the pad having a tapered opening at its outer end and a transverse slot intersecting the opening, a tool having a tapered shank fitting in the opening with the end of the shank extending into the slot, in combination with a tool for removing the punch from the quill comprising an elongated supporting member to engage and hold the quill and a wedge slidable longitudinally of the supporting member to enter the slot and force the tool from the quill.

2,323,756

PUNCH MOUNTING

Jacob A. Smith, Chicago, Ill., assignor of one-half to Claude A. Benjamin, Chicago, Ill.

Application June 5, 1942, Serial No. 445,842
1 Claim. (Cl. 164—124)



A punch comprising an elongated quill having a cylindrical bore therein reduced at its outer end to provide an internal shoulder the reduced portion of the bore being accurately formed to provide a guiding and locating surface, a solid inner quill having a head thereon to seat on the shoulder and a cylindrical body fitting in the reduced portion of the bore to be accurately located thereby, the inner quill having an elongated bore of uniform section extending completely therethrough terminating at its inner end in a relatively short enlarged cavity, a punch fitting in the bore in the inner quill to be located thereby and having a head fitting in the cavity and terminating flush with the end of the inner

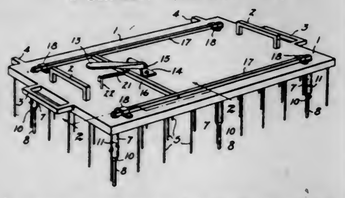
quill, and a cylindrical block fitting in the first named bore and seating against the inner ends of the punch head and the inner quill.

2,323,757

APPARATUS FOR AND PROCESS OF HANDLING HOLLOW ARTICLES

Carl R. Taylor, Cleveland Heights, Ohio, assignor to The Cream Cone Machine Company, Cleveland, Ohio, a corporation of Ohio

Application August 21, 1939, Serial No. 291,129
6 Claims. (Cl. 226—14)



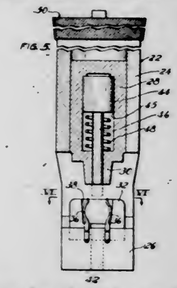
1. A handling device for hollow articles such as ice cream cones and the like which comprises a body portion, a plurality of pins depending therefrom upon which articles may only be supported when the device is inverted, means for interfitting the device with a basketlike, socketed, holding member adapted to hold a plurality of articles in spaced relationship, a fixed stop for supporting a sheetlike article spacing and holding member when the device is inverted, a movable stop for supporting the sheetlike member when the device is upright, means for retracting the movable stop to a non-supporting position, said last means including a lever operable from the top of said body portion.

2,323,758

APPARATUS FOR PERFORMING WORK ON METAL

Robert Temple, Jr., Pittsburgh, Pa., assignor, by mesne assignments, to Temple Velocity Equipment, Inc., a corporation of Delaware

Original application November 22, 1938, Serial No. 241,815, now Patent No. 2,251,176, dated July 29, 1941. Divided and this application January 14, 1941, Serial No. 374,343
9 Claims. (Cl. 140—113)



1. Apparatus for forming a terminal on the bare end of a wire which comprises a frame, a pair of dies mounted in the frame for relative movement toward and from each other, said dies being formed with complementary male and female portions adapted to receive a short length of tubing with the end of the wire therein and to form a flattened terminal end on the tubing and wire, means associated with one of the dies for punching a hole through the flattened terminal end, and means for driving the dies together by the detonation of an explosive charge.

2,323,759

METHOD OF FORMING ARTICLES FROM TITANIUM DIOXIDE

Hans Thurnauer and George Warren Fichter, Chattanooga, Tenn., assignors to American Lava Corporation, Chattanooga, Tenn., a corporation of Tennessee

No Drawing. Application October 31, 1941, Serial No. 417,392
6 Claims. (Cl. 106—67)

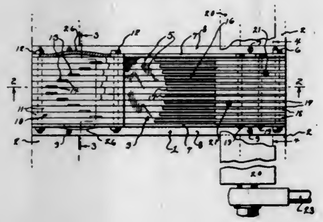
1. A casting slip comprising a mixture of titanium dioxide powder, sodiumalginate and montmorillonite, said mixture comprising substantially 90% titanium dioxide powder and 10% mixture of sodiumalginate and montmorillonite.

2,323,760

VEGETABLE SLICER

Joseph Wolfinger, Sr., Dundas, Wis.; Frank F. Wolfinger, administrator of said Joseph Wolfinger, Sr., deceased

Application May 20, 1940, Serial No. 336,195
1 Claim. (Cl. 146—169)



A vegetable slicer comprising a plurality of abutting base strips and a plurality of abutting head strips, the said base and head-strips having vertically aligned narrow knife receiving notches in V formation the length of the notches being parallel to the length of the base and head strips, the base strips being extended beyond the head strips to form a receiving table for vegetables, vertical side plates for the gangs of strips and transversely disposed bolts extending through the base strips and head strips and side plates for securing the parts together, knives terminating in said notches and extending between the base and head strips and a reciprocative slotted plunger mounted over the base strips adapted to force vegetables to be sliced through the knives.

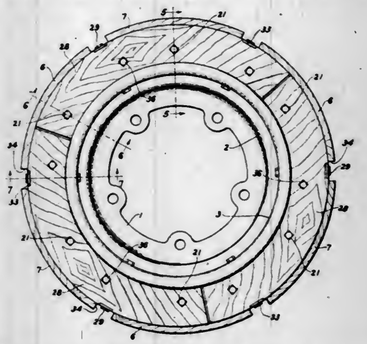
2,323,761

RESILIENT TIRE FOR WHEELS

Richard Yates, East Rochester, N. Y., assignor to Paul Folger, Rochester, N. Y.

Application September 5, 1942, Serial No. 457,406
9 Claims. (Cl. 152—255)

1. In a resilient tire, the combination with a rim, of a series of segmental radially movable tread units, a leaf spring for each tread unit secured to the rim and having its ends supporting the ends of the tread unit, the alternate tread units being of less depth than the adjacent ones, and a spacing block mounted between the rim and the leaf spring of each of said alternate tread units, and guiding means acting to control and limit the radial movement of each tread unit, the ends of each tread unit being interlocked with the adjacent tread units and acting to impart radial movement thereto.

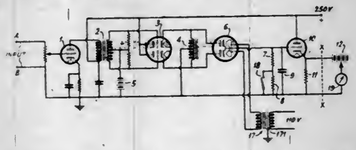


2,323,762

MEASUREMENT AND RECORDING OF TRANSIENT PEAK VOLTAGES

Ralph W. George, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application January 31, 1940, Serial No. 316,611
12 Claims. (Cl. 171—95)



1. In combination, a push-pull amplifier including a pair of thermionic discharge tubes, each having an anode, a grid and a cathode, circuits connecting each of said anode, grid and cathode to a point of zero reference potential, an input circuit coupled to said grids and said point of reference potential, an output choke in the cathode circuit of said tubes, means for rectifying impulses appearing across said choke, means for storing said rectified impulses and means for measuring the charge due to said stored impulses, said last means being characterized by an extremely high input resistance whereby peak values of said charge are unaffected.

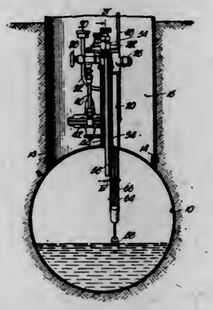
2,323,763

LIQUEFIED GAS STORAGE AND DISPENSING APPARATUS

John T. Gregory, Little Rock, Ark.

Application May 31, 1941, Serial No. 396,092
2 Claims. (Cl. 62—1)

1. In a liquefied gas storage and dispensing apparatus, a storage tank; a pair of stand pipes extending upwardly from and in communication with the tank; filling appliances on one of the stand pipes; a vapor equalizing valve and an outlet valve on the other stand pipe; and a pressure regulator, having connection with the outlet valve, disposed in a horizontal position near the top of the tank at the base of said stand pipes, said vapor equalizing valve having a dip tube in connection therewith extending downwardly through the second mentioned stand pipe to a point within the tank on the maximum level of the liquefied gas therein, the said outlet valve being in communication with the last mentioned stand pipe to withdraw evolved gas from the tank through said stand pipe around the dip tube.

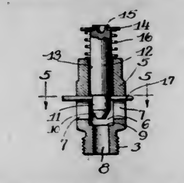


2,323,764

AUTOMATIC DRAIN VALVE

Eric Gustafsson and William L. Wilmes, Chicago, Ill., assignors to Binks Manufacturing Company, Chicago, Ill., a corporation of Delaware

Application May 8, 1942, Serial No. 442,152
5 Claims. (Cl. 137—34.1)



1. An automatic drain valve connected in the lower part of a collecting chamber in which liquid material accumulates, comprising a valve chamber having an outlet leading to the exterior of the collecting chamber, and an inlet port provided at an intermediate part of the side of the valve chamber laterally of said valve chamber and communicating with the interior of the collecting chamber, an upwardly extending valve body above the valve chamber and having a passage, a valve movable in the valve chamber and having a shank slidable in said passage and extending above and exteriorly of said valve body to be exposed to the pressure in said chamber, and a spring on the upper end of said valve body exteriorly thereof and pressing upwardly against an upper portion of said shank to normally urge the shank and valve upwardly.

2,323,765

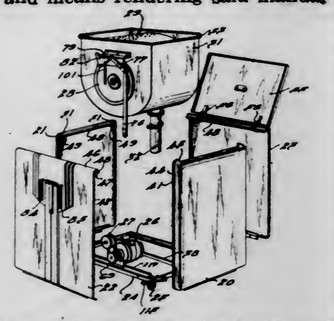
WASHING MACHINE

Alfred H. Haberstump, Detroit, Mich., assignor to The Murray Corporation of America, Detroit, Mich., a corporation of Delaware

Application May 19, 1939, Serial No. 274,478
5 Claims. (Cl. 68—13)

1. A washing machine including, in combination, a tub, a drum rotatably mounted in said tub, a motor, variable speed mechanism interconnecting the motor and drum, a drain valve on said tub, manual means for operating said valve, a handle for directly operating said change speed

mechanism to vary the speed of rotation of said drum, and means rendering said manual means



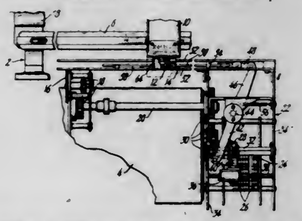
ineffective when the valve is closed by moving the handle to closed position.

2,323,766

ACCOUNTING MACHINE

Irvin G. Hammer, Washington, D. C., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware

Application June 29, 1939, Serial No. 281,780
4 Claims. (Cl. 235—59)



1. In an accounting machine having a column register and a cross computing register, a pick-up mechanism for relatively shifting the accumulator mechanism and the actuator mechanism of the cross computing register to correspond with the relative shifting of the accumulator mechanism and the actuator mechanism of the column register, comprising a support fixed to said column register and having a series of threaded openings, a shift pick-up engaging member having a slot formed therein, a screw for engaging in said slot and one of said threaded openings to secure the engaging member to the column register, a separate locating device for said engaging member mounted on the register and coacting means on the said locating device and the engaging member for positioning the engaging member in different locations on the register corresponding to different denominations.

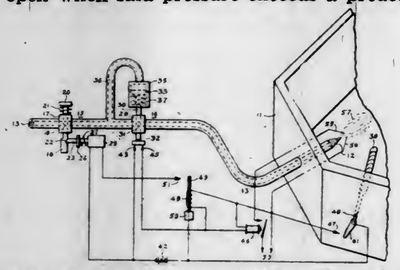
2,323,767

AUTOMATIC IGNITION AND GAS SHUTOFF MECHANISM

John Hays Hammond, Jr., Gloucester, Mass.

Application March 19, 1941, Serial No. 384,065
1 Claim. (Cl. 158—28)

A system of the class described comprising a fluid fuel burner, a fuel supply pipe supplying fuel thereto for combustion, ignition means for said burner including an energizing circuit, a thermostatic switch exposed to the heat of the burner and connected to close said energizing circuit when said burner is cold, a normally open valve in said fuel supply pipe, electro-magnetic trip means to close said valve and a delay action relay connected to be energized with said ignition means and to actuate said trip means after a predetermined interval, said thermostatic switch being connected to de-energize said delay action relay and said energizing circuit when the burner becomes hot, a pressure controlled valve in said fuel supply pipe between said first valve and said burner actuated by fuel pressure to close in response to failure of said pressure and to open when said pressure exceeds a predetermined value, means associated with said last valve to open the energizing circuit for said ignition means and the circuit to said delay action relay when said last valve is closed and to close said circuits when said last valve is open, whereby the ignition means is automatically rendered operative whenever the flame is extinguished with the fuel supply open, the fuel supply is automatically cut off if the burner fails to ignite, and the ignition means is again rendered operative when the first valve is reopened.

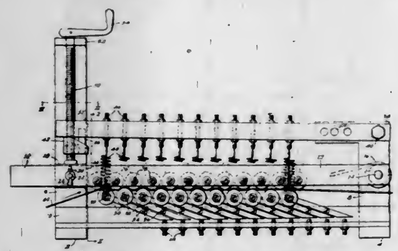


2,323,768

STRIP STRAIGHTENER

Clinton R. Hanna, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application October 23, 1941, Serial No. 416,183
4 Claims. (Cl. 153—54)



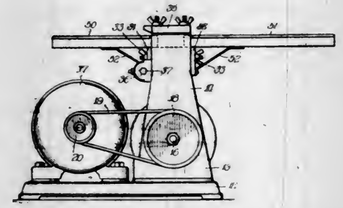
1. In a strip straightener, a first group of rollers, a support member, means mounting said first group of rollers in a row on said support member, a second group of rollers disposed substantially parallel with the first group of rollers and in staggered relation with the rollers of the first group, means biasing the rollers of the second group toward a position in engagement each with two adjacent rollers of the first group, stop means for limiting the movement of the second group of rollers in the direction in which they are biased, a pivotal support for one end of said support member, means biasing the support member for rotation about its pivotal support in the direction away from the second group of rollers, and releasable latch means for securing the support member in normal position with the first and second groups of rollers in cooperative relation.

2,323,769

MEAT TENDERING MACHINE

John Hansen, Bettendorf, Iowa, assignor to U. S. Slicing Machine Company, La Porte, Ind., a corporation of Indiana

Application June 5, 1939, Serial No. 277,471
24 Claims. (Cl. 17—25)



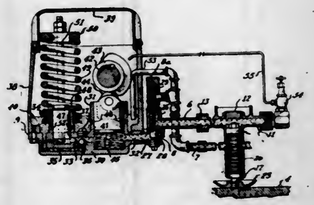
1. A substance tenderizing machine comprising a stationary plate member forming a substance support, said plate member being provided with a plurality of openings arranged transversely of the substance support, a plurality of tenderizing tools arranged transversely of the substance support and adapted to pass through said openings in the substance support to pierce said substance, means for imparting a reciprocating movement to said tools whereby the tools will penetrate the substance to break down the fibres thereof to tenderize the same, and means to impart a lateral movement to said tools to feed the substance through the machine and along said stationary supporting plate member.

2,323,770

HOLD-DOWN MEANS FOR SHEARS AND THE LIKE

Merrill W. Hazelton, Cincinnati, Ohio, assignor to The Cincinnati Shaper Company, Cincinnati, Ohio, a corporation of Ohio

Application November 3, 1942, Serial No. 464,349
12 Claims. (Cl. 164—52)



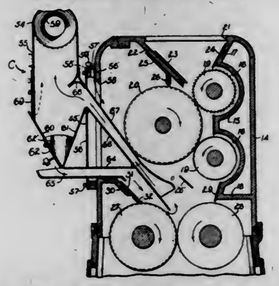
7. In a hold-down mechanism, a pressure device having a base configured to provide a pressure cylinder and a relief valve cylinder, a passageway connecting said cylinders and a pressure line, and a check valved feed passageway, a spring actuated relief valve plunger in said relief valve cylinder, a power actuated plunger in said pressure cylinder, means above said base for holding fluid to provide a reservoir, an hydraulic cylinder, a pressure connection between said cylinder and the first mentioned passageway in said base, and a leakage connection between said cylinder and said reservoir, and a by-pass valve connecting said pressure line and said leakage line and having a plunger automatically acting to disconnect said pressure line and said leakage line upon the application of pressure, and to open the one line into the other immediately upon the cessation of pressure.

2,323,771

METHOD OF AND APPARATUS FOR TREATING COFFEE

Albert J. Hazle, Jr., Chicago, Ill., assignor to B. F. Gump Co., Chicago, Ill., a corporation of Illinois

Application December 24, 1938, Serial No. 247,600
6 Claims. (Cl. 83—18)



1. In a coffee mill including a casing, means in said casing for cracking coffee beans, means defining an air inlet channel for conducting air from the exterior of the casing into the stream of cracked coffee and chaff contained therein for removing the chaff and any coffee particles carried along with the chaff, means defining an air outlet channel for conducting the air together with the removed chaff and any coffee particles contained therein to the exterior of the casing, a chamber outside the casing connected to said air outlet for separating the chaff and any coffee particles contained therein, and means for returning the separated coffee particles to the air inlet channel for return with the inlet air to the stream of cracked coffee.

2,323,772

CONSTRUCTION OF CONCRETE PILES OR THE LIKE

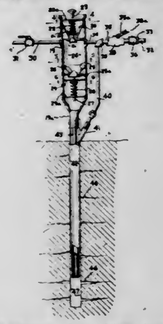
Andrew Hood, Carmarthenshire, Wales

Application October 1, 1942, Serial No. 460,436
In Great Britain August 28, 1941
7 Claims. (Cl. 61—57)



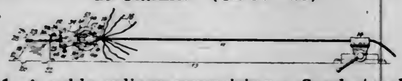
4. A piling tube adapted to be closed at the foot thereof with a removable closure member and driven into the ground by percussion means for the formation of an in situ concrete pile comprising a metal piling tube provided with two diametrically opposite inclined hollow ribs running round the outside of the tube, at least one of said ribs extending along substantially the whole length thereof.

2,323,773
APPARATUS FOR THE TREATMENT OF SOIL
Charles F. Irish, Bratenahl, Ohio
Application November 17, 1941, Serial No. 419,441
5 Claims. (Cl. 47—48)



1. In an apparatus for the treatment of soil, a tool comprising an inner tubular section provided with a passageway having an outlet, and an outer downwardly tapered tubular section surrounding and spaced from the inner tubular section and providing, with said inner section, an annular passageway having an outlet, said outer tubular section adapted to seal the upper portion of the soil into which it is inserted, a pipe communicating with the passageway formed within the inner tubular section, a pipe connected with the said annular passageway, means for supplying fluid under pressure through one of said pipes to the passageway with which it communicates, means for supplying a mixture of fluid under pressure and soil rectifying material through the pipe which communicates with the other passageway, and valve mechanism controlling the flow of fluid and the mixture of fluid with soil rectifying material through the respective pipes.

2,323,774
CABLE SPLICER
Isidore Jacoel, Buffalo, N. Y.
Application November 14, 1942, Serial No. 465,561
15 Claims. (Cl. 57—23)

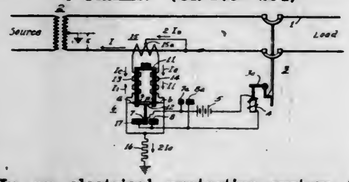


1. A cable splicer comprising a fixed standard adapted to be mounted on a stationary support and provided with a horizontal tubular bearing, and means for grasping the cable to be spliced including a horizontal shaft adapted to rotate in said bearing and having means for gripping said cable and means whereby said shaft is held against lengthwise movement in said bearing but permitted to turn therein, including a fixed collar permanently connected with one end of said shaft and engaging one end of said bearing, a detachable collar arranged on the opposite end of said shaft and engaging the opposite end of said bearing, and a removable fastening pin passing through the detachable collar and shaft.

2,323,775
VULCANIZATION OF RUBBER
Paul C. Jones and Roger A. Mathes, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application February 8, 1939, Serial No. 255,356
6 Claims. (Cl. 260—787)

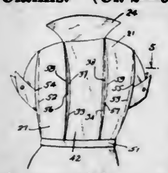
1. The process which comprises vulcanizing a rubber in the presence of a member of the class consisting of monocarboxylic acids and their metallic salts and a compound obtained by reacting approximately equimolar proportions of a 2-mercaptothiazoline and formaldehyde.

2,323,776
ELECTRICAL PROTECTIVE SYSTEM
Floyd D. Johnson, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 11, 1941, Serial No. 388,080
9 Claims. (Cl. 175—294)



1. In an electrical protective system for an electrical circuit, means responsive to the relationship of a first quantity in said electrical circuit to a second quantity therein, comprising circuit control means, a pair of thermoresponsive operating means, means differentially responsive to said operating means for actuating said circuit control means, and selective energizing means dependent on the relationship of said quantities for selectively energizing either of said operating means in accordance with the sum of said quantities, said energizing means being effective for energizing the remaining operating means in accordance with the difference of said quantities.

2,323,777
GARMENT CONSTRUCTION
Abraham Katz, New York, N. Y.
Application February 12, 1941, Serial No. 378,593
4 Claims. (Cl. 2—93)

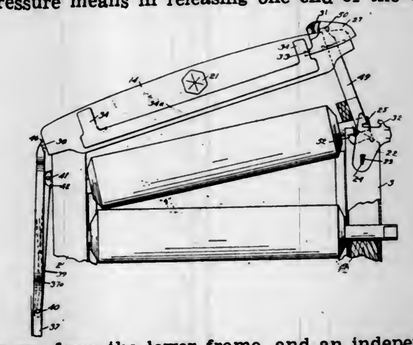


1. A garment comprising: a garment back having a first back member and a second back member; first and second sleeve members; the first back member being connected to the upper part of the first sleeve member forming a first sleeve juncture, and extending partially across the garment back toward the second sleeve member; the second back member being connected to the upper part of the second member, forming a second sleeve juncture, and extending partially across the garment back toward the first sleeve member; and an elastic element interconnecting the free edge of the second back member and the first sleeve juncture.

2,323,778
WRINGER
Walter L. Kauffman, II, Erie, Pa., assignor to Lovell Manufacturing Company, Erie, Pa., a corporation of Pennsylvania
Application March 17, 1937, Serial No. 131,327
10 Claims. (Cl. 68—263)

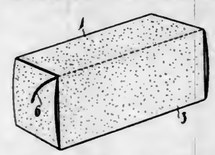
1. A wringer mechanism comprising a lower

frame, a movable top frame, rolls in the lower frame, pressure means for the rolls, and instrumentalities holding the top frame on the lower frame against the pressure of said pressure means to establish wringing pressure between the rolls and render said pressure means available in moving the top frame away from the lower frame when released at either end thereof, including an independently releasable latching device for normally holding one end of the top frame to the lower frame, said releasable latching device having means arranged to cooperate with said pressure means in releasing one end of the top



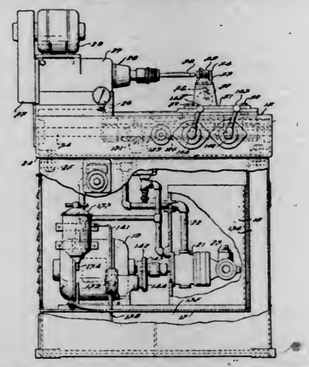
frame from the lower frame, and an independently releasable latching device having means to cooperate with said pressure means in releasing the opposite end of the top frame from the lower frame, said last mentioned releasing device including means and connections between the same and the top and lower frames for resetting the top frame to normal position on the lower frame with restoration of pressure from said pressure means with respect to both of the releasable latching devices, said releasable devices being formed and correlated whereby either of the latching devices may be actuated in advance of the other.

2,323,779
CARTON
Leo M. Kennedy, Hamilton, Ontario, Canada, assignor to Marathon Paper Mills Company, a corporation of Wisconsin
Application November 24, 1941, Serial No. 420,319
1 Claim. (Cl. 229—51)



An integral blank for a carton comprising a plurality of side walls hingedly connected together along spaced fold lines, and a flexible tear cord extending longitudinally along and in coinciding relation with one of the fold lines throughout the length thereof and projecting beyond one end thereof, said tear cord comprising a plurality of interwoven threads arranged to have only one of said threads stitched and passed through a series of perforations extending along said fold line and positioned at the outer face of the blank, and an interwoven mass of a plurality of threads arranged in a continuous line along said fold line at the inner face of the blank to form a comparatively thick continuous cord, said tear cord being adapted to remain firmly in place during folding and filling of the carton and providing means for positive and complete tearing of the carton along the whole length of the coinciding fold line.

2,323,780
HONING MACHINE
John E. Kline, Grosse Pointe Farms, Mich., assignor to Micromatic Hone Corporation, Detroit, Mich., a corporation of Michigan
Application November 27, 1939, Serial No. 306,209
5 Claims. (Cl. 51—92)



1. A machine for producing a honing operation, including, in combination, a base, a spindle supported on said base for rotational movement, means for driving said spindle, a honing tool disposed on said spindle for rotational movement about a horizontal axis, means in said spindle for expanding and contracting the abrading elements of said tool, a table on said base for supporting a workpiece, means for advancing said table in a horizontal plane and for reciprocating the workpiece at a predetermined rate of speed over the honing tool, a slide on said table on which the workpiece is supported, and means for rapidly reciprocating said slide relative to the advancement of said table for superimposing a vibratory movement to the workpiece during its movement in advancement.

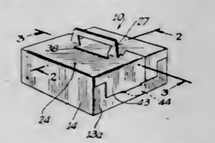
2,323,781
PREPARATION OF ALLYL ALCOHOL AND ITS HOMOLOGUES
Franz Köhler, Darmstadt, Germany, assignor to Rohm & Haas Company, Philadelphia, Pa.
No Drawing. Application January 12, 1940, Serial No. 313,559. In Germany December 30, 1938
4 Claims. (Cl. 260—640)

1. The process of preparing allyl alcohol and its homologues from the corresponding chlorides which comprises saponifying said chlorides with an alkaline saponifying agent selected from the group consisting of alkali metal hydroxides and carbonates while in the presence of a complex compound formed from a metal from the group consisting of zinc, cobalt, and copper and said alkaline saponifying agent.

2,323,782
COLLAPSIBLE BOX
Murray Kretchmer, New York, N. Y.
Application September 14, 1939, Serial No. 294,845
7 Claims. (Cl. 229—36)

1. A box comprising a bottom section, side sections extending upwardly from the sides of the

bottom section, and formed with slits, end sections extending upwardly from the ends of said bottom section, cover sections extending from the end sections, said cover sections being provided with mutually contacting, upstanding handles, and flaps at the ends of said cover sections having portions engaging in the slits of the side sections, one of said handles being formed with a finger opening, the other of said handles being formed with a finger opening registering with the first opening, one cover section having a tab projecting through the opening in the handle carried by the second cover section and over-



lying said second cover section, said tab having means to engage edge portions of the handle carried by the second cover section at the ends of the opening therein, to interlock the handles together, said second cover section having portions overlying the first cover section and engaging end edges of the handle carried by the first cover section to interlock said handles, and said first cover section being formed with slits, and said second cover section being formed with portions engaging within said slits.

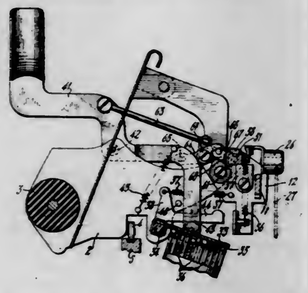
2,323,783

SHUTTLE MECHANISM FOR PAPER CARRIAGES

Walter A. Anderson, Bridgeport, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware

Application December 30, 1941, Serial No. 424,973

3 Claims. (Cl. 197—66)



1. In a machine of the class described, having a travelling carriage, return mechanism therefor, means for tabulating the carriage from column to column including a control plate pivoted on the carriage, a manipulative member for tilting the control plate to ineffective position, a bar pivoted in the carriage, a plate detachably secured on the bar, a plurality of pairs of dogs and rollers on the plate adapted to cooperate selectively with the return mechanism to effect shuttle movement of the carriage between different pairs of columns located on different parts of a work form, and means operable by the manipulative member to rock the dogs and rollers out of cooperative position with the return mechanism to permit rapid and selective adjustment of the carriage for shuttle movement between one or another of said pairs of columns.

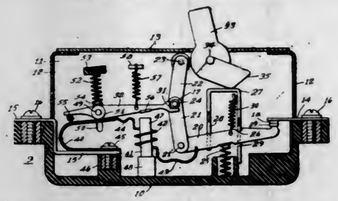
2,323,784

CIRCUIT BREAKER

Harold G. Baxter, Wilkinsburg, and Oliver S. Jennings, Pittsburgh, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application February 26, 1941, Serial No. 380,644

18 Claims. (Cl. 200—88)



1. In a circuit breaker, the combination of relatively movable contacts, operating mechanism for the contacts, a releasable member movable to cause automatic opening of the contacts, an electromagnet having a pivoted unitary armature operable to release said member, and a thermally responsive element cooperating with the armature pivot to yieldingly restrain said pivot and operable to cause lateral movement of the armature pivot to release the releasable member.

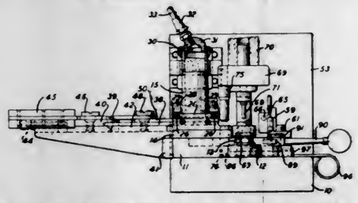
2,323,785

PELLET FORMING APPARATUS

Earl E. Beeton, Elizabeth, and Hobart T. Campbell, Belleville, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application May 31, 1941, Serial No. 396,108

2 Claims. (Cl. 18—1)



1. A pellet forming apparatus comprising a forming die, means to supply a measured quantity of material to the die, a reciprocable element having an anvil portion and an open portion to respectively close and open the die, a punch cooperating with the die and the anvil portion to form a pellet of the quantity of material and to eject the pellet from the die when the open portion of the element is in registration therewith, and means to cause reciprocation of the element to alternately position the anvil portion and open portion in registration with the die.

2,323,786

METHOD AND APPARATUS FOR ACCELERATING PARAMAGNETIC PARTICLES

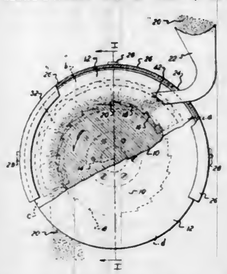
Eugene L. Beisel, Jackson, Mich.

Application March 27, 1941, Serial No. 385,476

7 Claims. (Cl. 51—9)

1. An abrading device for accelerating paramagnetic particles through the combined action of magnetic and centrifugal forces comprising a body having a circumferential surface adapted to be rotated about an axis at relatively high speed, means for embracing said surface of said body in

a magnetic field, means for directing paramagnetic particles against said surface in said field, whereby said particles are coupled to said body and move therewith as a unit, the rotation of



said body carrying said particles out of said magnetic field, and means for rotating said body, whereby said particles will be released to the action of centrifugal forces, and freely thrown against work to be abraded.

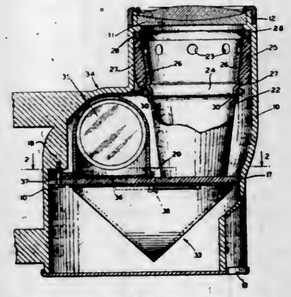
2,323,787

REFLECTING LENS MOUNT

Ralph E. Bitner, New York, N. Y., assignor to Remington Rand Inc., Buffalo, N. Y., a corporation of Delaware

Application December 13, 1941, Serial No. 422,842

9 Claims. (Cl. 88—33)



1. In a reflecting telescope of the class described, a supporting housing, an enclosure within said housing comprising two cylindrical tubes and a quadruple reflecting assembly, an objective lens adjacent the open end of one of said tubes and a field lens of an eyepiece closing the open end of the second of said tubes, said first tube having one or more perforations in the walls thereof, a moisture-pervious fabric covering said perforations, and an anhydrous moisture absorbing material held in contact with said pervious fabric by a flexible non-pervious fabric.

2,323,788

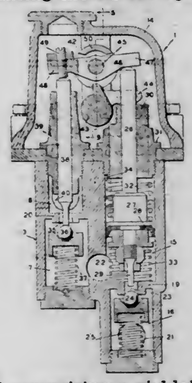
CONTROL VALVE MECHANISM

Werner F. Boldt, Clayton, Mo., assignor to Wagner Electric Corporation, St. Louis, Mo., a corporation of Delaware

Application April 20, 1942, Serial No. 439,631

11 Claims. (Cl. 137—139)

1. In a valve means for controlling the flow of fluid under pressure from a source of fluid pressure to a device to be actuated, said valve means comprising an inlet valve element, means including a pressure responsive means tending to cause the closing of said valve element by the fluid pressure admitted when the valve element is open, actuating means for opening said valve



element and comprising a yieldable member, and other actuating means for opening said valve element independently of the yieldable member.

2,323,789

LUBRICANT COMPOSITION

Rolston L. Bond, Cranford, N. J., assignor to Tide Water Associated Oil Company, Bayonne, N. J., a corporation of Delaware

No Drawing. Application September 27, 1940, Serial No. 358,662

4 Claims. (Cl. 252—48)

1. Viscous mineral oil composition containing minor proportions of an oil soluble, water insoluble, sufficiently non-volatile alkyl amine ester of sulfurous acid active to enhance the lubricating value of said oil.

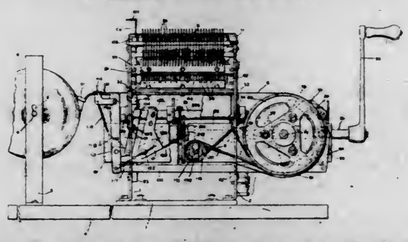
2,323,790

PUNCHING MECHANISM

Karl J. Braun, North Merrick, Long Island, N. Y., assignor to Remington Rand Inc., Buffalo, N. Y., a corporation of Delaware

Application May 7, 1942, Serial No. 442,053

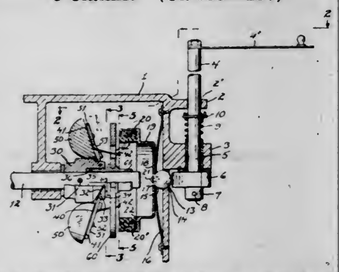
5 Claims. (Cl. 164—111)



1. In a machine of the class described, the combination of a plurality of manually settable setting slides, a plurality of punches, means operable by said setting slides for controlling said punches, means operable to move said punches and said punch controlling means to effect code punching upon a tape, means for maintaining a tension on said tape, means for punching feed holes in said tape concomitantly with the punching of code holes therein, means cooperating with said feed holes for feeding said tape to and from said punches, means for winding said tape on a spool after each punching operation, means for holding said setting slides in the various positions to which they may be set, means for disabling

said holding means to permit retraction of said slides, and means operable by said tape winding means for locking said last mentioned means in active position.

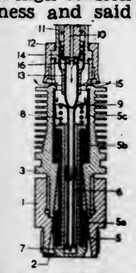
2,323,791
CENTRIFUGAL GOVERNOR
Blake W. Carrington, Elyria, Ohio, assignor to The General Industries Company, Elyria, Ohio, a corporation of Ohio
Application April 30, 1942, Serial No. 441,241
6 Claims. (Cl. 188—187)



1. In a governor mechanism, in combination a driven shaft, centrifugal means operable by the rotation of said shaft, an annular floating disc loosely telescoped over the shaft, said centrifugal means comprising a tubular body telescoped over and secured to the driven shaft, said disc and said body being in relatively longitudinally axially aligned spaced relation, said body being formed with a pair of slanting faces intersecting on a diameter of the body facing said annular disc, a leaf spring clamped upon the slanting faces of said body by clamping means, said leaf spring being telescoped over the apex of said faces facing said annular disc and the shaft telescoped through said body, a pair of governor balls secured to the outwardly extending arms of said leaf spring, link means secured to said clamping means adapted to engage said annular disc whereby said disc is driven by said link means responsive to axial thrust of said centrifugal means, said disc being rotatable on the shaft and movable axially thereto.

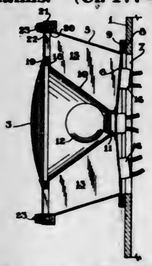
2,323,792
SPARK PLUG
Alfred G. Cattaneo, Berkeley, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Original application May 17, 1940, Serial No. 337,416. Divided and this application March 23, 1942, Serial No. 435,791
6 Claims. (Cl. 123—169)

1. A spark plug suitable for use in an ignition system for internal combustion engines wherein a pressurized harness is utilized to inhibit high tension cable breakdown tendencies comprising a body member including a grounded electrode, a hollow central electrode closed toward the firing end, insulating means between said body member and said central electrode, conduit means between said central electrode and said pressurized harness whereby a gaseous coolant medium under pressure may be passed from said pressurized harness through said central electrode, contact means formed of a conductive material between said conduit means and said central electrode, said conduit means being formed of conductive material whereby a circuit is established between a high tension cable within said pressurized harness and said central electrode



and an atmospheric vent in said body member in flow communication with said central electrode.

2,323,793
TRAFFIC SIGNALING MECHANISM
Charles W. Clark, Orient, Ohio
Application April 16, 1941, Serial No. 388,840
3 Claims. (Cl. 177—327)

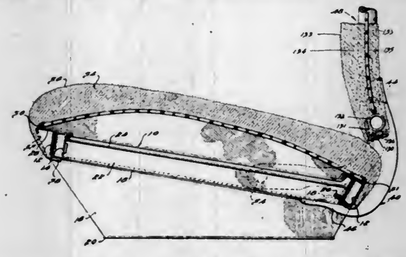


1. Attachment means for illuminated street intersection traffic signaling apparatus comprising a base ring adapted for attachment to a conventional traffic signal casing, housing means secured to said ring, said housing having a rear wall and an annular side wall projecting forwardly therefrom, a substantially conical reflector projecting forwardly from the central portion of said rear wall, the wall of said reflector being spaced from said annular side wall, circumferentially spaced partition means extending between said conical reflector and said annular wall to provide a plurality of chambers grouped around a central chamber formed by said reflector, lamp-receiving socket means carried by said rear wall in each of said chambers, and lens means removably supported at the forward ends of said reflector and side wall to close said chambers.

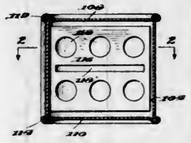
2,323,794
SEAT CONSTRUCTION
Noble C. Clark, Ferndale, Mich., assignor to The Murray Corporation of America, Detroit, Mich., a corporation of Delaware
Original application March 31, 1938, Serial No. 199,230. Divided and this application July 31, 1940, Serial No. 349,030
2 Claims. (Cl. 155—179)

2. A seat back construction including, in combination, a metal member in the form of an inverted U, a metal cross-member connected to said first member in spaced and substantially parallel relationship to the base of said U-shaped member, similar elongated sheet metal members of generally channel shape arranged facing each other and secured to the inner edge of said cross-member and the inner edge of the base of the

U-shaped member respectively, both of said sheet metal members being crimped to form wire engaging recesses, elongated spring elements extending between said sheet metal members forming a spring surface, a tacking strip secured to the lower edge of said cross-member, and a cushioning member formed with a pocket therein which slides over and receives in said pocket the U-shaped member, the edges of said cushioning member adjacent the opening into the pocket overlying said cross-member and secured to said tacking strip.



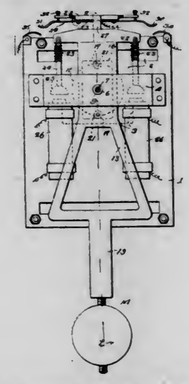
2,323,795
CONTAINER
David X. Clarin, New York, N. Y.
Application April 30, 1941, Serial No. 391,199
3 Claims. (Cl. 259—72)



1. In a can or the like container having a substantially flat top and bottom and cylindrical sides, a loose, substantially flat rectangular baffle formed of perforated sheet material, the height of said baffle being substantially the distance between the top and bottom of the inside of the can and the width extending substantially diametrically of the inside of the can whereby, when said can is filled with fluent material, sealed, and rotated, said baffle will rotate relative to said can.

2,323,796
ELECTRIC CLOCK
Frank B. Cole, Kokomo, Ind.
Application October 13, 1941, Serial No. 414,892
2 Claims. (Cl. 58—30)

1. An electric timeplace including spaced electromagnets fixedly mounted, a pivot device fixedly mounted at a point between and equidistant from the electromagnets, a pendulum supported for swinging movement upon the pivot device and having a portion extended thereabove, a cross-head fixed upon and movable with said upwardly extended portion of the pendulum and extended in opposite directions therefrom, coiled springs suspended from the respective end portions of the cross-head at points equidistant from the pivot member, armatures for the respective electromagnets, rods extended from and fixedly connected to the respective armatures and engaged and supported by the respective springs, a fixed contact at one side of the pendulum electrically connected to the magnet at the opposite side of said pendulum, a fixed contact at the other side of the pendulum electrically connected to the other magnet, laterally spaced movable contacts carried by the pendulum and shiftable thereby for engagement with the respective fixed contacts, and an electric circuit having one side connected to the movable contact and the other



side connected through the magnets to the respective fixed contacts, said contacts cooperating, during the oscillation of the pendulum for deenergizing one of the magnets and thereafter energizing the other magnet during each movement of the pendulum in one direction.

2,323,797
LUBRICANT
Elmer William Cook, New York, N. Y., assignor to Tide Water Associated Oil Company, New York, N. Y., a corporation of Delaware
No Drawing. Application November 16, 1940, Serial No. 365,945
13 Claims. (Cl. 252—46)

1. An extreme pressure lubricant composition comprising a lubricating oil and a minor proportion of a dixanthyl dialkyl thioether.

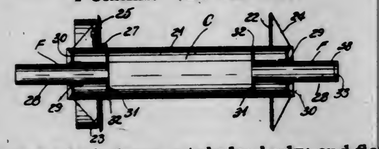
2,323,798
CONTROL OF INDUCTION PERIOD IN BLUEPRINT PAPER
Clyde A. Crowley, Chicago, and George H. Goodyear, Wilmette, Ill., assignors to The Huey Co., Chicago, Ill., a corporation of Illinois
No Drawing. Application June 14, 1941, Serial No. 398,112
8 Claims. (Cl. 95—6)

1. A sensitizer for blueprint paper and the like comprising a light-sensitive ferric complex, a ferrocyanide salt in amounts such that substantially all of the pigment formed results from the ferrocyanide present in the sensitizer, solubilizing salts, and an oxidizing agent characterized by a peroxy group in a quantity sufficient to function as a light-reaction-control agent to establish a predetermined induction period, said quantity of oxidizing agent, when calculated to an equivalent amount of potassium persulphate, not exceeding a few percent by weight of the amount of ferrocyanide salt present, calculated as potassium ferrocyanide, and said solubilizing salts being present in amounts materially greater than the amount of the oxidizing agent when calculated to an equivalent amount of potassium persulphate.

2,323,799
CONTROL OF INDUCTION PERIOD IN BLUE-PRINT PAPER
Clyde A. Crowley, Chicago, and George H. Goodyear, Wilmette, Ill., assignors to The Huey Co., Chicago, Ill., a corporation of Illinois
No Drawing. Original application June 14, 1941, Serial No. 398,112. Divided and this application December 1, 1941, Serial No. 421,242
8 Claims. (Cl. 95—6)

1. A sensitizer for blue print paper and the like comprising a light-sensitive ferric complex, a ferrocyanide salt in amounts such that substantially all of the pigment formed results from the ferrocyanide present in the sensitizer, solubilizing salts, and a persulphate salt in a quantity sufficient to function as a light-reaction-control agent to establish a predetermined induction period, said quantity of persulphate salt, when calculated to an equivalent amount of potassium persulphate, not exceeding a few percent by weight of the amount of ferrocyanide salt present, calculated as potassium ferrocyanide, and said solubilizing salts being present in amounts materially greater than the amount of the persulphate salt when calculated to an equivalent amount of potassium persulphate.

2,323,800
WINCH CONSTRUCTION
Charles B. Curtiss, Bay City, Mich.
Application July 11, 1940, Serial No. 344,831
4 Claims. (Cl. 242—117)

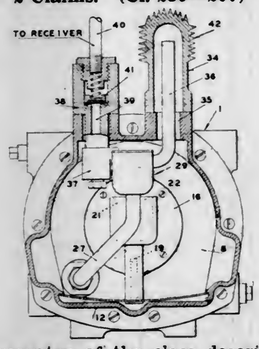


3. In a winch drum, a tubular body; end flanges welded on the exterior of said body adjacent to the ends of the latter; reinforcing webs welded on said flanges and on said body and extending in the direction of the longitudinal length thereof between the ends of said body and the flanges; shaft-receiving tubular extensions extending into the ends of said body and arranged axially of the latter; and spaced disks welded on said extensions and on the interior of said body for rigidly fixing the extensions to the body and for reinforcing the latter, said body having openings in alignment with the disks for the admission of welding flux for adherence to the body and the disks.

2,323,801
FOOTWEAR AND THE MANUFACTURE THEREOF
Reginald Claude Davies, Walton, Liverpool, England, assignor to Dunlop Tire and Rubber Corporation, Buffalo, N. Y., a corporation of New York
No Drawing. Application April 3, 1942, Serial No. 437,525. In Great Britain February 17, 1941
6 Claims. (Cl. 12—146)

1. A method of making an article having a lower layer resistant to permanent deformation and an upper layer less resistant to permanent deformation but capable of taking a permanent set which comprises incorporating in a vulcanisable composition for said lower layer an accelerator effective at a low temperature, incorporating in a vulcanisable composition for said upper layer an accelerator effective at a relatively higher temperature and vulcanising said compositions between said temperatures.

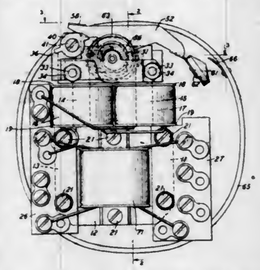
2,323,802
LUBRICATING AND OIL SEPARATING SYSTEM FOR COMPRESSORS
Burns Dick, Ferguson, and Fred H. Stroup, Kirkwood, Mo., assignors to Wagner Electric Corporation, St. Louis, Mo., a corporation of Delaware
Application June 22, 1939, Serial No. 280,492
2 Claims. (Cl. 230—207)



1. In apparatus of the class described, an oil separating means for removing oil in the form of both small particles and a fine mist from the discharged compressed fluid of a fluid compressor which has associated therewith an oil reservoir from which oil is fed to the compressor and through which the compressed discharged fluid passes to an outlet in the reservoir in order to place oil under pressure, an oil separator mounted in the oil reservoir above the oil level, a pipe connecting the compressor discharge port to the oil separator and through which all of the compressed fluid passes, said separator being so formed as to remove the small particles of oil from the compressed fluid so that said oil can return to the reservoir by causing the fluid to impinge successively upon a plurality of surfaces, means forming a cooling chamber above the reservoir and connected to said reservoir by a passage, a tube having one end directly connected to the outlet of the reservoir and its other end extending into the cooling chamber through the passage and to a point adjacent the top of the chamber whereby fluid will pass through the passage and along the walls of the cooling chamber before entering the tube to thus cause the oil in the form of fine mist to be condensed on said walls and return to the reservoir through the passage.

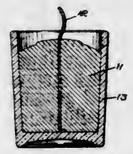
2,323,803
SIGNALING DEVICE
Emil Dickten, Jr., Totowa, N. J., and Henry C. Harrison, Port Washington, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 22, 1940, Serial No. 362,204
7 Claims. (Cl. 177—7)

7. The combination in a telephone ringer comprising a coil bearing stator having a pair of oppositely disposed stationary pole faces and a permanent magnet rotor mounted for oscillation between the pole faces of said stator when the stator coil is energized, of a gong, means for supporting said gong on said stator, a clapper arm fixed at one point to said oscillatable rotor for oscillation therewith and extending in opposite directions from its point of association with said rotor, one of the clapper arm extensions supporting a striker for engaging said gong when said



rotor is actuated, and means for limiting the stroke of said clapper arm comprising a cam adjustably mounted in substantial alignment with the other of the clapper arm extensions.

2,323,804
CITRONELLA CANDLE
Philip J. Driscoll, Newton, Mass., assignor to Clifford D. Stewart, Boston, Mass.
Application September 20, 1940, Serial No. 357,508
1 Claim. (Cl. 167—41)



A candle of the character described comprising a body portion consisting of a mixture of refined paraffin wax melting at approximately 132° F. and a heavy, viscous citronella oil, in proportions equivalent to a compound containing approximately one hundred pounds of paraffin and twenty ounces of oil, and a wick extending through the center of the candle, so that the paraffin is melted by the ignited wick to diffuse and disperse the vapors of the citronella oil.

2,323,805
BEEHIVE COVER
Michael Dzula, Albuquerque, N. Mex., assignor of one-half to Leo F. Cegelsky, Albuquerque, N. Mex.
Application September 22, 1941, Serial No. 411,908
2 Claims. (Cl. 6—1)

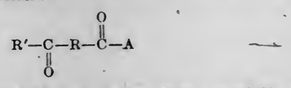


1. In a beehive a cover structure comprising a frame provided with a top wall, said top wall provided with elongated parallel spaced risers projecting at their ends beyond the corresponding sides of the frame, said ends of the risers being bevelled, and a cover plate for disposition over the frame and risers, said cover plate being provided with side and end flanges, said end flanges being inclined to snugly rest against the bevelled ends of the risers.

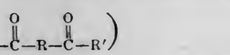
2,323,806
SATURATED ALIPHATIC HIGHER MONOAMINOMONOCARBOXYLIC ACID AMINES AND A METHOD FOR THEIR PREPARATION
Mark Wendell Farlow, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application July 18, 1940, Serial No. 346,144
8 Claims. (Cl. 260—404.5)

1. As a new compound 12-amino-stearamide.

2. A process which comprises reducing at a temperature within the range of 25 to 200° C. the ketone group to an amino group in compounds of the general formula:

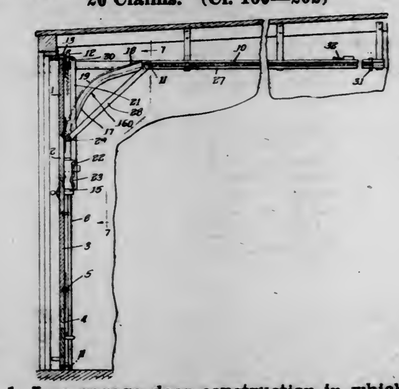


wherein A is selected from the class consisting of —OH, —OR'', —NH_2, —OM, —ONH_4, halogen, and



R is a bivalent open chain organic radical containing at least 4 atoms in the chain said radical being selected from the group consisting of hydrocarbon radicals and heteroatomic radicals containing, in addition to carbon atoms, atoms selected from the group consisting of oxygen, nitrogen, and sulfur, R' is an aliphatic monovalent open chain hydrocarbon radical containing 3 to 12 carbon atoms, R'' is an alkyl group, and M is a metal.

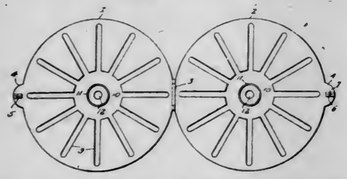
2,323,807
GARAGE DOOR
William D. Ferris, deceased, late of Sterling, Ill., by Birdie D. Ferris, executrix, Sterling, Ill., and Cecil R. Wolf, Sterling, Ill., assignors to Frantz Manufacturing Co., Sterling, Ill., a corporation of Illinois
Original application February 5, 1941, Serial No. 377,498. Divided and this application June 6, 1942, Serial No. 447,335
20 Claims. (Cl. 160—202)



1. In a garage door construction in which the door comprises a plurality of horizontal sections hinged together at their horizontal meeting edges, vertical tracks at the sides of the doorway, overhead tracks disposed horizontally, and intermediate track sections connecting the vertical tracks with the horizontally disposed tracks, the uppermost section of the door being free to swing inwardly from a vertical or closed position in the

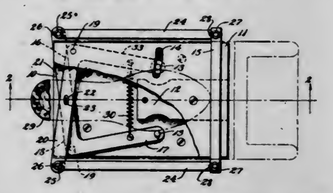
doorway, means on the door engaging said tracks and track sections, links having their upper ends pivoted on the upper edge portion of the uppermost door section, a locking or stud mechanism for the lower ends of said links and stationary means on the sides of the doorway for engaging said studs or locking means to pull the uppermost door section inwardly at the beginning of the operation of the opening movement of the door.

2,323,808
THERMOMETER SHAKER
George A. Flanagan, Oakland, Calif.
Application November 18, 1941, Serial No. 419,660
4 Claims. (Cl. 73—373)



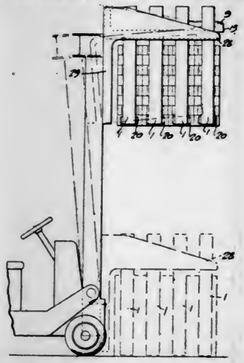
4. In a thermometer shaker for mounting on a rotary spindle to shake down the mercury under the action of centrifugal force, a pair of disk-like clamping members hinged together at one side thereof for swinging into and from opposed clamping relation, a series of radial grooves in each member for seating thermometers therein in radial position the series of one member being complemental to the series of the other member, and means to secure the members together in opposed clamping relation, each of said members having an annular well therein across which the thermometers extend and for accommodating the fingers of the hand to facilitate grasping the thermometers to remove the same when the clamping members are swung from clamping relation.

2,323,809
APPARATUS FOR CENTERING SHOE SOLES AND THE LIKE
John H. Flink, Watertown, Mass., assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application March 2, 1942, Serial No. 432,973
10 Claims. (Cl. 12—40)



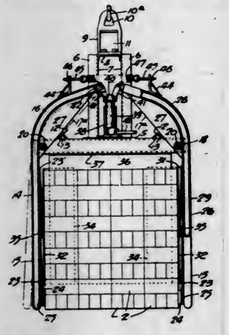
1. Apparatus for locating individual shoe sole members of a series of variedly sized, shaped, or sized and shaped shoe sole members with reference to a supporting member, said apparatus comprising at least one movable locating member for laterally locating the shoe sole member and a second movable locating member for longitudinally locating the shoe sole member, one of said locating members being movable by a boundary surface of the shoe sole member and the other of said locating members being movable by movement of the first locating member, said movable members locating the individual shoe sole members in the same relative position with respect to a given area of the supporting member.

2,323,810
BRICK GRAB
Robert A. Fontaine, Martinsville, Va.
Application August 7, 1941, Serial No. 405,859
19 Claims. (Cl. 214—65.2)



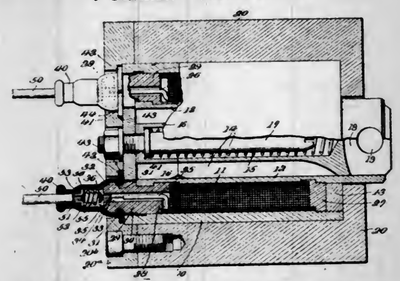
1. A brick grab comprising a supporting frame, a pair of grab arms pivotally mounted on said frame, fluid pressure means for moving said arms into brick engaging position, said arms being automatically movable from brick engaging position upon release of the fluid pressure from said fluid pressure operated means, and means, independent of said fluid pressure operated means and connected with said frame whereby the grab may be lifted and transported from one location to another.

2,323,811
BRICK GRAB
Robert A. Fontaine, Martinsville, Va.
Application January 28, 1942, Serial No. 428,612
12 Claims. (Cl. 294—63)



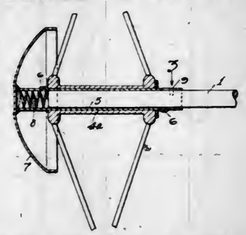
1. In a brick grab, the combination of a frame, a plurality of spaced arms pivotally connected to said frame and fluid pressure actuated means carried by said frame and adapted to move said arms about their pivots; some of said arms being arranged and constructed to exert pressure on a hack of bricks adjacent the bottom thereof while others of said arms are arranged and constructed to exert pressure against the center of said hack.

2,323,812
SEPARABLE ASSEMBLY FOR ELECTRICAL UNITS
Benjamin Norton Foster, Keene, N. H., assignor to Kingsbury Machine Tool Corporation, Keene, N. H., a corporation of New Hampshire
Application April 7, 1942, Serial No. 438,028
7 Claims. (Cl. 174—74)



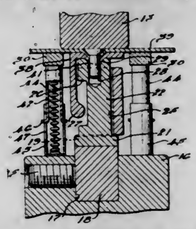
1. A separable terminal assembly for connecting a cable with an electrical unit mounted in a housing, comprising a tower extending through an aperture in the housing and having a peripheral groove within the housing wall, a flexible jacket surrounding and gripping the outer end of the tower and having a rib engaged in the groove, said jacket having a clearance in the aperture less than the depth of the rib and groove whereby to prevent separation when the parts are in assembled condition, said jacket having an aperture for receiving an end of the cable, a conductor element on the tower electrically connected to a conductor of the unit and providing a first abutment, a second conductor element mounted in the jacket and electrically connected to a cable wire and providing a second abutment opposite the first abutment, and a metal compression spring positioned between said abutments for holding the jacket distended and electrically connecting the abutments.

2,323,813
WHEEL MOUNTING
Selim A. Fred, Gardner, Mass., assignor to Heywood-Wakefield Company, Gardner, Mass., a corporation of Massachusetts
Application March 6, 1941, Serial No. 381,963
4 Claims. (Cl. 301—118)



1. In a wheel mounting, a wheel, a sleeve on which the wheel is journalled, an axle on which the sleeve is removably positioned and means for locking the sleeve against rotation on the axle, said locking means including a short projection on the axle adjacent the inner end of the sleeve, said sleeve having a slot adjacent its inner end to receive the projection, with the end of said slot extending toward the inner end of the sleeve and a spring positioned within the outer end of the sleeve for engagement with the end of the axle to retain the projection within the inner end of the slot, and a hub cap permanently secured to the outer end of the sleeve out of contact with the wheel to permit the latter to rotate independently of said hub cap.

2,323,814
DIMPLING AND RIVETING DEVICE
Robert H. Lamb and Richard H. Baker, Detroit, Mich., assignors to The Murray Corporation of America, Detroit, Mich., a corporation of Delaware
Application July 18, 1941, Serial No. 403,040
11 Claims. (Cl. 78—49)



1. A device for dimpling metal comprising a first anvil for engaging the heads of rivets, a second anvil having a plurality of transversely shiftable dimpling dies with apertures in the ends for receiving the rivet heads, the top end of the aperture being chamfered to conform to the slope of the under head of the rivets, and means for relatively moving the anvils toward each other after the rivets have been inserted in holes in the workpiece and into the apertures in the dimpling dies.

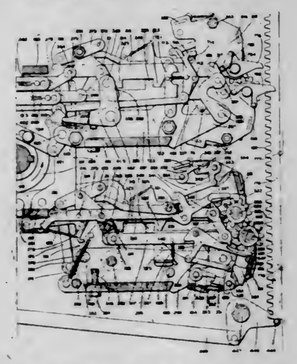
2,323,815
OIL CONTROL PISTON RING
William Charles Landon, Wausau, Wis., assignor to Wausau Motor Parts Co., Wausau, Wis., a corporation of Wisconsin
Application July 3, 1939, Serial No. 282,624
2 Claims. (Cl. 309—45)



1. In a composite piston ring of the class described, a pair of spaced relatively thin side segments, a spacer segment interposed between said side segments formed of a thin circular ribbon of crimped resilient material, the crimping being of such form that the ribbon follows circumferentially an angularly corrugated pattern in which said ribbon passes along parallel to and in contact with the inside face of one of said side segments for a substantial distance to form a land, then bends sharply away from said side segment and passes in a nearly axial direction toward the inside face of the other of said side segments where it again bends sharply so as to pass along parallel to and in contact with the inside face of said other side segment for a substantial distance to form a land and then bends sharply to pass in a nearly axial direction toward the inside face of said first-mentioned side segment, said passes and bends being repeated substantially throughout the circumference of said spacer to form said angularly corrugated pattern, the circumferential lengths of said individual lands and the circumferential lengths of the gaps between said successive lands in contact with one of the segments being in the neighborhood of the distance between said side segments and the circumferential lengths of complete corruga-

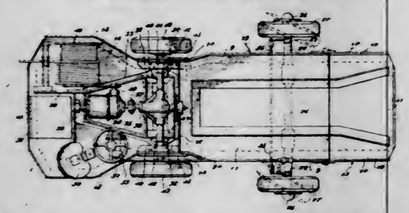
tions being in the neighborhood of two times the distance between the side segments, and a backing spring behind said side segments and spacer for urging the same outwardly.

2,323,816
TABULATING AND ACCOUNTING MACHINE
William W. Lasker, deceased, late of Brooklyn, N. Y., by William W. Lasker, Jr., executor, Brooklyn, N. Y., and John Mueller, North Bergen, N. J., assignors to Remington Rand Inc., Buffalo, N. Y., a corporation of Delaware
Application November 13, 1937, Serial No. 174,354
44 Claims. (Cl. 235—61.8)



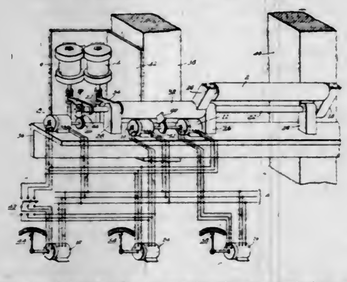
6. In an adding and subtracting machine, the combination of an actuating rack, a pair of register wheels, two parallel levers on which respectively said wheels are mounted, means for so guiding the relative movement of said levers as to maintain said wheels constantly in mesh, means for imparting relative longitudinal movements to said levers to project one of said wheels nearer than the other to said rack in one position and the other wheel in another position, means for moving said levers together to engage and disengage the projected wheel with and from said rack, and means for swinging said levers about their pivots to move the engaged wheel in a direction substantially parallel to the direction of movement of said rack in order to impart an increment of rotation to said wheels.

2,323,817
MINING MACHINE CARRIER
Arthur L. Lee, Oakmont, Pa., assignor, by mesne assignments, to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application April 9, 1941, Serial No. 387,672
5 Claims. (Cl. 180—54)



2. In a mining machine-carrying truck comprising spaced pairs of wheels and a chassis in underslung relation to said wheels; an axle structure arranged beneath and in supporting relation to the chassis between one pair of wheels, an axle arranged above the chassis extending between the other pair of wheels, means connecting the truck chassis with said second axle for relative tilting movement, a mining machine-carrying deck supported by the chassis and arranged upon a level above the said first axle and below the said second axle, said deck extending from a point between the axles to a point beyond the one that is lower, and driving mechanism mounted upon the said second axle for tilting movement therewith relative to the chassis, said driving mechanism being operatively connected with the wheels carried by the said second axle.

2,323,818
TENSIOMETER
Gerhard P. Lessmann, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 28, 1940, Serial No. 367,498
7 Claims. (Cl. 265—1.6)

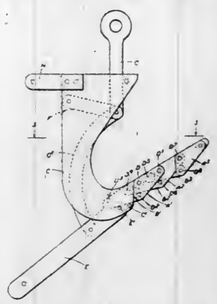


1. In a device for tensioning a strip of material as it extends between adjacent work devices, a tensioning roller disposed to bear against the strip and thus subject it to tension by deflecting it from the line between the work devices, a supporting arm adjacent each end of said tensioning roller, means rotatably mounting each end of the tensioning roller on its adjacent supporting arm, a sleeve member, means rotatably mounting said sleeve member in a position displaced from and substantially parallel with said roller, a shaft member substantially concentric with and extending through and beyond said sleeve member, one of said supporting arms being secured for rotation with said sleeve and the other supporting arm being secured for rotation with said shaft, and separate means for actuating said shaft and said sleeve to thereby cause said tensioning roller to apply a transverse deflecting force to the strip.

2,323,819
BUNDLING OR GRIPPING DEVICE
James Gabriel Lewis, Sunderland, England, assignor to Pyrotenax Limited, Hebburn-on-Tyne, England, a company of Great Britain
Application March 25, 1942, Serial No. 436,191
In Great Britain March 26, 1941
13 Claims. (Cl. 294—82)

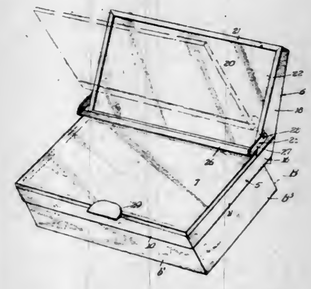
1. A bundling or gripping device, comprising two interconnected chains of pivoted links, of which the intermediate links each have three pivots in triangular formation and cooperate with one another to form in effect a sequence of crossed four-bar-linkages, and pivoted means for imparting relative movement to the end links

of the two chains at one end whereby a change of angles will be transmitted through the se-



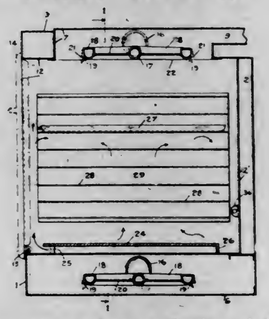
quence of linkages and the pairs of chains as a whole will be caused to assume a spiral formation.

2,323,820
CIGAR BOX ATTACHMENT
Eugene W. Lilienfield, Chicago, Ill., assignor to José Escalante & Company, Chicago, Ill., a corporation of Illinois
Application January 5, 1942, Serial No. 425,622
1 Claim. (Cl. 217—58)



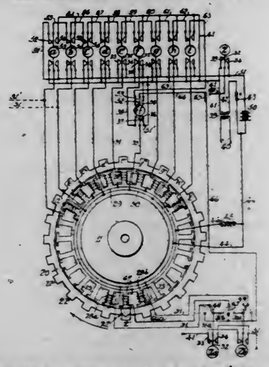
As a new article of manufacture, an attachment designed for use in connection with a cover equipped cigar box or like container, and comprising an inwardly flanged, U-shaped frame shaped snugly to surround and rest on the upper margins of the front and side walls of the box and having flangeless extensions at the rear ends of the side members thereof, a separately formed housing extending between the extensions and at an obtuse angle with respect to the frame, having a fixed back and the lower portions of the sides thereof fixedly connected to said extensions, and adapted to receive and house the cover of the box and hold it in an open position, and a transparent lid adapted to swing back and forth between a closed position on the frame and an open position wherein it fits against and is supported by the front of the housing and having a hinge connection therefor consisting of a U-shaped strip extending around and along the rear margin of the lid, and a pair of right angle arms connected to, and extending rearwardly from, the ends of the strip and having their rear or outer ends in lapped relation with, and pivoted to, the bottom portions of the housing sides at points directly over the extensions.

2,323,821
OVEN AND BROILER
Walter C. Lindemann and Richard Meiners, Milwaukee, Wis., assignors to A. J. Lindemann & Hoverson Company, Milwaukee, Wis., a corporation of Wisconsin
Application January 30, 1940, Serial No. 316,312
3 Claims. (Cl. 126—39)



1. In an oven, a burner device at the bottom thereof in communication with and adapted to supply heat for the oven, a horizontal deflecting plate between said device and the bottom of the cooking space of the oven, there being passages between it and the walls of the oven to permit the passage of heated gases, a horizontally arranged partition in said oven above the said plate substantially closing the space between vertical walls of the oven and dividing the oven into upper and lower communicating cooking compartments above said plate, there being passages around said partition having a substantially smaller area than those of said plate permitting passage of heated air and combustion gases from the burner through said lower compartment past said partition to the upper compartment and maintaining a lower range of effective cooking temperatures in said upper compartment than in said lower compartment for the cooking of different kinds of food simultaneously.

2,323,822
SELECTIVE SYSTEM AND APPARATUS
Matthew H. Loughridge, Bogota, N. J.; William R. Lockridge, administrator of said Matthew H. Loughridge, deceased
Application July 4, 1939, Serial No. 282,833
23 Claims. (Cl. 172—239)



1. Selectively operated apparatus comprising a stator having a plurality of energizing coils and

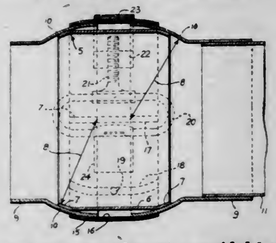
a rotor separated from the stator by an air gap, means in the stator co-operating with the rotor to drive the rotor from any position, a plurality of normally inactive stopping means spaced in the stator, a key controlling each of said stopping means to make it active and a single means in said rotor co-operating with the active stopping means to stop the rotor in a position corresponding with the key that has been operated.

2,323,823

JOINT FOR EXHAUST MANIFOLD SYSTEMS

Roscoe I. Markey, East Orange, N. J., assignor to Pollak Manufacturing Company, Arlington, N. J., a corporation of New Jersey

Application July 10, 1942, Serial No. 450,461
3 Claims. (Cl. 285—92)



1. A joint for an exhaust manifold system, said joint having in combination, a spacer for a pair of tubular members of said exhaust manifold system, said spacer having a wall thickness substantially the same as that of said tubular members, a straightaway intermediate portion on said spacer and curved end portions, bell-shaped ends on said tubular members, the curved ends on said spacer conforming to the curvature of said bell-shaped ends and cooperating therewith so as to permit of angular displacement of said tubular members in relation to each other while maintaining gas-tight relations, and a split clamping member permitting of diametrical expansion and contraction of said joint and for maintaining said bell-shaped ends of said tubular members in proper relation to each other and preventing the escape of gases, said split clamping member having an intermediate straightaway portion and curved portions conforming to the curvature of said bell-shaped ends, the centers of the bell-shaped ends of the pipes and the curved end portions of the spacer and the curved end portions of the split clamping member being on the longitudinal axis of the joint and spaced apart from each other.

2,323,824

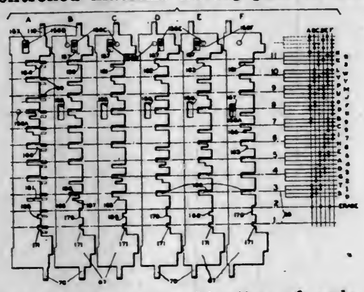
CODE INTERPRETING MECHANISM

August H. Maschmeyer, Brooklyn, N. Y., assignor to Remington Rand Inc., Buffalo, N. Y., a corporation of Delaware

Application February 15, 1938, Serial No. 190,589
13 Claims. (Cl. 235—61.6)

10. The combination of a plurality of code bars having notches of different depths therein and displaceable in response to codical representations of a record punched according to a combination code, means for displacing one of said code bars in response to a first designation, means for displacing another of said code bars in response to a second designation, and means associated with the second displacing means and rendered operative when said second displacing means is operated and the first displacing means is not operated for causing said first code bar to be displaced to an extent different from that to which it is displaced by the first displacing means, whereby different depths of notch of said first code bar are brought to active position in the two instances, and a feeler set differentially under the control of the notches of the code bars.

13. In the code translating mechanism of a record controlled machine having pins to sense a



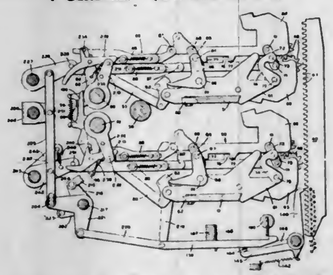
punched record, the combination of code bars having notches of different depths, means controlled by one of said pins to displace two of said code bars, and means controlled by another of said pins to displace one of said two code bars to a different extent to bring to active position a different depth of notch in said one code bar; and a feeler to sense the notches in said bars.

2,323,825

TABULATING MACHINE

August H. Maschmeyer, Port Jefferson Station, N. Y., assignor to Remington Rand Inc., Buffalo, N. Y., a corporation of Delaware

Application August 9, 1940, Serial No. 351,952
7 Claims. (Cl. 235—61.9)



1. In a machine of the class described, the combination of a series of type carriers having interspersed numeral and alphabet types, feelers one for each carrier, each said carrier having such a configuration that its feeler is obstructed by a high point at numeric and not at alphabetic settings of said carrier, means for causing said feelers to sense said carriers, a universal bar operated by any feeler not so obstructed, and a control member controlled by said universal bar.

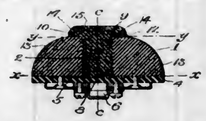
2,323,826

DIFFERENTIAL TRUSS PAD

James H. Mason, Philadelphia, Pa., assignor to Chesterman Leeland Company, Philadelphia, Pa., a corporation of Pennsylvania

Application October 17, 1940, Serial No. 361,622
3 Claims. (Cl. 128—117)

3. A truss pad comprising a body portion composed of inherently resilient material provided with an opening extending below the normal con-



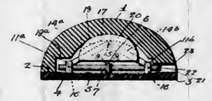
tact face of said body portion, and a diaphragm of inherently resilient material extending across said opening at said contact face of said pad.

2,323,827

ADJUSTABLE TRUSS PAD

James H. Mason, Philadelphia, Pa., assignor to Chesterman Leeland Company, Philadelphia, Pa., a corporation of Pennsylvania

Application December 5, 1940, Serial No. 368,723
9 Claims. (Cl. 128—116)



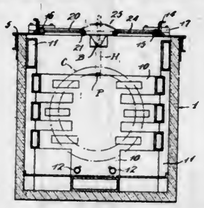
1. A truss pad having a normal body-contacting surface, an element confined in a recess formed in said pad for variably distorting said surface, a base plate closing said recess on the side of said pad opposite to that occupied by said surface, a reversely threaded screw rotatably mounted on said base plate parallel to the plane thereof, a pair of traveling blocks on the reversely threaded portions respectively of said screw, a pair of oppositely inclined links pivotally connected to said blocks respectively at one end of each link, and means pivotally connecting the opposite ends of said links together with said connected ends in engagement with said distorting element for moving the latter perpendicular to said base plate by rotation of said screw.

2,323,828

DOOR FOR TOP LOADING AND UNLOADING OVENS

Carl F. Mayer, Lakewood, Ohio

Application August 1, 1942, Serial No. 453,272
19 Claims. (Cl. 263—10)



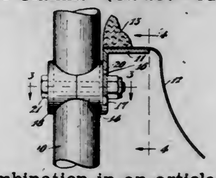
1. In a top loading and unloading oven, two elements supported for oscillation and arranged in approximately the plane of the oven top and in substantially parallel relation to each other, said elements being disposed longitudinally of the oven and spaced apart laterally thereof a substantial distance, doors carried by said elements and extending therefrom toward each other and capable of swinging in unison with said elements above and below a substantially horizontal position, and means biasing the elements to the position they occupy when the doors are in substantially horizontal position.

2,323,829

METAL FURNITURE

Warren McArthur, New York, N. Y., assignor to Warren McArthur Corporation, a corporation of New York

Application April 22, 1942, Serial No. 439,983
5 Claims. (Cl. 287—54)



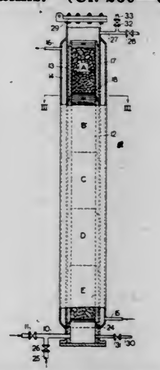
1. The combination in an article of furniture, of a rod-shaped frame member, a second frame member, means for securing said frame members together comprising a connecting member having a concave face on one side conforming to and engaging said rod-shaped member, and a flat, shouldered face on the other side engaging said second frame member with the shoulder thereof engaging an edge of said second frame member, and means extending through said frame members and said connecting member for clamping said members together.

2,323,830

CATALYTIC CONVERSION PROCESS

Frank M. McMillan, Berkeley, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware

Application January 27, 1941, Serial No. 376,194
9 Claims. (Cl. 260—683.5)



1. In an isomerization process wherein butane is passed under isomerizing conditions through an elongated reaction zone containing a bed of catalytic material consisting of adsorbent alumina impregnated with anhydrous aluminum chloride followed by an adjoining bed of adsorbent alumina, the method of prolonging the useful life of said catalyst material which comprises the steps of intermittently withdrawing from the reaction zone a part of the catalytic material farthest removed from the bed of adsorbent alumina said catalytic material being substantially spent, treating said withdrawn part of the catalytic material outside of the reaction zone to recover and regenerate the adsorbent alumina contained therein, passing anhydrous aluminum chloride vapors through the remaining partially spent catalytic material and the adsorbent alumina in situ to simultaneously increase the catalytic activity of said partially spent catalytic material and render the adsorbent alumina catalytically active by im-

pregnation, and returning the above-said regenerated adsorbent alumina to the outlet end of the reaction zone.

2,323,831
PROCESS OF ADHESION
Adolf Menger and Eugen Bock, Krefeld-Uerdingen, Germany; vested in the Alien Property Custodian
No Drawing. Application January 17, 1939, Serial No. 251,374. In Germany January 21, 1938
8 Claims. (Cl. 144—309)

1. Process of adhesion which comprises coating pieces of material with an adhesive in the form of a foam and then cementing them together by heat and pressure.

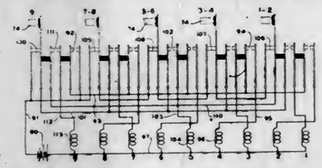
2,323,832
PARTIALLY CARBONIZED SHEET FOR USE WITH POST CARDS AND METHOD OF USING THE (PARTIALLY CARBONIZED) SHEET AND POST CARD TOGETHER
Halford Frye Meras, Exeter, N. H.
Application March 10, 1941, Serial No. 382,646
4 Claims. (Cl. 282—27)



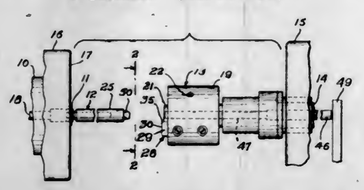
1. A sheet of paper and a post card, said sheet having a light-faced obverse side and on its reverse side two areas of transfer material of substantially rectangular shape and of unequal size, the larger substantially equal to the size and shape of said post card, the smaller disposed in substantially parallel position to the long edge of the larger, and of a size sufficient to enable it to transfer any normal handwritten four-line address, and having a non-transferring space interposed between and coextensive with both transferring areas, said space having its short or vertical dimension not less than that of the smaller transferring area, whereby said sheet and card become original and duplicate respectively of the writing of both address and message written thereon.

2,323,833
ELECTRIC DECODING DEVICE
Harold P. Mixer, Rockville Centre, N. Y., assignor to Remington Rand Inc., Buffalo, N. Y., a corporation of Delaware
Original application April 25, 1936, Serial No. 76,492, now Patent No. 2,214,029, dated September 10, 1940. Divided and this application May 17, 1940, Serial No. 335,685
2 Claims. (Cl. 235—61.6)

2. A decoding unit of the class described for decoding a two unit code sensed from a punched data card, comprising five contact units for each denominational order to be decoded, pins for operating the contact units, each of said contact units comprising three pairs of contacts, two of which are normally open and one of which is normally closed, said contacts being shifted from their normal condition when operated by said pins, nine magnets for translating the decoded data, each of said magnets corresponding to one of the digits from 1 to 9, an odd digit magnet and the next higher even digit magnet being associated with four of said contact units, and the 9 magnet being associated with the fifth of said contact units, circuits connecting one side of each of said magnets to a source of current and the other side of the 1 to 8 magnets to the normally open pairs of contacts of the associated four contact units, a circuit from said source of current connecting the normally closed pairs of contacts of said four contact units in series and through one of said normally open pairs of contacts of said fifth contact unit to the 9 magnet, whereby the 9 magnet will be energized when said fifth contact unit is operated alone, circuits connecting the pairs of contacts connected to odd digit magnets to the set of normally closed contacts of said fifth contact unit, other circuits connecting the pairs of contacts connected to even digit magnets to the other set of normally open contacts of said fifth contact unit, whereby an odd digit magnet will be energized when one of said four contact units is operated alone and the next higher even digit magnet will be energized when this operation is accompanied by operation of said fifth contact unit.



2,323,834
MACHINE TOOL
Kasper F. Moller, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application November 13, 1940, Serial No. 365,441
4 Claims. (Cl. 82—35)

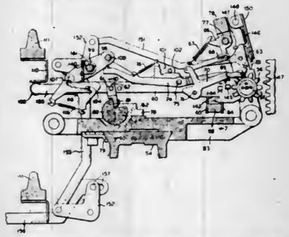


3. In an article cutting or turning mechanism, reciprocatory means carried thereby having an aperture for receiving and supporting a rotary article as the cutting thereof progresses, a cutting blade associated therewith having a cutting edge positioned at the forward end of and slightly within said aperture, cleanout means slidably carried in said aperture and movable toward the rear end thereof by the article as it is received therein during an advance of said reciprocatory means, and an abutment in the path of and engaged by said means during a retraction of said reciprocatory means for returning said cleanout means as said article is withdrawn from said aperture.

2,323,835
CEMENT-ASBESTOS SHINGLE AND LIKE PRODUCT
Philip Mooney, Cleveland Heights, Ohio, assignor to Medusa Portland Cement Company, Cleveland, Ohio, a corporation of Ohio
No Drawing. Application March 3, 1942, Serial No. 433,120
8 Claims. (Cl. 106—99)

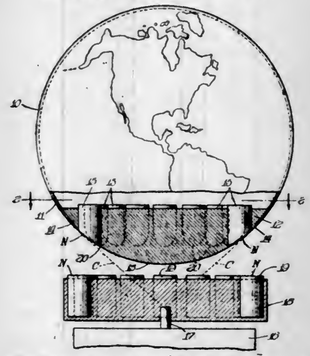
1. The method of making cement-asbestos products containing a filler material, said method comprising controlling the setting or hardening of the products by using cement mill flue dust as the filler material.

2,323,836
COMPUTING AND ACCOUNTING MACHINE
John Mueller, North Bergen, N. J., assignor to Remington Rand Inc., Buffalo, N. Y., a corporation of Delaware
Application July 24, 1941, Serial No. 403,784
8 Claims. (Cl. 235—133)



1. In a totalizer in which the transfer of the tens is effected by moving a totalizer wheel along its actuator relatively to other wheels, a totalizer wheel support settable relative to other wheel supports away from the actuator, so as to disable the wheel on said support by preventing it from engaging its actuator, and means for concomitantly locking the support so set against transfer movement.

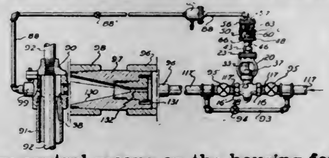
2,323,837
MAGNETIC APPARATUS
Ernest C. Neal, Chicago, Ill., assignor, by direct and mesne assignments, to John A. Marzall, Chicago, Ill., as trustee
Application February 6, 1941, Serial No. 377,685
19 Claims. (Cl. 35—46)



1. In a magnetic apparatus wherein a subject having magnetic means physically connected therewith is supported in space by a magnetic field acting upon said magnetic means, a base member from which said subject is to be so supported, a plurality of spaced apart magnetic pole pieces arranged in ring-like formation on said base member with pole portions of like polarity disposed upwardly and generally toward the space in which said subject is to be supported, said pole pieces providing a ring-like magnetic field extending in a generally vertical direction and adapted to react with a subject magnetic means to support a subject in spaced relation above the base.

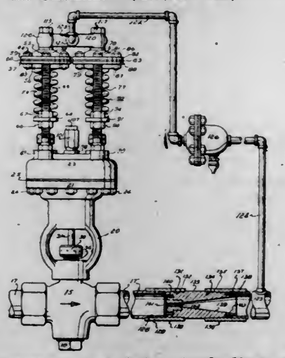
2,323,838
FLUID FLOW DEVICE
Jeddy D. Nixon, Houston, Tex.
Application April 1, 1940, Serial No. 327,181
21 Claims. (Cl. 50—11)

1. In a pressure regulator including, a housing,



fluid flow control means on the housing for controlling the flow of fluid through said housing, said flow control means being so constructed as to be either fully opened or completely closed, a pressure reducer connected to the delivery side of the regulator and spaced therefrom for reducing the pressure of the fluid flowing through the housing and the flow control means, fluid operated means connected to the delivery side of the pressure reducer for actuating said control means, means for governing the application of the discharged fluid to said fluid operated means, and means for releasing the discharged fluid from said fluid operated means.

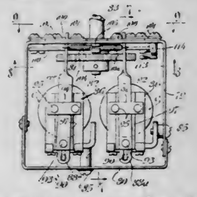
2,323,839
FLUID FLOW CONTROL DEVICE
Jeddy D. Nixon, Houston, Tex.
Application January 27, 1941, Serial No. 376,117
22 Claims. (Cl. 50—11)



1. In a pressure regulator including, a housing, fluid flow control means mounted in the housing for controlling the flow of fluid through said housing and adapted to close with the flow of fluid, said flow control means being so constructed as to be either fully opened or completely closed and eliminating any intermediate positions, whereby said flow control means discharges substantially the same pressure as received, fluid operated means connected to the delivery side of the regulator for actuating said

control means, means for governing the application of the discharged fluid to said fluid operated means, means for releasing the discharged fluid from said fluid operated means to the atmosphere, and means connected to the delivery side of the regulator for governing the operation of said releasing means.

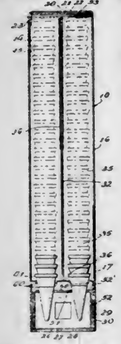
2,323,840
RELAY OPERATED STEPPER ASSEMBLY
Thedore Obszarny, Chicago, Ill., assignor to Guardian Electric Manufacturing Co., Chicago, Ill., a corporation of Illinois
Application July 22, 1940, Serial No. 346,833
4 Claims. (Cl. 175—337)



4. For use with a step-by-step ratcheting mechanism, the combination of mounting means including an upright panel, a shaft supported by said panel, a rotatable toothed ratchet member mounted on said shaft in close proximity and in substantially parallel relation to said panel, a pair of electro-magnets carried on the mounting means and each including an armature pivoted for movement about an axis extending transversely to the axis of said member, a pair of actuating pawls pivotally mounted on the respective armatures for lateral movement transversely of the direction of movement of said armatures, said pawls extending in the direction of the axis of said member and each having portions positioned for engaging teeth of said member on opposite sides of its axis of rotation, whereby selective energization of said electro-magnets causes step-by-step adjustment of the ratchet member for minute selective positioning of the shaft, said panel being provided with apertures through which the end portions of said actuating pawls extend, and means provided on the panels adjacent the apertures to limit the lateral and vertical movement of said pawls.

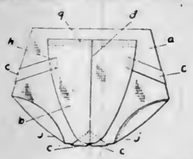
2,323,841
DISPENSING PACKAGE FOR ICE CREAM CONES
Larry Pape and Murray Weintraub, Chicago, Ill., assignors to The Milko Cone & Baking Co., Inc., Chicago, Ill., a corporation of Illinois
Application April 3, 1940, Serial No. 327,642
8 Claims. (Cl. 206—56)

1. In a combined shipping and dispensing package for ice cream cones, the combination of a substantially rectangular cardboard container of elongated shape adapted to receive a stack of cones, and having upper and lower closure flaps adapted to be closed at the ends thereof, with a cone supporting partition above the lower end thereof, said cone supporting partition having a horizontal body provided with an aperture for passing cones, said aperture having inwardly extending fingers spaced from each other by slots of substantially the same width as said fingers and extending inwardly to support said cones by peripheral engagement for convenient removal, and said partition having a pair of depending flaps fitting against the sides of said container, said container having inwardly extending integral flaps inwardly of its lower end and extending upward inside the flaps of said partition to support said partition, a second partion beneath and spaced from said first partition, said second partition having an aperture for receiving and peripherally supporting the lower



end of the lowermost cone in the stack in position with its tip spaced from the bottom of said container, said second partition having downwardly extending flaps engaging the lower closure flap of the container, and being removable from said container in the use of the same as a dispensing package.

2,323,842
BATHING SUIT AND TRUNKS, AND OTHER ATHLETIC SUITS, TROUSERS, AND TRUNKS
James Theodore Rakauskas, Chicago, Ill.
Application May 9, 1940, Serial No. 334,226
4 Claims. (Cl. 128—159)

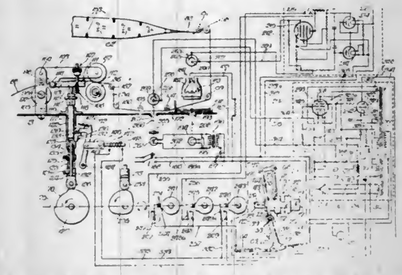


1. A single garment comprising an outer trunk-like portion having two holes for the legs and one for the body; an inner lining inside the trunklike portion and secured to the upper inside front thereof, said lining being shaped to cover the greater part of the abdomen and to extend to and terminate between the legs; and elastic bands fastened at their bottom ends to the bottom of the lining and at their top ends to the top of the lining, the sides of said lining and said bands forming loops for the legs.

2,323,843
MACHINE FOR MARKING TEXTILE AND OTHER ARTICLES
Henry Richter and John H. Wahlbeck, Kankakee, and Leonard S. Kleinfeld, Chicago, Ill., assignors to Paramount Textile Machinery Co., Chicago, Ill., a corporation of Illinois
Application December 4, 1939, Serial No. 307,458
14 Claims. (Cl. 41—1)

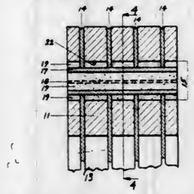
1. In combination in a machine for stamping an article by transfer thereto of one impression from a medium bearing a plurality of impressions, a power source; a main shaft; means to connect and disconnect said power source to and

from said shaft including a clutch, a solenoid, a photoelectric cell, a light source arranged normally to illuminate said cell, a control circuit interposed between said cell and solenoid, said circuit including timing means on said main shaft; a table to receive the article in a position to interrupt the light rays impinging on the cell



and initiate a cycle of operations of the machine; a stamping member positioned in impression transferring position; and mechanism associated with said shaft to move said member to transfer an impression to the article then in stamping position during the cycle.

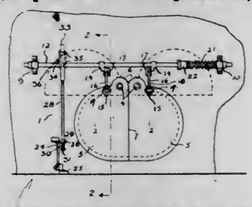
2,323,844
BOLTLESS WOOD CONNECTION
Rolf K. O. Sahlberg, New York, N. Y.
Application March 3, 1942, Serial No. 433,140
7 Claims. (Cl. 20—92)



1. In a wood connection, a slotted wooden member, at least one metallic plate inserted in a slot of said wooden member and extending outwardly thereof, said wooden member and said plate having at least one set of co-axial holes of which the hole in said plate is smaller than the holes in said wooden member, a tubular dowel of resilient material having a longitudinal slot throughout its length and passing through said co-axial holes, the original diameter of said dowel being slightly larger than the diameter of the hole in said plate, and a filling of hardened material located in the slot of said dowel and in the spaces within said dowel and between said wooden member and said dowel.

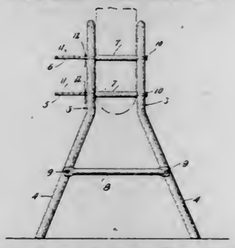
2,323,845
FIRE DOOR
Percy Harold Routledge, Mission, British Columbia, Canada
Application July 29, 1941, Serial No. 404,481
3 Claims. (Cl. 110—178)

1. In combination with a firebox front having a firing opening, a door hingedly suspended from the front to normally cover said opening, a horizontal shaft above the door, said horizontal shaft having a crank, a manually operable lever for rocking the shaft, a jointed connection extending downwardly between the shaft and the door including an offset member, said offset member being adapted to straddle the shaft and dispose the axis of said connection beyond a given centre and lock the door in open position when the shaft is rocked to a predetermined position, and means



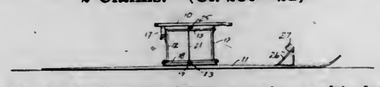
associated with the lever and the shaft for imparting a reverse rocking movement to the shaft in response to quick relief of pressure on the lever.

2,323,846
TIRE SUPPORTING DEVICE
Homer Dever Saltsman, Philadelphia, Pa.
Application April 24, 1942, Serial No. 440,407
2 Claims. (Cl. 211—24)



2. A supporting device for tires comprising a pair of side frame members, cross members connecting said side members and adapted to support a tire, said cross members having apertures therein adjacent one end, pins fitting said apertures for positioning said frame members, and other apertures in said cross members providing adjustment of the position of said frame members whereby adjustment of the device to accommodate tires of different widths is provided.

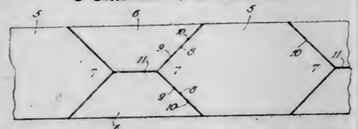
2,323,847
SKI SLED
Ralph R. Sampsell, Youngstown, Ohio
Application December 10, 1941, Serial No. 422,339
2 Claims. (Cl. 280—21)



1. A ski sled comprising a pair of skis having a seat member positioned thereon, the said seat member comprising a support member straddling the skis, a bracket positioned on each of the said skis, up-turned ends formed on the said bracket, the said support member pivotally affixed to each of the said bracket on the longitudinal axis thereof, a seat board pivotally affixed to the support member on the longitudinal axis thereof, a handle member positioned transversely of the said seat member and extending beyond the sides thereof, rods connecting the seat board and the outermost edges of the said brackets and movably attached to both and adapted to impart tilting movement of the seat board to each of the said skis therethrough, a U-shaped leaf spring positioned between the said support member and the

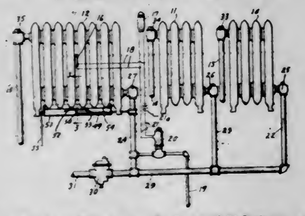
seat board and adapted to normally maintain the seat board on a horizontal plane in relation to the said support member.

2,323,848
PAVEMENT
Frederick William Schaeffer, Chicago, Ill.
Application February 13, 1941, Serial No. 378,697
3 Claims. (Cl. 94—11)



3. A pavement construction of the character described comprising slabs of paving material having V-shaped ends extending substantially from the quarter point of said slabs, said slabs being spaced by a pair of side by side shorter slabs which face each other along the line connecting the adjacent tips of the first named slabs, each shorter slab having ends inclined in opposite directions whereby adjacent ends cooperate to define a V-shaped opening which receives a V-shaped end of said first named slab.

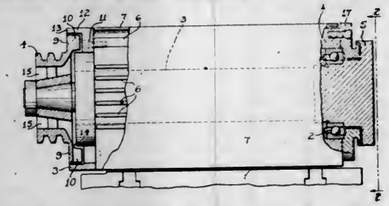
2,323,849
HEATING AND HUMIDIFYING SYSTEM
Warren E. Schnoes, Chicago, Ill.
Application June 12, 1941, Serial No. 397,762
7 Claims. (Cl. 237—10)



7. In a heating and humidifying system, a steam radiator, means for supplying steam to said radiator, means for introducing compressed air into said radiator to check the flow of steam to said radiator, means responsive to both radiator and room temperature for thermostatically controlling the flow of air to said radiator, a nozzle and spreader baffle for causing said compressed air to vaporize a portion of the water of condensation outside of said radiator for the humidification of the air in said room, said nozzle being arranged to direct said water vapor and air mixture adjacent said radiator to raise the relative humidity of said air.

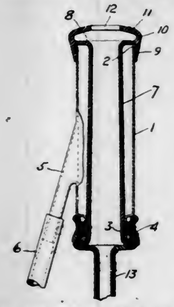
2,323,850
AIR COOLED SPINDLE MOUNTING FOR MACHINE TOOLS AND THE LIKE
Gherald D. Scott, Worcester, Mass., assignor to The Heald Machine Company, Worcester, Mass., a corporation of Massachusetts
Application October 7, 1940, Serial No. 354,992
1 Claim. (Cl. 308—77)

In apparatus of the class described, a rotatable spindle, driving devices therefor, bearings in which said spindle is journalled, a body or housing containing said bearings and supporting the axis of said spindle at a predetermined level, external heat radiating fins on the top and sides of said body, a cover spaced from the top and sides of said body to form therewith a duct or manifold extending substantially the full length of said body and inclosing said fins, an annular member at one end of said duct and having a flange substantially coextensive with said cover, said driving devices including a pulley on said spindle, said pulley making a running fit with



said flange, and having air openings therethrough, and fan blades on said pulley within said running fit, for drawing in air through said openings, said duct or manifold receiving said air and conducting it, in heat-exchanging relation to said fins, longitudinally of said housing for substantially the full length thereof.

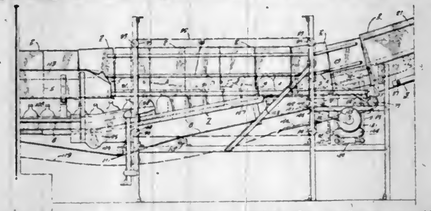
2,323,851
MILKING MACHINE TEAT CUP
Walter A. Scott, Poughkeepsie, N. Y., assignor to The De Laval Separator Company, New York, N. Y., a corporation of New Jersey
Application September 9, 1941, Serial No. 410,127
5 Claims. (Cl. 31—85)



1. A milking machine teat cup comprising a rigid outer shell having a tubular body of substantially uniform diameter and a contracted neck at its lower end and a flexible and elastic liner having at its upper extremity an abruptly expanded disc portion secured to the upper extremity of the shell, the liner at its lower end being confined within the shell neck, the main body of the liner being of approximately equal thickness throughout its length and, when subjected to balanced pressure, tapering along both its inner and outer walls inward from its lower end to its upper end, the thickness of the liner body being such and its degree of taper being so limited that its upper outside diameter exceeds its lower inside diameter.

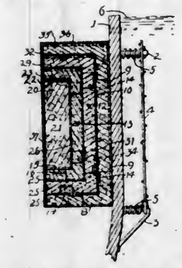
2,323,852
DEVICE FOR OPENING AND EMPTYING CARTONS
Stephen G. Seidel and Robert P. Lownes, Philadelphia, Pa.
Application July 14, 1942, Serial No. 450,942
20 Claims. (Cl. 214—1.1)

1. In apparatus for opening and emptying cartons of the character described, the combination with a guide for the cartons, of means for advancing the cartons successively in inverted positions along the guide, means in the guide for opening the outer pair of the closure flaps of the



cartons, and means in the guide for subsequently releasing the inner pair of closure flaps so as to permit discharge of the contents from the carton.

2,323,853
SHIP GUARD
Louis Simeone, San Jose, Calif.
Application October 14, 1942, Serial No. 462,047
2 Claims. (Cl. 114—9)



1. A structure of the character described comprising, a plurality of nested and spaced receptacles mountable on the interior of a ship's hull, and a filling of cushioning material for the spaces between said receptacles.

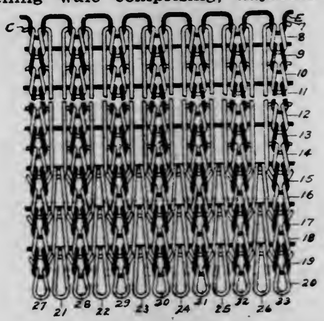
2,323,854
FINGERNAIL GUARD
Sidney Silverman, Providence, R. I.,
Application January 26, 1942, Serial No. 428,275
3 Claims. (Cl. 2—21)



1. A finger nail guard comprising a finger clamping portion adapted to be releasably mounted on a finger in the rear of the finger nail, said clamping portion comprising an inverted U-shaped ridge having integrally depending clamping fingers, and a nail guard portion adapted to extend forwardly from said ridge and in spaced relation over the finger nail, said nail guard portion having an integral ridge adapted to snap over and interlock with the ridge on said clamping portion.

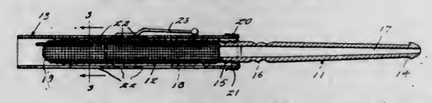
2,323,855
KNITTED FABRIC
William L. Smith, Jr., Pawtucket, R. I., assignor to Hemphill Company, Central Falls, R. I., a corporation of Massachusetts
Application September 15, 1939, Serial No. 295,095
4 Claims. (Cl. 66—172)

1. A knitted selvage fabric having elastic and relatively non-elastic threads knitted therein, interspersed wales adjacent to the selvage comprising alternating loops of the two threads, each intervening wale comprising, adjacent to the



selvage, four accumulated loops, the first accumulated loop of each wale being the first loop of the relatively inelastic thread.

2,323,856
SMOKING APPLIANCE
Leonard Tillman, Springdale, Conn.
Application March 12, 1942, Serial No. 434,437
2 Claims. (Cl. 131—175)

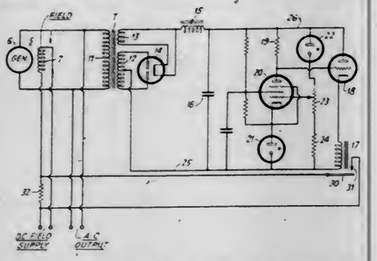


1. A cigar or cigarette holder comprising a stem having a bit end, adapted to be held in the mouth, and a shank end, adapted to receive an end of a cigarette or cigar a mesh wire fabric cylinder having a closed end and an open end, said open end being detachably connected to the shank end of the stem to position the cylinder and stem in end to end relationship, said cylinder being adapted to contain the cigarette or cigar, and a shield comprising a tube of substantially rigid, non-inflammable material having open ends, said tube being disposed over the cylinder and having one of its ends detachably connected to the open end of the cylinder, the open end of the cylinder being turned outwardly and back upon itself to engage over said end of the tube.

2,323,857
VOLTAGE CONTROL
Bertram Trevor, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application December 31, 1941, Serial No. 425,157
5 Claims. (Cl. 171—119)

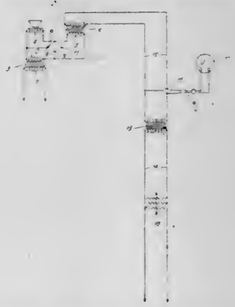
1. A system for regulating the voltage output of a generator including means for multiplying the output voltage whereby the absolute amplitude of variations in voltage is increased, means for rectifying said multiplied voltage, a first thermionic discharge tube having at least an anode, a cathode and a control grid, a pair of gas discharge tubes each adapted to maintain a constant potential difference across their terminals, one of said gas tubes being connected in series between said cathode and negative terminal of said rectifying means, an anode resistor connected between said anode and the positive ter-

minal of said rectifying means, the other of said gas tubes being connected between said positive terminal and said control grid, a resistance be-



tween said control grid and the negative terminal of said rectifying means and means responsive to the voltage drop through said anode resistor for regulating the output of said generator.

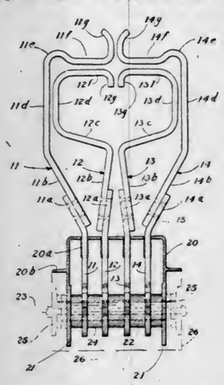
2,323,858
RADIO RECEIVING SYSTEM
Albert Le Roy Upton, St. Louis, Mo.
Application July 31, 1942, Serial No. 453,124
3 Claims. (Cl. 179—1)



1. In a radio receiver, a circuit fed from an audio amplifier, a speaker circuit connected with the first mentioned circuit through a transformer having a primary coil in the first mentioned circuit and a secondary coil in the speaker circuit, a voice coil for a speaker and a primary coil of a second transformer in series in said speaker circuit with the aforementioned secondary coil, a switch arranged to selectively by pass either said voice coil or said primary coil of the second transformer, and a feed circuit for a reproduction system including a secondary coil of said second transformer.

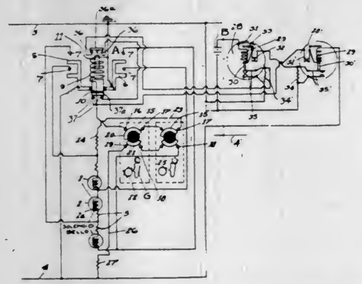
2,323,859
MULTIPLE CONTROL UNIT
William B. Wheatley, San Diego, Calif., assignor to Consolidated Aircraft Corporation, a corporation of Delaware
Application December 24, 1940, Serial No. 371,465
14 Claims. (Cl. 74—491)

1. A multiple control device comprising a bank of laterally disposed levers arranged in outer and inner pairs individually mounted for pivotal movement about a common axis, said outer levers being formed within the plane of said lateral direction such that their outer free terminals closely approach each other, and said inner levers being formed in said lateral plane such that they first approach each other and secondly approach the adjacent outer levers, each of said levers provided with a plurality of gripping portions, where-



by either joint control of all levers, group control of said inner, outer, or adjacent pairs of levers or individual control of any one lever is obtained.

2,323,860
FAULT-INDICATING MEANS FOR SIGNAL SYSTEMS
John H. Wheelock, Fitzwilliam, N. H., assignor to Signal Engineering & Manufacturing Company, New York, N. Y., a corporation of Massachusetts
Original application June 22, 1936, Serial No. 86,512, now Patent No. 2,238,144, dated April 15, 1941. Divided and this application February 28, 1940, Serial No. 321,323
1 Claim. (Cl. 177—311)

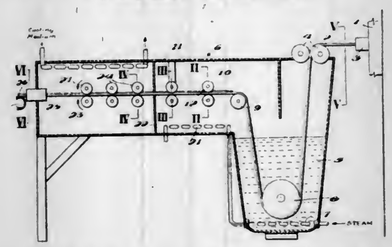


In combination with a normally closed electrical circuit, including a controller having a winding traversed by a supervisory current insufficient to cause operation of the controller, separate fault-indicating signals, means including contacts normally closed in response to the flow of supervisory current through said controller winding for maintaining a flow of supervisory current through one of said signals, insufficient to cause operation of the same, means for maintaining a flow of supervisory current through the other signal, insufficient to cause operation of the same, means for operating either signal upon interruption of the flow of supervisory current in the other signal, with said controller-actuated contacts serving to additionally cause operation of the second-named signal, in response to the occurrence of a fault in said closed circuit and the interruption of supervisory current through said controller winding.

2,323,861
SYNTHESIS OF ORGANIC ACIDS
Carl N. Zellner, Elizabeth, N. J., assignor to Tide Water Associated Oil Company, New York, N. Y., a corporation of Delaware
No Drawing. Application November 21, 1942, Serial No. 466,502
7 Claims. (Cl. 260—533)

1. Process for oxidizing hydrocarbons or mixtures thereof, said hydrocarbons selected from the group consisting of cyclohexene, methyl cyclopentene, and homologues thereof, to produce dibasic acids which comprises slowly adding said hydrocarbons to nitric acid of a concentration from about 30% to about 75% while maintaining the temperature of the reaction mixture at not above about 90° C. and recovering dibasic acid so formed.

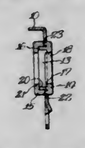
2,323,862
MEANS FOR PRODUCING FORMED STRIPS OF PLASTIC MATERIALS
Orr S. Zimmerman and Thomas J. Tully, Columbus, Ohio, assignors to Plastex Trim Corporation, Columbus, Ohio, a corporation of Ohio
Application June 30, 1941, Serial No. 400,484
4 Claims. (Cl. 18—19)



1. Apparatus for producing formed strips of thermoplastic composition materials, comprising a housing structure having spaced internal forming and cooling compartments, a well provided in said forming compartment for the reception of a liquid, means for heating the atmosphere of said forming compartment and the liquid contained in said well, guide devices provided in said forming compartment for controlling the advancement of the flat plastic strip through said heated liquid and forming compartment to raise the temperature of said strip sufficiently to render the same deformable under pressure, spaced sets of shaping rolls mounted in said forming compartment and through which said strip is progressively advanced when in a deformable state, said rolls being shaped to impart to the strip a desired cross sectional configuration, complemental spaced sets of rotatable compression-applying rolls arranged in said cooling compartment and through which said strip is progressively advanced upon its discharge from said forming compartment, and heat exchanging means for maintaining the temperature of said cooling compartment substantially below that of the deformable temperature of said strip.

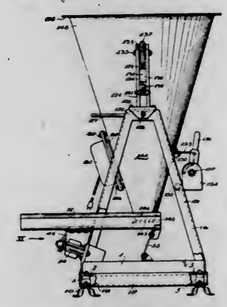
2,323,863
BEAN SLICER
William R. Feemster, Chicago, Ill.
Application March 7, 1941, Serial No. 382,243
10 Claims. (Cl. 146—170)

1. A device for slicing green beans or similar vegetables longitudinally comprising a plurality of parallel laterally spaced blades, and mounting means for the blades comprising a first continuous annular moulded plastic member having a laterally extending annular flange, recesses opening inwardly and in one direction only laterally formed in opposite walls of the flange to receive the ends of said blades, and a continuous an-



nular molded plastic cap member adapted to be slipped onto said annular flange after said blades have been inserted and secured by an interflowed bond of the material on said annular flange to retain said blades in said recesses.

2,323,864
VIBRATORY FEEDER
Carl S. Weyandt, Homer City, Pa.
Application May 1, 1939, Serial No. 270,999
7 Claims. (Cl. 221—118)

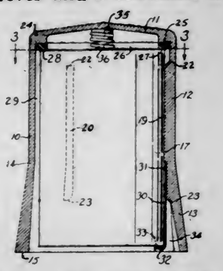


1. In a vibratory feeder machine, a substantially horizontal vibratory conveyor having a substantially flat portion, a hopper to hold a supply of material over the conveyor, said hopper having an opening in a substantially horizontal plane adjacent and substantially parallel to said flat portion of said conveyor whereby accumulation of material on the conveyor blocks the feed opening, and means to tilt the axis of the hopper to change the plane of the feed opening and adjust the feed opening therebetween, and means to vibrate said conveyor across the hopper mouth in a substantially horizontal plane.

2,323,865
DISPENSING DEVICE
Robert W. Barnes, Minneapolis, Minn.
Application May 13, 1940, Serial No. 334,836
7 Claims. (Cl. 221—61)

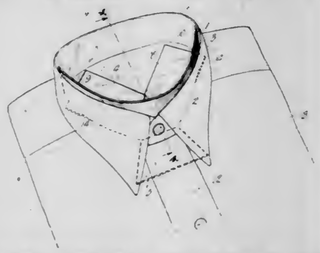
1. A dispensing device for receiving a container for material, comprising a hollow body open at its bottom and having a perforated cover at its top, a gasket disposed across an upper portion of said hollow body adjacent said perforated cover, a spring element at a lower portion of said hollow body adapted to be engaged against the lower end of a container situated within said hollow body to retain the upper end of said container engaged against said gasket, and an ejec-

tor spring situated within said hollow body between said cover and a container in said hollow



body adapted to pressingly engage against the upper end of said container.

2,323,866
SHIRT COLLAR SUPPORTER
Charles A. Burton, Austin, Tex., assignor to Archie O. Long, Kansas City, Mo.
Application October 6, 1941, Serial No. 413,745
2 Claims. (Cl. 223—83)



1. A collar supporter comprising in combination an elongated band of flexible material adapted to be bowed and lie within a collar to be supported, three tabs hinged to said strip and formed integral therewith, said three tabs when unfolded forming a substantially complete rectangle, the middle of said tabs being formed in the shape of an isosceles trapezoid and extending forwardly at right angles from said collar supporting strip under the bosom of a shirt the collar of which is adapted to be supported, the two flank tabs being bent rearwardly at right angles from said collar supporting strip and lying substantially within the collar adapted to be supported.

2,323,867
CIGARETTE ROLLING FORM
Arthur H. Hood, Jr., Philadelphia, Pa., assignor to Max N. Carol, as trustee
Application March 17, 1942, Serial No. 434,997
2 Claims. (Cl. 131—58)



1. A form adapted for rolling a cigarette, said form consisting of a sheet body made of semi-stiff, elastic rollable material, and a tapered end to said body, adapted, when holding a cigarette, its wrapper and tobacco rolled within said form, to expose part of a wrapper end of said cigarette for withdrawal purposes.

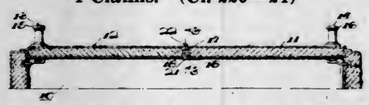
2,323,868
PREPARATION OF OXIDE TYPE CATALYSTS
Everett C. Hughes, Cleveland Heights, Ohio, assignor to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio
No Drawing. Application August 31, 1940, Serial No. 355,093
2 Claims. (Cl. 252—254)

2. In preparing for aromatizing operations on hydrocarbons, making a chromium-aluminum oxide gel type catalyst by mixing solutions of salts consisting of a chromium salt and an aluminate, and adjusting the pH to a numerical value of at least 10 and precipitating.

2,323,869
METHOD OF PREPARING GUANYL UREA FORMATE
David W. Jayne, Jr., Old Greenwich, and Harold M. Day, Cos Cob, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application November 13, 1939, Serial No. 304,207
1 Claim. (Cl. 260—501)

The method of making guanyl urea formate which comprises reacting dicyandiamide and oxalic acid in the molar proportion of 1:1, in aqueous solution, at a temperature exceeding 70° C. and below decomposition, cooling the reaction mixture, filtering the solids therefrom, washing the same with water and acetone and air-drying the product.

2,323,870
COOLER LID
William G. Kaliska, Atlanta, Ga., assignor to The Coca-Cola Company, Wilmington, Del., a corporation of Delaware
Application December 2, 1939, Serial No. 307,237
4 Claims. (Cl. 220—24)

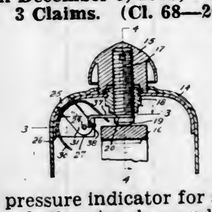


1. In a device of the character described, a refrigerator, a pair of abutting lids closing the top thereof, locks for said lids, and means preventing the lids from being forced upwardly at their abutting faces, said means comprising a hinge member attached to one of said lids on its abutting face and having an elongated lower portion bent at substantially right angles and extending beneath and in contact with the inner portion of the lid opposite to that to which it is attached, said lower portion being of a length at least equal to that of the section of the hinge directly attached to the lid.

2,323,871
METHOD OF COLORING MATERIAL
Roy Herman Kienle, Bound Brook, and Alfred Louis Peiker, East Bound Brook, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application May 28, 1940, Serial No. 337,628
6 Claims. (Cl. 8—62)

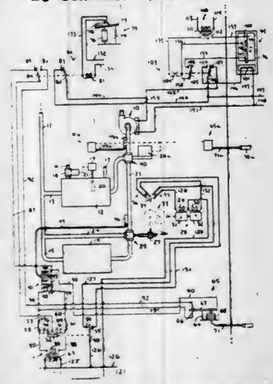
3. A color emulsion of the water-in-oil type suitable for coloring of textiles comprising a continuous phase of a dispersion of film forming material capable of setting or curing at moderate temperatures and a coloring matter in an organic solvent and a disperse phase of aqueous material, the droplets of the disperse phase not exceeding 5 microns in diameter.

2,323,872
PRESSURE INDICATOR FOR CLOTHES WRINGERS
Thomas J. Litle, Jr., South Bend, Ind., assignor to Easy Washing Machine Corporation, Syracuse, N. Y., a corporation of Delaware
Application December 9, 1940, Serial No. 369,370
3 Claims. (Cl. 68—262)



3. A roll pressure indicator for a clothes wringer having a hollow top bar and a roll pressure adjusting screw mounted in said top bar so as to project downwardly therethrough, comprising in combination, a sight aperture in said top bar located at one side of said screw, a segment of a cylinder, means for rotatably mounting said segment in said top bar behind said sight aperture, indicia on said segment arranged to be visible through said sight aperture, a tongue projecting from said segment, an aperture in said tongue, a circumferential groove located adjacent the end of said adjusting screw, and a connector comprising a circular portion engaged in said groove and a straight portion engaging said aperture in said tongue, whereby longitudinal movement of said screw is transmitted by said connector to rotate said segment causing particular indicia to appear at said aperture.

2,323,873
AIR CONDITIONING SYSTEM
William L. McGrath, Philadelphia, Pa., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application November 15, 1941, Serial No. 419,302
16 Claims. (Cl. 257—3)

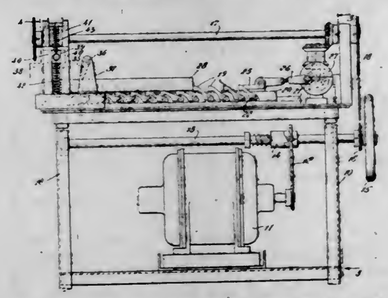


9. In apparatus of the character described, in combination, means for heating a fluid medium, means for cooling said medium, means for circulating said medium to a space, means comprising two three-way valves whereby the medium can be made to flow through either the cooling means or the heating means and in by-pass relation with the cooling and heating means, the valves controlling the proportion of medium by-passed, means responsive to temperature changing load requirements controlling said valves dependently on whether or not heating or cooling is necessary, means comprising a humidity responsive device for causing all the medium to go through the cooling means, and means for causing the flow of medium to be substantially stopped and started in response to temperature regulating requirements when all the medium goes through the cooling means.

2,323,874
COMPOSITION OF MATTER
Earle W. McMullen, Joplin, Mo., and Donald J. Doan, Cincinnati, Ohio, assignors to The Eagle-Picher Lead Company, Cincinnati, Ohio, a corporation of Ohio
No Drawing. Application May 23, 1940, Serial No. 336,892
2 Claims. (Cl. 252—270)

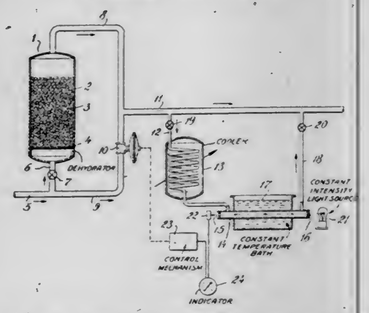
1. A new composition of matter consisting of a porous insoluble structure calcined at a temperature of approximately 1000° F. and consisting of zinc oxide 40 parts by weight, a porosity agent consisting of tripoli 25 parts by weight, bentonite 20 parts by weight in association with an inert material consisting of asbestos 15 parts by weight, and being adapted to permit hydrocarbon vapors to enter said structure and contact the zinc oxide associated therewith.

2,323,875
CUTTING MACHINE
George McNab, Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
Application January 28, 1942, Serial No. 428,573
2 Claims. (Cl. 25—107)



1. In a device of the class described, a frame, a pair of parallel pawl bars mounted on said frame for longitudinal reciprocation, means for reciprocating said pawl bars in synchronism, a plurality of pawls carried by each of said pawl bars and mounted thereon for oscillation about axes at right angles to the length of said bars, each of said pawls being spring urged to a raised position, means for guiding in a desired manner a cake of material resting on at least a portion of said pawls and thereby depressing the same, a knife at one end of said pawl bars mounted for vertical reciprocation on said frame and means for reciprocating said knife in synchronism with reciprocation of said pawl bars.

2,323,876
CONTROL METHOD AND APPARATUS
Henry A. Rickett, Riverside, R. I., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
Application May 31, 1941, Serial No. 395,970
2 Claims. (Cl. 196—4)



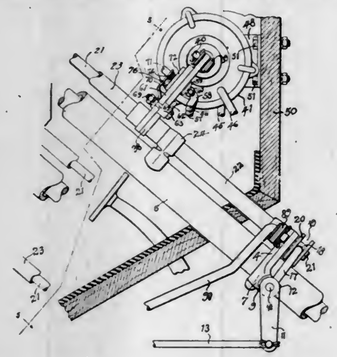
1. Apparatus for control of the degree of dehydration of an oil containing dissolved water comprising an agency capable of reducing the amount of dissolved water to a variable degree, a sight tube through which at least a portion of the dehydrated product from such agency is passed, a constant temperature bath surrounding said sight tube, means for holding said bath at a predetermined temperature, a constant intensity light source at one end of said sight tube, light-intensity responsive means at the other end of said sight tube, and means to control the variably operating dehydrating agency in response to the intensity of transmitted light at the predetermined temperature.

2,323,877
WETTING AND DISPERSION OF PIGMENTS
Forrest L. Turbett, Joplin, Mo., assignor to The Eagle-Picher Lead Company, Cincinnati, Ohio, a corporation of Ohio
No Drawing. Application June 3, 1941, Serial No. 396,433
3 Claims. (Cl. 106—309)

1. The method of manufacturing a paint product in which the pigment is in a very finely divided state in a liquid paint vehicle, which comprises mixing pigment with the vehicle forming a rough or partially wetted suspension of the pigment in the vehicle, then subjecting the rough or partially wetted suspension to an impacting force in the presence of a gaseous medium to form a gaseous suspension of finely sub-divided pigment particles in an envelope of vehicle, then finally breaking the latter suspension by removal of the gaseous medium whereby the pigment and vehicle coalesce.

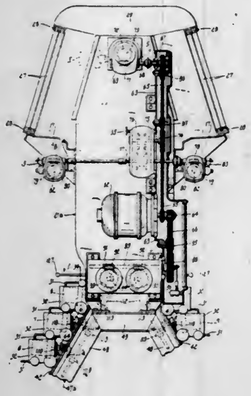
2,323,878
GEAR SHIFTING MECHANISM
Elmer G. Kesling, Bloomfield, Mo.
Application March 6, 1940, Serial No. 322,563
19 Claims. (Cl. 74—335)

1. Gear shifting mechanism of the character described comprising shifter elements, selector means for selecting the element to be shifted, a shaft, a second shaft, both of said shafts mounted for rocking movements only for shifting the selected element, means connecting said shafts for limited relative rotative movements, a manual means connected to said second shaft for manually operating said shafts, a power device, and



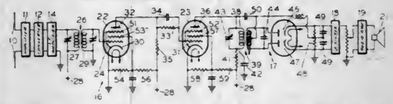
means mounted on said connecting means controlling said power device for assisting said manual means in operating said first named shaft.

2,323,879
APPARATUS FOR HANDLING THREAD OR THE LIKE
George P. Torrence, Shaker Heights, Richard F. Bergmann, Lakewood, and Walter F. Knebusch, Rocky River, Ohio, assignors to Industrial Rayon Corporation, Cleveland, Ohio, a corporation of Delaware
Application May 26, 1939, Serial No. 275,918
13 Claims. (Cl. 28—71.5)



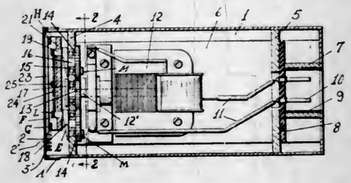
1. Apparatus for handling thread comprising a longitudinally extending frame structure; a longitudinally extending main drive shaft; a plurality of gear boxes mounted on the frame structure in which said main drive shaft is journalled; at least one stub shaft journalled in each of the gear boxes; gearing in said gear boxes for actuating the stub shafts from said main drive shaft; an intermediate drive shaft rotatably supported by said frame structure and coupled to each stub shaft; and a plurality of driven shafts journalled in said frame structure and operatively connected to each of said intermediate drive shafts, each of said driven shafts serving to rotate a thread-advancing thread store device.

2,323,880
WAVE AMPLITUDE LIMITING DEVICE
Chalon Wesley Carnahan, Oak Park, Ill., assignor to Zenith Radio Corporation, Chicago, Ill., a corporation of Illinois
Application December 26, 1940, Serial No. 371,606
26 Claims. (Cl. 250—20)



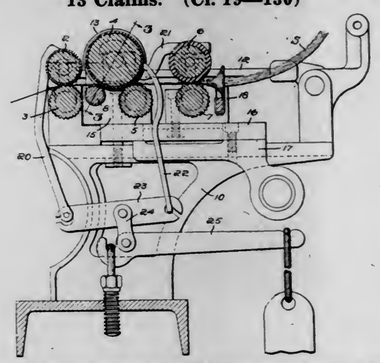
23. A wave amplitude limiting device for a signal transmission system comprising an electronic device, a screen grid tube, means associated with said device and with said tube for preventing one set of peaks of a supplied signal from reaching the anode thereof, a resistance and capacitance arranged in parallel, connected to the control grid of the screen grid tube and connected to the anode of said electronic device and to a source of high positive voltage, and means including said source of high positive voltage for rendering said control grid positive when the signal supplied thereto through said capacitance is inadequate, said resistance being such that the grid becomes negative in response to reception of a signal whose intensity is above a predetermined intensity.

2,323,881
SAFETY RAZOR
Fred J. Mehl, Wichita, Kans., assignor, by direct and mesne assignments, of thirty-seven and one-half per cent to Ulysses G. Charles, and twenty-five per cent to Guy C. Boling, both of Wichita, Kans.
Application March 31, 1941, Serial No. 385,996
14 Claims. (Cl. 30—43)



3. In a safety razor comprised of a casing with an apertured cap on one end thereof, said cap comprised of a straight rectangular portion and flanges to engage over the side walls of said casing, said straight portion being finely apertured over a major central portion of its surface and having slots parallel with the straight portion on opposite sides of the apertured major central portion, a plurality of straight elongated blades engaging the inner side of said apertured cap, a movable plate, and means to secure the blades to said movable plate.

2,323,882
DRAFTING MECHANISM FOR ROVING FRAMES
Benjamin C. Shaw, Saco, Maine, assignor to Saco-Lowell Shops, Boston, Mass., a corporation of Maine
Application April 24, 1941, Serial No. 390,089
13 Claims. (Cl. 19—130)

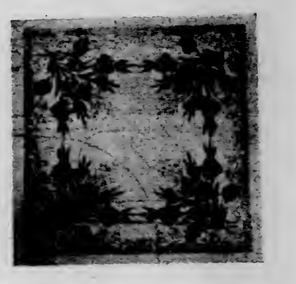


1. In a drafting mechanism for roving frames, the combination of a pair of top and bottom front rolls, a second pair of top and bottom rolls behind the front pair and driven at a slower speed than the first pair for gripping a sliver and feeding it toward the front rolls, weighting means for loading the second top roll to produce a firm bite between the rolls of said second pair, an intermediate bottom roll between said front and second bottom rolls cooperating with said second top roll to engage and compress the sliver without gripping it firmly as it is drawn forward between them by the front rolls, and means for maintaining said second top roll and said intermediate bottom roll spaced apart by a predetermined minimum distance, whereby a positive draft is produced between said first and second pairs of rolls and a slip control of the fibers is provided between said second top roll and said intermediate bottom roll.

DESIGNS

JULY 6, 1943

135,907
DESIGN FOR A TABLECLOTH OR SIMILAR ARTICLE
Charles I. Betesh, New York, N. Y.
Application April 28, 1943, Serial No. 110,069
Term of patent 3½ years



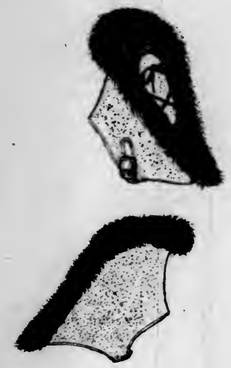
The ornamental design for a tablecloth or similar article, substantially as shown.

135,908
DESIGN FOR A TABLECLOTH OR SIMILAR ARTICLE
Charles I. Betesh, New York, N. Y.
Application April 28, 1943, Serial No. 110,071
Term of patent 3½ years



The ornamental design for a tablecloth or similar article, substantially as shown.

135,909
DESIGN FOR A SPAT
George H. Bingham, Jr., Lincoln, Mass., assignor to Cambridge Rubber Co., Cambridge, Mass., a corporation of Massachusetts
Application March 26, 1943, Serial No. 109,823
Term of patent 7 years



The ornamental design for a spat, substantially as shown.

135,910
DESIGN FOR A COAT
Nathan Finkelstein, New York, N. Y.
Application June 11, 1943, Serial No. 110,428
Term of patent 3½ years



The ornamental design for a coat, substantially as shown.

135,911
DESIGN FOR A SUIT
Abe Gruber, New York, N. Y.
Application June 7, 1943, Serial No. 110,390
Term of patent 3½ years



The ornamental design for a suit, substantially as shown.

135,912
DESIGN FOR A SUIT
Abe Gruber, New York, N. Y.
Application June 7, 1943, Serial No. 110,391
Term of patent 3½ years



The ornamental design for a suit, substantially as shown.

135,913
DESIGN FOR A COAT
Abe Gruber, New York, N. Y.
Application June 7, 1943, Serial No. 110,392
Term of patent 3½ years



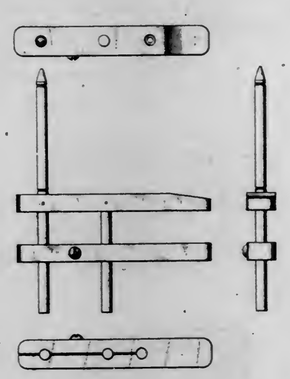
The ornamental design for a coat, substantially as shown.

135,914
DESIGN FOR A RUG OR SIMILAR ARTICLE
Max Sadinoff, Bronx, N. Y.
Application September 19, 1942, Serial No. 108,279
Term of patent 14 years



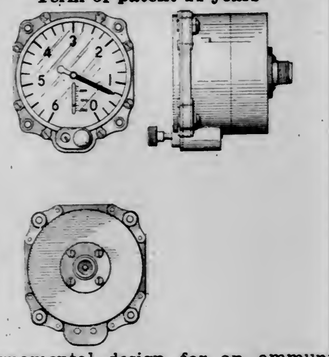
The ornamental design for a rug or similar article, as shown and described.

135,915
DESIGN FOR A SUPPORT FOR A TABLE TENNIS NET
Philip C. P. Booty, Chicago, Ill.
Application February 1, 1943. Serial No. 109,401
Term of patent 7 years



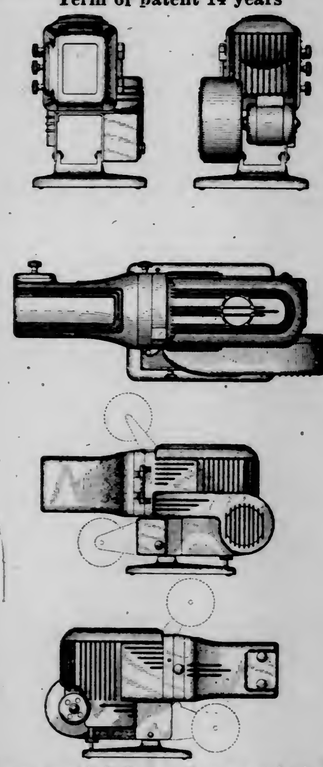
The ornamental design for a support for a table tennis net, substantially as shown.

135,916
DESIGN FOR AN AMMUNITION ROUNDS INDICATOR
William H. Huenergardt, Chicago, Ill.
Application March 10, 1943, Serial No. 109,710
Term of patent 14 years



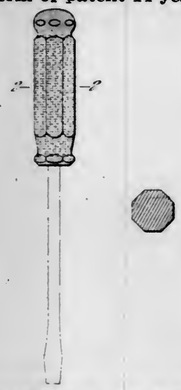
The ornamental design for an ammunition rounds indicator, substantially as shown.

135,917
DESIGN FOR A PROJECTOR HOUSING
William A. Lebus, Chicago, Ill., assignor to Prismacolor, Inc., Chicago, Ill., a corporation of Illinois
Application November 9, 1942, Serial No. 108,725
Term of patent 14 years



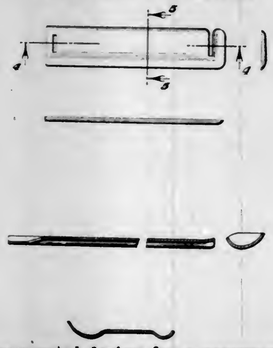
The ornamental design for a projector housing, as shown.

135,918
DESIGN FOR A SCREW DRIVER OR SIMILAR ARTICLE
Beverly Magee, Agawam, Mass.
Application April 23, 1943, Serial No. 110,021
Term of patent 14 years



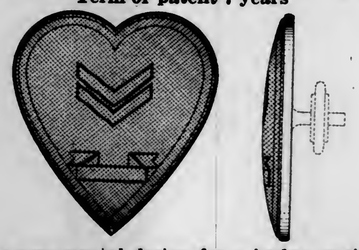
The ornamental design for a screw driver or similar article, as shown and described.

135,919
DESIGN FOR A COMPRESSOR MEMBER FOR A PAPER FASTENER
Clarence W. Morse, Santa Monica, Calif.
Application March 13, 1943, Serial No. 109,746
Term of patent 14 years



The ornamental design for a compressor member for a paper fastener, substantially as shown.

135,920
DESIGN FOR A BADGE OR SIMILAR ARTICLE
James D. Siderelis, Astoria, N. Y.
Application May 18, 1943, Serial No. 110,230
Term of patent 7 years



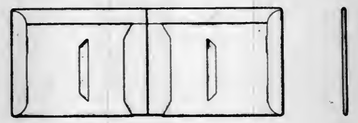
The ornamental design for a badge or similar article, substantially as shown.

135,921
DESIGN FOR A RAZOR BLADE
Joseph Rene Ayotte, Chicago, Ill.
Application June 22, 1942, Serial No. 107,292
Term of patent 14 years



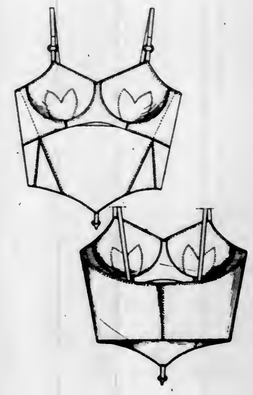
The ornamental design for a razor blade, as shown.

135,922
DESIGN FOR A BILLFOLD
Joseph C. Davio, Agawam, Mass.
Application May 26, 1942, Serial No. 107,012
Term of patent 14 years



The ornamental design for a billfold, substantially as shown and described.

135,923
DESIGN FOR A BRASSIÈRE OR SIMILAR ARTICLE
Lilyan Malmstead, New York, N. Y.
Application February 17, 1943, Serial No. 109,563
Term of patent 7 years



The ornamental design for a brassière or similar article, substantially as shown.

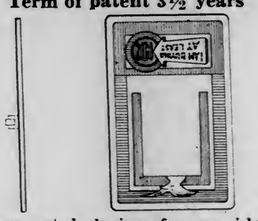
552 O. G.—12

135,924
DESIGN FOR A COMPACT OR SIMILAR ARTICLE
Harry Morris, Chicago, Ill.
Application April 5, 1943, Serial No. 109,905
Term of patent 14 years



The ornamental design for a compact or similar article, substantially as shown.

135,925
DESIGN FOR AN IDENTIFICATION BADGE
Lawrence Dell Schibsby and Blasito Bronzan, Los Angeles, Calif.; said Bronzan assignor to said Schibsby
Application September 19, 1942, Serial No. 108,276
Term of patent 3½ years



The ornamental design for an identification badge, as shown.

135,926
DESIGN FOR A COMBINATION COMB, BRUSH, AND MIRROR
Dawson W. Spurgeon, Salem, Ind.
Application May 5, 1943, Serial No. 110,129
Term of patent 7 years



The ornamental design for a combination comb, brush, and mirror, as shown.

135,927
DESIGN FOR A PANTY GIRDLE
Zoma A. Stephens, Minneapolis, Minn., assignor to Munsingwear, Inc., Minneapolis, Minn., a corporation of Delaware
Application March 29, 1943, Serial No. 109,855
Term of patent 14 years



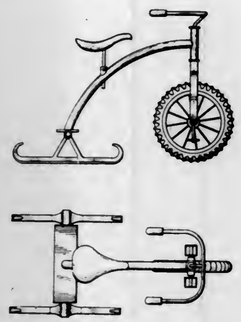
The ornamental design for a panty girdle, substantially as shown.

135,928
DESIGN FOR A PANTY GIRDLE
Zoma A. Stephens, Minneapolis, Minn., assignor to Munsingwear, Inc., Minneapolis, Minn., a corporation of Delaware
Application March 29, 1943, Serial No. 109,856
Term of patent 14 years



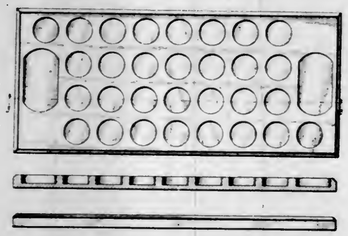
The ornamental design for a panty girdle, substantially as shown.

135,929
DESIGN FOR A CONVERTIBLE TRICYCLE
Joseph Woginrich, Walnutport, Pa.
Application March 26, 1943, Serial No. 109,827
Term of patent 14 years



The ornamental design for a convertible tricycle, as shown.

135,930
DESIGN FOR A GAME BOARD
Ralph C. Cobb, Los Angeles, Calif.
Application February 11, 1943, Serial No. 109,526
Term of patent 14 years



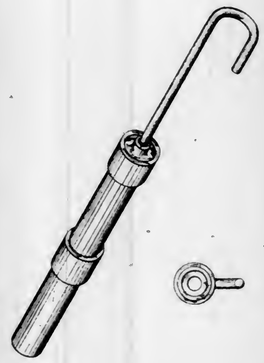
The ornamental design for a game board, as shown.

135,931
DESIGN FOR A STATUETTE
Walter Frisch, Brooklyn, N. Y.
Application May 22, 1943, Serial No. 110,259
Term of patent 7 years



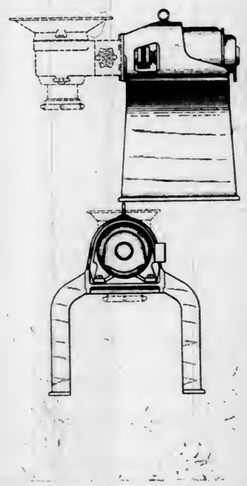
The ornamental design for a statuette, substantially as shown.

135,932
DESIGN FOR A TROLLEY WIRE FEEDER TAP
Albert H. Genter, Mount Lebanon Township, Allegheny County, Pa.
Application March 13, 1943, Serial No. 109,752
Term of patent 14 years



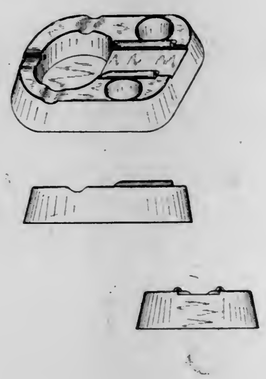
The ornamental design for a trolley wire feeder tap, as shown.

135,933
DESIGN FOR A MEAT GRINDER
Alexander F. Kaptuller, Chicago, Ill.
Application June 8, 1942, Serial No. 107,155
Term of patent 14 years



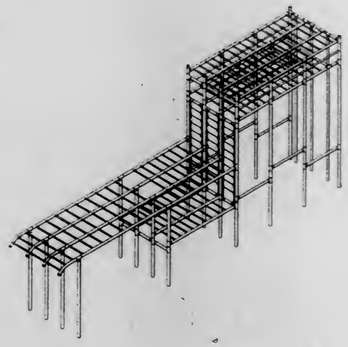
The ornamental design for a meat grinder, substantially as shown and described.

135,934
DESIGN FOR A COMBINED ASH TRAY AND SAFETY MATCH HOLDER
Michael Mayer, Cleveland, Ohio
Application April 16, 1943, Serial No. 109,981
Term of patent 14 years



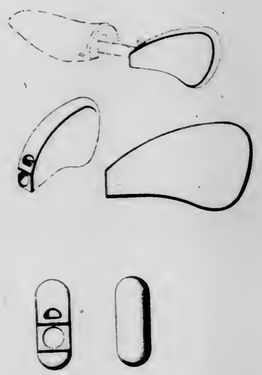
The ornamental design for a combined ash tray and safety match holder, substantially as shown.

135,935
DESIGN FOR A FRAMEWORK FOR PHYSICAL AND RECREATIONAL TRAINING
Warren P. Miller, Anderson, Ind.
Application May 5, 1943, Serial No. 110,130
Term of patent 14 years



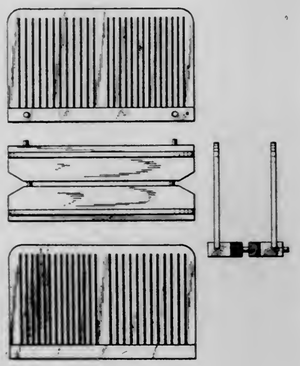
The ornamental design for a framework for physical and recreational training, as shown.

135,936
DESIGN FOR A SHOE TREE
James B. Mutch, Rochester, N. Y., assignor to Schelter Last Co., Inc., Rochester, N. Y., a corporation of New York
Application April 3, 1943, Serial No. 109,896
Term of patent 14 years



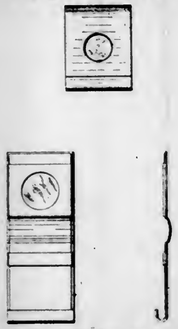
The ornamental design for a shoe tree, as shown and described.

135,937
DESIGN FOR A BREAD SLICING BOARD
Ruel J. Richardson and John Terpstra, Lynwood, Calif.
Application February 22, 1943, Serial No. 109,606
Term of patent 3½ years



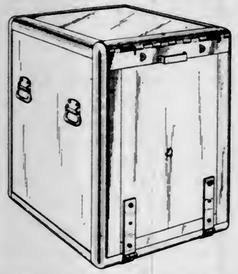
The ornamental design for a bread slicing board, as shown.

135,938
DESIGN FOR A COMBINED PHOTO AND MATCH BOOK COVER
Samuel Altman and Frank Silverstein, New York, N. Y.
Application April 1, 1943, Serial No. 109,882
Term of patent 7 years



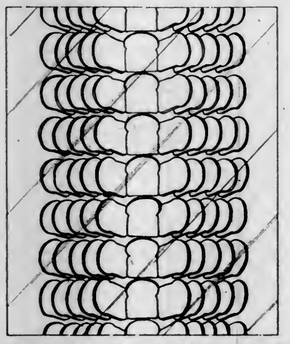
The ornamental design for a combined photo and match book cover, substantially as shown.

135,939
DESIGN FOR A MOTOR GENERATOR SET CABINET
Edwin C. Worthley, Minneapolis, Minn.
Application March 24, 1943, Serial No. 109,814
Term of patent 14 years



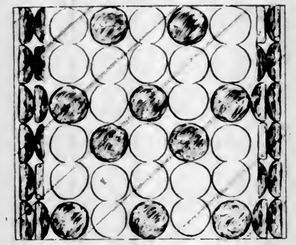
The ornamental design for a motor generator set cabinet, as shown and described.

135,940
DESIGN FOR WRAPPING PAPER
John W. Elder, Dayton, Ohio
Application April 24, 1943, Serial No. 110,036
Term of patent 14 years



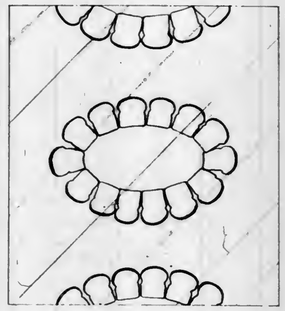
The ornamental design for wrapping paper, as shown.

135,941
DESIGN FOR WRAPPING PAPER
John W. Elder, Dayton, Ohio
Application April 24, 1943, Serial No. 110,037
Term of patent 14 years



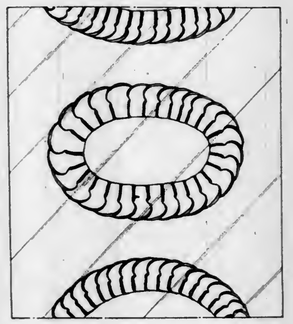
The ornamental design for wrapping paper, as shown.

135,942
DESIGN FOR WRAPPING PAPER
John W. Elder, Dayton, Ohio
Application April 24, 1943, Serial No. 110,038
Term of patent 14 years



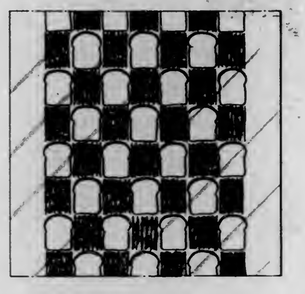
The ornamental design for wrapping paper, as shown.

135,943
DESIGN FOR WRAPPING PAPER
John W. Elder, Dayton, Ohio
Application April 24, 1943, Serial No. 110,039
Term of patent 14 years



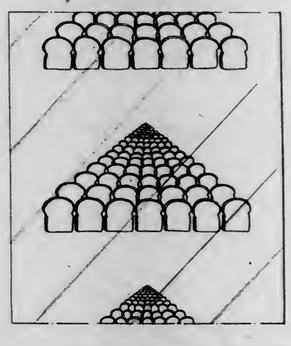
The ornamental design for wrapping paper, as shown.

135,944
DESIGN FOR WRAPPING PAPER
John W. Elder, Dayton, Ohio
Application April 24, 1943, Serial No. 110,040
Term of patent 14 years



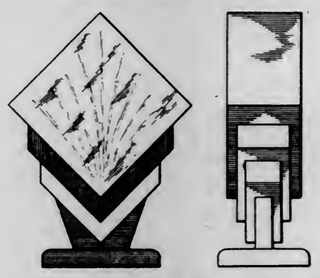
The ornamental design for wrapping paper, as shown.

135,945
DESIGN FOR WRAPPING PAPER
John W. Elder, Dayton, Ohio
Application April 24, 1943, Serial No. 110,041
Term of patent 14 years



The ornamental design for wrapping paper, as shown.

135,946
DESIGN FOR A LAMP
Paul S. Keeler, Reading, Pa.
Application March 23, 1942, Serial No. 106,289
Term of patent 3½ years



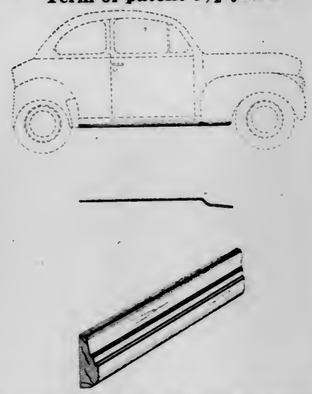
The ornamental design for a lamp, as shown.

135,947
DESIGN FOR A STOCKING
Roy E. Tilles, New Rochelle, N. Y.
Application September 25, 1942, Serial No. 108,334
Term of patent 3½ years



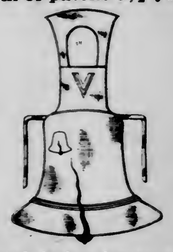
The ornamental design for a stocking, as shown.

135,948
DESIGN FOR AN AUTOMOBILE BODY TRIM MOLDING STRIP
Lester P. Caplan, St. Louis, Mo.
Application May 15, 1943, Serial No. 110,215
Term of patent 3½ years



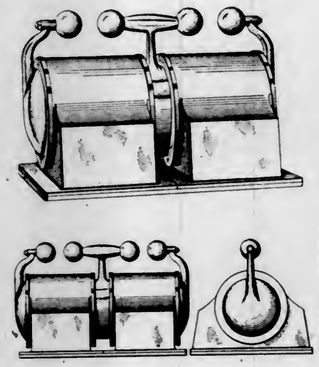
The ornamental design for an automobile body trim molding strip, substantially as shown and described.

135,949
DESIGN FOR AN APRON
Guss Martin, Bloomington, Ind.
Application May 24, 1943, Serial No. 110,268
Term of patent 3½ years



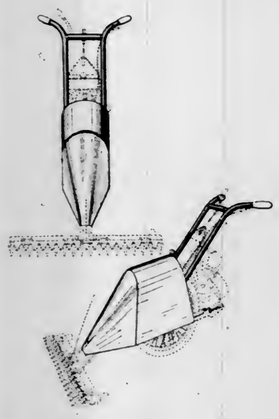
The ornamental design for an apron, as shown.

135,950
DESIGN FOR A TRIPLE HANDLE CONTROLLER
Erwin J. Panish, Bridgeport, Conn.
Application April 28, 1943, Serial No. 110,065
Term of patent 14 years



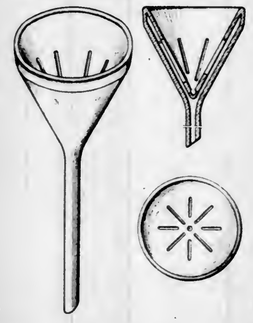
The ornamental design for a triple handle controller, as shown.

135,951
DESIGN FOR A LAWN MOWER
Jacob A. Ronning, Minneapolis, Minn.
Application April 29, 1942, Serial No. 106,740
Term of patent 14 years



The ornamental design for a lawn mower, as shown and described.

135,952
DESIGN FOR A COMBINED FUNNEL AND FILTER HOLDER
William B. Warren, Mount Lebanon, Pa., assignor to Fisher Scientific Company, Pittsburgh, Pa.
Application October 29, 1941, Serial No. 103,936
Term of patent 14 years



The ornamental design for a combined funnel and filter holder, substantially as shown and described.

135,953
DESIGN FOR A PHONOGRAPH NEEDLE
Fred E. Williamson, Chicago, Ill.
Application October 31, 1942, Serial No. 108,656
Term of patent 14 years



The ornamental design for a phonograph needle, substantially as shown.

135,954
DESIGN FOR A DRESS
Samuel Zahn, New York, N. Y.
Application June 11, 1943, Serial No. 110,426
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

135,955
DESIGN FOR A DRESS
Samuel Zahn, New York, N. Y.
Application June 11, 1943, Serial No. 110,427
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

American Brake Shoe and Foundry Company, The, New York, N. Y. Vehicle wheels and truck caster wheels. Serial No. 459,721; July 6. Class 19.

American Cyanamid Company, New York, N. Y. Synthetic resins and compositions thereof. Serial No. 459,038; July 6. Class 1.

American Cyanamid Company, New York, N. Y. Condensation products of aldehydes and amines. Serial No. 459,039; July 6. Class 1.

American Cyanamid Company, New York, N. Y. Condensation products of aldehydes. Serial No. 459,040; July 6. Class 1.

American Tool Products, Inc., Los Angeles, Calif. Bucking bars, rivet sets, dimpling sets, etc. Serial No. 455,698; July 6. Class 23.

American Window Glass Company, Pittsburgh, Pa. Sheet glass. Serial No. 459,458; July 6. Class 33.

Babani, Maurice, New York, N. Y. Perfumes, toilet waters, eau de cologne, etc. Serial No. 454,710; July 6. Class 6.

Boehm, Fredk., Limited, Beaconsfield, England. Yeast extract. Serial No. 454,596; July 6. Class 46.

Brody, Benjamin R., New York, N. Y. Toilet water, eau de cologne, tooth powder, mouth wash, etc. Serial No. 442,625; July 6. Class 6.

Brown & Williamson Tobacco Corporation, Louisville, Ky. Cigarette paper and cigarette paper booklets. Serial No. 459,019; July 6. Class 8.

Bugler Brand and Agencies Limited, Vancouver, Canada. Candy. Serial No. 458,386; July 6. Class 46.

California Olive Packers, Incorporated, Corning, Calif. Olives. Serial No. 460,417; July 6. Class 46.

Campana Corporation, Batavia, Ill. Make-up preparation. Serial No. 459,918; July 6. Class 6.

Cannon Mills Company, Kannapolis, N. C. Sheets and pillow cases. Serial No. 459,981; July 6. Class 42.

Carborundum Company, The, Niagara Falls, N. Y. Abrasive and polishing material in the form of sheets, strips, sleeves, etc. Serial No. 459,400; July 6. Class 4.

Chambon Products Limited, London, England. Cigarette papers and booklets of cigarette papers. Serial No. 458,171; July 6. Class 8.

Coralite Dental Products Company, Chicago, Ill. Dental repair compound of methacrylate composition. Serial No. 460,442; July 6. Class 44.

Cordell Hosiery Corporation, Greensboro, N. C. Hosiery. Serial No. 459,401; July 6. Class 39.

Cross, Mark, Company, New York, N. Y. Traveling bags. Serial No. 460,652; July 6. Class 3.

Crown Overall Mfg. Company, The, Cincinnati, Ohio. Clothing. Serial No. 458,472; July 6. Class 39.

Fair Play Caramels, Inc., Johnson City, N. Y. Candy. Serial No. 460,141; July 6. Class 46.

Gauthier, Pascasio, doing business as The Viko Company, assignor to Viko Inc., New York, N. Y. Prepared compounds of nutritive substances. Serial No. 458,267; July 6. Class 46.

General Aniline & Film Corporation, New York, N. Y. Artificial resin polymers. Serial No. 460,108; July 6. Class 1.

General Dyestuff Corporation, New York, N. Y. Dyes and dyestuffs. Serial Nos. 460,144–8; July 6. Class 6.

Glascote Products, Inc., Cleveland, Ohio. Motor vehicle bodies. Serial No. 459,003; July 6. Class 19.

Guise, Charles A., doing business as Ivanhoe Remedy Co., Columbus, Ohio. Salve. Serial No. 458,473; July 6. Class 6.

Harrison, Monroe, Chicago, Ill. Non-alcoholic maltless fruit juices and fruit concentrates. Serial No. 456,120; July 6. Class 45.

Haviland Laboratories, Inc., New York, N. Y. Perfumes, toilet water, bath oil, etc. Serial Nos. 460,600–1; July 6. Class 6.

Hoyland Steel Company, Incorporated, New York, N. Y. Tool steel. Serial No. 459,876; July 6. Class 14.

Hoyland Steel Company, Incorporated, New York, N. Y. Tool steel. Serial No. 460,110; July 6. Class 14.

International Nickel Company, Inc., The, New York, N. Y. Nickel containing alloys. Serial No. 459,518; July 6. Class 14.

International Nickel Company, Inc., The, New York, N. Y. Nickel in the form of blooms, billets, slabs, etc. Serial No. 459,520; July 6. Class 14.

Ireland, John W., doing business as Zoo Rub Products Company, Detroit, Mich. Preparation to be used externally as a liniment and rub. Serial No. 460,368; July 6. Class 6.

Ivanhoe Remedy Co. (See Guise, Charles A.)

Jahn & Ollier Engraving Company, Chicago, Ill. Engraved printing plates. Serial No. 453,778; July 6. Class 50.

Jiffy-Join Incorporated, New York, N. Y. Fastening devices. Serial No. 442,415; July 6. Class 32.

Karelsen, Jacques F., New York, N. Y. Industrial diamond tools. Serial No. 460,616; July 6. Class 23.

Levy, Charles H., Co. Inc., New Orleans, La. Cravats. Serial No. 460,405; July 6. Class 39.

Macy, R. H., & Co., Inc., New York, N. Y. Leg tinting lotion. Serial No. 460,377; July 6. Class 6.

Magitex Company, Inc., Saco, Maine. Dog repellents. Serial No. 458,476; July 6. Class 6.

Mandel, Robert A., doing business as Ram Dental Products Co., Brooklyn, N. Y. Dental appliances. Serial No. 460,802; July 6. Class 44.

Miller, Samuel D., Toledo, Ohio. Partially blank mailing cards. Serial No. 459,939; July 6. Class 37.

Morris, Morris, doing business as United Chemical Works, Chicago, Ill. Fur cleaning compounds. Serial No. 459,632; July 6. Class 4.

Nale, Daniel C., Detroit, Mich. Preparation for use in the treatment of muscular aches and pains. Serial No. 460,507; July 6. Class 6.

Nancy Ann Dressed Dolls, Inc., assignor to Nancy Ann Dressed Dolls, San Francisco, Calif. Dolls and dolls' clothes. Serial Nos. 459,423–39; July 6. Class 22.

Nancy Ann Dressed Dolls, Inc., assignor to Nancy Ann Dressed Dolls, San Francisco, Calif. Dolls and dolls' clothes. Serial No. 459,482–94; July 6. Class 22.

National Gypsum Company, Buffalo, N. Y. Wallboard, plasterboard, sheathing and plaster. Serial No. 455,985; July 6. Class 12.

National Maritime Union of America, New York, N. Y. Weekly publication. Serial No. 460,429; July 6. Class 38.

New England Collapsible Tube Co., New London, Conn. Special alloy collapsible tubes. Serial No. 459,759; July 6. Class 2.

Norwich Pharmacal Company, The, Norwich, N. Y. Antiseptics and germicides. Serial No. 460,062; July 6. Class 6.

Nyal Company, Detroit, Mich. Digestive enzyme. Serial Nos. 460,380–1; July 6. Class 6.

Ohio Truss Company, The, Cincinnati, Ohio. Surgical belts. Serial No. 460,606; July 6. Class 44.

Oris Watch Co. Ltd., Holstein, Switzerland. Watches and clocks and parts of watches and clocks. Serial No. 460,216; July 6. Class 27.

Oris Watch Co. Ltd., Holstein, Switzerland. Watches and clocks and parts of watches and clocks. Serial No. 460,219; July 6. Class 27.

Parfums Charbert, Inc., New York, N. Y. Perfumes, toilet waters, sachets, eau de colognes, etc. Serial No. 459,028; July 6. Class 6.

Parr, George R., Pompton Plains, N. J. Colloidal plastic. Serial No. 450,609; July 6. Class 50.

Quality Fruit Wines Corporation, Yonkers, N. Y. Wines. Serial No. 460,711; July 6. Class 47.

Ram Dental Products Co. (See Mandel, Robert A.)

Reliable Stores Corporation, Baltimore, Md. Ladies' dresses, coats, and suits, etc. Serial No. 457,156; July 6. Class 39.

Riegel Paper Corporation, Riegelsville, N. J., and New York, N. Y. Imitation glassine paper. Serial No. 458,744; July 6. Class 37.

Rubin, Samuel, New York, N. Y. Perfumes, toilet waters, cosmetics, etc. Serial No. 454,272; July 6. Class 6.

Russell-Newman Manufacturing Company, Denton, Tex. Women's and children's panties, vests, bloomers, etc. Serial No. 459,911; July 6. Class 39.

S. & E. Novelty Co., Inc., New York, N. Y. Veilings and netting in the piece. Serial No. 460,072; July 6. Class 42.

S. M. A. Corporation, Chicago, Ill. Vitamin and mineral preparations. Serial No. 459,888; July 6. Class 6.

St. James Wines Inc., New York, N. Y. Wines. Serial No. 460,437; July 6. Class 47.

Schenley Import Corporation, New York, N. Y. Wines. Serial No. 459,153; July 6. Class 47.

Schmid, Julius, Inc., New York, N. Y. Nipples. Serial No. 457,190; July 6. Class 44.

Society Club Hats Corp., New York, N. Y. Men's hats. Serial No. 460,008; July 6. Class 39.

Standard Brands Incorporated, New York, N. Y. Food seasoning. Serial No. 460,635; July 6. Class 46.

Standard Oil Company of Louisiana, East Baton Rouge, La. Synthetic rubber. Serial No. 460,312; July 6. Class 1.

Svenska, Diamantbergborrnings Aktiebolaget, Stockholm, Sweden. Grinding wheels and grinding discs. Serial No. 454,044; July 6. Class 4.

Svenska Diamantbergborrnings Aktiebolaget, Stockholm, Sweden. Machines and tools for rock and earth drilling, pumps, cement injectors, etc. Serial No. 454,045; July 6. Class 23.

Turco Products, Inc., Los Angeles, Calif. Cleaning compound. Serial No. 459,322; July 6. Class 4.

United Chemical Company, Inc., Kansas City, Mo. Liquid for cleaning and bleaching marble, tile, porcelain, etc. Serial No. 454,588; July 6. Class 4.
United Chemical Works. (See Morris, Morris.)
United Gilsonite Laboratories, Scranton, Pa. Roof cement, liquid asphalt, and asbestos roofing. Serial No. 459,447; July 6. Class 12.
United Gilsonite Laboratories, Scranton, Pa. Roof cement and liquid asphalt, and asbestos roofing. Serial No. 459,450; July 6. Class 12.
United Gilsonite Laboratories, Scranton, Pa. Patching plaster, spachtling compound, crack filler, etc. Serial Nos. 459,452–3; July 6. Class 12.
Vegex Corporation, New York, N. Y. Concentrated dry gravy composition. Serial No. 460,638; July 6. Class 46.
Viko Company, The. (See Gauthier, Pascasio.)
Viko Inc. (See Gauthier, Pascasio, assignor.)
White Laboratories, Inc., Newark, N. J. Insufflator tubes. Serial No. 460,165; July 6. Class 6.
Wissner Pianos Inc., Brooklyn, N. Y. Pianos. Serial No. 460,246; July 6. Class 36.
Wornova Mfg. Co. Inc., New York, N. Y. Children's playsuits and rompers, jumpers, etc. Serial No. 460,227; July 6. Class 39.
Zoo Rub Products Company. (See Ireland, John W.)

LIST OF REGISTRANTS OF TRADE-MARKS

Actien-Gesellschaft für Anilinfabrikation, Berlin, Germany assignor to General Dyestuff Corporation, New York, N. Y. Preparation for protecting animal substances. 169,799; renewed July 3, 1943.
Ada Milling Company, Ada, Okla. Stock and cattle feed. 402,196; July 6; Serial No. 458,775; published Apr. 27, 1943. Class 46.
Addressograph-Multigraph Corporation, Cleveland, Ohio. Planographic printing plates. 402,219; July 6. Class 50.
Adler & Adler, Inc., New York, N. Y. Ladies' and misses' dresses, suits, and coats. 402,211; July 6. Class 39.
Albers Milling Company, Portland, Oreg. Small dog and cat food. 402,178; July 6; Serial No. 457,800; published Apr. 27, 1943. Class 46.
Allied Millinery Company, Inc., New York, N. Y. Women's, misses', and children's hats. 402,220; July 6. Class 39.
Allied Mills, Inc., Chicago, Ill. Poultry feeds. 402,198; July 6; Serial No. 458,829; published Apr. 27, 1943. Class 46.
Al-Lon Manufacturing Company, Inc., Baltimore, Md. Shoe bags, clothes protectors, and clothespin aprons. 175,887; renewed Nov. 13, 1943.
Anaconda Copper Mining Company, New York, N. Y. Brass and copper tubes, low brass and copper seamless tubes, etc. 175,024; renewed Oct. 30, 1943.
Anaconda Copper Mining Company, New York, N. Y. Finished commutator segments, copper bars and strips, etc. 175,025; renewed Oct. 30, 1943.
Anaconda Copper Mining Company, New York, N. Y. Finished commutator segments, copper bars, and strips, etc. 175,109; renewed Oct. 30, 1943.
Angelica Jacket Company, St. Louis, Mo. Women's and girls' wearing apparent. 402,221; July 6. Class 39.
Anticich Canning and Packing Company, Inc. (See Biloxi Packing & Trading Co., assignor.)
Arbuckle Brothers, assignor to General Foods Corporation, New York, N. Y. Coffee. 172,069; renewed Aug. 21, 1943.
Archer Hosiery Mills, Columbus, Ga. Hosiery. 402,231; July 6. Class 39.
Associated Lerner Shops of America, Inc., New York, N. Y. Ladies' fur coats. 402,209; July 6. Class 39.
Associated Merchandising Corporation, Newark, N. J., and New York, assignor to Associated Merchandising Corporation, New York, N. Y. Women's dresses and hosiery. 175,964; renewed Nov. 13, 1943.
Baker Engineers. (See Baker, M., Jr.)
Baker, Michael, Jr., doing business as Baker Engineers, Rochester, Pa. News letters. 402,176; July 6; Serial No. 457,431; published Apr. 27, 1943. Class 38.
Bassick Company, The, Bridgeport, Conn. Hood catches, hood-catch brackets, hood handles, etc. 175,377; renewed Nov. 6, 1943.
Bick, Harry S., doing business as Kramer & Bick, New York, N. Y. Jewelry. 402,172; July 6; Serial No. 455,699; published Apr. 27, 1943. Class 28.
Biloxi Packing & Trading Co., assignor, by mesne assignments, to The Anticich Canning and Packing Company, Inc., Biloxi, Miss. Canned shrimp and canned oysters. 175,394; renewed Nov. 6, 1943.
Bonzette Foundations Inc., New York, N. Y. Brassières. 402,225; July 6. Class 39.
Boonville Manufacturing Corp., Boonville, N. Y. Paper gaskets. 402,199; July 6; Serial No. 458,905; published Apr. 27, 1943. Class 35.
Borden Company, The. (See Marty, Carl, and Company, assignor.)
Bruno of Holywood, New York, N. Y. Photographs and pictures. 402,226; July 6. Class 38.
Campbell, John B., Philadelphia, Pa. Water wheels. 176,043; renewed Nov. 13, 1943.
Canfield Rubber Company, The, Bridgeport, Conn. Dress shields. 172,290; renewed Aug. 28, 1943.
Chicago Flexible Shaft Company, Chicago, Ill. Furnaces. 402,174; July 6; Serial No. 456,585; published Apr. 27, 1943. Class 34.
Classy Jean Dresses, Inc., St. Louis, Mo. Ladies' and misses wearing apparel. 402,212; July 6. Class 39.
Coats, J. & P., (R. I.) Inc., Pawtucket, R. I. Thread and yarn. 175,166; renewed Oct. 30, 1943.
Colgate & Company, assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J. Soap for shaving. 175,899; renewed Nov. 13, 1943.
Colgate-Palmolive-Peet Company. (See Colgate & Company, assignor.)
Colloidal Laboratories. (See Novack, Harry J.)
Compo Shoe Machinery Corporation, Boston, Mass. Shoe machinery and parts therefor. 402,235; July 6. Class 23.
Continental Roofing & Manufacturing Co., The, Highlandtown, Baltimore, Md., assignor, by mesne assignments, to The Ruberoid Co., Bound Brook, N. J., and New York, N. Y. Asphalt roofing. 175,876; renewed Nov. 13, 1943.
Continental Roofing & Manufacturing Co., The, Highlandtown, Baltimore, Md., assignor, by mesne assignments, to The Ruberoid Co., Bound Brook, N. J., and New York, N. Y. Green mineral-surfaced roofing. 175,923; renewed Nov. 13, 1943.
Continental Roofing & Manufacturing Co., The, Highlandtown, Baltimore, Md., assignor, by mesne assignments, to The Ruberoid Co., Bound Brook, N. J., and New York, N. Y. Roofing material. 185,877; renewed Nov. 13, 1943.
Copeland, George H., doing business as Copeland Features, Kew Gardens, Long Island, N. Y. Comic strips. 402,181; July 6; Serial No. 458,062; published Apr. 20, 1943. Class 38.
Crown Rubber Company, Los Angeles, Calif. Sheath prophylactics. 402,155; July 6; Serial No. 418,566; published June 6, 1939. Class 44.
Cudahy Packing Company, The, Chicago, Ill. Radio scripts. 402,164; July 6; Serial No. 451,297; published Apr. 27, 1943. Class 38.
Dean-Jones Manufacturing Co., Kansas City, Mo. Women's sport clothing. 402,222; July 6. Class 39.
Dostal, George A., New York, N. Y. Magnifier apparatus. 402,188; July 6; Serial No. 458,328; published Apr. 27, 1943. Class 26.
Du Pont, E. I., de Nemours and Company, Wilmington, Del. Pyroxylin, nitrocellulose, pyroxylin and artificial ivory. 169,039; renewed June 5, 1943.
Eastern Footwear Corporation, Dolgeville, N. Y. 402,157; July 6; Serial No. 442,413; published June 23, 1942. Class 39.
Eisner, Paul V., & Co., New York, N. Y. Watches and clocks. 402,192; July 6; Serial No. 458,567; published Apr. 27, 1943. Class 27.
Empire Soap Company, Inc., New York, N. Y., assignor, by mesne assignments, to The Procter & Gamble Company, Cincinnati, Ohio. Toilet soap. 175,900–1; renewed Nov. 13, 1943.
Esseneff Company. (See Smith, J. Jay.)
Expanded Metal Engineering Company, New York, N. Y. Metal lath and metal corner beads. 167,722; renewed May 8, 1943.
Famous-Barr Company. (See May Department Stores Company, The.)
Farbenfabriken vorm. Friedr. Bayer & Co., Leverkusen, near Cologne-on-the-Rhine, Germany, assignor to General Dyestuff Corporation, New York, N. Y. Composition for exterminating moths. 170,038; renewed July 10, 1943.
Farber Brothers, New York, N. Y. Silver-plated hollow ware. 175,868; renewed Nov. 13, 1943.
Fawcett Publications, Inc., Greenwich, Conn. Periodical. 402,167; July 6; Serial No. 454,168; published Sept. 1, 1942. Class 38.
Filippone, B., & Co., Inc., doing business as La Perla Food Products Co., Passaic, N. J. Wheat flour, olive oil, and spaghetti. 402,210; July 6. Class 46.
Food Research Distributing Corporation, Chicago, Ill. Preparation of roasted cereal and vegetable substances. 402,194; July 6; Serial No. 458,756; published Apr. 27, 1943. Class 46.
Fry Bros. Company, The, Cincinnati, Ohio. Laundry bags of net material. 175,920; renewed Nov. 13, 1943.
Gadgets, Inc., New York, N. Y. Infants' and children's sleeping, feeding, and lounging robes. 402,228; July 6. Class 39.
Garber Eagle Oil Corporation, Brooklyn, N. Y. Peanut oil. 402,229; July 6. Class 46.
Garis, Howard R. (See Wish, Fred A., Incorporated, assignor.)

General Dyestuff Corporation. (See Actien-Gesellscraft fur Anilinfabrikation, assignor.)
General Dyestuff Corporation. (See Farbenfabriken vorm. Friedr. Bayer & Co., assignor.)
General Dyestuff Corporation. (See Grasselli Chemical Company, The, assignor.)
General Foods Corporation. (See Arbuckle Brothers, assignor.)
General Foods Corporation. (See Genesee Pure Food Company, The, assignor.)
General Foods Corporation. (See Postum Cereal Company.)
General Foods Corporation. (See Societe Anonyme Fabriques de Produits de Chimie Organique de Laire, assignor.)
General Seafoods Corporation. (See Whitman, Ward & Lee Co., assignor.)
General Tire & Rubber Company, The, Akron, Ohio. Molded rubber goods. 402,156; July 6; Serial No. 426,291; published Apr. 27, 1943. Class 50.
Genesee Pure Food Company, The, Le Roy, assignor, by mesne assignments, to General Foods Corporation, New York, N. Y. Compound for use in the preparation of jellies, desserts, and pastries. 175,564; renewed Nov. 6, 1943.
Goodyear Tire & Rubber Company, The, Akron, Ohio. Airships, spherical balloons, kites, etc. 174,449; renewed Oct. 16, 1943.
Gordon Maid Skirt Co. Inc., Boston, Mass. Women's skirts. 402,205; July 6. Class 39.
Granite Cordage Company, Granite Falls and Hickory, to Granite Cordage Company, Hickory, N. C. Cords, twines, ropes, and fiber material. 175,873; renewed Nov. 13, 1943.
Grant, W. T., Company, New York, N. Y. Misses' slips. 402,207; July 6. Class 39.
Grasselli Chemical Company, The, assignor, by mesne assignments, to General Dyestuff Corporation, New York, N. Y. Dyes and dyestuffs. 169,838–9; renewed July 3, 1943.
Gross-Greenberger, New York, N. Y. Ladies' coats and suits. 402,230; July 6. Class 39.
Grossman, I., & Son, Inc., New York, N. Y. Misses' suits. 402,232; July 6. Class 39.
H. & A. Manufacturing Co., Binghamton, N. Y. Electric heaters for guns, machine guns, and cannon. 402,233; July 6. Class 21.
Hadfields Limited, Sheffield, England. Steel. 171,824; renewed Aug. 14, 1943.
Haifley, Jerome H., Los Angeles, Calif. Toy airplanes. 402,184; July 6; Serial No. 458,152; published Apr. 27, 1943. Class 22.
Harlequin Corporation, The, New York, N. Y. Ophthalmic mountings and lenses and parts thereof. 402,191; July 6; Serial No. 458,427; published Apr. 27, 1943. Class 26.
Harrison, Elmer P., doing business as Velocity Steam Systems, Chicago, Ill. Automatically controlled steam vaporizing, conditioning, and economizing units, and parts thereof. 402,169; July 6; Serial No. 454,828; published Apr. 27, 1943. Class 34.
Hartley, Pat, Inc., New York, N. Y. Women's dresses. 402,193; July 6; Serial No. 458,610; published Apr. 20, 1943. Class 39.
Hercules Powder Company, Wilmington, Del. Synthetic resins for use in the manufacture of varnishes, paints, lacquers, etc. 402,160–1; July 6; Serial Nos. 447,307–8; published Apr. 27, 1943. Class 1.
Hercules Trouser Co., The, Columbus, Ohio. Industrial trousers. 402,227; July 6. Class 39.
Hohner, M., assignor to M. Hohner, Inc., New York, N. Y. Mouth harmonicas. 175,786; renewed Nov. 13, 1943.
Hopkins, J. L., & Co., New York, N. Y. Insecticide. 171,890; renewed Aug. 14, 1943.
Hutzler Brothers Co., Baltimore, Md. Shoes. 176,025; renewed Nov. 13, 1943.
Johnson, Arthur R., Co. Inc. (See Willis, Grinnell, assignor.)
Klein Chocolate Co., Inc., Elizabethtown, Pa. Chocolate. 402,200; July 6; Serial No. 458,920; published Apr. 27, 1943. Class 46.
Knothe Brothers Co., Inc., New York, N. Y. Garters, waist belts, and suspenders. 176,026; renewed Nov. 13, 1943.
Kramer & Bick. (See Bick, H. S.)
La Perla Food Products Co. (See Filippone, B., & Co., Inc.)
Leach, C. H., Company, Boston, Mass., assignor to C. H. Leach Company, Englewood, N. J. Oil condensers, heat exchangers, and dephlegmators. 175,958; renewed Nov. 13, 1943.
Leichter, Emil, New York, N. Y. Watches. 402,185–6; July 6; Serial Nos. 458,273–4; published Apr. 27, 1943. Class 27.
Link, Ernest J., doing business as Link Paper Company, New York, N. Y. Stencil boards. 402,179; July 6; Serial No. 457,899; published Apr. 27, 1943. Class 37.
Link Paper Company. (See Link, E. J.)
Maeda, Y., doing business as Liberty Produce Company, to P. J. McLaughlin, trustee for Y. Maeda, Livingston, Calif. Deciduous fruits and grapes in their natural state. 173,162; renewed Sept. 18, 1943.
Maison Blanche Co., New Orleans, La. Candy. 175,946; renewed Nov. 13, 1943.
Marty, Carl, and Company, Chicago, Ill., assignor to The Borden Company, New York, N. Y. Cheese. 167,194; renewed Apr. 24, 1943.
Mauser Mill Company, Laurys Station, to Mauser Mill Company, Treichlers, Pa. Wheat flour. 170,664; renewed July 17, 1943.
May Department Stores Company, The, New York, N. Y., Baltimore, Md., Cleveland, Ohio, Los Angeles, Calif., and Denver, Colo., also doing business as Famous-Barr Company, St. Louis, Mo., and The M. O'Neil Co., Akron, Ohio. Misses' and women's dresses, suits, coats, etc. 402,217; July 6. Class 39.
Mayflower Dress Co., Inc., New York, N. Y. Ladies' and misses' dresses, blouses, skirts, etc. 402,177; July 6; Serial No. 457,682; published Feb. 23, 1943. Class 39.
McLaughlin, P. J., trustee. (See Maeda, Y.)
Melville Shoe Corporation, New York, N. Y. Shoes. 170,095; renewed July 10, 1943.
Melville Shoe Corporation, New York, N. Y. Shoes. 170,435; renewed July 17, 1943.
Miami Optical Co. (See Smith, Noel.)
Mid West Paper & Envelope Co., Marion, Ind. Writing paper, correspondence envelopes, writing tablets, etc. 175,991; renewed Nov. 13, 1943.
Mikolasch, Hugo, New York, N. Y. Goggles. 402,234; July 6. Class 26.
Monaghan, Elizabeth, Inc., Detroit, Mich. Bread. 402,202; July 6. Class 46.
Morana, Incorporated, assignor to Van Ameringen-Haebler, Inc., New York, N. Y. Artificial-vanilla materials. 175,603; renewed Nov. 6, 1943.
Nachman, L., & Sons, Philadelphia, Pa. Dress aprons for women. 402,215; July 6. Class 39.
National Horseman, The, Louisville, Ky. Magazine. 402,180; July 6; Serial No. 458,018; published Apr. 20, 1943. Class 38.
Newton Chambers & Company Limited, near Sheffield, England. Disinfectants. 23,664; re-renewed Sept. 26, 1943.
Newton Chambers & Company Limited, near Sheffield, England. Sheep dips. 23,665; re-renewed Sept. 26, 1943.
Northern Jobbing Company, Chicago, Ill., to Northern Jobbing Company, St. Paul, Minn., successor. Soap flakes, antiseptic cleansing powder, white naphtha soap, etc. 157,725; renewed Aug. 15, 1943.
Northwestern Yeast Company, Chicago, Ill. Yeast vitamine product. 174,353; renewed Oct. 16, 1943.
Novack, Harry J., doing business as Colloidal Laboratories, to Harry J. Novack, Philadelphia, Pa. Liquid iodine preparation. 174,075; renewed Oct. 2, 1943.
O'Neal, Holland Milling Co., Mount Vernon and Springfield, Mo., assignor, by mesne assignments, to Pillsbury Flour Mills Company, Minneapolis, Minn. Wheat flour. 172,757; renewed Sept. 11, 1943.
O'Neil, M., Co., The. (See May Department Stores Company, The.)
Opticase Company, The, Newark, N. J. Spectacle cases and jewelry cases. 402,182; July 6; Serial No. 458,105; published Apr. 27, 1943. Class 2.
Pearlman, Israel P., Providence, R. I. Shoes, slippers, overshoes, etc. 402,203; July 6. Class 39.
Penney, J. C., Company, Salt Lake City, Utah, and New York, assignor to J. C. Penney Company, New York, N. Y. Men's garters. 169,532; renewed June 19, 1943.
Penney, J. C., Company, Salt Lake City, Utah, and New York, assignor to J. C. Penney Company, New York, N. Y. Cotton piece goods. 169,670; renewed June 26, 1943.
Penney, J. C., Company, Salt Lake City, Utah, and New York, assignor to J. C. Penney Company, New York, N. Y. Cotton piece goods, cotton sheets, and cotton pillow cases. 169,671; renewed July 26, 1943.
Penney, J. C., Company, Salt Lake City, Utah, and New York, assignor to J. C. Penney Company, New York, N. Y. Men's hats. 172,087; renewed Aug. 21, 1943.
Penney, J. C., Company, Salt Lake City, Utah, and New York, assignor to J. C. Penney Company, New York, N. Y. Men's and boys' caps. 172,088; renewed Aug. 21, 1943.
Penney, J. C., Company, Salt Lake City, Utah, and New York, assignor to J. C. Penney Company, New York, N. Y. Women's hair nets. 174,125; renewed Oct. 2, 1943.
Phil & H. Quinto, New York, N. Y. Ladies' and misses' coats. 402,223; July 6. Class 39.
Pillsbury Flour Mills Company. (See O'Neal Holland Milling Co., assignor.)
Pillsbury Flour Mills Company, assignor to Pillsbury Flour Mills Company, Minneapolis, Minn. Flour made from wheat. 172,951; renewed Sept. 11, 1943.
Postum Cereal Company, Incorporated, Battle Creek, Mich., by change of name to General Foods Corporation, New York, N. Y. Corn flakes. 170,853; renewed July 24, 1943.
Priestley, B., & Co., Inc. (See Priestleys, Limited, assignor.)
Priestleys, Limited, assignor to B. Priestly & Co. Inc., Bradford, England, assignor to B. Priestley & Co., Inc., New York, N. Y. Cloths and piece goods. 167,103; renewed Apr. 24, 1943.
Procter & Gamble Company, The. (See Empire Soap Company, Inc., assignor.)

Purcell, William L., Floral Park, N. Y., to W. L. Purcell, Mountain Lakes, N. J. Foot powder. 168,368; renewed May 22, 1943.
Purdue Frederick Co., The, to The Purdue Frederick Company, New York, N. Y., successor. Tonic compound. 23,794; re-renewed Nov. 7, 1943.
Pure Oil Company, Columbus, Ohio, to The Pure Oil Company, Chicago, Ill. Cylinder oil. 174,332; renewed Oct. 16, 1943.
Pure Oil Company, Columbus, Ohio, to The Pure Oil Company, Chicago, Ill. Lubricating oil for hand separators. 174,333; renewed Oct. 16, 1943.
Pyrene Manufacturing Company, Newark, N. J. Fire-extinguishing compounds. 175,575; renewed Nov. 6, 1943.
Queen Anne Candy Company, Chicago, Ill., to Queen Anne Candy Company, Hammond, Ind. Candy and coconut-bar candy. 168,589; renewed May 29, 1943.
Rand McNally & Company, Chicago, Ill. Maps, atlases, miscellaneous books, etc. 402,175; July 6; Serial No. 456,778; published Apr. 20, 1943. Class 38.
Revere, Ann, Lingerie Incorporated, New York, N. Y. Ladies' blouses, slips, nightgowns, etc. 402,224; July 6. Class 39.
Roselle Frocks Mfg. Co., Inc., New York, N. Y. Women's and misses' dresses. 402,208; July 6. Class 39.
Ruberoid Co. (See Continental Roofing & Manufacturing Co., assignor.)
Ruberoid Co., The, Bound Brook, N. J., and New York, N. Y. Bituminized roofings, shingles, and strip shingles. 176,011; renewed Nov. 13, 1943.
Sarasota Celery Company, Sarasota, Fla. Celery. 402,183; July 6; Serial No. 458,123; published Apr. 27, 1943. Class 46.
Schwartz, S. L., & Sons, Los Angeles, Calif. Women's and misses' coats, suits, jackets, etc. 402,216; July 6. Class 39.
Schwarzwaelder Company, The, Philadelphia, Pa. Waterproof fabrics. 175,825; renewed Nov. 13, 1943.
Seaboard Packing Company. (See Seacoast Canning Company.)
Seacoast Canning Company, Eastport, to Seaboard Packing Company, Lubec, Maine, successor. Canned tunny fish. 173,386; renewed Sept. 25, 1943.
Sears, Roebuck and Company, New York, N. Y., and Chicago, to Sears, Roebuck and Co., Chicago, Ill. Phonograph records. 170,708; renewed July 24, 1943.
Selmer, H. & A., Inc., Elkhart, Ind. Piano. 402,204; July 6. Class 36.
Siegfried, H., & Sons, Inc., St. Louis, Mo. Women's and misses' slacks. 402,218; July 6. Class 39.
Smith, Arthur G., doing business as The Spic Company, assignor, by mesne assignments, to Spic Inc., Chicago Ill. Toilet powder. 174,871; renewed Oct. 23, 1943.
Smith, J. Jay, doing business as Esseneff Company, Chicago, Ill. Dice games. 402,163; July 6; Serial No. 451,092; published Apr. 27, 1943. Class 22.
Smith, Mazie B. (See Smith, Noel.)
Smith, Noel, doing business as Miami Optical Co., to M. B. Smith, Miami, Fla., successor. Lenses, eyeglasses, and spectacles. 174,198; renewed Oct. 9, 1943.
Societe Anonyme Fabriques de Produits de Chimie Organique de Laire, Issy, France, assignor, by mesne assignments, to General Foods Corporation, New York, N. Y. Teas and coffees, tea and coffee extracts, both dry and liquid, and tea and coffee substitutes. 175,372; renewed Nov. 6, 1943.
Sooner Coal Mining Company, Kansas City, Mo. Coal. 402,165; July 6; Serial No. 452,027; published Apr. 27, 1943. Class 1.
Spic Inc. (See Smith, Arthur G., assignor.)
Spiliadis, B. & Co., Inc., New York, N. Y. Canned olive oil. 402,201; July 6; Serial No. 458,953; published Apr. 27, 1943. Class 46.
Starr Fruit Products Co., Portland, Oreg. Canned fruits and canned vegetables. 168,201; renewed May 15, 1943.
Stella Cheese Company, Chicago, Ill. Blue cheese. 402,173; July 6; Serial No. 455,934; published Apr. 27, 1943. Class 46.
Stettheimer Co., San Francisco, Calif., and New York, N. Y. Polo shirts and other sportswear. 402,214; July 6. Class 39.
Stewart, Nan, Inc., Pittsfield, Mass. Ladies' and misses' dresses. 402,206; July 6. Class 39.
Stoker, Charles E., Louisville, Ky. Dressed poultry. 402,187; July 6; Serial No. 458,293; published Apr. 27, 1943. Class 46.
Stout, Charles B., Memphis, Tenn. Wheat flour. 402,171; July 6; Serial No. 457,689; published Apr. 27, 1943. Class 46.
Strunk, J. Horace, Bangor, Pa. Section in a periodical magazine. 402,197; July 6; Serial No. 458,821; published Apr. 27, 1943. Class 38.
Tailored Woman, Inc., The, New York, N. Y. Wearing apparel. 175,362; renewed Nov. 6, 1943.
Timely Comics, Inc., New York, N. Y. Magazine. 402,158; July 6; Serial No. 443,866; published July 14, 1942. Class 38.
Tobin, Edith D., doing business as Jack Tobin, Philadelphia, Pa. Ladies' and misses' dresses. 402,168; July 6; Serial No. 454,784; published Nov. 24, 1942. Class 39.
Tribune Company, Chicago, Ill. Newspaper column. 402,189; July 6; Serial No. 458,348; published Apr. 27, 1943. Class 38.
Union Asbestos & Rubber Company, Chicago, Ill. Compressed asbestos-fiber sheet machinery packing. 168,199; renewed May 15, 1943.
Union Steel Products Company, Ltd., The, assignor to Union Steel Products Company, Albion, Mich. Trucks and truck parts. 174,328; renewed Oct. 16, 1943.
United Mills, Inc., Gilead, N. C. Slips for children and junior misses. 402,213; July 6. Class 39.
Van Ameringen-Haebler. (See Morana, Incorporated, assignor.)
Velocity Steam Systems. (See Harrison, E. P.)
Wauregan Company, The, Wauregan, Conn., and Providence, R. I., to Wauregan Mills, Inc., Wauregan, Conn., successor. Cotton fabrics and silk fabrics in the piece. 172,994; renewed Sept. 11, 1943.
Weatherhead Company, The, Cleveland, Ohio. Aircraft parts and accessories. 402,162; July 6; Serial No. 447,353; published Apr. 13, 1943. Class 13.
Wells, Ruth, Los Angeles, Calif. Portable urinals. 402,170; July 6; Serial No. 455,406; published Apr. 27, 1943. Class 44.
West Virginia Pulp & Paper Company, New York, N. Y. Book paper and wrapping paper. 172,266; renewed Aug. 28, 1943.
Western Leather Clothing Company, St. Louis, Mo. Sportswear. 402,159; July 6; Serial No. 443,868; published Apr. 20, 1943. Class 39.
Westfield Manufacturing Company, The, Westfield, Mass. Bicycles, tricycles, and parts thereof. 175,950; renewed Nov. 13, 1943.
Whitman, Ward & Lee Co., assignor to General Seafoods Corporation, Boston, Mass. Fresh fish subjected to a pickling solution. 175,856; renewed Nov. 13, 1943.
Whitney Blake Company, The, New Haven, Conn. Insulated wires and cables. 402,190; July 6; Serial No. 458,362; published Apr. 27, 1943. Class 21.
Whittle Music Company, Dallas, Tex. Band and orchestra instruments. 402,166; July 6; Serial No. 452,256; published Apr. 27, 1943. Class 36.
Willis, Grinnell, assignor, by mesne assignments, to Arthur R. Johnson Co. Inc., New York, N. Y. Cotton goods. 23,022; re-renewed May 16, 1943.
Wilson & Glenny Ltd., Hawick, Scotland. Men's overcoats, suits, caps, etc. 168,125; renewed May 15, 1943.
Wish, Fred A., Incorporated, New York, N. Y., assignor to H. R. Garis, East Orange, N. J. Rubber balloons, toy furniture, children's crayon sets, etc. 175,647; renewed Nov. 6, 1943.
Wood & Selick, Inc., New York, N. Y. Preparation made from fruit pits, sugar, etc. 402,195; July 6; Serial No. 458,772; published Apr. 27, 1943. Class 46.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Coal. Sooner Coal Mining Company. 402,165; July 6; Serial No. 452,027; published Apr. 27, 1943.
Pyroxylin, nitrocellulose, pyroxylin and artificial ivory. E. I. du Pont de Nemours and Company. 169,039; renewed June 5, 1943.
Resins for use in the manufacture of varnishes, paints, lacquers, etc., Synthetic. Hercules Powder Company. 402,160–1; July 6; Serial Nos. 447,307–8; published Apr. 27, 1943.

CLASS 2

Cases and jewelry cases, Spectacle. Opticase Company. 402,182; July 6; Serial No. 458,105; published Apr. 27, 1943.
Shoe bags, clothes protectors and clothespin aprons. Al-Lon Manufacturing Company. 175,887; renewed Nov. 13, 1943.

CLASS 4

Soap flakes, antiseptic cleansing powder, white naphtha soap, etc. Northern Jobbing Company. 157,725; renewed Aug. 15, 1942.
Soap for shaving. Colgate & Company. 175,899; renewed Nov. 13, 1943.
Soap, Toilet. Empire Soap Company. 175,900–1; renewed Nov. 13, 1943.

CLASS 6

Composition for exterminating moths. Farbenfabriken vorm. Friedr. Bayer & Co. 170,038; renewed July 10, 1943.
Compounds, Fire-extinquishing. Pyrene Manufacturing Company. 175,575; renewed Nov. 6, 1943.
Dips, Sheep. Newton Chambers & Company Limited. 23,665; re-renewed Sept. 26, 1943.

Disinfectants. Newton Chambers & Company Limited. 23,664; re-renewed Sept. 26, 1943.
Dyes and dyestuffs. Grasselli Chemical Company. 169,838–9; renewed July 3, 1943.
Insecticide. J. L. Hopkins & Co. 171,890; renewed Aug. 14, 1943.
Iodine preparation, Liquid. H. J. Novack. 174,075; renewed Oct. 2, 1943.
Powder, Foot. W. L. Purcell. 168,368; renewed May 22, 1943.
Powder, Toilet. A. G. Smith. 174,871; renewed Oct. 23, 1943.
Preparations for protecting animal substances. Actien-Gesellschaft für Anilinfabrikation. 169,799; renewed July 3, 1943.
Tonic compound. Purdue Frederick Co. 23,794; re-renewed Nov. 7, 1943.
Vitamin product, Yeast. Northwestern Yeast Company. 174,353; renewed Oct. 16, 1954.

CLASS 7

Cords, twines, ropes, and fiber material. Granite Cordage Company. 175,873; renewed Nov. 13, 1943.

CLASS 12

Asphalt roofing. Continental Roofing & Manufacturing Co. 175,876; renewed Nov. 13, 1943.
Lath and metal corner beads, Metal. Expanded Metal Engineering Company. 167,722; renewed May 8, 1943.
Roofing, Green mineral-surfaced. Continental Roofing & Manufacturing Co. 175,923; renewed Nov. 13, 1943.
Roofing material. Continental Roofing & Manufacturing Co. 175,877; renewed Nov. 13, 1943.
Roofings, shingles, and strip shingles, Bituminized. Ruberoid Co. 176,011; renewed Nov. 13, 1943.

CLASS 13

Aircraft parts and accessories. Weatherhead Company, The. 402,162; July 6; Serial No. 447,353; published Apr. 13, 1943.
Brass and copper tubes, low brass and copper seamless tubes, etc. Anaconda Copper Mining Company. 175,024; renewed Oct. 30, 1943.
Catches, hood-catch brackets, hood handles, etc. Bassick Company. 175,377; renewed Nov. 6, 1943.

CLASS 14

Steel. Hadfields Limited. 171,824; renewed Aug. 14, 1943.

CLASS 15

Oil, Cylinder. Pure Oil Company. 174,332; renewed Oct. 16, 1943.
Oil for hand separators, Lubricating. Pure Oil Company. 174,333; renewed Oct. 16, 1943.

CLASS 19

Airships, spherical balloons, kites, etc. Goodyear Tire & Rubber Company. 174,449; renewed Oct. 16, 1943.
Bicycles, tricycles, and parts thereof. Westfield Manufacturing Company. 175,950; renewed Nov. 13, 1943.
Trucks and truck parts. Union Steel Products Company, Ltd. 174,328; renewed Oct. 16, 1943.

CLASS 21

Commutator segments, copper bars and strips, etc., Finished. Anaconda Copper Mining Company. 175,025; renewed Oct. 30, 1943.
Commutator segments, copper bars, and strips, etc., Finished. Anaconda Copper Mining Company. 175,109; renewed Oct. 30, 1943.
Heaters for guns, machine guns and cannon, Electric. H. & A. Manufacturing Co. 402,233; July 6.
Wires and cables, Insulated. Whitney Blake Company. 402,190; July 6; Serial No. 458,362; published Apr. 27, 1943.

CLASS 22

Balloons, toy furniture, children's crayon sets, Rubber, etc. F. A. Wish Incorporated. 175,647; renewed Nov. 6, 1943.
Games, Dice. J. J. Smith. 402,163; July 6; Serial No 451,092; published Apr. 27, 1943.
Toy airplanes. J. H. Haifley. 402,184; July 6; Serial No. 458,152; published Apr. 27, 1943.

CLASS 23

Condensers, heat exchangers, and dephlegmators, Oil. C. H. Leach Company. 175,958; renewed Nov. 13, 1943.
Machinery and parts therefor, Shoe. Compo Shoe Machinery Corporation. 402,235; July 6.
Wheels, Water. J. B. Campbell. 176,043; renewed Nov. 13, 1943.

CLASS 24

Laundry bags of net material. Fry Bros. Company. 175,920; renewed Nov. 13, 1943.

CLASS 26

Goggles. H. Mikolasch. 402,234; July 6.
Lenses, eyeglasses, and spectacles. N. Smith. 174,198; renewed Oct. 9, 1943.
Magnifier apparatus. G. A. Dostal. 402,188; July 6; Serial No. 458,328; published Apr. 27, 1943.
Ophthalmic mountings and lenses and parts thereof. Harlequin Company. 402,191; July 6; Serial No. 458,427; published Apr. 27, 1943.

CLASS 27

Watches. E. Leichter. 402,185–6; July 6; Serial Nos. 458,273–4; published Apr. 27, 1943.
Watches and clocks. P. V. Eisner & Co. 402,192; July 6; Serial No. 458,567; published Apr. 27, 1943.

CLASS 28

Jewelry. H. S. Bick. 402,172; July 6; Serial No. 455,699; published Apr. 27, 1943.
Silver-plated hollow ware. Farber Brothers. 175,868; renewed Nov. 13, 1943.

CLASS 34

Furnaces. Chicago Flexible Shaft Company. 402,174; July 6; Serial No. 456,585; published Apr. 27, 1943.
Steam vaporizing, conditioning, and economizing units, and parts thereof, Automatically controlled. E. P. Harrison. 402,169; July 6; Serial No. 454,828; published Apr. 27, 1943.

CLASS 35

Gaskets, Paper. Boonville Manufacturing Corp. 402,199; July 6; Serial No. 458,905; published Apr. 27, 1943.
Machinery packing, Compressed asbestos-fiber sheet. Union Asbestos & Rubber Company. 168,199; renewed May 15, 1943.

CLASS 36

Band and orchestra instruments. Whittle Music Company. 402,166; July 6; Serial No. 452,256; published Apr. 27, 1943.
Harmonicas, Mouth. M. Hohner. 175,786; renewed Nov. 13, 1943.
Phonograph records. Sears, Roebuck and Company. 170,708; renewed July 24, 1943.
Pianos. H. & A. Selmer, Inc. 402,204; July 6.

CLASS 37

Paper, correspondence envelopes, writing tablets, etc., Writing. Mid West Paper & Envelope Co. 175,991; renewed Nov. 13, 1943.
Paper and wrapping paper, Book. West Virginia Pulp & Paper Company. 172,266; renewed Aug. 28, 1943.
Stencil boards. E. J. Link. 402,179; July 6; Serial No. 457,899; published Apr. 27, 1943.

CLASS 38

Comic strips. G. H. Copeland. 402,181; July 6; Serial No. 458,062; published Apr. 20, 1943.
Magazine. National Horseman. 402,180; July 6; Serial No. 458,018; published Apr. 20, 1943.
Magazine. Timely Comics. 402,158; July 6; Serial No. 443,866; published July 14, 1942.
Maps, atlases, miscellaneous books, etc. Rand McNally & Company. 402,175; July 6; Serial No. 456,778; published Apr. 20, 1943.
News letters. M. Baker, Jr. 402,176; July 6; Serial No. 457,431; published Apr. 27, 1943.
Newspaper column. Tribune Company. 402,189; July 6; Serial No. 458,348; published Apr. 27, 1943.
Periodical. Fawcett Publications, Inc. 402,167; July 6; Serial No. 454,168; published Sept. 1, 1942.
Photographs and pictures. Bruno of Hollywood. 402,226; July 6.
Scripts, Radio. Cudahy Packing Company. 402,164; July 6; Serial No. 451,297; published Apr. 27, 1943.
Section in a periodical magazine. J. H. Strunk. 402,197; July 6; Serial No. 458,821; published Apr. 27, 1943.

CLASS 39

Aprons for women, Dress. L. Nachman & Sons. 402,215; July 6.
Blouses, slips, nightgowns, etc., Ladies'. Ann Revere Lingerie Incorporated. 402,224; July 6.
Brassières. Bonzette Foundations Inc. 402,225; July 6.
Caps, Men's and boys'. J. C. Penney Company. 172,088; renewed Aug. 12, 1943.
Coats and suits, Ladies'. Gross-Greenberger. 402,230; July 6.
Coats, Ladies' and misses'. Phil & H. Quinto. 402,223; July 6.
Coats, Ladies' fur. Associated Lerner Shops of America, Inc. 402,209; July 6.
Coats, suits, jackets, etc., Women's and misses'. S. L. Schwartz & Sons. 402,216; July 6.
Dresses and hosiery, Women's. Associated Merchandising Corporation. 175,964; renewed Nov. 13, 1943.
Dresses, blouses, skirts, etc., Ladies' and misses'. Mayflower Dress Co. 402,177; July 6; Serial No. 457,682; published Feb. 23, 1943.
Dresses, Ladies' and misses'. E. D. Bobin. 402,168; July 6; Serial No. 454,784; published Nov. 24, 1942.
Dresses, Ladies' and misses'. Nan Stewart, Inc. 402,206; July 6.
Dresses, suits, and coats, Ladies' and misses'. Adler & Adler, Inc. 402,211; July 6.
Dresses, suits, coats, etc., Misses' and women's. May Department Stores Company. 402,217; July 6.

Dresses, Women's. Pat Hartley Inc. 402,193; July 6; Serial No. 458,610; published Apr. 20, 1943.
Dresses, Women's and misses'. Roselle Frocks Mfg. Co. 402,208; July 6.
Garters, Men's. J. C. Penney Company. 169,532; renewed June 19, 1943.
Garters, waist belts, and suspenders. Knothe Brothers Co. 176,026; renewed Nov. 13, 1943.
Hats, Men's. J. C. Penney Company. 172,087; renewed Aug. 21, 1943.
Hats, Women's, misses' and children's. Allied Millinery Company. 402,220; July 6.
Hosiery. Archer Hosiery Mills. 402,231; July 6.
Nets, Women's hair. J. C. Penney Company. 174,125; renewed Oct. 2, 1943.
Overcoats, suits, caps, etc., Men's. Wilson & Glenny Ltd. 168,125; renewed May 15, 1943.
Robes, Infants' and children's sleeping, feeding, and lounging. Gadgets, Inc. 402,228; July 6.
Shirts and other sportswear, Polo. Stettheimer Co. 402,214; July 6.
Shoes. Eastern Footwear Corporation. 402,157; July 6; Serial No. 442,413; published June 23, 1942.
Shoes. Hutzler Brothers Co. 176,025; renewed Nov. 13, 1943.
Shoes. Melville Shoe Corporation. 170,095; renewed July 10, 1943.
Shoes. Melville Shoe Corporation. 170,435; renewed July 17, 1943.
Shoes, slippers, overshoes, etc. I. P. Pearlman. 402,203; July 6.
Skirts, Women's. Gordon Maid Skirt Co. Inc. 402,205; July 6.
Slacks, Women's and misses'. H. Siegfried & Sons, Inc. 402,218; July 6.
Slips for children and junior misses. United Mills, Inc. 402,213; July 6.
Slips, Misses'. W. T. Grant Company. 402,207; July 6.
Sport clothing, Women's. Dean-Jones Manufacturing Co. 402,222; July 6.
Sportswear. Western Leather Clothing Co. 402,159; July 6; Serial No. 443,868; published Apr. 20, 1943.
Suits, Misses'. I. Grossman & Son, Inc. 402,232; July 6.
Trousers, Industrial. Hercules Trouser Co. 402,227; July 6.
Wearing apparel. Tailored Woman, Inc. 175,362; renewed Nov. 6, 1943.
Wearing apparel, Ladies' and misses'. Classy Jean Dresses, Inc. 402,212; July 6.
Wearing apparel, Women's and girls'. Angelica Jacket Company. 402,221; July 6.

CLASS 40

Shields, Dress. Canfield Rubber Company. 172,290; renewed Aug. 28, 1943.

CLASS 42

Cloths and piece goods. Priestleys, Limited. 167,103; renewed Apr. 24, 1943.
Cotton fabrics and silk fabrics in the piece. Wauregan Company. 172,994; renewed Sept. 11, 1943.
Cotton goods. Grinnell Mills. 23,022; re-renewed May 16, 1943.
Piece goods, Cotton. J. C. Penney Company. 169,670; renewed June 26, 1943.
Piece goods, cotton sheets, and cotton pillow cases, Cotton. J. C. Penney Company. 169,671; renewed July 26, 1943.

CLASS 43

Thread and yarn. J. & P. Coats (R. I.) Inc. 175,166; renewed Oct. 30, 1943.

CLASS 44

Prophylactics, Sheath. Crown Rubber Company. 402,155; July 6; Serial No. 418,566; published June 6, 1939.
Urinals, Portable. R. Wells. 402,170; July 6; Serial No. 455,406; published Apr. 27, 1943.

CLASS 46

Artificial-vanilla materials. Morana, Incorporated. 175,603; renewed Nov. 6, 1943.
Bread. Elizabeth Monaghan Inc. 402,202; July 6.
Canned fruits and canned vegetables. Starr Fruit Products Co. 168,201; renewed May 15, 1943.
Canned olive oil. B. Spiliadis & Co. 402,201; July 6; Serial No. 458,953; published Apr. 27, 1943.
Canned shrimp and canned oysters. Biloxi Packing & Trading Co. 175,394; renewed Nov. 6, 1943.
Canned tunny fish. Seacoast Canning Company. 173,386; renewed Sept. 25, 1943.
Candy. Maison Blanche Co. 175,946; renewed Nov. 13, 1943.
Candy and coconut-bar candy. Queen Anne Candy Company. 168,589; renewed May 29, 1943.
Celery. Sarasota Celery Company. 402,183; July 6; Serial No. 458,123; published Apr. 27, 1943.
Cereal and vegetable substances, Preparation of roasted. Food Research Distributing Corporation. 402,194; July 6; Serial No. 458,756; published Apr. 27, 1943.
Cheese. Carl Marty and Company. 167,194; renewed Apr. 24, 1943.
Cheese, Blue. Stella Cheese Company. 402,173; July 6; Serial No. 455,934; published Apr. 27, 1943.
Chocolate. Klein Chocolate Co. 402,200; July 6; Serial No. 458,920; published Apr. 27, 1943.
Coffee. Arbuckle Brothers. 172,069; renewed Aug. 21, 1943.
Compound for use in the preparation of jellies, desserts and pastries. Genesee Pure Food Company. 175,564; renewed Nov. 6, 1943.
Corn flakes. Postum Cereal Company. 170,853; renewed July 24, 1943.
Feed, Stock and cattle. Ada Milling Company. 402,196; July 6; Serial No. 458,775; published Apr. 27, 1943.
Feeds, Poultry. Allied Mills, Inc. 402,198; July 6; Serial No. 458,829; published Apr. 27, 1943.
Fish subjected to a pickling solution, Fresh. Whitman, Ward & Lee Co. 175,856; renewed Nov. 13, 1943.
Flour made from wheat. Pillsbury Flour Mills Company. 172,951; renewed Sept. 11, 1943.
Flour, Olive oil, and spaghetti, Wheat. B. Filippone & Co. 402,210; July 6.
Flour, Wheat. Mauser Mill Company. 170,664; renewed July 17, 1943.
Flour, Wheat. Holland O'Neal Milling Co. 172,757; renewed Sept. 11, 1943.
Flour, Wheat. C. B. Stout. 402,171; July 6; Serial No. 457,689; published Apr. 27, 1943.
Food, Small dog and cat. Albers Milling Company. 402,178; July 6; Serial No. 457,800; published Apr. 27, 1943.
Fruit pits, sugar, etc., Preparation made from. Wood & Selick, Inc. 402,195; July 6; Serial No. 458,772; published Apr. 27, 1943.
Fruits and grapes in their natural states, Deciduous. Y. Macda. 173,162; renewed Sept. 18, 1943.
Oil, Peanut. Garber Eagle Oil Corporation. 402,229; July 6.
Poultry, Dressed. C. E. Stoker. 402,187; July 6; Serial No. 458,293; published Apr. 27, 1943.
Teas and coffees, tea and coffee extracts, both dry and liquid, and tea and coffee substitutes. Societe Anonyme Fabriques de Produits de Chimie Organique de Laire. 175,372; renewed Nov. 6, 1943.

CLASS 50

Fabrics, Waterproof. Schwarzwaelder Company. 175,825; renewed Nov. 13, 1943.
Printing plates, Planographic. Addressograph-Multigraph Corporation. 402,219; July 6.
Rubber goods, Molded. General Tire & Rubber Company. 402,156; July 6; Serial No. 426,291; published Apr. 27, 1943.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 6TH DAY OF JULY, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Dolman, Clarence D., Wenatchee, Wash., assignor to Hercules Glue Company. Insecticidal compositions. Re. 22,340; July 6.
Goldschmidt, Friedrich. (See Kafowi, Johann, assignor.)
Hercules Glue Company. (See Dolman, Clarence D., assignor.)
Kafowi, Johann, Long Island City, N. Y., assignor of one-half to F. Goldschmidt, Prague, Czechoslovakia. Producing elongated bodies by deformation. Re. 22,341; July 6.
Kemet Laboratories Company. (See McQuade, John D., assignor.)
McQuade, John D., Lakewood, Ohio, assignor to Kemet Laboratories Company, Inc. Cleanup agents. Re. 22,342; July 6.
Ramsey, Allan, Evanston, assignor to Schweitzer & Conrad, Inc., Chicago, Ill. Cutout. Re. 22,343; July 6.
Schweitzer & Conrad, Inc. (See Ramsey, Allan, assignor.)
Silverman, Daniel, Tulsa, Okla., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Ignition system. Re. 22,344; July 6.
Westinghouse Electric & Manufacturing Company. (See Silverman, Daniel, assignor.)

LIST OF DESIGN PATENTEES

Altman, Samuel, and F. Silverstein, New York, N. Y. Combined photo and match book cover. 135,938; July 6.
Ayotte, Joseph R., Chicago, Ill. Razor blade. 135,921; July 6.
Betesh, Charles I., New York, N. Y. Tablecloth or similar article. 135,907; July 6.
Betesh, Charles I., New York, N. Y. Tablecloth or similar article. 135,908; July 6.
Bingham, George H., Jr., Lincoln, assignor to Cambridge Rubber Co., Cambridge, Mass. Spat. 135,909; July 6.
Booty, Philip C. P., Chicago, Ill. Support for a table tennis net. 135,915; July 6.
Bronzan, Blasito. (See Schibsby, L. D., and Bronzan.)
Cambridge Rubber Co. (See Bingham, George H., Jr., assignor.)
Caplan, Lester P., St. Louis, Mo. Automobile body trim molding strip. 135,948; July 6.
Cobb, Ralph C., Los Angeles, Calif. Game board. 135,930; July 6.
Davio, Joseph C., Agawam, Mass. Billfold. 135,922; July 6.
Elder, John W., Dayton, Ohio. Wrapping paper. 135,940; July 6.
Elder, John W., Dayton, Ohio. Wrapping paper. 135,941; July 6.
Elder, John W., Dayton, Ohio. Wrapping paper. 135,942; July 6.
Elder, John W., Dayton, Ohio. Wrapping paper. 135,943; July 6.
Elder, John W., Dayton, Ohio. Wrapping paper. 135,944; July 6.
Elder, John W., Dayton, Ohio. Wrapping paper. 135,945; July 6.
Finkelstein, Nathan, New York, N. Y. Coat. 135,910; July 6.
Fisher Scientific Company. (See Warren, William B., assignor.)
Frisch, Walter, Brooklyn, N. Y. Statuette. 135,931; July 6.
Genter, Albert H., Mount Lebanon Township, Allegheny County, Pa. Trolley wire feeder tap. 135,932; July 6.
Gruber, Abe, New York, N. Y. Suit. 135,911; July 6.
Gruber, Abe, New York, N. Y. Suit. 135,912; July 6.
Gruber, Abe, New York, N. Y. Coat. 135,913; July 6.
Huenergardt, William H., Chicago, Ill. Ammunition rounds indicator. 135,916; July 6.
Kaptuller, Alexander F., Chicago, Ill. Meat grinder. 135,933; July 6.
Keeler, Paul S., Reading, Pa. Lamp. 135,946; July 6.
Lebus, William A., assignor to Prismacolor, Inc., Chicago, Ill. Projector housing. 135,917; July 6.
Magee, Beverly, Agawam, Mass. Screwdriver or similar article. 135,918; July 6.
Malmstead, Lilyan, New York, N. Y. Brassière or similar article. 135,923; July 6.
Martin, Guss, Bloomington, Ind. Apron. 135,949; July 6.
Mayer, Michael, Cleveland, Ohio. Combined ash tray and safety match holder. 135,934; July 6.
Miller, Warren P., Anderson, Ind. Framework for physical and recreational training. 135,935; July 6.
Morris, Harry, Chicago, Ill. Compact or similar article. 135,924; July 6.
Morse, Clarence W., Santa Monica, Calif. Compressor member for a paper fastener. 135,919; July 6.
Munsingwear, Inc. (See Stephens, Zoma A., assignor.)
Mutch, James B., assignor to Schelter Last Co., Inc., Rochester, N. Y. Shoe tree. 135,936; July 6.
Panish, Erwin J., Bridgeport, Conn. Triple handle controller. 135,950; July 6.
Prismacolor, Inc. (See Lebus, William A., assignor.)
Richardson, Ruel J., and J. Terpstra, Lynwood, Calif. Bread slicing board. 135,937; July 6.
Ronning, Jacob A., Minneapolis, Minn. Lawn mower. 135,951; July 6.
Sadinoff, Max, Bronx, N. Y. Rug or similar article. 135,914; July 6.
Schelter Last Co. (See Mutch, James B., assignor.)
Schibsby, Lawrence D., and B. Bronzan, Los Angeles, Calif.; said Bronzan assignor to said Schibsby. Identification badge. 135,925; July 6.
Siderelis, James D., Astoria, N. Y. Badge or similar article. 135,920; July 6.
Silverstein, Frank. (See Altman, S., and Silverstein.)
Spurgeon, Dawson W., Salem, Ind. Combination comb, brush, and mirror. 135,926; July 6.
Stephens, Zoma A., assignor to Munsingwear, Inc., Minneapolis, Minn. Panty girdle. 135,927; July 6.
Stephens, Zoma A., assignor to Munsingwear, Inc., Minneapolis, Minn. Panty girdle. 135,928; July 6.
Terpstra, John. (See Richardson, R. J., and Terpstra.)
Tilles, Roy E., New Rochelle, N. Y. Stocking. 135,947; July 6.
Warren, William B., Mount Lebanon, assignor to Fisher Scientific Company, Pittsburgh, Pa. Combined funnel and filter holder. 135,952; July 6.
Williamson, Fred E., Chicago, Ill. Phonograph needle. 135,953; July 6.
Woginrich, Joseph, Walnutport, Pa. Convertible tricycle. 135,929; July 6.
Worthley, Edwin C., Minneapolis, Minn. Motor generator set cabinet. 135,939; July 6.
Zahn, Samuel, New York, N. Y. Dress. 135,954; July 6.
Zahn, Samuel, New York, N. Y. Dress. 135,955; July 6.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 6TH DAY OF JULY, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abbott, Edward J., assignor to Abbott Machine Company, Wilton, N. H. Textile manufacture. 2,323,300; July 6.
Abbott Machine Company. (See Abbott, Edward J., assignor.)
Acco Products, Inc. (See Brennan, Daniel A., assignor.)
Ace Engineering Co. (See Ravnsbeck, Fred, assignor.)
Acker, Ralph E., Detroit, Mich. Valve gauge. 2,323,508; July 6.
Adams, Loyd, Maywood, assignor to Calavo Growers of California, Los Angeles, Calif. Method and means for precooling contents or refrigerating cars. 2,323,439; July 6.
Akron Brass Manufacturing Company. (See Glessner, Donald P., assignor.)
Aktiebolaget Elektrolu. (See Zetterstrom, C. G., and Ell, assignors.)
Alco Valve Company. (See MacDougall, Franklin M., assignor.)
Alien Property Custodian. (See Kiesskalt, S., and Korinth.)
Alien Property Custodian. (See Menger, A., and Bock.)
Alien Property Custodian. (See Moeller, A., Tochtermann, and Trösken.)
Alien Property Custodian. (See Stadler, R., and Auerhahn.)
Aluminum Company of America. (See Colson, Herman H., assignor.)
Alvos, Dell, Guadalupe, Calif. Promoting plant growth. 2,323,509; July 6.
Amberg, Walter E., assignor to Universal Paper Products Company, Chicago, Ill. Paper cup. 2,323,287; July 6.
Amberg, Walter E., assignor to Universal Paper Products Company, Chicago, Ill. Paper cup. 2,323,288; July 6.
American Blower Corporation. (See Danz, Harry O., assignor.)
American Can Company. (See Hothersall, John M., assignor.)
American Can Company. (See Odquist, Harold T., assignor.)
American Can Company. (See Paynter, Horace J., assignor.)
American Can Company. (See Pechy, William, assignor.)
Armstrong Cork Company. (See Barton, George E., assignor.)
American Cyanamid Company. (See Dieterle, Henry F., assignor.)
American Cyanamid Company. (See Hill, William H., assignor.)
American Cyanamid Company. (See Jayne, D. W., and Day, assignors.)
American Cyanamid Company. (See Kienle, R. H., and Peiker, assignors.)
American Cyanamid Company. (See Moore, L. P., and Ericks, assignors.)
American Lava Corporation. (See Thurnauer, H., and Fichter, assignors.)
American Machine and Foundry Company. (See Johnson, Carl W., assignor.)
American Steel and Wire Company of New Jersey, The. (See Brickman, Alan E., assignor.)
American Viscose Corporation. (See Castellan, Carl A., assignor.)
American Viscose Corporation. (See Haley, Hugh D., assignor.)
Andersen, Leif. (See Parke, P., Tully, Andersen, and Jones.)
Anderson, Andrew T., Dover, N. J. Housing for use in testing detonators. 2,323,301; July 6.
Anderson, Frank J., Laramie, Wyo., and M. Treshow, West Los Angeles, Calif., assignors to Monolith Portland Cement Company. Coal drier. 2,323,289; July 6.
Anderson, Raymond M., assignor, by mesne assignments, to Evans Products Company, Detroit, Mich. Internal combustion engine charge forming apparatus. 2,323,639; July 6.
Anderson, Walter A., Bridgeport, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Shuttle mechanism for paper carriages. 2,323,783; July 6.
Andrews, Edward F., Chicago, Ill. Automatic phonograph. 2,323,365; July 6.
Arch-O-Graph Company. (See Hyland, D. F., Stiles, and Brenner, H. L. and J., assignors.)
Armstrong, Edwin H., New York, N. Y. Frequency modulation signaling system. 2,323,698; July 6.
Armstrong, William, Long Island City, N. Y., assignor to The Dowty Corporation, Wilmington, Del. Lever suspension landing gear. 2,323,640; July 6.
Arnett, Richard W., Inglewood, Calif. Starting device for runners. 2,323,510; July 6.
Athey Truss Wheel Company. (See Kuchar, Joseph, assignor.)
Auerhahn, Albert. (See Stadler, R., and Auerhahn.)
Automatic Coinwrapping Machine Corporation. (See Seemel, Bruno E., assignor.)
Automatic Control Corporation. (See Bower, George D., assignor.)
B. B. Chemical Co. (See Macdonald, Alexander D., assignor.)
B. B. Chemical Co. (See Nugent, Frederick V., assignor.)
Babros, Joseph H., Los Angeles, Calif. Corner construction for fire screens. 2,323,699; July 6.
Bagley, John F., Jr., Topsfield, Mass. Sanitary shaver outfit. 2,323,290; July 6.
Bailey, Arnold B., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Antenna system. 2,323,641; July 6.
Bailey, Carl A., Scotia, N. Y., assignor to General Electric Company. Scoring device. 2,323,700; July 6.
Baird, Clyde W., Columbus, Ohio, assignor to The Traylor Vibrator Company. Electrical control system. 2,323,440; July 6.
Baird, Clyde W., Columbus, Ohio, assignor to The Traylor Vibrator Company. Electrical system. 2,323,441; July 6.
Baker, Benjamin P., Turtle Creek, assignor to Westinghouse Electrical & Manufacturing Company, East Pittsburgh, Pa. Circuit interrupter. 2,323,642; July 6.
Baker, Carroll W., Los Angeles, Calif. Refrigerating and air conditioning apparatus. 2,323,511; July 6.
Baker Perkins Limited. (See Harber, Laurence S., assignor.)
Baker, Richard H. (See Lamb, R. H., and Baker.)
Bamford, Harry S., Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation. Continuous projector. 2,323,512; July 6.
Bamford, Harry S., Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation. Continuous projector. 2,323,513; July 6.
Barksdale, George R., Winnsboro, S. C. Rotary sprinkler. 2,323,701; July 6.
Barlow & Seelig Manufacturing Company. (See Schroeder, Simon E., assignor.)
Barnes, Robert W., Minneapolis, Minn. Dispensing device. 2,323,865; July 6.
Barrett, Edward R., assignor to Gar Wood Industries, Inc., Detroit, Mich. Refuse packer. 2,323,366; July 6.
Barton, George E., Millville, N. J., assignor to Armstrong Cork Company, Lancaster, Pa. Glass composition. 2,323,643; July 6.
Batesville Casket Company, The. (See Purkiss, Robert B., assignor.)
Baxter, Harold G., Wilkinsburg, and O. S. Jennings, Pittsburgh, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Circuit breaker. 2,323,784; July 6.
Beard, Bert, Detroit, Mich., assignor to G. M. and E. Holley. Manifold. 2,323,442; July 6.
Beech Aircraft Corporation. (See Duffy, David H., assignor.)
Beeton, Earl E., Elizabeth, and H. T. Campbell, Belleville, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Pellet forming apparatus. 2,323,785; July 6.
Beisel, Eugene L., Jackson, Mich. Method and apparatus for accelerating paramagnetic particles. 2,323,786; July 6.
Bell Aircraft Corporation. (See Trotter, John C., assignor.)
Bell Telephone Laboratories, Incorporated. (See Bailey, Arnold B., assignor.)
Bell Telephone Laboratories, Incorporated. (See Dickten, E., Jr., and Harrison, assignors.)
Bell Telephone Laboratories, Incorporated. (See Henning, Harley A., assignor.)
Bell Telephone Laboratories, Incorporated. (See Mallina, Rudolph F., assignor.)
Bendix Aviation Corporation. (See Frei, Jakob R., assignor.)
Bendix Aviation Corporation. (See Peterson, Joel D., assignor.)
Bendix Aviation Corporation. (See Rand, Henry J., assignor.)

Benjamin, Claude A. (See Smith, Jacob A., assignor.)
Bennett, Stevens A., Chicago, Ill. Container closure. 2,323,443; July 6.
Bens, Samuel J., Stamford, Conn. Game device. 2,323,291; July 6.
Bergmann, Richard F. (See Torrence, G. P., Bergmann, and Knebusch.)
Berkey, William E. (See Marbury, R. E., and Berkey.)
Berkey, William E., Forest Hills, Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Voltage responsive switch. 2,323,702; July 6.
Bertran, Edward M., Jackson Heights, assignor to Brewster Aeronautical Corporation, Long Island City, N. Y. Airplane landing gear. 2,323,367; July 6.
Biedess, Anthony R., assignor to Goodman Manufacturing Company, Chicago, Ill. Mucking machine. 2,323,368; July 6.
Bindner, Joseph T. (See Sangster, W. D., and Bindner.)
Binks Manufacturing Company. (See Gustafsson, E., and Wilmes, assignors.)
Bitner, Ralph E., New York, assignor to Remington Rand Inc., Buffalo, N. Y. Reflecting lens mount. 2,323,787; July 6.
Bixer, Edmond P., New York, N. Y. Curtain. 2,323,444; July 6.
Block, Samuel E., Philadelphia, Pa. Attachment for pencils and the like. 2,323,302; July 6.
Bloodgood, Alonzo J., Middlebury, assignor of one-third to J. S. Michelson, Bridgeport, and one-third to J. H. Chandler, Middlebury, Conn. Darning light. 2,323,292; July 6.
Blow-Knox Company. (See McCullough, Ray A., assignor.)
Buehdorn, William R., Hartford, Conn., and R. N. Nelson, Black River Falls, Wis. Incendiary bullet. 2,323,303; July 6.
Bock, Eugen. (See Menger, A., and Bock.)
Borkmühl, Max, and W. Persch, Frankfort-on-the-Main-Hochst, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y. Aromatic copper-mercapto compound and a process of preparing it. 2,323,445; July 6.
Bohmer, Clarence I. (See Jaeger, G., Bohmer, and Gerst.)
Boho, Anton F., Newark, assignor of one-half to W. Lefferts, Nutley, N. J. Ash tray. 2,323,293; July 6.
Boldt, Werner F., Clayton, assignor to Wagner Electric Corporation, St. Louis, Mo. Control valve mechanism. 2,323,788; July 6.
Boling, Guy C., et al. (See Mehl, Fred J., assignor.)
Bond, Rolston L., Cranford, assignor to Tide Water Associated Oil Company, Bayonne, N. J. Lubricant composition. 2,323,789; July 6.
Boswinkle, George, assignor to Transportation Specialties Company, Chicago, Ill. Refrigerator car. 2,323,446; July 6.
Boucher, Charles P., Paterson, N. J., assignor to Boucher Inventions, Ltd., Washington, D. C. Transformer. 2,323,703; July 6.
Boucher Inventions, Ltd. (See Boucher, Charles P., assignor.)
Bower, George D., assignor to Automatic Control Corporation, St. Louis, Mo. Cyclic thermostat control. 2,323,370; July 6.
Bower Roller Bearing Company. (See Johnson, Glen F., assignor.)
Bowman, Raymond H., U. S. Army, Fort Wayne, Ind. Automatic pressure control for engines. 2,323,304; July 6.
Boyajian, James A. (See Johnson, C. G., and Boyajian.)
Brandt, Sidney J., New York, N. Y. Mechanical smoking pipe bowl cleaner. 2,323,294; July 6.
Braun, Karl J., North Merrick, Long Island, assignor, to Remington Rand Inc., Buffalo, N. Y. Punching mechanism. 2,323,790; July 6.
Brennan, Daniel A., deceased, by E. L. Zwickel, Chicago, Ill., executor, assignor to Acco Products, Inc., Long Island City, N. Y. Filing equipment. 2,323,448; July 6.
Brenner, Hugo L. (See Hyland, D. F., Stiles, and Brenner, H. L. and J.
Brenner, John. (See Hyland, D. F., Stiles, and Brenner, H. L. and J.)
Brewer, Lewis E., Boonville, assignor of ten per cent to T. Zeakas and H. Galanos, St. Louis, Mo. Window screen. 2,323,295; July 6.
Brewster Aeronautical Corporation. (See Bertran, Edward M., assignor.)
Brewster Aeronautical Corporation. (Eee Eddy, Edwyn A., assignor.)
Brickman, Alan E., Monongahela, Pa., assignor to The American Steel and Wire Company of New Jersey. Metal highway guard support. 2,323,514; July 6.
Briefer, Richard N. (See Wise, Lawrence, assignor.)
Briggmann, George F., Bayside, N. Y., assignor to Carbide and Carbon Chemicals Corporation. Preventing silver tarnish. 2,323,369; July 6.
Bright, Stanley, Jr., Bern Township, Berks County, Pa. Quickly detachable seal. 2,323,449; July 6.
Briggs & Stratton Corporation. (See Jacobi, Edward N., assignor.)
Briskin, Jack, et al. (See Sperry, Philmore F., assignor.)
Briskin, Philip F., et al. (See Sperry, Philmore F., assignor.)
Briskin, Theodore H., et al. (See Sperry, Philmore F., assignor.)
Brosco, Fred, et al. (See Brosco, Gericho, assignor.)
Brosco, Gericho, Warwick, R. I., assignor of one-third to C. B. Sargent, Boston, Mass., and one-sixth to F. Brosco, Johnston, R. I. Welding clamp. 2,323,450; July 6.
Brown, Catherine A., Atlanta, Ga. Combined holder and drip collector for table utensils. 2,323,296; July 6.
Brown, Lorenzo D., Concord, N. H. Scoring device. 2,323,371; July 6.
Bryce, James W., Glen Ridge, N. J., assignor to International Business Machines Corporation, New York, N. Y. Film data selecting and viewing machine. 2,323,372; July 6.
Budd, Edward G., Manufacturing Company. (See Weightman, William A., assignor.)
Buehler, Leon, Jr. (See Shenton, F., and Buehler.)
Bugg, Kenly C., Fort Wayne, Ind. Registering mechanism and computing device. 2,323,373; July 6.
Bugg, Kenly C., Fort Wayne, Ind. Computing mechanism. 2,323,374; July 6.
Bugg, Kenly C., Fort Wayne, Ind. Tool. 2,323,375; July 6.
Bullinger, Conrad, Riverside, Ill., assignor to A. Stein & Company. Undergarment. 2,323,451; July 6.
Burruss, David N., Jr., Hammond, Ind., and J. E. Drapeau, Jr., assignors to The Glidden Company, Cleveland, Ohio. Reducing apparatus. 2,323,305; July 6.
Burton, Charles A., Austin, Tex., assignor to A. O. Long, Kansas City, Mo. Shirt collar supporter. 2,323,866; July 6.
Byron Jackson Co. (See Hertel, Richard K., assignor.)
Calavo Growers of California. (See Adams, Loyd, assignor.)
Calderazzo, Dominick J., Dolgeville, N. Y. Preparing heel templets for heel turning machines. 2,323,453; July 6.
California Pacific Service, Inc. (See Collins, Calhoun, assignor.)
Calkins, Claude C., and L. A. Hunt, Spokane, Wash., assignors to Calkins Manufacturing Company. Rotary rod weeder. 2,323,452; July 6.
Calkins, Claude C. (See Domrese, H., Calkins, and Hunt.)
Calkins Manufacturing Company. (See Calkins, C. C., and Hunt, assignors.)
Calkins Manufacturing Company. (See Domrese, H., Calkins, and Hunt, assignors.)
Campbell, Albert B., assignor to Campbell Products Co., Chicago, Ill. Lather producing machine. 2,323,377; July 6.
Campbell, Alvin A., Hackettstown, N. J. Saluting tube. 2,323,306; July 6.
Campbell, Fred R., Boston, Mass. X-ray fluoroscopic and radio graphic apparatus. 2,323,704; June 6.
Campbell, Hobart T. (See Beeton, E. E., and Campbell.)
Campbell Products Co. (See Campbell, Albert B., assignor.)
Campbell, Richard H., assignor to Webster Electric Company, Racine, Wis. Communication system. 2,323,307; July 6.
Carbide and Carbon Chemicals Corporation. (See Briggmann, George F., assignor.)
Carbide and Carbon Chemicals Corporation. (See Goodman, Henry G., Jr., assignor.)
Carnahan, Chalon W., Oak Park, assignor to Zenith Radio Corporation, Chicago, Ill. Wave amplitude limiting device. 2,323,880; July 6.
Carol, Max N., trustee. (See Hood, Arthur H., Jr., assignor.)
Carrington, Blake W., assignor to The General Industries Company, Elyria, Ohio. Centrifugal governor. 2,323,791; July 6.
Cary, Gwen A., Topeka, and L. H. Stanley, Madison, Kans. Hair drier shield. 2,323,515; July 6.
Castellan, Carl A., assignor to American Viscose Corporation, Wilmington, Del. Machine for cutting staple fibers. 2,323,644; July 6.
Caterpiller Tractor Co. (See Eberhard, Harmon S., assignor.)
Cattaneo, Alfred G., Berkeley, assignor to Shell Development Company, San Francisco, Calif. Spark plug. 2,323,792; July 6.
Cegelsky, Leo F. (See Dzula, Michael, assignor.)
Celanese Corporation of America. (See Dreyfus, Henry, assignor.)
Celanese Corporation of America. (See Hayto, H. B., and Mattinson, assignors.)
Chamberlain, Joseph W., Zeeland, Mich. Refrigerating apparatus. 2,323,308; July 6.
Chambers, Steven, assignor of one-half to J. J. Kern, New York, N. Y. Drainboard guard. 2,323,454; July 6.
Champion, Raymond D., San Gabriel, and L. E. Fry, Los Angeles, Calif. Liquid dispensing device. 2,323,378; July 6.
Chandler, Harvey J., et al. (See Bloodgood, Alonzo J., assignor.)
Charles, Ulysses G., et al. (See Mehl, Fred J., assignor.)
Chase, James W., Neenah, assignor to Marathon Paper Mills Company, Rothschild, Wis. Container. 2,323,447; July 6.

Chesterman Leeland Company. (See Mason, James H., assignor.)
Chicago Hardware Foundry Company. (See Franklin, Raymond J., assignor.)
Christiansen, Walter G., Glen Ridge, N. J., and A. E. Jurist, Brooklyn, assignors to E. R. Squibb & Sons, New York, N. Y. Medicinal agent. 2,323,309; July 6.
Cincinnati Bickford Tool Company, The. (See Schauer, Lawrence L., assignor.)
Cincinnati Shaper Company, The. (See Hazelton, Merrill W., assignor.)
Cipullo, Salvatore, Chicago, Ill. Gearshift mechanism. 2,323,516; July 6.
Clarin, David X., New York, N. Y. Container. 2,323,795; July 6.
Clark, Charles W., Orient, Ohio. Traffic signaling mechanism. 2,323,793; July 6.
Clark, Cornelius S., Norfolk, Va. Piston. 2,323,310; July 6.
Clark, Noble C., Ferndale, assignor to The Murray Corporation of America, Detroit, Mich. Seat construction. 2,323,794; July 6.
Clausen, Harry R., Chicago, Ill. Dentist drill control. 2,323,645; July 6.
Clem, James R., Dallas, Tex. Vending machine. 2,323,517; July 6.
Cochran, Clarence W., Arlington, Mass., assignor to Polaroid Corporation, Dover, Del. Spectacles. 2,323,518; July 6.
Coca-Cola Company, The. (See Kaliska, William G., assignor.)
Cole Electric Products Co. (See Lantz, William H., Jr., assignor.)
Cole, Frank B., Kokomo, Ind. Electric clock. 2,323,796; July 6.
Collins, Calhoun, assignor of two-fifths to California Pacific Service, Inc., and one-fifth to T. M. Ryerson, Bakersfield, Calif. Switch mechanism. 2,323,646; July 6.
Collins, Howard W., Newark, Ohio, assignor to Owens-Corning Fiberglas Corporation. Heat insulating construction. 2,323,297; July 6.
Colpron, Freda O., Warren, Minn. Receptacle. 2,323,379; July 6.
Colson, Herman H., Teaneck, N. J., assignor to Aluminum Company of America, Pittsburgh, Pa. Gauge positioning mechanism. 2,323,647; July 6.
Comet Model Airplane & Supply Company. (See Willard, Kenneth A., assignor.)
Consolidated Aircraft Corporation. (See Wheatley, William B., assignor.)
Cook, Elmer W., assignor to Tide Water Associated Oil Company, New York, N. Y. Lubricant. 2,323,797; July 6.
Cook, James L., Trinity Center, Calif. Cutting torch attachment. 2,323,298; July 6.
Cooper, Frank P., Cranford, N. J., assignor, by mesne assignments, to R. E. Ogden, New York, N. Y. Wall form tie. 2,323,705; July 6.
Craftsman Line-up Table Corporation. (See Davis, William M., assignor.)
Craig, Edward L., Charleston, W. Va. Surface covering. 2,323,299; July 6.
Crane, Carl J., and R. K. Stout, Dayton, Ohio. Automatic altitude control. 2,323,311; July 6.
Crawshaw, Stephen L., Pittsburgh, Pa., and J. R. Williams, Seattle, Wash., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Gear transmission drive. 2,323,648; July 6.
Cream Cone Machine Company, The. (See Taylor, Carl R., assignor.)
Creech, Jesse E., Jacksonville, Fla. Cell. 2,323,455; July 6.
Crimmins, William C., Marion, Ind., assignor to Sears, Roebuck and Co., Chicago, Ill. Electric torch. 2,323,312; July 6.
Crowley, Clyde A., Chicago, and G. H. Goodyear, Wilmette, assignors to The Huey Co., Chicago, Ill. Control of induction period in blueprint paper. 2,323,798; July 6.
Crowley, Clyde A., Chicago, and G. H. Goodyear, Wilmette, assignors to The Huey Co., Chicago, Ill. Control of induction period in blueprint paper. 2,323,799; July 6.
Curley, Morton B., and J. Kilbourne, Columbus, Ohio, assignors to The Jeffrey Manufacturing Company. Ventilator. 2,323,456; July 6.
Curtiss, Charles B., Bay City, Mich. Winch construction. 2,323,800; July 6.
Cutler-Hammer, Inc. (See Pell, Eric, assignor.)
D'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Interpolymers of an unsaturated alkyd resin and a 3-hydroxy alkene-1 polyester of a polycarboxylic acid. 2,323,706; July 6.
Danz, Harry O., assignor to American Blower Corporation, Detroit, Mich. Tube type collector. 2,323,707; July 6.
Danz, Harry O., assignor to American Blower Corporation, Detroit, Mich. Tube type collector. 2,323,708; July 6.
Davies, Reginald C., Walton, Liverpool, England, assignor to Dunlop Tire and Rubber Corporation, Buffalo, N. Y. Footwear and the manufacture thereof. 2,323,801; July 6.
Davis, Durward M., Vestal, assignor to International Business Machines Corporation, New York, N. Y. Screw machine. 2,323,380; July 6.
Davis, Ernest, assignor to The Prosperity Company, Inc., Syracuse, N. Y. Two hand control for presses. 2,323,457; July 6.
Davis, William M., Cambridge, Mass., assignor to Craftsman Line-up Table Corporation, Waltham, Mass. Marking device. 2,323,649; July 6.
Davison Chemical Corporation, The. (See Wilson, Alvin C., assignor.)
Dawson, John W., Auburndale, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electric discharge apparatus. 2,323,650; July 6.
Day, Harold M. (See Jayne, D. W., and Day.)
Dayton Rubber Manufacturing Company, The. (See Wagner, William T., assignor.)
Dean, Roy H., assignor to Ternstedt Manufacturing Company, Detroit, Mich. Vacuum operated window regulator. 2,323,519; July 6.
Deeley, Alfred H., Hawthorne, N. Y. Guard for shoe heels. 2,323,520; July 6.
Deere & Company. (See Silver, Walter H., assignor.)
De Journette, Alma M., Atlanta, Ga. Drawing set. 2,323,521; July 6.
De Journette, Alma M., Atlanta, Ga. Flat doll. 2,323,522; July 6.
De Laval Separator Company, The. (See Scott, Walter A., assignor.)
Dennstedt, Ingofroh, Cologne-Buchforst, Germany, assignor, by mesne assignments, to Jasco, Incorporated. Synthetic rubberlike latices. 2,323,313; July 6.
Detrick, M. H., Company. (See Hosbein, Louis H., assignor.)
Deuring, William G., Cleveland, Ohio. Overhead sliding door. 2,323,585; July 6.
De Valera, Ernest G., New York, N. Y. Circuit controlling means. 2,323,459; July 6.
Dexter, John F., Jamaica, N. Y. Curtain rod bracket. 2,323,381; July 6.
Dibovsky, Victor V., London, England. Rotary blower. 2,323,382; July 6.
Dick, Burns, Ferguson, and F. H. Stroup, Kirkwood, assignors to Wagner Electric Corporation, St. Louis, Mo. Lubricating and oil separating system for compressors. 2,323,802; July 6.
Dickey, Joseph B., and J. G. McNally, assignors to Eastman Kodak Company, Rochester, N. Y. Azo compounds and material colored therewith. 2,323,314; July 6.
Dickey, Joseph B., and J. G. McNally, assignors to Eastman Kodak Company, Rochester, N. Y. Azo compounds and material colored therewith. 2,323,315; July 6.
Dickten, Emil, Jr., Totowa, N. J., and H. C. Harrison, Port Washington, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Signaling device. 2,323,803; July 6.
Diedrich, Paul. (See Dohrn, M., and Diedrich.)
Dienna, Daniel F., Jr., Allentown, Pa., assignor to Remington Rand Inc., Buffalo, N. Y. Foldover check form. 2,323,586; July 6.
Dieter, William L., Allentown, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Seam construction. 2,323,316; July 6.
Dieterle, Henry F., Cedar Grove, N. J., assignor to American Cyanamid Company, New York, N. Y. Waterproof ultramarine. 2,323,748; July 6.
Dieterle, Henry F., Cedar Grove, N. J., assignor to American Cyanamid Company, New York, N. Y. Water repellant ultramarine. 2,323,749; July 6.
Doan, Donald J. (See McMullen, Earle W., and Doan.)
Doering, Charles, et al. (See Doering, H. H., and Skoglund, assignors.)
Doering, Henry H., and B. J. Skoglund, assignors to C. and H. H. Doering, Chicago, Ill. Molding apparatus for individual edible spreads. 2,323,523; July 6.
Dohrn, Max, Berlin-Charlottenburg, and P. Dietrich, Finkenkrug, Orthadelland, Germany, assignors to Schering Corporation, Bloomfield, N. J. Therapeutically valuable compounds and producing the same. 2,323,651; July 6.
Domrese, Henry, Waterville, and C. C. Calkins and L. A. Hunt, Spokane, Wash., assignors to Calkins Manufacturing Company. Rotary subsoiler. 2,323,460; July 6.
Donelson, William W., assignor to The Federal Flooring Corporation, Boston, Mass. Sparkproof flooring. 2,323,461; July 6.
Downs, George F., Jr., Bartlesville, Okla., assignor to Phillips Petroleum Company. Drying process. 2,323,524; July 6.
Dowty Corporation, The. (See Armstrong, William, assignor.)
Drapeau, Joseph E., Jr. (See Burruss, D. N., Jr., and Drapeau.)
Dreyfus, Henry, London, England, assignor to Celanese Corporation of America. Production of artificial materials. 2,323,383; July 6.
Discoll, Philip J., Newton, assignor to C. D. Stewart, Boston, Mass. Citronella candle. 2,323,804; July 6.

Duffy, David H., assignor to Beech Aircraft Corporation, Wichita, Kans. Contouring machine. 2,323,587; July 6.
Duncan Electric Manufacturing Company. (See Green, Stanley S., assignor.)
Dunlay, Edward E. (See McAfee, A. M., and Dunlay.)
Dunlop Tire and Rubber Corporation. (See Davies, Reginald C., assignor.)
Dunmore, Francis, and E. G. Lapham, Washington, D. C., assignors to the Government of the United States of America, as represented by the Secretary of Commerce. Altitude measuring. 2,323,317; July 6.
Dunn, Robert A., Los Angeles, Calif. Apparatus for transporting materials. 2,323,458; July 6.
Du Pont, E. I., de Nemours & Company. (See Farlow, Mark W., assignor.)
Du Pont, E. I., de Nemours & Company. (See Kirby, J. E., and Werntz, assignors.)
Du Pont, E. I., de Nemours & Company. (See McQueen, David M., assignor.)
Du Pont, E. I., de Nemours & Company. (See Wilson, Cyril D., assignor.)
Dzula, Michael, assignor of one-half to L. F. Cegelsky, Albuquerque, N. Mex. Beehive cover. 2,323,805; July 6.
Eagle-Picher Lead Company, The. (See McMullen, E. W., and Doan, assignors.)
Eagle-Picher Lead Company, The. (See Turbett, Forrest L., assignor.)
Eames, William F., Westfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Elevator control system. 2,323,652; July 6.
Eastman Kodak Company. (See Dickey, J. B., and McNally, assignors.)
Easy Washing Machine Corporation. (See Litle, Thomas J., Jr., assignor.)
Ebel, William K., Kingsville, and A. E. Houstle, Jr., Baltimore, Md., N. F. Scudder, Los Angeles, Calif., and W. B. O'Neal, Baltimore, Md., assignors to The Glenn L. Martin Company. Feeding of fuel to engines. 2,323,525; July 6.
Eberhard, Harmon S., Peoria, Ill., assignor to Caterpillar Tractor Co., San Leandro, Calif. Transmission. 2,323,384; July 6.
Eddy, Edwyn A., Stewart Manor, Long Island, assignor to Brewster Aeronautical Corporation, Long Island City, N. Y. Airplane retractible landing gear. 2,323,385; July 6.
Edelmann, Leo, Chicago, Ill. Thermohydrometer. 2,323,386; July 6.
Edelstein, Oscar, New Haven, Conn., assignor to The Pond Lily Company. Producing water repellent textile material. 2,323,387; July 6.
Electric & Musical Industries, Limited. (See Spencer, Rolf E., assignor.)
Elgin Softener Corporation. (See McGill, Chester T., assignor.)
Eliason, Carl J. E., Sayner, assignor to The Four Wheel Drive Auto Co., Clintonville, Wis. Propulsion mechanism for motor toboggans. 2,323,526; July 6.
Ell, Lars J. F. (See Zetterstrom, C. G., and Ell.)
Ellison, Lewis M., Winnetka, Ill. Nonparallax pointer. 2,323,709; July 6.
Enns, Waldo E., Portland, Oreg. Apparatus for A. C. network analysis. 2,323,588; July 6.
Ericson, L. M., Telefonaktiebolaget. (See Nyberg, Ernst V., assignor.)
Ericks, Walter P. (See Moore, L. P., and Ericks.)
Erickson, Donald R., and P. J. Thoma, assignors to Michigan Research Laboratories, Inc., Kalamazoo, Mich. Printing ink. 2,323,710; July 6.
Escalante, José, & Company. (See Lilienfield, Eugene W., assignor.)
Evans Products Company. (See Anderson, Raymond M., assignor.)
Ewers, Rolo S., Glendale, Ariz. Saw filing machine. 2,323,527; July 6.
Farkas, Mihaly, Minneapolis, Minn. Fish bag. 2,323,318; July 6.
Farlow, Mark W., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Saturated aliphatic higher monoaminomonocarboxylic acid amines and their preparation. 2,323,806; July 6.
Farnsworth Television and Radio Corporation. (See Bamford, Harry S., assignor.)
Farnsworth Television and Radio Corporation. (See Nelson, Arthur L., assignor.)
Faulhaber, Frederick A., Detroit, assignor to The Gear Grinding Machine Company, Hamtramck, Mich. Apparatus for forming templates. 2,323,528; July 6.
Federal Flooring Corporation, The. (See Donelson, William W., assignor.)
Feemster, William R., Chicago, Ill. Bean slicer. 2,323,863; July 6.
Ferris, Birdie D., executrix. (See Ferris, William D.)
Ferris, Walter, assignor to The Oilgear Company, Milwaukee, Wis. Hydraulic drive. 2,323,463; July 6.
Ferris, William D., deceased; B. D. Ferris, executrix, and C. R. Wolf, assignors to Frantz Manufacturing Co., Sterling, Ill. Garage door. 2,323,807; July 6.
Fichter, George W. (See Thurnauer, H., and Fichter.)
Filzer, Christian G., Erie, Pa. Apparatus for violet ray treatment. 2,323,529; July 6.
Finnell, Charles S., Oklahoma City, Okla. Magnetic guide for tools. 2,323,319; July 6.
Fischer, Kermit K., Philadelphia, Pa. Rotameter. 2,323,320; July 6.
Fitch, Clyde J., Endwell, and K. R. Schneider, Endicott, assignors to International Business Machines Corporation, New York, N. Y. Telegraph printer. 2,323,388; July 6.
Flanagan, George A., Oakland, Calif. Thermometer shaker. 2,323,808; July 6.
Flink, John H., Watertown, Mass., assignor to The B. F. Goodrich Company, New York, N. Y. Apparatus for centering shoe soles and the like. 2,323,809; July 6.
Folger, Paul. (See Yates, Richard, assignor.)
Folmer Graflex Corporation, The. (See Korling, Torkel, assignor.)
Foltz, Stewart P., New Castle, Pa. Heating apparatus. 2,323,530; July 6.
Fontaine, Robert A., Martinsville, Va. Brick grab. 2,323,810; July 6.
Fontaine, Robert A., Martinsville, Va. Brick grab. 2,323,811; July 6.
Foster, Benjamin N., assignor to Kingsbury Machine Tool Corporation, Keene, N. H. Separable assembly for electrical units. 2,323,812; July 6.
Four Wheel Drive Auto Co., The. (See Eliason, Carl J. E., assignor.)
Fowler, William R., Jr., Chicago, Ill., assignor to Hall Brothers, Incorporated, Kansas City, Mo. Marker. 2,323,653; July 6.
Franck, George E., Riverside, assignor to The Imperial Brass Manufacturing Company, Chicago, Ill. Diaphragm valve. 2,323,531; July 6.
Franklin, Raymond J., Chicago, assignor to Chicago Hardware Foundry Company, North Chicago, Ill. Welding electrode. 2,323,711; July 6.
Frantz Manufacturing Co. (See Ferris, W. D., and Wolf, assignors.)
Fred, Selim A., assignor to Heywood-Wakefield Company, Gardner, Mass. Wheel mounting. 2,323,813; July 6.
Frederick Post Company, The. (See Hinman, W. M., and Hollmann, assignors.)
Frei, Jakob R., Sidney, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Switch. 2,323,389; July 6.
Frelberg, Stanley B., Cincinnati, Ohio. Bookkeeping or accounting aid. 2,323,462; July 6.
Freshman, A. E., Company. (See Freshman, Aubrey E., assignor.)
Freshman, Aubrey E., St. Louis, Mo., assignor to A. E. Freshman Company. Sink cabinet. 2,323,589; July 6.
Frey, Irvin J., Lakewood, Ohio, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Trimmer mechanism for sewing machines. 2,323,750; July 6.
Frick Company. (See Shenton, F., and Buehler, assignors.)
Friedman, Meyer, New York, N. Y. Pocket for garments. 2,323,390; July 6.
Fröhlich, Alfred, W. Schneider, Dessau, and P. Heisel, Gersthofen, Germany, assignor to General Aniline & Film Corporation, New York, N. Y. Photographic color picture. 2,323,590; July 6.
Fry, Lyle E. (See Champion, R. D., and Fry.)
Fuller, Fred R., Bay Village, Ohio. Container for pictures and the like. 2,323,532; July 6.
Fulton Sylphon Company, The. (See Giesler, Jean V., assignor.)
Futral, Samuel M., Rodessa, La. Hydraulic tubing foot. 2,323,321; July 6.
G-H Specialty Co. (See Schmidt, E. L., and Schwabe, assignors.)
Galanos, Harry, et al. (See Brewer, Lewis E., assignor.)
Gans, David M., Bronx, assignor to Interchemical Corporation, New York, N. Y. Rubber containing textile printing paste. 2,323,591; July 6.
Gear Grinding Machine Company, The. (See Faulhaber, Frederick A., assignor.)
Geisse, John H., Madison, Wis. Aviation ground training machine. 2,323,322; July 6.
General Aniline & Film Corporation. (See Frölich, A., Schneider, and Heisel, assignors.)
General Aniline & Film Corporation. (See Wagner, Ferdinand, assignor.)
General Cable Corporation. (See Kauth, Henry J., assignor.)
General Electric Company. (See Bailey, Carl A., assignor.)
General Electric Company. (See D'Alelio, Gaetano F., assignor.)
General Electric Company. (See Kuehni, Hans P., assignor.)
General Electric Company. (See Lennox Thomas C., assignor.)
General Electric Company. (See Ogden, Harold S., assignor.)
General Electric Company. (See Tritle, John F., assignor.)
General Electric Company. (See Slinger, Robert N., assignor.)
General Fireproofing Company, The. (See Straubel, Clarence W., assignor.)
General Industries Company, The. (See Carrington, Blake W., assignor.)

General Motors Corporation. (See Mackie, David S., assignor.)
George, Ralph W., Riverhead, N. Y., assignor to Radio Corporation of America. Measurement and recording of transient peak voltages. 2,323,762; July 6.
George, Thomas J. (See Hammond, L., and George.)
Gerst, Chris. (See Jaeger, G., Bohmer, and Gerst.)
Giesler, Jean V., assignor to The Fulton Sylphon Company, Knoxville, Tenn. Temperature regulator. 2,323,533; July 6.
Gillette Safety Razor Company. (See Hanley, John A., assignor.)
Glessner, Donald P., assignor to Akron Brass Manufacturing Company, Inc., Wooster, Ohio. Spray nozzle. 2,323,464; July 6.
Glidden Company, The. (See Burruss, D. N., Jr., and Drapeau, assignors.)
Goddard, De Witt R., Riverhead, N. Y., assignor to Radio Corporation of America. Short dot test equipment. 2,323,534; July 6.
Goodman, Henry G., Jr., Pittsburgh, Pa., assignor to Carbide and Carbon Chemicals Corporation. Beta-amino acid amides and making same. 2,323,391; July 6.
Goodman Manufacturing Company. (See Giedess, Anthony R., assignor.)
Goodman Manufacturing Company. (See Lee, Arthur L., assignor.)
Goodman Manufacturing Company. (See Sloane, William W., assignor.)
Goodrich, B. F., Company, The. (See Flink, John H., assignor.)
Goodrich, B. F., Company, The. (See Jones, P. C., and Mathes, assignors.)
Goodyear, George H. (See Crowley, C. A., and Goodyear.)
Gorden, Walter L., assignor to Mall Tool Company, Chicago, Ill. Engine starter. 2,323,535; July 6.
Gordy, Albert F., Los Angeles, and A. F. Rade, Wilmar, assignors of thirty-one and two-thirds per cent to A. M. Rex, South Gate, Calif. Clamping tool. 2,323,654; July 6.
Gottfried, Siegfried, Budapest, Hungary, assignor to Pannonia (London) Limited, London, England. Treating pelts or furs. 2,323,751; July 6.
Government of the United States of America, as represented by the Secretary of Commerce. (See Dunmore, F., and Lapham, assignors.)
Graber, Jacob. (See Strassman, Otto A., assignor.)
Green, Stanley S., assignor to Duncan Electric Manufacturing Company, Lafayette, Ind. Damping unit for watt-hour meters. 2,323,465; July 6.
Green, Vernon L. (See Nystrom, K. F., and Green.)
Gregory, John T., Little Rock, Ark. Liquefied gas storage and dispensing apparatus. 2,323,763; July 6.
Griffin, Percy M., Albany, N. Y. Row-facing oarlock. 2,323,323; July 6.
Griffith, Carroll L., assignor to The Griffith Laboratories, Inc., Chicago, Ill. Seasoning composition and carrier. 2,323,466; July 6.
Griffith Laboratories, Inc., The. (See Griffith, Carroll L., assignor.)
Guardian Electric Manufacturing Co. (See Obszarny, Thedore, assignor.)
Gulf Oil Corporation. (See McAfee, A. M., and Dunlay, assignors.)
Gump, B. F., Co. (See Hazle, Albert J., Jr., assignor.)
Gunberg, Harry W., West Hartford, assignor to United Aircraft Corporation, East Hartford, Conn. Two-speed supercharger drive control. 2,323,592; July 6.
Gustafsson, Eric, and W. L. Wilmes, assignors to Binks Manufacturing Company, Chicago, Ill. Automatic drain valve. 2,323,764; July 6.
Guyer, Reynolds, assignor to Waldorf Paper Products Company, St. Paul, Minn. Packing containers. 2,323,467; July 6.
Haberstump, Alfred H., assignor to The Murray Corporation of America, Detroit, Mich. Washing machine. 2,323,765; July 6.
Haley, Hugh D., Drexel Hill, Pa., assignor to American Viscose Corporation, Wilmington, Del. Centrifugal bucket. 2,323,712; July 6.
Hall Brothers, Incorporated. (See Fowler, William R., Jr., assignor.)
Hammer, Irvin G., Washington, D. C., assignor to Underwood Elliott Fisher Company, New York, N. Y. Accounting machine. 2,323,766; July 6.
Hammond Instrument Company. (See Hammond, L., and (George, assignor.)
Hammond, John H., Jr., Gloucester, Mass. Automatic ignition and gas shutoff mechanism. 2,323,767; July 6.
Hammond, Laurens, and T. J. George; said George assignor to Hammond Instrument Company, Chicago, Ill. Electrical musical instrument. 2,323,392; July 6.
Hampel, Clifford A., and M. C. Taylor, Niagara Falls, assignors to The Mathieson Alkali Works, Inc., New York, N. Y. Manufacture of chlorine dioxide. 2,323,593; July 6.
Hampel, Clifford A., Niagara Falls, assignor to The Mathieson Alkali Works, Inc., New York, N. Y. Production of chlorine dioxide by reaction of chlorites and aldehydes. 2,323,594; July 6.
Hanisch, Arthur O., Altadena, Calif. Mascara applicator and curler. 2,323,595; July 6.
Hanley, John A., Norton, Conn., assignor to Gillette Safety Razor Company, Boston, Mass. Mount for shearing heads. 2,323,655; July 6.
Hanna, Clinton R., Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Strip straightener. 2,323,768; July 6.
Hansell, Clarence W., Port Jefferson, N. Y., assignor to Radio Corporation of America. Frequency modulation receiver. 2,323,596; July 6.
Hanselman, John H., Des Moines, Iowa. Suction fan. 2,323,536; July 6.
Hansen, John, Bettendorf, Iowa, assignor to U. S. Slicing Machine Company, La Porte, Ind. Meat tendering machine. 2,323,769; July 6.
Hansgirg, Fritz J., San Mateo, assignor to Marine Magnesium Products Corporation, South San Francisco, Calif. Manufacturing metallic magnesium. 2,323,597; July 6.
Hanson, Clifford, Detroit, Mich. Finishing tool for metal turning. 2,323,324; July 6.
Harber, Laurence S., assignor to Baker Perkins Limited, Peterborough, England. Manufacture of bread. 2,323,537; July 6.
Harmon, John E., Columbus, Ohio. Making screens. 2,323,713; July 6.
Harris, Eliot H., New York, N. Y. Acoustic attenuator for air impellers. 2,323,394; July 6.
Harrison, Henry C. (See Dickten, E., Jr., and Harrison.)
Hart, George T., Jr., and E. E. Winkley, Lynn, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J. Sole attaching in electrostatic fields. 2,323,325; July 6.
Hartmann, Paul, New York, N. Y. Binder folder. 2,323,393; July 6.
Harvey, Robert L., Collingswood, N. J., assignor to Radio Corporation of America. Variable permeability tuning system. 2,323,376; July 6.
Harwood, Kenneth J., Neenah, Wis., assignor to International Cellucotton Products Company, Chicago, Ill. Dispensing carton. 2,323,395; July 6.
Hathaway, Jarrett L., Manhasset, N. Y., assignor to Radio Corporation of America. Variable signal response network. 2,323,598; July 6.
Hathaway, Louis M. (See Shannon, J. W., Hathaway and McKee.)
Hawk, Henry W. N., Merchantville, N. J., assignor to Radio Corporation of America. Finishing cut-crystal elements. 2,323,599; July 6.
Hayto, Harold B., London, and W. B. Mattinson, Spondon, near Derby, England, assignors to Celanese Corporation of America. Knitted fabric and its production. 2,323,396; July 6.
Hazelton, Merrill W., assignor to The Cincinnati Shaper Company, Cincinnati, Ohio. Hold-down means for shears and the like. 2,323,770; July 6.
Hazle, Albert J., Jr., assignor to B. F. Gump Co., Chicago, Ill. Method of and apparatus for treating coffee. 2,323,771; July 6.
Heald Machine Company, The. (See Scott, Gherald D., assignor.)
Heisel, Paul. (See Frölich, A., Schneider and Heisel.)
Helfenstein, John, Bismarck, N. Dak. Fish hook. 2,323,656; July 6.
Hemphill Company. (See Smith, William L., Jr., assignor.)
Henning, Harley A., Basking Ridge, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Coin disposal unit. 2,323,657; July 6.
Hercules Powder Company. (See Humphrey, Irvin W., assignor.)
Hertel, Richard K., Los Angeles, assignor to Byron Jackson Co., Huntington Park, Calif. Latch mechanism for hooks. 2,323,326; July 6.
Hester, William F., Drexel Hill, assignor to Röhm & Haas Company, Philadelphia, Pa. Pyrethrum activated and stabilized with polyetheramines. 2,323,658; July 6.
Hevers, Sylvester E., Waterford, N. Y. Teapot. 2,323,468; July 6.
Heybourne, Victor C., Tonawanda, assignor to Remington Rand Inc., Buffalo, N. Y. Document photographing camera. 2,323,600; July 6.
Heywood-Wakefield Company. (See Fred, Selim A., assignor.)
Higgins, Martin G. (See McManus, J. A., and Higgins.)
Hildebrandt, Friedrich. (See Schoeller, W., Serini, Hildebrandt, Strassberger, Kathol, and Logemann.)
Hill, Aubrey P. and G. W., Cook, Minn. Door or panel. 2,323,327; July 6.
Hill, Glenn W. (See Hill, Aubrey P. and G. W.)
Hill, William H., Mount Lebanon, Pa., assignor to American Cyanamid Company, New York, N. Y. Organic mercury compound. 2,323,397; July 6.
Hillier, James, Collingswood, N. J., assignor to Radio Corporation of America. Projection lens for electron microscopes. 2,323,328; July 6.
Hinman, Walker M., Winnetka, and W. G. Hollmann, assignors to The Frederick Post Company, Chicago, Ill. Manufacture of transparentized sheet for drawing, tracing, and copy reproduction. 2,323,469; July 6.
Hoague-Sprague Corporation. (See Sillars, George S., assignor.)
Hobbs, Leonard S., West Hartford, assignor to United Aircraft Corporation, East Hartford, Conn. Two-speed supercharger drive. 2,323,601; July 6.

Hoffmann, Gilbert D. (See Scherff, H. H., and Hoffmann.)
Holley, Earl, et al. (See Beard, Bert, assignor.)
Holley, George M., et al. (See Beard, Bert, assignor.)
Hollmann, Walter G. (See Hinman, W. M., and Hollmann.)
Holsclaw, Niel A., Chicago, assignor of one-half to F. E. Sudlow, Rock Island, Ill. Razor. 2,323,659; July 6.
Holt, Edman F., assignor to P. R. Mallory & Co., Inc., Indianapolis, Ind. Flash-arc welding. 2,323,660; July 6.
Hood, Andrew, Carmarthenshire, Wales. Construction of concrete piles or the like. 2,323,772; July 6.
Hood, Arthur H., Jr., Philadelphia, Pa., assignor to M. N. Carol, as trustee. Cigarette rolling form. 2,323,867; July 6.
Horton, Erwin C., Hamburg, D. N. Mussen, Williamsville, and A. Rappl, assignors to Trico Products Corporation, Buffalo, N. Y. Windshield cleaner control. 2,323,470; July 6.
Hosbein, Louis H., Glencoe, assignor to M. H. Detrick Company, Chicago, Ill. Furnace wall construction. 2,323,661; July 6.
Hothersall, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Can making machine. 2,323,329; July 6.
Houstle, Arch E. (See Ebel, W. K., Houstle, Scudder, and O'Neal.)
Howey Walter, Boston, Mass. Photoengraving process and product. 2,323,752; July 6.
Huey Co., The. (See Crowley, C. A., and Goodyear, assignors.)
Hughes, Everett C., Cleveland Heights, assignor to The Standard Oil Company, Cleveland, Ohio. Preparation of oxide type catalysts. 2,323,868; July 6.
Humphrey, Irvin W., assignor to Hercules Powder Company, Wilmington, Del. Lubricating composition. 2,323,471; July 6.
Hunt, Laurence A. (See Calkins, C. C., and Hunt.)
Hunt, Laurence A. (See Domress, H., Calkins, and Hunt.)
Hunt, Seymour, Flushing, N. Y., assignor to Radio Corporation of America. Frequency modulation detector. 2,323,603; July 6.
Hydraulic Development Corporation. (See Muller, Johan A., assignor.)
Hyland, Daniel F., J. C. Stiles, and H. L. and J. Brenner, St. Louis, Mo., assignors, by mesne assignments, to Arch-O-Graph Company. Apparatus for fitting shoes to feet. 2,323,538; July 6.
Hyland, Daniel F., J. C. Stiles, and H. L. and J. Brenner, assignors to Arch-O-Graph Company, St. Louis, Mo. Fitting shoes to feet. 2,323,539; July 6.
Hyland, Daniel F., J. C. Stiles, and H. L. and J. Brenner, assignors to Arch-O-Graph Company, St. Louis, Mo. Foot modeling device. 2,323,540; July 6.
Hyland, Daniel F., J. C. Stiles, St. Louis, H. L. Brenner, Webster Groves, and J. Brenner, assignors to Arch-O-Graph Company, St. Louis, Mo. Lift-blank and holder therefor. 2,323,541; July 6.
Hyland, William M., Flint, Mich. Ball bearing equalizing table slide. 2,323,604; July 6.
Industrial Rayon Corporation. (See Torrence, G. P., Bergmann, and Knebusch, assignors.)
Imperial Brass Manufacturing Company, The. (See Franck, George E., assignor.)
Iuterchemical Corporation. (See Gans, David M., assignor.)
International Business Machines Corporation. (See Bryce, James W., assignor.)
International Business Machines Corporation. (See Davis, Durward M., assignor.)
International Business Machines Corporation. (See Fitch, C. J., and Schneider, assignors.)
International Business Machines Corporation. (See Tauschek, Gustav, assignor.)
International Cellucotton Products Company. (See Harwood, Kenneth J., assignor.)
International Projector Corporation. (See Kindelmann, A., and Boecking, assignors.)
International Standard Electric Corporation. (See Motz, Hans, assignor.)
Irish, Charles F., Bratenahl, Ohio. Apparatus for the treatment of soil. 2,323,773; July 6.
Irwin, Justus C., assignor to O. O. Rothe, Minneapolis, Minn. Reseating tool. 2,323,398; July 6.
Jackson, Clarence S. (See Penney, H. D., and Jackson.)
Jacobi, Edward N., assignor to Briggs & Stratton Corporation, Milwaukee, Wis. Spark plug shield. 2,323,399; July 6.
Jacobi, Edward N., assignor to Brigg & Stratton Corporation, Milwaukee, Wis. Lock. 2,323,400; July 6.
Jacobs, F. L., Company. (See Levon, Walter P., assignor.)
Jacobs, Theodore R., Duluth, Minn. Airplane wing construction. 2,323,542; July 6.
Jacoel, Isidore, Buffalo, N. Y. Cable splicer. 2,323,774; July 6.
Jaeger, Gebhard, and C. I. Bohmer, Columbus, Ohio, and C. Gerst, Detroit, Mich., assignors to The Jaeger Machine Company, Columbus, Ohio. Truck mixer transmission control. 2,323,753; July 6.
Jaeger Machine Company, The. (See Jaeger, G., Bohmer, and Gerst, assignors.)
Jamieson, C. E., & Company. (See Weckesser, Charles L., assignor.)
Jasco, Incorporated. (See Dennstedt, Ingofroh, assignor.)
Jayne, David W., Jr., Old Greenwich, and H. M. Day, Cos Cob, Conn., assignors to American Cyanamid Company, New York, N. Y. Preparing guanyl urea formate. 2,323,869; July 6.
Jeffrey Manufacturing Company, The. (See Curley, M. B., and Kilbourne, assignors.)
Jeffrey, Harold T. (See Yeomans, C., and Jeffrey.)
Jenkins, Charles F., Laughlintown, and G. A. Moore, Edgewood, Pittsburgh, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Railway motor frame. 2,323,662; July 6.
Jennings, Oliver S. (See Baxter, H. G., and Jennings.)
Johnson, Carl G., and J. A. Boyajian, assignors to J. P. Seeburg Corporation, Chicago, Ill. Phonograph. 2,323,472; July 6.
Johnson, Carl W., Brooklyn, N. Y., assignor to American Machine and Foundry Company. Lining guide for tie sewing machines. 2,323,543; July 6.
Johnson, Floyd D., Forest Hills, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electrical protective system. 2,323,776; July 6.
Johnson, Glen F., assignor to Bower Roller Bearing Company, Detroit, Mich. Method and machine for truing grinding wheels. 2,323,401; July 6.
Johnson, John M., Lindsborg, Kans. Combined sweep rake and stacker. 2,323,605; July 6.
Jones, Basil E. (See Parke, P., Tully, Andersen, and Jones.)
Jones & Laughlin Steel Corporation. (See Webster, Richard R., assignor.)
Jones, Paul C., and R. A. Mathes, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Vulcanization of rubber. 2,323,775; July 6.
Jones, Whitney W., Philadelphia, Pa. Parking meter. 2,323,402; July 6.
Jorgenson, Arthur P., Racine, Wis., assignor to Landon P. Smith, Inc., Irvington, N. J. Paint-mixing machine. 2,323,403; July 6.
Jurist, Alfred E. (See Christiansen, W. G., and Jurist.)
Kaliska, William G., Atlanta, Ga., assignor to The Coca-Cola Company, Wilmington, Del. Cooler lid. 2,323,870; July 6.
Kathol, Josef. (See Schoeller, W., Serini, Hildebrandt, Strassberger, Kathol, and Logemann.)
Katz, Abraham, New York, N. Y. Garment construction. 2,323,777; July 6.
Kauffman, Walter L., II, assignor to Lovell Manufacturing Company, Erie, Pa. Wringer. 2,323,330; July 6.
Kauffman, Walter L., II, assignor to Lovell Manufacturing Company, Erie, Pa. Wringer and the like. 2,323,331; July 6.
Kauffman, Walter L., II, assignor to Lovell Manufacturing Company, Erie, Pa. Wringer and the like. 2,323,332; July 6.
Kauffman, Walter L., II, assignor to Lovell Manufacturing Company, Erie, Pa. Wringer. 2,323,778; July 26.
Kauth, Henry J., Rome, assignor to General Cable Corporation, New York, N. Y. Insulating enamel for electric conductors. 2,323,333; July 6.
Kauth, Henry J., Rome, assignor to General Cable Corporation, New York, N. Y. Enamel compositions. 2,323,334; July 6.
Kaye, Robert L., Newark, N. J. Carton having attached carton opener. 2,323,335; July 6.
Kelley, Elmer E., Hartford, Conn. Machine tool. 2,323,663; July 6.
Kellogg, Edward W., Moorestown, N. J., assignor to Radio Corporation of America. Sound record producing apparatus. 2,323,606; July 6.
Kellogg, Edward W., Indianapolis, Ind., assignor to Radio Corporation of America. Photographic sound recording. 2,323,607; July 6.
Kennedy, Leo M., Hamilton, Ontario, Canada, assignor to Marathon Paper Mills Company. Carton. 2,323,779; July 6.
Kern, Jerome J. (See Chambers, Steven, assignor.)
Kesling, Elmer G., Bloomfield, Mo. Gear shifting mechanism. 2,323,878; July 6.
Kester, Arthur S., assignor to Rauland Corporation, Chicago, Ill. Instrument dial lock. 2,323,608; July 6.
Kienle, Roy H., Bound Brook, and A. L. Peiker, East Bound Brook, N. J., assignors to American Cyanamid Company, New York, N. Y. Coloring material. 2,323,871; July 6.
Kiesskalt, Siegfried, and E. Korinth, Frankfort-on-the-Main, Germany; vested in the Alien Property Custodian. Oscillation tube mill. 2,323,544; July 6.
Kihn, Harry, Audubon, N. J., assignor to Radio Corporation of America. Discriminator circuit. 2,323,609; July 6.
Kilbourne, James. (See Curley, M. B., and Kilbourne.)
Kindelmann, Albert, Floral Park, and E. Boecking, Great Kills, assignors to International Projector Corporation, New York, N. Y. Speed controlled mechanism. 2,323,664; July 6.
Kingsbury Machine Tool Corporation. (See Foster, Benjamin N., assignor.)
Kirby, James E., and J. H. Werntz, Brandywine Hundred, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Chemical process. 2,323,714; July 6.

Kleinfeld, Leonard S. (See Richter, H., Wahlbeck, and Klienfeld.)
Kline, John E., Grosse Pointe Farms, assignor to Micromatic Hone Corporation, Detroit, Mich. Honing machine. 2,323,780; July 6.
Knebusch, Walter F. (See Torrence, G. P., Bergmann, and Knebusch.)
Knorr, Earl S., Detroit, Mich., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Rubber and asphalt cement and article comprising same. 2,323,336; July 6.
Koch, Winfield R., Haddonfield, N. J., assignor to Radio Corporation of America. Piezo electric crystal assembly. 2,323,610; July 6.
Köhler, Franz, Darmstadt, Germany, assignor to Rohn & Haas Company, Philadelphia, Pa. Preparation of allyl alcohol and its homologues. 2,323,781; July 6.
Korinth, Erich. (See Klesskalt, S., and Korinth.)
Korling, Torkel, Chicago, Ill., assignor to The Folmer Graflex Corporation, Rochester, N. Y. All-metal folding camera stand. 2,323,473; July 6.
Korn, Percival P. (See Woolf, W. H., and Korn.)
Kosiancic, Valentine J., Crescent Valley, British Columbia, Canada. Handle reinforcing device. 2,323,545; July 6.
Kraft, Wheaton W., Searsdale, assignor to The Lummus Company, New York, N. Y. Heat exchanger. 2,323,474; July 6.
Krehbiel, Benjamin F. (See Porter, G. W., and Krehbiel.)
Kretchmer, Murray, New York, N. Y. Collapsible box. 2,323,782; July 6.
Krueger, Edwin W., River Forest, Ill. Ring forming machine. 2,323,546; July 6.
Kuchar, Joseph, assignor to Athey Truss Wheel Company, Chicago, Ill. Material handling and loading apparatus. 2,323,404; July 6.
Kuehni, Hans P., Schenectady, N. Y., assignor to General Electric Company. Thermal testing apparatus. 2,323,715; July 6.
La Clair, Norman W. (See Matthews, E. F., and La Clair.)
Lamb, Robert H., and R. H. Baker, assignors to The Murray Corporation of America, Detroit, Mich. Dimpling and riveting device. 2,323,814; July 6.
Landon, William C., assignor to Wausau Motor Parts Co., Wausau, Wis. Oil control piston ring. 2,323,815; July 6.
Lang, Frederick W., Chicago, Ill., assignor to Wood Conversion Company, Cloquet, Minn. Slide rule for wall patterns and areas. 2,323,475; July 6.
Lantz, William H., Jr., East Orange, N. J., assignor to Cole Electric Products Co., Inc., Long Island City, N. Y. Arc interrupting device. 2,323,476; July 6.
Lapham, Evan G. (See Dunmore, F., and Lapham.)
Lasker, William W., Jr., executor. (See Lasker, W. W., and Mueller.)
Lasker, William W., deceased, by W. W. Lasker, Jr., executor, Brooklyn, N. Y., and J. Mueller, North Bergen, N. J., assignors to Remington Rand Inc., Buffalo, N. Y. Tabulating and accounting machine. 2,323,816; July 6.
Lear Avia, Inc. (See Lear, William P., assignor.)
Lear, William P., Dayton, assignor, by mesne assignments, to Lear Avia, Inc., Piqua, Ohio. Radio navigation system. 2,323,337; July 6.
Le Bleu, Charles, Los Angeles, Calif. Pertaining to garbage disposal. 2,323,611; July 6.
Lee, Arthur L., Oakmont, Pa., assignor, by mesne assignments, to Goodman Manufacturing Company, Chicago, Ill. Mining machine carrier. 2,323,817; July 6.
Lefferts, William. (See Boho, Anton E., assignor.)
Lennox, Thomas C., Pittsfield, Mass., assignor to General Electric Company. Electric circuit. 2,323,716; July 6.
Lessmann, Gerhard P., Forest Hills, assignor to Westinghouse Electric & Manufacturing Company. East Pittsburgh, Pa. Tensiometer. 2,323,818; July 6.
Levon, Walter P., assignor to F. L. Jacobs Company, Detroit, Mich. Foldable top structure. 2,323,547; July 6.
Lewis, Benn, Maplewood, N. J. Form shaping and constricting garment. 2,323,717; July 6.
Lewis, James G., Sunderland, assignor to Pyrotenax Limited, Hebburn-on-Tyne, England. Bundling or gripping device. 2,323,819; July 6.
Lewis, Robert P., assignor to Spicer Manufacturing Corporation, Toledo, Ohio. Lubricant seal. 2,323,548; July 6.
Lilienfield, Eugene W., assignor to José Escalante & Company, Chicago, Ill. Cigar box attachment. 2,323,820; July 6.
Lily, Eli, and Company. (See Shonle, H. A., and Van Arendonk, assignors.)
Lindemann, A. J., & Hoverson Company. (See Lindemann, W. C., and Meiners, assignors.)
Lindemann, Walter C., and R. Meiners, assignors to A. J. Lindemann & Hoverson Company, Milwaukee, Wis. Oven and broiler. 2,323,821; July 6.
Linderoth, Lambert S., Jr., Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Dust separator. 2,323,405; July 6.
Lindstaedt, Frank F., and D. L. Shatto, San Francisco, Calif. Bromine extraction process. 2,323,549; July 6.
Litle, Thomas J., Jr., South Bend, Ind., assignor to Easy Washing Machine Corporation, Syracuse, N. Y. Pressure indicator for clothes wringers. 2,323,872; July 6.
Littell, F. J., Machine Company. (See Littell, Frederick M., assignor.)
Littell, Frederick M., Detroit, Mich., assignor to F. J. Littell Machine Company, Chicago, Ill. Cradle reel. 2,323,477; July 6.
Lobl, Frederick, Middleboro, Mass. Electric heating pad. 2,323,478; July 6.
Lockridge, William R., administrator. (See Loughridge, Matthew H.)
Logemann, Willy. (See Schoeller, W., Serini, Hildebrandt, Strassberger, Kathol, and Logemann.)
Lombardi, Alberto, and A. Saponare and J. R. Saponaro, Montevideo, Uruguay. Projecting system for wooden or metallic coiling curtains of any model. 2,323,612; July 6.
Long, Archie O. (See Burton, Charles A., assignor.)
Loughridge, Matthew H., deceased, Bogota, N. J.; W. R. Lockridge, administrator. Selective system and apparatus. 2,323,822; July 6.
Lovell Manufacturing Company. (See Kauffman, Walter L., II, assignor.)
Lownes, Robert P. (See Seidel, S. G., and Lownes.)
Lüdi, Fritz, Baden, assignor, by mesne assignments, to "Patelhold" Patentverwertungs & Elektro-Holding A. G., Glarus, Switzerland. Ultra high frequency generator. 2,323,613; July 6.
Lukens, Alan R., Belmont, Mass. Filler material for paint, rubber, paper, etc. 2,323,550; July 6.
Lummus Company, The. (See Kraft, Wheaton W., assignor.)
Lundvall, John S., assignor to Union Asbestos & Rubber Company, Chicago, Ill. Convertible bulkhead for refrigerator cars. 2,323,665; July 6.
Macdonald, Alexander D., Malden, assignor to B. B. Chemical Co., Boston, Mass. Composition containing polymerized chloroprene. 2,323,338; July 6.
MacDonald, James H., Seattle, Wash. Propeller nut hanger. 2,323,614; July 6.
MacDougall, Franklin M., Royal Oak, assignor to Alco Valve Company, Maplewood, Mo. Valve control. 2,323,480; July 6.
Machine and Tool Designing Company. (See Simpson, Henry A., assignor.)
Mackie, David S., Cleveland, Ohio, assignor to General Motors Corporation, Detroit, Mich. Material handling device. 2,323,551; July 6.
Madden, Edward G., Kearney, N. J., and B. Murdock, Brooklyn, N. Y., assignors to Wolfe & Lange, Inc. Undergarment. 2,323,718; July 6.
Mall Tool Company. (See Gordon, Walter L., assignor.)
Mallina, Rudolph F., Hastings-on-Hudson, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Alternating current generator. 2,323,719; July 6.
Mallory, P. R., & Co. (See Holt, Edman F., assignor.)
Manjoine, Michael J. (See Nadai, A., and Manjoine.)
Marathon Paper Mills Company. (See Chase, James W., assignor.)
Marathon Paper Mills Company. (See Kennedy, Leo M., assignor.)
Marbury, Ralph E., Wilkinsburg, and William E. Berkey, Forest Hills, Wilkinsburg, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Protective device for series capacitors. 2,323,720; July 6.
Marine Magnesium Products Corporation. (See Hansgirg, Fritz J., assignor.)
Marion, Harry, J. A. Perlstein, and F. J. O'Donnell, Newark, N. J. Paper clip. 2,323,552; July 6.
Markey, Roscoe I., East Orange, assignor to Pollak Manufacturing Company, Arlington, N. J. Joint for exhaust manifold systems. 2,323,823; July 6.
Martin, Glenn L., Company, The. (See Ebel, W. K., Houstle, Scudder, and O'Neal, assignors.)
Martin, Glenn L., Company, The. (See Snowberger, Paul L., assignor.)
Martin, William O., assignor to William O. Martin, Incorporated, Fort Smith, Ark. Stoker conveyer. 2,323,553; July 6.
Martin, William O., Incorporated. (See Martin, William O., assignor.)
Martineau, Joseph L., St. Paul, Minn. Antiseptic thermometer holder. 2,323,615; July 6.
Marzall, John A., trustee. (See Neal, Ernest C., assignor.)
Maschmeyer, August H., Brooklyn, assignor to Remington Rand Inc., Buffalo, N. Y. Code interpreting mechanism. 2,323,824; July 6.
Maschmeyer, August H., Port Jefferson Station, assignor to Remington Rand Inc., Buffalo, N. Y. Tabulating machine. 2,323,825; July 6.
Mason, James H., assignor to Chesterman Leeland Company, Philadelphia, Pa. Differential truss pad. 2,323,826; July 6.
Mason, James H., assignor to Chesterman Leeland Company, Philadelphia, Pa. Adjustable truss pad. 2,323,827; July 6.
Mason, Richard D., Wilmette, Ill. Vacuum cleaning apparatus. 2,323,554; July 6.

Mason, William H., assignor to Masonite Corporation, Laurel, Miss. Momentarily consolidated board product. 2,323,339; July 6.
Masonite Corporation. (See Mason, William H., assignor.)
Mathes, Roger A. (See Jones, P. C., and Mathes.)
Mathews Conveyer Company. (See Meister, Julius A., assignor.)
Mathieson Alkali Works, Inc., The. (See Hampel, Clifford A., assignor.)
Mathieson Alkali Works, Inc., The. (See Hampel, C. A., and Taylor, assignors.)
Matthews, Eugene F., St. Paul, and N. W. La Clair, Forest Lake, Minn. Window cleaning device. 2,323,555; July 6.
Mattinson, Wallace B. (See Hayto, H. B., and Mattinson.)
Mattocks, Elmer O., Bartlesville, Okla., assignor to Phillips Petroleum Company. Method and apparatus for determining effective porosity. 2,323,556; July 6.
Mayer, Carl F., Lakewood, Ohio. Door for top loading and unloading ovens. 2,323,828; July 6.
McAfee, Almer M., and E. E. Dunlay, Port Arthur, Tex., assignors to Gulf Oil Corporation, Pittsburgh, Pa. Alkylation. 2,323,616; July 6.
McArthur, Warren, New York, N. Y., assignor to Warren McArthur Corporation. Metal furniture. 2,323,829; July 6.
McArthur, Warren, Corporation. (See McArthur, Warren, assignor.)
McCullough, Ray A., Oakmont, Pa., assignor to Blaw-Knox Company. Mechanical vibration or oscillation generator. 2,323,479; July 6.
McFarland, Forest R., Huntington Woods, assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 2,323,340; July 6.
McGill, Chester T., assignor to Elgin Softener Corporation, Elgin, Ill. Proportional chemical feeder. 2,323,341; July 6.
McGrath, William L., Philadelphia, Pa., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Air conditioning system. 2,323,873; July 6.
McGraw Electric Company. (See Olving, Bror G., assignor.)
McKee, James E. (See Shannon, J. W., Hathaway, and McKee.)
McLean, Lyle, Portland, Oreg. Concentrator. 2,323,557; July 6.
McLindon, William F., Arlington, Va. Carburetor. 2,323,721; July 6.
McManus, John A., Marblehead, and M. G. Higgins, Lynn, Mass. Pressure-sensitive tape. 2,323,342; July 6.
McMillan, Frank M., Berkeley, assignor to Shell Development Company, San Francisco, Calif. Catalytic conversion process. 2,323,830; July 6.
McMullen, Earle W., Joplin, Mo., and D. J. Doan, assignors to The Eagle-Picher Lead Company, Cincinnati, Ohio. Composition of matter. 2,323,874; July 6.
McNab, George, Woodbury, N. J., assignor to Socony-Vacuum Oil Company Incorporated, New York, N. Y. Cutting machine. 2,323,875; July 6.
McNally, James G. (See Dickey, J. B., and McNally.)
McQueen, David M., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Chemical process and composition. 2,323,481; July 6.
Medsker, Charles A., Cleveland Heights, Ohio, assignor to W. L. Ulmer. Making composite metal slabs. 2,323,666; July 6.
Medusa Portland Cement Company. (See Mooney, Philip, assignor.)
Meese, Harry W., Meadville, Pa. Railroad ballast reshaper and subgrade cleaner. 2,323,343; July 6.
Megathlin, Ralph S. (See Miller, L. G., and Megathlin.)
Mehl, Fred J., assignor of thirty-seven and one-half per cent to U. G. Charles and twenty-five per cent to G. C. Boling, Wichita, Kans. Safety razor. 2,323,881; July 6.
Meiners, Richard. (See Lindemann, W. C., and Meiners.)
Meister, Julius A., assignor to Mathews Conveyer Company, Ellwood City, Pa. Trolley conveyer. 2,323,722; July 6.
Menger, Adolf, and E. Bock, Krefeld-Uerdingen, Germany; vested in the Alien Property Custodian. Adhesion. 2,323,831; July 6.
Meras, Halford F., Exeter, N. H. Partially carbonized sheet for use with post card and using the (partially carbonized) sheet and post card together. 2,323,832; July 6.
Merrill, Patterson D., assignor to M. B. Skinner Company, South Bend, Ind. Gasket retaining ring. 2,323,482; July 6.
Michelson, John S., et al. (See Bloodgood, Alonzo J., assignor.)
Michigan Research Laboratories, Inc. (See Erickson, D. R., and Thoma, assignors.)
Micromatic Hone Corporation. (See Kline, John E., assignor.)
Micromatic Hone Corporation. (See Whittaker, Harry M., assignor.)
Milhaupt, Edgar A., Appleton, Wis. Braking system. 2,323,406; July 6.
Milko Cone & Baking Co., The. (See Pape, L., and Weintraub, assignors.)
Miller, Donald A., Linthicum Heights, Md., assignor to National Electric Control Company. Relay. 2,323,558; July 6.
Miller, Ernest C. C. (See Plumeau, Joseph S., and Miller.)
Miller, Lloyd G., Beverly, and R. S. Megathlin, Quincy, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J. Heel-seat fitting machine. 2,323,407; July 6.
Miller, Max B., & Co. (See Tuttle, Malcolm H., assignor.)
Miller, Wayland R., Milwaukee, Wis., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Air conditioning system. 2,323,408; July 6.
Mills, Charles L., assignor of one-half to J. Polyak, St. Louis, Mo. Sash fixture for windows and the like. 2,323,559; July 6.
Minneapolis-Honeywell Regulator Company. (See McGrath, William L., assignor.)
Minneapolis-Honeywell Regulator Company. (See Miller, Wayland R., assignor.)
Minnesota Mining & Manufacturing Company. (See Knorr, Earl S., assignor.)
Mixer, Harold P., Rockville Centre, assignor to Remington Rand Inc., Buffalo, N. Y. Electric decoding device. 2,323,833; July 6.
Moeller, August, Frankfort on-the-Main-Griesheim, H. Tochtermann, deceased, Mannheim, H. Tochtermann, administratrix, Eisleben, and O. Trösken, Frankfort-on-the-Main-Fechenheim, Germany; vested in the Alien Property Custodian. Breaking petroleum emulsions and breaking agents. 2,323,344; July 6.
Moldawsky, Joseph, London, England. Apparatus for tendering meat. 2,323,667; July 6.
Moller, Kasper F., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Machine tool. 2,323,834; July 6.
Monolith Portland Cement Company. (See Anderson, F. J., and Treshow, assignors.)
Monroe Calculating Machine Company. (See Overbury, Austin A., assignor.)
Monsanto Chemical Company. (See Whitehead, George W., assignor.)
Monsanto Chemical Company. (See Wilson, William S., assignor.)
Mooney, Philip, Cleveland Heights, assignor to Medusa Portland Cement Company, Cleveland, Ohio. Cement-asbestos shingles and like product. 2,323,835; July 6.
Moore, George A. (See Jenkins, C. F., and Moore.)
Moore, Herbert R., Adrian, Mich. Mounting for sand spreaders. 2,323,345; July 6.
Moore, Leonard P., Stamford, and W. P. Ericks, Cos Cob, Conn., assignors to American Cyanamid Company, New York, N. Y. Ethylene sulphide reaction product of cyanamide. 2,323,409; July 6.
Morgan, Arthur H., Knoxville, Tenn. Fruit decapper. 2,323,668; July 6.
Morrill, Alfred R., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Machine for use in the manufacture of shoes. 2,323,346; July 6.
Morrill, Alfred R., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Shoe machine for sewing and lasting. 2,323,347; July 6.
Motz, Hans, Blackheath, London, England, assignor to International Standard Electric Corporation, New York, N. Y. Electron discharge apparatus. 2,323,560; July 6.
Mueller, John. (See Lasker, W. W., and Mueller.)
Mueller, John, North Bergen, N. J., assignor to Remington Rand Inc., Buffalo, N. Y. Computing and accounting machine. 2,323,836; July 6.
Muller, Johan A., Mount Gilead, Ohio, assignor to The Hydraulic Development Corporation, Inc., Wilmington, Del. Blankholder press. 2,323,410; July 6.
Murdock, Benjamin. (See Madden, E. G., and Murdock.)
Murray Corporation, The. (See Clark, Noble C., assignor.)
Murray Corporation of America, The. (See Haberstump, Alfred H., assignor.)
Murray Corporation of America, The. (See Lamb, R. H., and Baker, assignors.)
Murray, Gilbert. (See Schmidt, C. J., and Murray.)
Murty, Anthony F. and B. P., Portland, Oreg. Tandem front-end axle and steering assembly. 2,323,669; July 6.
Murty, Benedict P. (See Murty, Anthony F. and B. P.)
Mushet, James C., Roselle Park, N. J., assignor, by mesne assignments, to R. E. Ogden, New York, N. Y. Spacer for pull ties. 2,323,723; July 6.
Musselman, John M., South Euclid, assignor to The Standard Oil Company, Cleveland, Ohio. Lubricating oils, etc. 2,323,670; July 6.
Mussen, Donald N. (See Horton, E. C., Mussen, and Rappl.)
Myers, Philip B., and A. H. Rouse, McAllen, Tex., assignors to Sardik, Inc., New York, N. Y. Extraction and recovery of pectin. 2,323,483; July 6.
Myslik, Otto, New York, N. Y., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Darning device. 2,323,671; July 6.
Nadai, Arpad, Forest Hills, and M. J. Manjoine, Wilkinsburg, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. High velocity tensile machinery. 2,323,724; July 6.

National Electric Control Company. (See Miller, Donald A., assignor.)
Neal, Ernest C., assignor to John A. Marzall, Chicago, Ill., as trustee. Magnetic apparatus. 2,323,837; July 6.
Nelson, Arthur L., Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation. Frequency multiplier. 2,323,672; July 6.
Nelson, Richard N. (See Bluehdorn, W. R., and Nelson.)
Neufeld, Jacob, assignor to Well Surveys, Incorporated, Tulsa, Okla. Well-logging method and apparatus. 2,323,484; July 6.
New Jersey Machine Corporation. (See von Hofe, George W., assignor.)
Newman, Arthur, New York, N. Y. Control mechanism. 2,323,411; July 6.
Newman, Phil F., Blackwell, Okla. Destroying aircraft. 2,323,561; July 6.
Nisenson, Jules. (See Stern, M. H., and Nisenson.)
Nixon, Jeddy D., Houston, Tex. Fluid flow device. 2,323,838; July 6.
Nixon, Jeddy D., Houston, Tex. Fluid flow control device. 2,323,839; July 6.
Noble, Charles S., Nobleford, Alberta, Canada. Cover cultivator. 2,323,412; July 6.
Nugent, Frederick V., Abington, assignor to B. B. Chemical Co., Boston, Mass. Shoe tread member. 2,323,562; July 6.
Nugent, Frederick V., Abington, assignor to B. B. Chemical Co., Boston, Mass. Tread member for shoes. 2,323,563; July 6.
Nyberg, Ernst V., assignor to Telefonaktiebolaget L. M. Ericsson, Stockholm, Sweden. Arrangement for stamping machines. 2,323,673; July 6.
Nystrom, Karl F., and V. L. Green, Milwaukee, Wis. Truck for railroad cars. 2,323,348; July 6.
O'Brien, John J., East Paterson, N. J. Grinding tool. 2,323,725; July 6.
Obszarny, Thedore, assignor to Guardian Electric Manufacturing Co., Chicago, Ill. Relay operated stepper assembly. 2,323,840; July 6.
O'Donnell, Frank J. (See Marion, H., Perlstein, and O'Donnell.)
Odquist, Harold T., Yonkers, assignor to American Can Company, New York, N. Y. Welding side seams. 2,323,349; July 6.
Ogden, Harold S., Erie, Pa., assignor to General Electric Company. Braking system. 2,323,413; July 6.
Ogden, Ralph E. (See Cooper, Frank P., assignor.)
Ogden, Ralph E. (See Mushet, James C., assignor.)
Oilgear Company, The. (See Ferris, Walter, assignor.)
Oliver, Leslie W., Amersham, England, assignor to Technicolor Motion Picture Corporation, Los Angeles, Calif. Illumination of photographic screens. 2,323,754; July 6.
Olving, Bror G., assignor to McGraw Electric Company, Elgin, Ill. Electric iron. 2,323,414; July 6.
O'Neal, William B. (See Ebel, W. K., Houstle, Scudder, and O'Neal.)
Osborne, Eugene F., Peach Bottom, Pa. Turbine engine. 2,323,617; July 6.
Oswego Falls Corporation. (See Wilcox, Isaac L., assignor.)
Ottoson, Oscar, Bronx, N. Y. Spray gun. 2,323,618; July 6.
Overbury, Austin A., West Orange, assignor to Monroe Calculating Machine Company, Orange, N. J. Intermittent drive gearing. 2,323,415; July 6.
Owens-Corning Fiberglas Corporation. (See Collins, Howard W., assignor.)
Owens-Corning Fiberglas Corporation. (See Simison, Allen L., assignor.)
Packard Motor Car Company. (See McFarland, Forest R., assignor.)
Page, John, Evanston, assignor to United States Gypsum Company, Chicago, Ill. Perforated plasterboard. 2,323,564; July 6.
Panish, Erwin J., Bridgeport, Conn. Clutch control device. 2,323,619; July 6.
Pannonia (London) Limited. (See Gottfried, Siegfried, assignor.)
Pape, Larry, and M. Weintraub, assignors to The Milko Cone & Baking Co., Inc., Chicago, Ill. Dispensing package for ice cream cones. 2,323,841; July 6.
Paramount Textile Machinery Co. (See Richter, H., Wahlbeck and Kleinfeld.)
Parke, Peter, Chicago, J. K. Tully, Evanston, L. Andersen, Chicago, and B. E. Jones, Flossmore, assignors to The Pullman Company, Chicago, Ill. Coach-sleeper vehicle. 2,323,620; July 6.
Parker, Arthur L., Cleveland, Ohio. Priming valve assembly. 2,323,416; July 6.
"Patelhold" Patentverwertungs & Elektro-Holding A. G. (See Lüdi, Fritz, assignor.)
Patent License Corporation. (See Zimmerman, Edward C., assignor.)
Pauli, Charles D., Jr., St. Louis, Mo. Wall tile. 2,323,417; July 6.
Paynter, Horace J., Union, N. J., assignor to American Can Company, New York, N. Y. Can treating machine. 2,323,350; July 6.
Pearson, Harold E., Bethlehem, assignor, by mesne assignments, to The Pennsylvania Company for Insurances on Lives and Granting Annuities, Philadelphia, Pa. Electric distribution system. 2,323,418; July 6.
Pechy, William, Manasquan, N. J., assignor to American Can Company, New York, N. Y. Control mechanism. 2,323,351; July 6.
Peiker, Alfred L. (See Kienle, R. H., and Pelker.)
Pell, Eric, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Control means for synchronous dynamoelectric machines. 2,323,485; July 6.
Penney, Elizabeth, executrix. (See Penney, H. D., and Jackson.)
Penney, Harold D., deceased, Pelham, N. Y., by E. Penny, executrix, Stamford, Conn., and C. S. Jackson, Brooklyn, N. Y. Tool for unsealing crown bottle caps. 2,323,621; July 6.
Pennsylvania Company for Insurance of Lives and Granting Annuities. (See Pearson, Harold E., assignor.)
Perlstein, Jesse A. (See Marion, H., Perlstein, and O'Donnell.)
Persch, Walter. (See Boekmühl, M., and Persch.)
Peters, Robert E., Sr. (See Peters, Robert E., Jr., assignor.)
Peters, Robert E., Jr., assignor to R. E. Peters, Sr., Saginaw, Mich. Carton. 2,323,565; July 6.
Peterson, Joel D., Ridgewood, assignor to Bendix Aviation Corporation, Bendix, N. J. Reproducing motion. 2,323,566; July 6.
Phillips Petroleum Company. (See Downs, George F., assignor.)
Phillips Petroleum Company. (See Mattocks, Elmer O., assignor.)
Pitman, Henry L., Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Combined typewriting and computing machine. 2,323,622; July 6.
Pitts, Joseph M., Dayton, Ohio. Control cable system with improved compensating means. 2,323,352; July 6.
Pittsburgh Pipe Cleaner Company. (See Robinson, K. I. and L. R., assignors.)
Pizarro, George, Los Angeles, Calif. Refrigerating tray. 2,323,486; July 6.
Plant, Leland G., Washington, D. C. Locomotive coaling structure. 2,323,419; July 6.
Plastex Trim Corporation. (See Zimmerman, O. S., and Tully, assignors.)
Plog, William H., Clifton, N. J. One-way clutch. 2,323,353; July 6.
Plumeau, Joseph S., Bellaire, Long Island, and E. C. C. Miller, Laurelton, Long Island, N. Y. Broom machine. 2,323,420; July 6.
Polaroid Corporation. (See Cochram, Clarence W., assignor.)
Pollak Manufacturing Company. (See Markey, Roscoe I., assignor.)
Pond Lily Company, The. (See Edelstein, Oscar, assignor.)
Polyak, Joseph. (See Mills, Charles L., assignor.)
Porter, George W., Kansas City, Mo., and Benjamen F. Krehbiel, Wichita, Kans. Apparatus for frying poultry, fish, or other meat products. 2,323,623; July 6.
Prosperity Company, The. (See Davis, Ernest, assignor.)
Pullman Company, The. (See Parke, P., Tully, Andersen, and Jones, assignors.)
Purkiss, Robert B., assignor to The Batesville Casket Company, Batesville, Ind. Apparatus for locking and sealing burial caskets. 2,323,674; July 6.
Pyrotenax Limited. (See Lewis, James G., assignor.)
Rade, Alfred F. (See Gordy, A. F., and Rade.)
Radio Corporation of America. (See George, Ralph W., assignor.)
Radio Corporation of America. (See Goddard, De Witt R., assignor.)
Radio Corporation of America. (See Hansell, Clarence W., assignor.)
Radio Corporation of America. (See Harvey, Robert L., assignor.)
Radio Corporation of America. (See Hathaway, Jarrett L., assignor.)
Radio Corporation of America. (See Hawk, Henry W. N., assignor.)
Radio Corporation of America. (See Hillier, James, assignor.)
Radio Corporation of America. (See Hunt, Seymour, assignor.)
Radio Corporation of America. (See Kellogg, Edward W., assignor.)
Radio Corporation of America. (See Kihn, Harry, assignor.)
Radio Corporation of America. (See Koch, Winfield R., assignor.)
Radio Corporation of America. (See Roberts, Walter van B., assignor.)
Radio Corporation of America. (See Sheffield, Berthold, assignor.)
Radio Corporation of America. (See Smith, Rogers M., assignor.)
Radio Corporation of America. (See van Slooten, J., and Volz, assignors.)
Radio Corporation of America. (See Trevor, Bertram, assignor.)
Radio Corporation of America. (See Weathers, Paul, assignor.)
Radio Corporation of America. (See Wing, Arthur K., Jr., assignor.)

Rakauskas, James T., Chicago, Ill. Bathing suits and trunks, and other athletic suits, trousers, and trunks. 2,323,842; July 6.
Rand, Henry J., New York, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Determining and regulating the mass of a component gas per unit volume of a gaseous mixture. 2,323,675; July 6.
Rappl, Anton. (See Horton, E. C., Mussen, and Rappl.)
Rath, Karl, New York, N. Y. Photographic exposure meter. 2,323,676; July 6.
Rauland Corporation. (See Kester, Arthur S., assignor.)
Ravnsbeck, Fred, assignor to Ace Engineering Co., Chicago, Ill. Oil burner. 2,323,567; July 6.
Rayburn, Vincent A., Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Strand coating apparatus. 2,323,487; July 6.
Reed, Isaac N., Livington, Ala., assignor, by mesne assignments, to Wedgeplug Valve Company, Inc., New Orleans, La. Valve lubricator and seal. 2,323,421; July 6.
Rees, Clyde M., White Plains, N. Y. Refrigerator. 2,323,354; July 6.
Reh, Paul A., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Distributing apparatus. 2,323,677; July 6.
Reintam, Johannes, New York, N. Y. Toy target. 2,323,678; July 6.
Remington Rand Inc. (See Bitner, Ralph E., assignor.)
Remington Rand Inc. (See Braun, Karl J., assignor.)
Remington Rand Inc. (See Dienna, Daniel F., Jr., assignor.)
Remington Rand Inc. (See Heybourne, Victor C., assignor.)
Remington Rand Inc. (See Maschmeyer, August H., assignor.)
Remington Rand Inc. (See Lasker, W. W. and Mueller, assignors.)
Remington Rand Inc. (See Mixer, Harold P., assignor.)
Remington Rand Inc. (See Mueller, John, assignor.)
Remington Rand Inc. (See Thompson, Russell G., assignor.)
Reso, Sam. (See Ward, J. C., and Reso.)
Rex, Albert M. (See Gordy, A. F., and Rade, assignors.)
Ricciardi, Matthew C., Dover, N. J. Fuse assembling machine. 2,323,355; July 6.
Richter, Henry, J. Wahlbeck, Kankakee, and L. S. Kleinfeld, assignors to Paramount Textile Machinery Co., Chicago, Ill. Machine for marking textile and other articles. 2,323,843; July 6.
Rickett, Henry A., Riverside, R. I., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Control method and apparatus. 2,323,876; July 6.
Riley, Lynn G., Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Circuit breaker. 2,323,726; July 6.
Roberts, Walter van B., Princeton, N. J., assignor to Radio Corporation of America. Signalling system. 2,323,679; July 6.
Robinson, Kyle I., Bolivar, and Lawrence R. Robinson, Zelienople, assignors to Pittsburgh Pipe Cleaner Company, Pittsburgh, Pa. Pipe cleaning cutter. 2,323,727; July 6.
Robinson, Lawrence R. (See Robinson, Kyle I. and L. R.)
Rogers, Levant C., Niles, Mich. Cleaner. 2,323,568; July 6.
Röhm & Haas Company. (See Hester, William F., assignor.)
Röhm & Haas Company. (See Köhler, Franz, assignor.)
Romero, Antonio, Astoria, Long Island, N. Y. Print drier. 2,323,680; July 6.
Rosay, Joseph, White Plains, N. Y. Liner and holder therefor. 2,323,356; July 6.
Rosenblum, Israel, New York, N. Y. Alcoholic urea-formaldehyde resin solution. 2,323,357; July 6.
Rothe, Ole O. (See Irwin, Justus C., assignor.)
Rouse, Alvin H. (See Myers, P. B., and Rouse.)
Routledge, Percy H., Mission, British Columbia, Canada. Fire door. 2,323,845; July 6.
Ruthruff, Robert F., Chicago, Ill. Catalysts and the preparation thereof. 2,323,728; July 6.
Ryan, Alden H., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Tuning short-wave hollow-body resonator apparatus. 2,323,729; July 6.
Ryerson, Theodore M. (See Collins, Calhoun, assignor.)
Rzeppa, Alfred H., Grosse Pointe, Mich. Sealing means for universal joints. 2,323,569; July 6.
Saco-Lowell Shops. (See Shaw, Benjamin C., assignor.)
Sahlberg, Rolf K. O., New York, N. Y. Boltless wood connection. 2,323,844; July 6.
Saltsman, Homer D., Philadelphia, Pa. Tire supporting device. 2,323,846; July 6.
Sampsel, Ralph R., Youngstown, Ohio. Ski sled. 2,323,847; July 6.
Sangster, Weston D., and J. T. Bindner, Oakland, Calif. Control for dispensing devices. 2,323,681; July 6.
Saponare, Alberto. (See Lombardi, A., and Saponare A. and J. R.).
Saponaro, Juan R. (See Lombardi, A., and Saponare, A. and J. R.)
Sardik, Inc. (See Myers, P. B., and Rouse, assignors.)
Sargent, Constance B., et al. (See Brosco, Gericho, assignor.)
Sauer, George, Berwyn, assignor to Union Special Machine Company, Chicago, Ill. Sewing machine. 2,323,422; July 6.
Schaeffer, Frederick W., Chicago, Ill. Pavement. 2,323,848; July 6.
Schall, Myron R., Sacramento, Calif. Swivel. 2,323,624; July 6.
Schauer, Lawrence L., Wyoming, assignor to The Cincinnati Bickford Tool Company, Oakley, Cincinnati, Ohio. Automatic reverse for tapping machines. 2,323,488; July 6.
Scherff, Henry H., and G. F. Hoffmann, Milwaukee, Wis. Grinding mill. 2,323,490; July 6.
Schering Corporation. (See Dohrn, M., and Diedrich, assignors.)
Schering Corporation. (See Schoeller, W., Serini, Hildebrandt, Strassberger, Kathol, and Logemann, assignors.)
Schmidt, Charles J., Roselle Park, and G. Murray, Newark, N. J. Clutch control. 2,323,489; July 6.
Schmidt, Erwin L., and J. L. Schwabe, Jr., assignors to G-H Specialty Co., Milwaukee, Wis. Folding table. 2,323,423; July 6.
Schmitkons, George E., assignor to Standard Oil Company, Chicago, Ill. Production of motor fuels. 2,323,570; July 6.
Schneeberger, Leroy O., St. Louis, Mo. Beverage-bottle case. 2,323,491; July 6.
Schneider, Kurt R. (See Fitch, C. J., and Schneider.)
Schneider, Wilhelm. (See Fröhlich, A., Schneider, and Heisel.)
Schnoes, Warren E., Chicago, Ill. Heating and humidifying system. 2,323,849; July 6.
Schoeller, Walter, Berlin-Westend, A. Serini, Berlin, F. Hildebrandt, Hohen-Neuendorf, near Berlin, L. Strassberger, Berlin-Wilmersdorf, J. Kathol, and W. Logemann, Berlin, Germany, assignors, by mesne assignments, to Schering Corporation, Bloomfield, N. J. Unsaturated degradation products of sterols and producing the same. 2,323,584; July 6.
Schoenrock, Otto R., Chicago, Ill. Wheel mounting for tractors. 2,323,682; July 6.
Schore, George, New York, N. Y. Forming insoluble and adherent nonmetallic films on metals. 2,323,424; July 6.
Schroeder, Simon E., assignor to Barlow & Seelig Manufacturing Company, Ripon, Wis. Domestic washing machine construction. 2,323,571; July 6.
Schwabe, Joseph L., Jr. (See Schmidt, E. L., and Schwabe.)
Schwarzkopf, Conrad E., New York, N. Y. Flower holding brooch. 2,323,572; July 6.
Scott, Gherald D., assignor to The Heald Machine Company, Worcester, Mass. Air cooled spindle mounting for machine tools and the like. 2,323,850; July 6.
Scott, Walter A., Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Milking machine teat cup. 2,323,851; July 6.
Scudder, Nathan F. (See Ebel, W. K., Houstle, Scudder, and O'Neal.)
Sears, Roebuck and Co. (See Crimmins, William C., assignor.)
Seaman, David J., Battle Creek, Mich. Lateral door adjustment structure. 2,323,625; July 6.
Seeburg, J. P., Corporation. (See Johnson, C. G., and Boyajian, assignors.)
Seemel, Bruno E., Brooklyn, assignor to Automatic Coin-wrapping Machine Corporation, New York, N. Y. Counting mechanism. 2,323,492; July 6.
Seidel, Stephen G., and R. P. Lownes, Philadelphia, Pa. Device for opening and emptying cartons. 2,323,852; July 6.
Seiler, Ernest L., Stockton, Calif. Ladder supporting structure. 2,323,425; July 6.
Serini, Arthur. (See Schoeller, W., Serini, Hildebrandt, Strassberger, Kathol, and Logemann.)
Shannon, James W., L. M. Hathaway, Ingleside, Tex., and J. E. McKee, Wilmington, Del. Locking mechanism for doors. 2,323,358; July 6.
Shatto, David L. (See Lindstaedt, F. F., and Shatto.)
Shaw, Benjamin C., Saco, Maine, assignor to Saco-Lowell Shops, Boston, Mass. Drafting mechanism for roving frames. 2,323,882; July 6.
Sheffield, Berthold, Rocky Point, N. Y., assignor to Radio Corporation of America. Distortion control. 2,323,626; July 6.
Shell Development Company. (See Cattaneo, Alfred G., assignor.)
Shell Development Company. (See McMillan, Frank M., assignor.)
Shenton, Francis, and L. Buehler, Jr., assignors to Frick Company, Waynesboro, Pa. Shaft seal. 2,323,730; July 6.
Sherman, Ralston M., Glastonbury, Conn. Liquid metering device. 2,323,627; July 6.
Shetzline, Walter F., Los Angeles, Calif. Window operating means. 2,323,731; July 6.
Shonle, Horace A., and A. M. Van Arendonk, assignors to Eli Lilly and Company, Indianapolis, Ind. Halogen acyl derivatives of 4,4′-diaminodiphenyl sulphone and process of preparing them. 2,323,573; July 6.
Signal Engineering & Manufacturing Company. (See Wheelock, John H., assignor.)

Sillars, George S., Beverly, assignor to Hoague-Sprague Corporation, Lynn, Mass. Stacking apparatus. 2,323,359; July 6.
Silverman, Sidney, Providence, R. I. Fingernail guard. 2,323,854; July 6.
Silver, Walter H., assignor to Deere & Company, Moline, Ill. Listed corn cultivator. 2,323,683; July 6.
Simeone, Louis, San Jose, Calif. Ship guard. 2,323,853; July 6.
Simison, Allen L., Newark, Ohio, assignor to Owens-Corning Fiberglas Corporation. Coated glass fiber strand. 2,323,684; July 6.
Simpson, Henry A., Philadelphia, Pa., assignor to Machine and Tool Designing Company. Incendiary bomb. 2,323,426; July 6.
Singer Manufacturing Company, The. (See Frey, Irvin J., assignor.)
Singer Manufacturing Company, The. (See Myslik, Otto, assignor.)
Singer Manufacturing Company, The. (See Spaine, Edward P., assignor.)
Singer Manufacturing Company, The. (See Wood, Alfred R., assignor.)
Skinner, Clawson N., Whittier, Calif. Partial denture. 2,323,685; July 6.
Skinner, M. B., Company. (See Merrill, Patterson D., assignor.)
Skoglund, Bert J. (See Doering, H. H., and Skoglund.)
Slinger, Robert N., Glendale, Mo., assignor to General Electric Company. Regulator. 2,323,427; July 6.
Sloane, William W., assignor to Goodman Manufacturing Company, Chicago, Ill. Kerf-cutting machine. 2,323,493; July 6.
Smith, Benjamin H., Bloomfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Thermal demand meter. 2,323,732; July 6.
Smith, Benjamin H., Bloomfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electrical measuring device. 2,323,733; July 6.
Smith, Herbert J., Greenfield, Mass. Screw plate box. 2,323,574; July 6.
Smith, Jacob A., assignor of one-half to C. A. Benjamin, Chicago, Ill. Die punch. 2,323,755; July 6.
Smith, Jacob A., assignor of one-half to C. A. Benjamin, Chicago, Ill. Punch mounting. 2,323,756; July 6.
Smith, Landon P., Inc. (See Jorgenson, Arthur P., assignor.)
Smith, Rogers M., Ashland Terrace, N. J., assignor to Radio Corporation of America. Mounting electron discharge devices. 2,323,628; July 6.
Smith, William L., Jr., Pawtucket, assignor to Hemphill Company, Central Falls, R. I. Knitted fabric. 2,323,855; July 6.
Snowberger, Paul L., assignor to The Glenn L. Martin Company, Baltimore, Md. Swivel joint assembly. 2,323,575; July 6.
Socony-Vacuum Oil Company. (See McNab, George, assignor.)
Socony-Vacuum Oil Company. (See Rickett, Henry A., assignor.)
Sommerfeld, Karl E., Pittsburgh, assignor to Sommerfeld Machine Company, Braddock, Pa. Automatic glass cutting machine. 2,323,686; July 6.
Sommerfeld Machine Company. (See Sommerfeld, Karl E., assignor.)
Spaine, Edward P., Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Gimp-cord guard for buttonhole sewing machines. 2,323,494; July 6.
Spanel, Abraham N., New York, N. Y. Flexible collapsible fluid container and producing same. 2,323,629; July 6.
Spencer, Allan T., Jr., Gerber, Calif. Earth mover. 2,323,428; July 6.
Spencer, Rolf E., London, assignor to Electric & Musical Industries, Limited, Hayes, England. Radio receiving system. 2,323,630; July 6.
Sperry, Helen B., executrix. (See Sperry, Philmore F.)
Sperry, Philmore F., Chicago, Ill., deceased; H. B. Sperry, executrix, assignor, by mesne assignments, to T. H., P. F., and J. Briskin. Camera control means. 2,323,576; July 6.
Spicer Manufacturing Corporation. (See Lewis, Robert P., assignor.)
Squibb, E. R., & Sons. (See Christiansen, W. G., and Jurist, assignors.)
Stadler, Robert, Heidelberg, and A. Auerbahn, Neckargemuend, Germany; vested in the Alien Property Custodian. Regeneration of deactivated cuprous chloride solutions. 2,323,631; July 6.
Standard Oil Company, The. (See Hughes, Everett C., assignor.)
Standard Oil Company, The. (See Musselman, John M., assignor.)
Standard Oil Company. (See Schmitkons, George E., assignors.)
Standard Oil Company. (See Wallace, Joseph S., assignor.)
Stanley, Louis H. (See Cary, G. A., and Stanley.)
Steidinger, Aaron D., Fairbury, Ill. Fluid expelling tire assembly. 2,323,495; July 6.
Stein, A., & Company. (See Bullinger, Conrad, assignor.)
Sterling Drug Inc. (See Walton, Bruce, assignor.)
Stern, Milton H., Brooklyn, and J. Nisenson, New York, N. Y.; said Nisenson assignor to said Stern. Cornice. 2,323,496; July 6.
Stewart, Clifford D. (See Driscoll, Philip J., assignor.)
Stiles, John C. (See Hyland, D. F., Stiles, and Brenner, H. L. and J.)
Stokes, Stanley, St. Louis, Mo., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Measuring instrument. 2,323,734; July 6.
Stout, Raymond K. (See Crane, C. J., and Stout.)
Strand, Karl I., Huntington Park, Calif. Mop. 2,323,687; July 6.
Strassberger, Lothar. (See Schoeller, W., Serini, Hildebrandt, Strassberger, Kathol, and Logemann.)
Strassman, Otto A., Akron, assignor of three-quarters to J. Graber, Hartville, Ohio. Vegetable harvester. 2,323,688; July 6.
Straubel, Clarence W., assignor to The General Fireproofing Company, Youngstown, Ohio. Drawer with tilting back wall. 2,323,632; July 6.
Stroup, Fred H. (See Dick, B., and Stroup.)
Strout, Phillips E., Palisades Park, N. J., assignor to Western Electric Company, Incorporated. Cutting tool. 2,323,497; July 6.
Stull, Faye P., Youngstown, Ohio. Apparatus for plastic molding. 2,323,577; July 6.
Stull, Faye P., Youngstown, Ohio. Surface finishing apparatus. 2,323,578; July 6.
Sudlow, Fred E. (See Holsclaw, Niel A., assignor.)
Tauschek, Gustav, assignor to International Business Machines Corporation, New York, N. Y. Tabulating machine. 2,323,429; July 6.
Tawney, Gereld L., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electric discharge apparatus. 2,323,735; July 6.
Taylor, Carl R., assignor to The Cream Cone Machine Company, Cleveland, Ohio. Apparatus for and process of handling hollow articles. 2,323,757; July 6.
Taylor, Maurice C. (See Hampell, C. A., and Taylor.)
Technicolor Motion Picture Corporation. (See Oliver, Leslie W., assignor.)
Teletype Corporation. (See Zenner, Walter J., assignor.)
Temple, Robert, Jr., Pittsburgh, Pa., assignor, by mesne assignments, to Temple Velocity Equipment, Inc. Apparatus for performing work on metal. 2,323,758; July 6.
Temple Velocity Equipment, Inc. (See Temple, Robert, Jr., assignor.)
Ternstedt Manufacturing Company. (See Dean, Roy H., assignor.)
Thoma, Paul J. (See Erickson, D. R., and Thoma.)
Thompson, George W., assignor to Universal Oil Products Company, Chicago, Ill. Heating of fluids. 2,323,498; July 6.
Thompson, Russell G., Elmira, assignor to Remington Rand Inc., Buffalo, N. Y. Typewriter actuating mechanism for counters. 2,323,633; July 6.
Thurnauer, Hans, and G. W. Fichter, assignors to American Lava Corporation, Chattanooga, Tenn. Forming articles from titanium dioxide. 2,323,759; July 6.
Tide Water Associated Oil Company. (See Bond, Roiston L., assignor.)
Tide Water Associated Oil Company. (See Cook, Elmer W., assignor.)
Tide Water Associated Oil Company. (See Zellner, Carl N., assignor.)
Tillman, Leonard, Springdale, Conn. Smoking appliance. 2,323,856; July 6.
Tinnerman, George A., Rocky River, assignor, by mesne assignments, to Tinnerman Products, Inc., Cleveland, Ohio. Fastening device. 2,323,689; July 6.
Tinnerman, George A., assignor to Tinnerman Products, Inc., Cleveland, Ohio. Fastening device. 2,323,690; July 6.
Tinnerman Products, Inc. (See Tinnerman, George A., assignor.)
Tochtermann, Hilde, administratrix. (See Moeller, A., (Tochtermann, deceased) and Trösken.)
Torrence, George P., Shaker Heights, R. F. Bergmann, Lakewood, and W. F. Knebusch, Rocky River, assignors to Industrial Rayon Corporation, Cleveland, Ohio. Apparatus for handling thread or the like. 2,323,879; July 6.
Tousley, Victor H., Chicago, Ill. Attachment plug. 2,323,736; July 6.
Transportation Specialties Company. (See Boswinkle, George, assignor.)
Traylor Vibrator Company, The. (See Baird, Clyde W., assignor.)
Treshow, Michael. (See Anderson, F. J., and Treshow.)
Trevor, Bertram, Riverhead, N. Y., assignor to Radio Corporation of America. Voltage control. 2,323,857; July 6.
Trico Products Corporation. (See Horton, E. C., Mussen and Rappl, assignors.)
Trigg, Albert G., deceased, by L. M. Trigg, London, England, administratrix. Lifting device. 2,323,500; July 6.
Trigg, Lucy M., administratrix. (See Trigg, Albert G.)
Tritle, John F., Erie, Pa., assignor to General Electric Company, New York, N. Y. Control system. 2,323,737; July 6.

Trösken, Otto. (See Moeller, A., Tochtermann, and Trösken.)
Trotter, John C., Williamsville, assignor to Bell Aircraft Corporation, Buffalo, N. Y. Ordnance. 2,323,430; July 6.
Tully, James K. (See Parke, P., Tully, Andersen, and Jones.)
Tully, Thomas J. (See Zimmerman, O. S., and Tully.)
Turbett, Forrest L., Joplin, Mo., assignor to The Eagle-Picher Lead Company, Cincinnati, Ohio. Wetting and dispersion of pigments. 2,323,877; July 6.
Tuttle, Malcolm H., New Rochelle, assignor to Max B. Miller & Co., Inc., New York, N. Y. Distilling petroleum residues or the like. 2,323,501; July 6.
Uhlig, Helen E., Highland Park, Mich. Roll cover. 2,323,580; July 6.
Underwood Elliott Fisher Company. (See Pitman, Henry L., assignor.)
Union Asbestos & Rubber Company. (See Lundvall, John S., assignor.)
Union Special Machine Company. (See Sauer, George, assignor.)
United Aircraft Corporation. (See Gunberg, Harry W., assignor.)
United Aircraft Corporation. (See Hobbs, Leonard S., assignor.)
United Shoe Machinery Corporation. (See Hart, G. T., Jr., and Winkley, assignor.)
United Shoe Machinery Corporation. (See Linderoth, Lambert S., Jr., assignor.)
United Shoe Machinery Corporation. (See Miller, L. G., and Megathlin, assignors.)
United Shoe Machinery Corporation. (See Morrill, Alfred R., assignor.)
United States Gypsum Company. (See Page, John, assignor.)
United States Rubber Company. (See Wikle, George F., assignor.)
U. S. Slicing Machine Company. (See Hansen, John, assignor.)
Ulmer, William L. (See Medsker, Charles A., assignor.)
Underwood Elliott Fisher Company. (See Anderson, Walter A., assignor.)
Underwood Elliott Fisher Company. (See Hammer, Irvin G., assignor.)
Universal Oil Products Company. (See Thompson, George W., assignor.)
Universal Paper Products Company. (See Amberg, Walter E., assignor.)
Universal Tobacco Machine Co. (See Ward, J. C., and Reso, assignors.)
Upton, Albert L., St. Louis, Mo. Radio receiving system. 2,323,858; July 6.
Van Arendonk, Arthur M. (See Shonle, H. A., and Van Arendonk.)
Vassar, Hervey P., Bloomfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Thermal demand meter. 2,323,738; July 6.
Van Slooten, Jacob, and R. F. Volz, Eindhoven, Netherlands, assignors, by mesne assignments, to Radio Corporation of America, New York, N. Y. Low frequency amplifier. 2,323,634; July 6.
Vigorith, Anthony, Cincinnati, Ohio. Foot exercising device. 2,323,579; July 6.
Volz, Rudolf F. (See van Slooten, J., and Volz.)
Voorheis, Joseph T., Oakland, Calif. Burner head and mounting. 2,323,635; July 6.
Von Hofe, George W., Bound Brook, assignor to New Jersey Machine Corporation, Hoboken, N. J. Labeling machine. 2,323,691; July 6.
Wagner Electric Corporation. (See Dick, B., and Stroup, assignors.)
Wagner Electric Corporation. (See Boldt, Werner F., assignor.)
Wagner, Ferdinand, Munich, Germany, assignor to General Aniline & Film Corporation, New York, N. Y. Photographic camera. 2,323,739; July 6.
Wagner, William T., Los Angeles, Calif., assignor to The Dayton Rubber Manufacturing Company, Dayton, Ohio. V-belt. 2,323,740; July 6.
Wahlbeck, John. (See Richter, H., Wahlbeck, and Kleinfeld.)
Waldorf Paper Products Company. (See Guyer, Reynolds, assignor.)
Wales, George F., Kenmore, N. Y. Punching device. 2,323,431; July 6.
Wallace, Joseph S., Whiting, Ind., assignor to Standard Oil Company, Chicago, Ill. Transmission oil. 2,323,360; July 6.
Waller, Lee R., Montreal, Quebec, Canada, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. 2,323,692; July 6.
Walton, Bruce, Glenbrook, Conn., assignor, by mesne assignments, to Sterling Drug Inc., Wilmington, Del. Aluminum hydroxide powder and preparing the same. 2,323,432; July 6.
Walton, Jack, Tampa, Fla. Airplane flight level indicator. 2,323,693; July 6.
Wann, Charles H., Arcadia, assignor of one-half to M. N. Wann, Winchester, Ind. Motor vehicle wheel. 2,323,502; July 6.
Wann, Merrill N. (See Wann, Charles H., assignor.)
Ward, John C., and S. Reso, assignors to Universal Tobacco Machine Co., Inc., Jacksonville, Fla. Apparatus for perforating cigars. 2,323,694; July 6.
Watson, Earl C., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Speed control for direct current motors. 2,323,741; July 6.
Wausau Motor Parts Co. (See Landon, William C., assignor.)
Weathers, Paul, Audubon, N. J., assignor to Radio Corporation of America. Bottle inspection apparatus. 2,323,636; July 6.
Webster Electric Company. (See Campbell, Richard H., assignor.)
Webster, Philip S., Muskegon, Mich. Internal combustion engine piston. 2,323,742; July 6.
Webster, Richard R., Beaver, assignor to Jones & Laughlin Steel Corporation, Pittsburgh, Pa. Controlling the strain-sensitivity of bessemer steel. 2,323,695; July 6.
Weckesser, Charles L., assignor to C. E. Jamieson & Company, Detroit, Mich. Method and apparatus for capsulating liquids. 2,323,581; July 6.
Weckesser, Charles L., assignor to C. E. Jamieson & Co., Detroit, Mich. Method and apparatus for capsulating liquids. 2,323,582; July 6.
Wedgeplug Valve Company. (See Reed, Isaac N., assignor.)
Weightman, William A., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Welding apparatus. 2,323,361; July 6.
Weightman, William A., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Welding apparatus. 2,323,696; July 6.
Weintraub, Murray. (See Pape, L., and Weintraub.)
Weiss, Leo, Brooklyn, N. Y. Staple. 2,323,362; July 6.
Well Surveys, Incorporated. (See Neufeld, Jacob, assignor.)
Werntz, James H. (See Kirby, J. E., and Werntz.)
Western Electric Company. (See Beeton, E. E., and Campbell, assignors.)
Western Electric Company. (See Moller, Kasper F., assignor.)
Western Electric Company. (See Rayburn, Vincent A., assignor.)
Western Electric Company. (See Reh, Paul A., assignor.)
Western Electric Company. (See Strout, Phillips E., assignor.)
Western Electric Company. (See Waller, Lee R., assignor.)
Westinghouse Electric & Manufacturing Company. (See Baxter, H. G., and Jennings, assignors.)
Westinghouse Electric & Manufacturing Company. (See Baker, Benjamin P., assignor.)
Westinghouse Electric & Manufacturing Company. (See Berkey, William E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Crawshaw, S. L., and Williams, assignors.)
Westinghouse Electric & Manufacturing Company. (See Dawson, John W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Eames, William F., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hanna, Clinton R., assignor.)
Westinghouse Electric & Manufacturing Company. (See Jenkins, C. F., and Moore, assignors.)
Westinghouse Electric & Manufacturing Company. (See Johnson, Floyd D., assignor.)
Westinghouse Electric & Manufacturing Company. (See Lessmann, Gerhard P., assignor.)
Westinghouse Electric & Manufacturing Company (See Marbury, R. E., and Berkey, assignors.)
Westinghouse Electric & Manufacturing Company. (See Nadai, A., and Manjoine, assignors.)
Westinghouse Electric & Manufacturing Company. (See Riley, Lynn G., assignor.)
Westinghouse Electric & Manufacturing Company. (See Ryan, Alden H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Smith, Benjamin H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Stokes, Stanley, assignor.)
Westinghouse Electric & Manufacturing Company. (See Tawney, Gereld L., assignor.)
Westinghouse Electric & Manufacturing Company. (See Vassar, Hervey P., assignor.)
Westinghouse Electric & Manufacturing Company. (See Watson, Earl C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Whittaker, Charles C., assignor.)
Weyandt, Carl S., Homer City, Pa. Vibratory feeder. 2,323,864; July 6.
Wheatley, William B., San Diego, Calif., assignor to Consolidated Aircraft Corporation. Multiple control unit. 2,323,859; July 6.
Wheelock, John H., Fitzwilliam, N. H., assignor to Signal Engineering Manufacturing Company, New York, N. Y. Fault-indicating means for signal systems. 2,323,860; July 6.
Wildeboor, George A., Harrisonville, Mo. Razor. 2,323,745; July 6.
Whitehead, George W., Springfield, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Molding composition. 2,323,363; July 6.

Whittaker, Charles C., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Ventilated resistor. 2,323,743; July 6.
Whittaker, Harry M., assignor to Micromatic Hone Corporation, Detroit, Mich. Fluid actuated head for abrading elements. 2,323,433; July 6.
Wikle, George F., Grosse Pointe, Mich.; assignor to United States Rubber Company, New York, N. Y. Buffing machine. 2,323,744; July 6.
Wilcox, Isaac L., assignor to Oswego Falls Corporation, Fulton, N. Y. Sealing structure for containers. 2,323,505; July 6.
Willard, Kenneth A., East St. Louis, Ill., assignor to Comet Model Airplane & Supply Company, Incorporated. Miniature airplane. 2,323,506; July 6.
Williams, Bernard, Kanopolis Dam, Kans. Mucking and loading machine. 2,323,434; July 6.
Williams, Jean R. (See Crawshaw, S. L., and Williams.)
Williams, Philip H., San Jose, Calif. Centrifugal pump impeller balancing process. 2,323,637; July 6.
Wilmes, William L. (See Gustafsson, E., and Wilmes.)
Wilson, Alvin C., assignor to The Davison Chemical Corporation, Baltimore, Md. Treating hydrogels. 2,323,583; July 6.
Wilson, Cyril D., Metuchen, N. J., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del. Methylene bis-azoles. 2,323,503; July 6.
Wilson, Cyril D., Metuchen, N. J., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of omega acyl-azoles. 2,323,504; July 6.
Wilson, William S., Brookline, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Production of aluminum sulfate. 2,323,499; July 6.
Wing, Arthur K., Jr., Chatham, N. J., assignor to Radio Corporation of America. Filamentary cathode. 2,323,364; July 6.
Winkley, Erastus E. (See Hart, G. T., Jr., and Winkley.)
Winthrop Chemical Company. (See Bockmühl, M., and Persch, assignors.)
Wise, Lawrence, Bronx, assignor to Richard N. Briefer, Brooklyn, N. Y. Sound and picture apparatus. 2,323,638; July 6.
Wiseblood, Nathan, Malden, Mass. Preserving quicklime. 2,323,435; July 6.
Wolf, Cecil R. (See Ferris, W. D., and Wolf.)
Wolfinger, Frank F., administrator. (See Wolfinger, Joseph, Sr.)
Wolfinger, Joseph, Sr., Dundas, Wis., deceased, Frank F. Wolfinger, administrator. Vegetable slicer. 2,323,760; July 6.
Wood, Alfred R., Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Reinforced seam. 2,323,507; July 6.
Wolfe & Lange, Inc. (See Madden, E. G., and Murdock, assignors.)
Wood Conversion Company. (See Lang, Frederick W., assignor.)
Wood, Gar, Industries, Inc. (See Barrett, Edward R., assignor.)
Woolf, William H., and P. P. Korn, New York, N. Y. Pressure-bonded seed wrapper and making same. 2,323,746; July 6.
Yakee, Fred M., Mayville, Wis. Top for cans. 2,323,436; July 6.
Yates, Richard, East Rochester, assignor to Paul Folger, Rochester, N. Y. Resilient tire for wheels. 2,323,761; July 6.
Yeomans Brothers Company. (See Yeomans, C., and Jeffrey, assignors.)
Yeomans, Charles, Hubbard Woods, and H. T. Jeffery, assignors to Yeomans Brothers Company, Chicago, Ill. Sewage treatment apparatus. 2,323,437; July 6.
Zeakas, Tom, et al. (See Brewer, Lewis E., assignor.)
Zellner, Carl N., Elizabeth, N. J., assignor to Tide Water Associated Oil Company, New York, N. Y. Synthesis of organic acids. 2,323,861; July 6.
Zenner, Walter J., Des Plaines, assignor to Teletype Corporation, Chicago, Ill. Telegraph switching apparatus. 2,323,438; July 6.
Zetterstrom, Carl G., and L. J. F. Ell, assignors to Aktiebolaget Elektrolu, Stockholm, Sweden. Juice extractor. 2,323,747; July 6.
Zimmerman, Edward C., assignor to Patent License Corporation, Chicago, Ill. Lighting equipment. 2,323,697; July 6.
Zenith Radio Corporation. (See Carnahan, Chalon W., assignor.)
Zimmerman, Orr S., and T. J. Tully, assignors to Plastex Trim Corporation, Columbus, Ohio. Producing formed strips of plastic materials. 2,323,862; July 6.
Zwickel, Elmer L., executor. (See Brennan, Daniel A.)

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 6TH DAY OF JULY, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Agent, Clean-up. J. D. McQuade. Re. 22,342; July 6.
Cutout. A. Ramsey. Re. 22,343; July 6.
Elongated bodies by deformation, Producing. J. Kafowi. Re. 22,341; July 6.
Ignition system. D. Silverman. Re. 22,344; July 6.
Insecticidal compositions. C. D. Dolman. Re. 22,340; July 6.

LIST OF DESIGN INVENTIONS

Apron. G. Martin. 135,949; July 6.
Badge, Identification. L. D. Schibsby and B. Bronzan. 135,925; July 6.
Badge or similar article. J. D. Siderelis. 135,920; July 6.
Billfold. J. C. Davio. 135,922; July 6.
Board, Bread slicing. R. J. Richardson and J. Terpstra. 135,937; July 6.
Brassière or similar article. L. Malmstead. 135,923; July 6.
Cabinet, Motor generator set. E. C. Worthley. 135,939; July 6.
Coat. N. Finkelstein. 135,910; July 6.
Coat. A. Gruber. 135,913; July 6.
Comb, brush, and mirror, Combination. D. W. Spurgeon. 135,926; July 6.
Compact or similar article. H. Morris. 135,924; July 6.
Compressor member for a paper fastener. C. W. Morse. 135,919; July 6.
Controller, Triple handle. E. J. Panish. 135,950; July 6.
Dress. S. Zahn. 135,954–5; July 6.
Feeder tap, Trolley wire. A. H. Genter. 135,932; July 6.
Framework for physical and recreational training. W. P. Miller. 135,935; July 6.
Funnel and filter holder, Combined. W. B. Warren. 135,952; July 6.
Game board. R. C. Cobb. 135,930; July 6.
Girdle, Panty. Z. A. Stephens. 135,927–8; July 6.
Grinder, Meat. A. F. Kaptuller. 135,933; July 6.
Indicator, Ammunition rounds. W. H. Huenergardt. 135,916; July 6.
Lamp. P. S. Keeler. 135,946; July 6.
Molding strip, Automobile body trim. L. P. Caplan. 135,948; July 6.
Mower, Lawn. J. A. Ronning. 135,951; July 6.
Needle, Phonograph. F. E. Williamson. 135,953; July 6.
Paper, Wrapping. J. W. Elder. 135,940–5; July 6.
Photo and match book cover, Combined. S. Altman and F. Silverstein. 135,938; July 6.
Projector housing. W. A. Lebus. 135,917; July 6.
Razor blade. J. R. Ayotte. 135,921; July 6.
Rug or similar article. M. Sadinoff. 135,914; July 6.
Screwdriver or similar article. B. Magee. 135,918; July 6.
Spat. G. H. Bingham, Jr. 135,909; July 6.
Statuette. W. Frisch. 135,931; July 6.
Stocking. R. E. Tilles. 135,947; July 6.
Suit. A. Gruber. 135,911–12; July 6.
Support for a table tennis net. P. C. P. Booty. 135,915; July 6.
Tablecloth or similar article. C. I. Betesh. 135,907–8; July 6.
Tray and safety match holder, Combined ash. M. Mayer. 135,934; July 6.
Tree, Shoe. James B. Mutch. 135,936; July 6.
Tricycle, Convertible. J. Woginrich. 135,929; July 6.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 6TH DAY OF JULY, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Accounting machine. I. G. Hammer. 2,323,766; July 6.
Acid amines and making same, Beta-amino. H. G. Goodman, Jr. 2,323,391; July 6.
Acids, Synthesis of organic. C. N. Zellner. 2,323,861; July 6.
Acoustic attenuator for air impellers. E. H. Harris. 2,323,394; July 6.
Actuating mechanism for counters, Typewriter. R. G. Thompson. 2,323,633; July 6.
Adhesion, Process of. A. Menger and E. Bock. 2,323,831; July 6.
Adjustable truss pad. J. H. Mason. 2,323,827; July 6.
Air conditioning system. W. L. McGrath. 2,323,873; July 6.
Air conditioning system. W. R. Miller. 2,323,408; July 6.
Aircraft, Means for destroying. P. F. Newman. 2,323,561; July 6.
Airplane flight level indicator. J. Walton. 2,323,693; July 6.
Airplane landing gear. E. M. Bertran. 2,323,367; July 6.
Airplane, Miniature. K. A. Willard. 2,323,506; July 6.
Airplane retractible landing gear. E. A. Eddy. 2,323,385; July 6.
Alcoholic urea-formaldehyde resin solution. I. Rosenblum. 2,323,357; July 6.
Aliphatic higher monoaminomonocarboxylic acid amines and their preparation, Saturated. M. W. Farlow. 2,323,806; July 6.
Alkylation. A. M. McAfee and E. E. Dunlay. 2,323,616; July 6.
All-metal folding camera stand. T. Korling. 2,323,473; July 6.
Allyl alcohol and its homologues, Preparation of. F. Köhler. 2,323,781; July 6.
Alternating current generator. R. F. Mallina. 2,323,719; July 6.
Altitude control, Automatic. C. J. Crane and R. K. Stout. 2,323,311; July 6.
Altitude measuring. F. Dunmore and E. G. Lapham. 2,323,317; July 6.
Aluminum hydroxide powder and preparing the same. B. Walton. 2,323,432; July 6.
Aluminum sulphate, Production of. W. S. Wilson. 2,323,499; July 6.
Amplifier, Low frequency. J. van Slooten and R. F. Volz. 2,323,634; July 6.
Antenna system. A. B. Bailey. 2,323,641; July 6.
Antiseptic thermometer holder. J. L. Martineau. 2,323,615; July 6.
Apparatus for A. C. network analysis. W. E. Enns. 2,323,588; July 6.
Apparatus for and process of handling hollow articles. C. R. Taylor. 2,323,757; July 6.
Apparatus for centering shoe soles and the like. J. H. Flink. 2,323,809; July 6.
Apparatus for fitting shoes to feet. D. F. Hyland, J. C. Stiles, and H. L. and J. Brenner. 2,323,538; July 6.
Apparatus for forming templates. F. A. Faulhaber. 2,323,528; July 6.
Apparatus for frying poultry, fish or other meat products. G. W. Porter and B. F. Krehbiel. 2,323,623; July 6.
Apparatus for handling thread or the like. G. P. Torrence, R. F. Bergmann, and W. F. Knebusch. 2,323,879; July 6.
Apparatus for individual edible spreads, Molding. H. H. Doering and B. J. Skoglund. 2,323,523; July 6.
Apparatus for locking and sealing burial caskets. R. B. Purkiss. 2,323,674; July 6.
Apparatus for perforating cigars. J. C. Ward and S. Reso. 2,323,694; July 6.
Apparatus for performing work on metal. R. Temple, Jr. 2,323,758; July 6.
Apparatus for plastic molding. F. P. Stull. 2,323,577; July 6.
Apparatus for tendering meat. J. Moldawsky. 2,323,667; July 6.
Apparatus for the treatment of soil. C. F. Irish. 2,323,773; July 6.
Apparatus for transporting materials. R. A. Dunn. 2,323,458; July 6.
Apparatus for violet ray treatment. C. G. Filzer. 2,323,529; July 6.
Applicator and curler, Mascara. A. O. Hanisch. 2,323,595; July 6.
Arc interrupting device. W. H. Lantz, Jr. 2,323,476; July 6.
Arrangement for stamping machines. E. V. Nyberg. 2,323,673; July 6.

Articles from titanium dioxide, Forming. H. Thurnauer, and G. W. Fichter. 2,323,759; July 6.
Assembly for electrical units, Separable. B. N. Foster. 2,323,812; July 6.
Attachment for pencils and the like. S. E. Block. 2,323,302; July 6.
Attachment plug. V. H. Tousley. 2,323,736; July 6.
Automatic drain valve. E. Gustafson and W. L. Wilmes. 2,323,764; July 6.
Automatic reverse for tapping machines. L. L. Schauer. 2,323,488; July 6.
Aviation ground training machine. J. H. Geisse. 2,323,322; July 6.
Azo compounds and material colored therewith. J. B. Dickey and J. G. McNally. 2,323,314–15; July 6.
Bag: *See*—
  Fish bag.
Bathing suits and trunks and other athletic suits, trousers and trunks. J. T. Rakauskas. 2,323,842; July 6.
Beehive cover. M. Dzula. 2,323,805; July 6.
Beverage-bottle case. L. O. Schneeberger. 2,323,491; July 6.
Binder folder. P. Hartmann. 2,323,393; July 6.
Blankholder press. J. A. Muller. 2,323,410; July 6.
Blower, Rotary. V. V. Dibovsky. 2,323,382; July 6.
Boltless wood connection. R. K. O. Sahlberg. 2,323,844; July 6.
Bomb, Incendiary. H. A. Simpson. 2,323,426; July 6.
Bookkeeping or accounting aid. S. B. Freiberg. 2,323,462; July 6.
Bottle inspection apparatus. P. Weathers. 2,323,636; July 6.
Box: *See*—
  Collapsible box. Screw plate box.
Box attachment, Cigar. E. W. Lilienfield. 2,323,820; July 6.
Bracket: *See*—
  Curtain rod bracket.
Braking system. E. A. Milhaupt. 2,323,406; July 6.
Braking system. H. S. Ogden. 2,323,413; July 6.
Bread, Manufacture of. L. S. Harber. 2,323,537; July 6.
Brick grab. R. A. Fontaine. 2,323,810–11; July 6.
Bromine extraction process. F. F. Lindstaedt and D. L. Shatto. 2,323,549; July 6.
Brooch, Flower holding. C. E. Schwarzkopf. 2,323,572; July 6.
Broom machine. J. S. Plumeau and E. C. C. Miller. 2,323,420; July 6.
Bucket, Centrifugal. H. D. Haley. 2,323,712; July 6.
Buffing machine. G. F. Wikle. 2,323,744; July 6.
Bulkhead for refrigerator cars, Convertible. J. S. Lundvall. 2,323,665; July 6.
Bullet, Incendiary. W. R. Bluehdorn and R. N. Nelson. 2,323,303; July 6.
Bundling or gripping device. J. G. Lewis. 2,323,819; July 6.
Burner: *See*—
  Oil burner.
Burner head and mounting. J. T. Voorheis. 2,323,635; July 6.
Cable splicer. I. Jacoel. 2,323,774; July 6.
Cabinet: *See*—
  Sink cabinet.
Camera control means. P. F. Sperry. 2,323,576; July 6.
Camera, Document photographing. V. C. Heybourne. 2,323,600; July 6.
Camera, Photographic. F. Wagner. 2,323,739; July 6.
Can making machine. J. M. Hothersall. 2,323,329; July 6.
Can treating machine. H. J. Paynter. 2,323,350; July 6.
Candle, Citronella. P. J. Driscoll. 2,323,804; July 6.
Car: *See*—
  Refrigerator car.
Carbonized sheet for use with post cards and using the (partially carbonized) sheet and post card together, Partially. H. F. Meras. 2,323,832; July 6.
Carburetor. W. F. McLindon. 2,323,721; July 6.
Carrier: *See*—
  Mining machine carrier.
Carton. L. M. Kennedy. 2,323,779; July 6.
Carton. R. E. Peters, Jr. 2,323,565; July 6.
Carton having attached carton opener. R. L. Kaye. 2,323,335; July 6.
Catalysts and the preparation thereof. R. F. Ruthruff. 2,323,728; July 6.
Case: *See*—
  Beverage-bottle case.
Catalytic conversion process. F. M. McMillan. 2,323,830; July 6.

Cathode, Filamentary. A. K. Wing, Jr. 2,323,364; July 6.
Cell. J. E. Creech. 2,323,455; July 6.
Check form, Foldover. D. F. Dienna, Jr. 2,323,586; July 6.
Chemical process. J. E. Kirby and J. H. Werntz. 2,323,714; July 6.
Chemical process and composition. D. M. McQueen. 2,323,481; July 6.
Chloride solutions, Regeneration of deactivated cuprous. R. Stadler and A. Auerhahn. 2,323,631; July 6.
Chlorine dioxide by reaction of chlorite and aldehydes, Production of. C. A. Hampel. 2,323,594; July 6.
Chlorine dioxide, Manufacture of. C. A. Hampel and M. C. Taylor. 2,323,593; July 6.
Cigarette rolling form. A. H. Hood, Jr. 2,323,867; July 6.
Circuit: *See*—
  Discriminator circuit. Electric circuit.
Circuit breaker. L. G. Riley. 2,323,726; July 6.
Circuit breaker. H. G. Baxter and O. S. Jennings. 2,323,784; July 6.
Circuit controlling means. E. G. De Valera. 2,323,459; July 6.
Circuit interrupter. B. P. Baker. 2,323,642; July 6.
Clamp: *See*—
  Welding clamp.
Clamping tool. A. F. Gordy and A. F. Rade. 2,323,654; July 6.
Cleaner: *See*—
  Mechanical smoking pipe bowl cleaner.
Cleaner. L. C. Rogers. 2,323,568; July 6.
Cleaner control, Windshield. E. C. Horton, D. N. Mussen and A. Rappl. 2,323,470; July 6.
Cleaning device, Window. E. F. Matthews and N. W. La Clair. 2,323,555; July 6.
Clock, Electric. F. B. Cole. 2,323,796; July 6.
Clutch: *See*—
  One-way clutch.
Clutch control. C. J. Schmidt and G. Murray. 2,323,489; July 6.
Clutch control device. E. J. Panish. 2,323,619; July 6.
Coach-sleeper vehicle. P. Parke, J. K. Tully, L. Andersen, and B. E. Jones. 2,323,620; July 6.
Coal drier. F. J. Anderson and M. Treshow. 2,323,289; July 6.
Coaling structure, Locomotive. L. G. Plant. 2,323,419; July 6.
Code interpreting mechanism. A. H. Maschmeyer. 2,323,824; July 6.
Coin disposal unit. H. A. Henning. 2,323,657; July 6.
Collapsible box. M. Kretchmer. 2,323,782; July 6.
Collar supporter, Shirt. C. A. Burton. 2,323,866; July 6.
Coloring material. R. H. Kienle and A. L. Peiker. 2,323,871; July 6.
Communication system. R. H. Campbell. 2,323,307; July 6.
Composite metal slabs, Making. C. A. Medsker. 2,323,666; July 6.
Composition containing polymerized chloroprene. A. D. Macdonald. 2,323,338; July 6.
Composition of matter. E. W. McMullen and D. J. Doan. 2,323,874; July 6.
Computing and accounting machine. J. N. Mueller. 2,323,836; July 6.
Computing mechanism. K. C. Bugg. 2,323,374; July 6.
Concentrator. L. McLean. 2,323,557; July 6.
Consolidated board product, Momentarily. W. H. Mason. 2,323,339; July 6.
Construction of concrete piles or the like. A. Hood. 2,323,772; July 6.
Container. J. W. Chase. 2,323,447; July 6.
Container. D. X. Clarin. 2,323,795; July 6.
Container closure. S. A. Bennett. 2,323,443; July 6.
Container for pictures and the like. F. R. Fuller. 2,323,532; July 6.
Contouring machine. D. H. Duffy. 2,323,587; July 6.
Control cable system with improved compensating means. J. M. Pitts. 2,323,352; July 6.
Control device, Fluid flow. J. D. Nixon. 2,323,839; July 6.
Control, Distortion. B. Sheffield. 2,323,626; July 6.
Control for dispensing devices. W. D. Sangster and J. T. Binder. 2,323,681; July 6.
Control for presses, Two hand. E. Davis. 2,323,457; July 6.
Control means for synchronous dynamo-electric machines. E. Pell. 2,323,485; July 6.
Control mechanism. A. Newman. 2,323,411; July 6.
Control mechanism. W. Pechy. 2,323,351; July 6.
Control method and apparatus. H. A. Rickett. 2,323,876; July 6.
Control of induction period in blueprint papers. C. A. Crowley and G. H. Goodyear. 2,323,798–9; July 6.
Control system. J. F. Tritle. 2,323,737; July 6.
Control system, Elevator. W. F. Eames. 2,323,652; July 6.
Control unit, Multiple. W. B. Wheatley. 2,323,859; July 6.
Control valve mechanism. W. F. Boldt. 2,323,788; July 6.
Controlling the strain-sensitivity of Bessemer steel. R. R. Webster. 2,323,695; July 6.
Conveyer, Stoker. W. O. Martin. 2,323,553; July 6.
Conveyer, Trolley. J. A. Meister. 2,323,722; July 6.
Copper-mercapto compounds and process of preparing it, Aromatic. M. Bockmühl and W. Persch. 2,323,445; July 6.
Corner construction for fire screens. J. H. Babros. 2,323,699; July 6.
Cornice. M. H. Stern and J. Nisenson. 2,323,496; July 6.
Counting mechanism. B. E. Seemel. 2,323,492; July 6.
Cover: *See*—
  Behive cover. Roll cover.
Cradle reel. F. M. Littell. 2,323,477; July 6.
Cultivator, Cover. C. S. Noble. 2,323,412; July 6.
Cultivator, Listed corn. W. H. Silver. 2,323,683; July 6.
Cup, Milking machine teat. W. A. Scott. 2,323,851; July 6.
Cup, Paper. W. E. Amberg. 2,323,287; July 6.
Cup, Paper. W. E. Amberg. 2,323,288; July 6.
Curtain. E. P. Bixer. 2,323,444; July 6.
Curtain rod bracket. J. F. Dexter. 2,323,381; July 6.
Cut-crystal element, Finishing. H. W. N. Hawk. 2,323,599; July 6.
Cutter: *See*—
  Pipe cleaning cutter.
Cutting machine. G. McNab. 2,323,875; July 6.
Cutting tool. P. E. Strout. 2,323,497; July 6.
Cutting torch attachment. J. L. Cook. 2,323,298; July 6.
Damping unit for watt-hour meters. S. S. Green. 2,323,465; July 6.
Darning device. O. Myslik. 2,323,671; July 6.
Darning light. A. J. Bloodgood. 2,323,292; July 6.
Denture, Partial. C. N. Skinner. 2,323,685; July 6.
Detector, Frequency modulation. S. Hunt. 2,323,603; July 6.
Determining and regulating the mass of a component gas per unit volume of a gaseous mixture. H. J. Rand. 2,323,675; July 6.
Device for opening and emptying cartons. S. G. Seidel and R. P. Lownes. 2,323,852; July 6.
Diaphragm valve. G. E. Franck. 2,323,531; July 6.
Die punch. J. A. Smith. 2,323,755; July 6.
Differential truss pad. J. H. Mason. 2,323,826; July 6.
Dimpling and riveting device. R. H. Lamb and R. H. Baker. 2,323,814; July 6.
Discriminator circuit. H. Kihn. 2,323,609; July 6.
Dispensing carton. K. J. Harwood. 2,323,958; July 6.
Dispensing device. R. W. Barnes. 2,323,865; July 6.
Distilling petroleum residues or the like. M. H. Tuttle. 2,323,501; July 6.
Distributing apparatus. P. A. Reh. 2,323,677; July 6.
Doll, Flat. A. M. De Journette. 2,323,522; July 6.
Door: *See*—
  Fire door. Overhead sliding door.
  Garage door.
Door adjustment structure, Lateral. D. J. Seaman. 2,323,625; July 6.
Door for top loading and unloading ovens. C. F. Mayer. 2,323,828; July 6.
Door or panel. A. P. and G. W. Hill. 2,323,327; July 6.
Drafting mechanism for roving frames. B. C. Shaw. 2,323,882; July 6.
Drawer with tilting back wall. C. W. Straubel. 2,323,632; July 6.
Drawing set. A. M. De Journette. 2,323,521; July 6.
Drier: *See*—
  Coal drier. Print drier.
Drill control, Dentist. H. R. Clausen. 2,323,645; July 6.
Drive control, Two-speed supercharger. H. W. Gunberg. 2,323,592; July 6.
Drive gearing, Intermittent. A. A. Overbury. 2,323,415; July 6.
Drying process. G. F. Downs, Jr. 2,323,524; July 6.
Dust separator. L. S. Linderoth, Jr. 2,323,405; July 6.
Earth mover. A. T. Spencer, Jr. 2,323,428; July 6.
Electric circuit. T. C. Lennox. 2,323,716; July 6.
Electric decoding device. H. P. Mixer. 2,323,833; July 6.
Electric discharge apparatus. J. W. Dawson. 2,323,650; July 6.
Electric discharge apparatus. G. L. Tawney. 2,323,735; July 6.
Electric distribution system. H. E. Pearson. 2,323,418; July 6.
Electric heating pad. F. Lobl. 2,323,478; July 6.
Electric iron. B. G. Olving. 2,323,414; July 6.
Electric torch. W. C. Crimmins. 2,323,312; July 6.
Electrical control system. C. W. Baird. 2,323,440; July 6.
Electrical measuring device. B. H. Smith. 2,323,733; July 6.
Electrical musical instrument. L. Hammond and T. J. George. 2,323,392; July 6.
Electrical protective system. F. D. Johnson. 2,323,776; July 6.
Electrical system. C. W. Baird. 2,323,441; July 6.
Electrode, Welding. R. J. Franklin. 2,323,711; July 6.
Electron discharge apparatus. H. Motz. 2,323,560; July 6.
Enamel compositions. H. J. Kauth. 2,323,334; July 6.
Engine: *See*—
  Turbine engine.

Engine starter. W. L. Gorden. 2,323,535; July 6.
Ethylene sulphide reaction product of cyanamide. L. P. Moore and W. P. Ericks. 2,323,409; July 6.
Extractor: *See*—
Juice extractor.
Fabric: *See*—
Knitted fabric.
Fabric and its production, Knitted. H. B. Hayto and W. B. Mattinson. 2,323,396; July 6.
Fan, Suction. J. H. Hanselman. 2,323,536; July 6.
Fastening device. G. A. Tinnerman. 2,323,689; July 6.
Fastening device. G. A. Tinnerman. 2,323,690; July 6.
Fault-indicating means for signal systems. J. H. Wheelock. 2,323,860; July 6.
Feeder: *See*—
Proportional chemical feeder. Vibratory feeder.
Feeding of fuel to engines. W. K. Ebel, A. E. Houstle, Jr., N. F. Scudder, and W. B. O'Neal. 2,323,525; July 6.
Filing equipment. D. A. Brennan. 2,323,448; July 6.
Filler material for paint, rubber, paper, etc. A. R. Lukens. 2,323,550; July 6.
Film data selecting and viewing machine. J. W. Bryce. 2,323,372; July 6.
Films on metals, Forming insoluble and adherent, non-metallic. G. Schore. 2,323,424; July 6.
Fire door. P. H. Routledge. 2,323,845; July 6.
Fish bag. M. Farkas. 2,323,318; July 6.
Fishhook. J. Helfenstein. 2,323,656; July 6.
Fitting shoes to feet. D. F. Hyland, J. C. Stiles, H. L. Brenner, and J. Brenner. 2,323,539; July 6.
Fluid actuated head for abrading elements. H. M. Whittaker. 2,323,433; July 6.
Fluid container and producing same, Flexible collapsible. A. N. Spanel. 2,323,629; July 6.
Fluid expelling tire assembly. A. D. Steidinger. 2,323,495; July 6.
Fluid flow device. J. D. Nixon. 2,323,838; July 6.
Folding table. E. L. Schmidt and J. L. Schwabe, Jr. 2,323,423; July 6.
Foot exercising device. A. Vigorith. 2,323,579; July 6.
Foot modeling device. D. F. Hyland, J. C. Stiles, H. L. and J. Brenner. 2,323,540; July 6.
Footwear and the manufacture thereof. R. C. Davies. 2,323,801; July 6.
Frame: *See*—
Railway motor frame.
Front end axle and steering assembly, Tandem. A. F. and B. P. Murty. 2,323,669; July 6.
Fruit decapper. A. H. Morgan. 2,323,668; July 6.
Furnace wall construction. L. H. Hosbein. 2,323,661; July 6.
Furniture, Metal. W. McArthur. 2,323,829; July 6.
Fuse assembling machine. M. C. Ricciardi. 2,323,355; July 6.
Game device. S. J. Bens. 2,323,291; July 6.
Garage door. W. D. Ferris and C. R. Wolf. 2,323,807; July 6.
Garbage disposal, Pertaining to. C. Le Bleu. 2,323,611; July 6.
Garment construction. A. Katz. 2,323,777; July 6.
Garment, Form shaping and constricting. B. Lewis. 2,323,717; July 6.
Gas storage and dispensing apparatus, Liquefied. J. T. Gregory. 2,323,763; July 6.
Gasket retaining ring. P. D. Merrill. 2,323,482; July 6.
Gauge: *See*—
Valve gauge.
Gauge positioning mechanism. H. H. Colson. 2,323,647; July 6.
Gear: *See*—
Airplane landing gear. Levered suspension landing gear.
Airplane retractible landing gear.
Gear shift mechanism. S. Cipullo. 2,323,516; July 6.
Gear shifting mechanism. E. G. Kesling. 2,323,878; July 6.
Generator: *See*—
Alternating current generator. Ultra high frequency generator.
Gimp-cord guard for buttonhole sewing machines. E. P. Spaine. 2,323,494; July 6.
Glass composition. G. E. Barton. 2,323,643; July 6.
Glass cutting machine, Automatic. K. E. Sommerfeld. 2,323,686; July 6.
Glass fiber strand, Coated. A. L. Simison. 2,323,684; July 6.
Governor, Centrifugal. B. W. Carrington. 2,323,791; July 6.
Grinding mills. H. H. Scherff and G. F. Hoffmann. 2,323,490; July 6.
Grinding tool. J. J. O'Brien. 2,323,725; July 6.
Guanyl urea formate, Preparing. D. W. Jayne, Jr., and H. M. Day. 2,323,869; July 6.
Guard, Drainboard. S. Chambers. 2,323,454; July 6.
Guard, Fingernail. S. Silverman. 2,323,854; July 6.
Guard for shoe heels. A. H. Deeley. 2,323,520; July 6.
Guard, Ship. L. Simeone. 2,323,853; July 6.
Guide for tools, Magnetic. C. S. Finnell. 2,323,319; July 6.
Gun, Spray. O. Ottoson. 2,323,618; July 6.
Halogen acyl derivatives of 4, 4'-diaminodiphenyl sulphone and process of preparing them. H. A. Shonle and A. M. Van Arendonk. 2,323,573; July 6.
Handle reinforcing device. V. J. Koslancic. 2,323,545; July 6.
Hanger: *See*—
Propeller nut hanger.
Harvester, Vegetable. O. A. Strassman. 2,323,688; July 6.
Heat exchanger. W. W. Kraft. 2,323,474; July 6.
Heating and humidfying system. W. E. Schnoes. 2,323,849; July 6.
Heating apparatus. S. P. Foltz. 2,323,530; July 6.
Heating of fluids. G. W. Thompson. 2,323,498; July 6.
Heel-seat fitting machine. L. G. Miller and R. S. Megathlin. 2,323,407; July 6.
Heel templates for heel turning machines, Preparing. D. J. Calderazzo. 2,323,453; July 6.
High velocity tensile machinery. A. Nadai and M. A. Manjoine. 2,323,724; July 6.
Hold-down means for shears and the like. M. W. Hazelton. 2,323,770; July 6.
Holder: *See*—
Antiseptic thermometer holder.
Holders and drip collectors for table utensils, Combined. C. A. Brown. 2,323,296; July 6.
Honing machine. J. E. Kline. 2,323,780; July 6.
Housing for use in testing detonators. A. T. Anderson. 2,323,301; July 6.
Hydraulic drive. W. Ferris. 2,323,463; July 6.
Hydrogels, Treating. A. C. Wilson. 2,323,583; July 6.
Ignition and gas shutoff mechanism, Automatic. J. H. Hammond, Jr. 2,323,767; July 6.
Indicator: *See*—
Airplane flight level indicator.
Ink, Printing. D. R. Erickson and P. J. Thoma. 2,323,710; July 6.
Instrument dial lock. A. S. Kester. 2,323,608; July 6.
Insulated enamel for electric conductors. H. J. Kauth. 2,323,333; July 6.
Insulating construction, Heat. H. W. Collins. 2,323,297; July 6.
Internal combustion engine charge forming apparatus. R. M. Anderson. 2,323,639; July 6.
Interpolymers of an unsaturated alkyd resin and a 3-hydroxy alkene-1 polyester of a polycarboxylic acid. G. F. D'Alelio. 2,323,706; July 6.
Iron: *See*—
Electric iron.
Joint for exhaust manifold systems. R. I. Markey. 2,323,823; July 6.
Juice extractor. C. G. Zetterstrom and L. J. F. Ell. 2,323,747; July 6.
Kerf-cutting machine. W. W. Sloane. 2,323,493; July 6.
Knitted fabric. W. L. Smith, Jr. 2,323,855; July 6.
Labeling machine. G. W. von Hofe. 2,323,691; July 6.
Latch mechanism for hooks. R. K. Hertel. 2,323,326; July 6.
Lather producing machine. A. B. Campbell. 2,323,377; July 6.
Lattices, Synthetic rubberlike. I. Dennstedt. 2,323,313; July 6.
Lens for electron microscopes, Projection. J. Hillier. 2,323,328; July 6.
Levered suspension landing gear. W. Armstrong. 2,323,640; July 6.
Lid, Cooler. W. G. Kaliska. 2,323,870; July 6.
Lift-blank and holder therefor. D. F. Hyland, J. C. Stiles, and H. L. and J. Brenner. 2,323,541; July 6.
Lifting device. A. G. Trigg. 2,323,500; July 6.
Light: *See*—
Darning light.
Lighting equipment. E. C. Zimmerman. 2,323,697; July 6.
Liner and holder therefor. J. Rosay. 2,323,356; July 6.
Lining guide for tie sewing machines. C. W. Johnson. 2,323,543; July 6.
Liquid dispensing device. R. D. Champion and L. E. Fry. 2,323,378; July 6.
Liquid metering device. R. M. Sherman. 2,323,627; July 6.
Lock: *See*—
Instrument dial lock.
Lock. E. N. Jacobi. 2,323,400; July 6.
Locking mechanism for doors. J. W. Shannon, L. M. Hathaway, and J. E. McKee. 2,323,358; July 6.
Lubricant. E. W. Cook. 2,323,797; July 6.
Lubricant composition. R. L. Bond. 2,323,789; July 6.
Lubricating and oil separating system for compressors. B. Dick and F. H. Stroup. 2,323,802; July 6.
Lubricating composition. I. W. Humphrey. 2,323,471; July 6.
Lubricating oils, etc. J. M. Musselman. 2,323,670; July 6.
Lubricator and seal, Valve. I. N. Reed. 2,323,421; July 6.
Machine for cutting staple fibers. C. A. Castellan. 2,323,644; July 6.
Machine for marking textile and other articles. H. Richter, J. Wahlbeck, and L. S. Kleinfeld. 2,323,843; July 6.
Machine for use in the manufacture of shoes. A. R. Morrill. 2,323,346; July 6.

Machine tool. E. E. Kelley. 2,323,663; July 6.
Machine tool. K. F. Moller. 2,323,834; July 6.
Magnetic apparatus. E. C. Neal. 2,323,837; July 6.
Magnetic magnesium, Manufacturing. F. J. Hansgirg. 2,323,597; July 6.
Manifold. B. Beard. 2,323,442; July 6.
Marker. W. R. Fowler, Jr. 2,323,653; July 6.
Marking device. W. M. Davis. 2,323,649; July 6.
Material handling and loading apparatus. J. Kuchar. 2,323,404; July 6.
Material handling device. D. S. Mackie. 2,323,551; July 6.
Materials, Production of artificial. H. Dreyfus. 2,323,383; July 6.
Means for reproducing motion. J. D. Peterson. 2,323,566; July 6.
Measurement and recording of transient peak voltages. R. W. George. 2,323,762; July 6.
Measuring instrument. S. Stokes. 2,323,734; July 6.
Meattendering machine. J. Hansen. 2,323,769; July 6.
Mechanical smoking pipe bowl cleaner. S. J. Brandt. 2,323,294; July 6.
Mechanical vibration or oscillation generator. R. A. McCullough. 2,323,479; July 6.
Mechanism for motor toboggans, Propulsion. C. J. E. Eliason. 2,323,526; July 6.
Medicinal agent. W. G. Christiansen and A. E. Jurist. 2,323,309; July 6.
Metal highway guard support. A. E. Brickman. 2,323,514; July 6.
Meter: *See*—
Parking meter. Thermal demand meter.
Photographic exposure meter.
Method and apparatus for accelerating paramagnetic particles. E. L. Beisel. 2,323,786; July 6.
Method and apparatus for capsulating liquids. C. L. Weckesser. 2,323,581–2; July 6.
Method and apparatus for determining effective porosity. E. O. Mattocks. 2,323,556; July 6.
Method and machine for truing grinding wheels. G. F. Johnson. 2,323,401; July 6.
Method of and apparatus for treating coffee. A. J. Hazle. 2,323,771; July 6.
Methylene bis-azoles. C. D. Wilson. 2,323,503; July 6.
Mill: *See*—
Oscillation tube mill.
Mining machine carrier. A. L. Lee. 2,323,817; July 6.
Molding composition. G. W. Whitehead. 2,323,303; July 6.
Mop. K. I. Strand. 2,323,687; July 6.
Motor vehicle. F. A. McFarland. 2,323,340; July 6.
Motor vehicle wheel. C. H. Wann. 2,323,502; July 6.
Mount for shearing heads. J. A. Hanley. 2,323,655; July 6.
Mount, Reflecting lens. R. E. Bitner. 2,323,787; July 6.
Mounting: *See*—
Punch mounting. Wheel mounting.
Mounting electron discharge devices. R. M. Smith. 2,323,628; July 6.
Mounting for sand spreaders. H. R. Moore. 2,323,345; July 6.
Mounting for tractors, Wheel. O. R. Schoenrock. 2,323,682; July 6.
Mucking and loading machine. B. Williams. 2,323,434; July 6.
Mucking machine. A. R. Biedess. 2,323,368; July 6.
Multiplier, Frequency. A. L. Nelson. 2,323,672; July 6.
Nozzle, Spray. D. P. Glessner. 2,323,464; July 6.
Oarlock, Bow-facing. P. M. Griffin. 2,323,323; July 6.
Oil burner. F. Ravnsbeck. 2,323,567; July 6.
Oil control piston ring. W. C. Landon. 2,323,815; July 6.
Oil, Transmission. J. S. Wallace. 2,323,360; July 6.
Omega acyl-azoles, Preparation of. C. D. Wilson. 2,323,504; July 6.
One-way clutch. W. H. Plog. 2,323,353; July 6.
Ordnance. J. C. Trotter. 2,323,430; July 6.
Organic mercury compound. W. H. Hill. 2,323,397; July 6.
Oscillation tube mill. S. Kiesskalt and E. Korinth. 2,323,544; July 6.
Oven and broiler. W. C. Lindemann and R. Meiners. 2,323,821; July 6.
Overhead sliding door. W. G. Deuring. 2,323,585; July 6.
Oxide type catalyst, Preparation of. E. C. Hughes. 2,323,868; July 6.
Package for ice cream cones, Dispensing. L. Pape and M. Weintraub. 2,323,841; July 6.
Packer, Refuse. E. R. Barrett. 2,323,366; July 6.
Packing containers. R. Guyer. 2,323,467; July 6.
Pad: *See*—
Adjustable truss pad. Electric heating pad.
Differential truss pad.
Paint-mixing machine. A. P. Jorgenson. 2,323,403; July 6.
Paper clip. H. Marion, J. A. Perlstein, and F. J. O'Donnell. 2,323,552; July 6.
Parking meter. W. W. Jones. 2,323,402; July 6.
Pavement. F. W. Schaeffer. 2,323,848; July 6.
Pectin, Extraction and recovery of. P. B. Myers and A. H. Rouse. 2,323,483; July 6.
Pellet forming apparatus. E. E. Beeton and H. T. Campbell. 2,323,785; July 6.
Pelts or furs, Treating. S. Gottfried. 2,323,751; July 6.
Petroleum emulsions and breaking agents, Breaking. A. Moeller, H. Tochtermann, O. Trösken. 2,323,344; July 6.
Phonograph. C. G. Johnson and J. A. Boyajian. 2,323,472; July 6.
Phonograph, Automatic. E. F. Andrews. 2,323,365; July 6.
Photoengraving process and product. W. Howey. 2,323,752; July 6.
Photographic exposure meter. K. Rath. 2,323,676; July 6.
Photographic screens, Illumination of. L. W. Oliver. 2,323,754; July 6.
Picture, Photographic color. A. Frolich, W. Schneider, and P. Heisel. 2,323,590; July 6.
Piezoelectric crystal assembly. W. R. Koch. 2,323,610; July 6.
Pipe cleaning cutter. K. I. and L. R. Robinson. 2,323,727; July 6.
Piston. C. S. Clark. 2,323,310; July 6.
Piston, Internal combustion engine. P. Webster. 2,323,742; July 6.
Plant growth, Promoting. D. Alvos. 2,323,509; July 6.
Plasterboard, Perforated. J. Page. 2,323,564; July 6.
Plastic materials, Producing formed strips of. O. S. Zimmerman and T. J. Tully. 2,323,862; July 6.
Plug: *See*—
Attachment plug. Spark plug.
Pocket for garments. M. Friedman. 2,323,390; July 6.
Pointer, Nonparallax. L. M. Ellison. 2,323,709; July 6.
Precooling contents of refrigerating cars. L. Adams. 2,323,439; July 6.
Press: *See*—
Blankholder press.
Pressure-bonded seed wrapper and making same. W. H. Woolf and P. P. Korn. 2,323,746; July 6.
Pressure control for engines, Automatic. R. H. Bowman. 2,323,304; July 6.
Pressure indicator for clothes wringers. T. J. Litle, Jr. 2,323,872; July 6.
Print drier. A. Romero. 2,323,680; July 6.
Printer, Telegraph. C. J. Fitch and K. R. Schneider. 2,323,388; July 6.
Printing paste, Rubber containing textile. D. M. Gans. 2,323,591; July 6.
Production of motor fuels. G. E. Schmitkons. 2,323,570; July 6.
Projecting system for wooden or metallic coiling curtains of any model. A. Lombardi, A. Saponare, and J. R. Saponaro. 2,323,612; July 6.
Projector, Continuous. H. S. Bamford. 2,323,512–13; July 6.
Propeller nut hanger. J. H. MacDonald. 2,323,614; July 6.
Proportional chemical feeder. C. T. McGill. 2,323,341; July 6.
Protective device for series capacitors. R. E. Marbury and W. E. Berkey. 2,323,720; July 6.
Pump impeller balancing process, Centrifugal. P. H. Williams. 2,323,637; July 6.
Punch mounting. J. A. Smith. 2,323,756; July 6.
Punching device. G. F. Wales. 2,323,431; July 6.
Punching mechanism. K. J. Braun. 2,323,790; July 6.
Pyrethrum activated and stabilized with polyetheramines. W. F. Hester. 2,323,658; July 6.
Quicklime, Preserving. N. Wiseblood. 2,323,435; July 6.
Radio navigation system. W. P. Lear. 2,323,337; July 6.
Radio receiving system. R. E. Spencer. 2,323,630; July 6.
Radio receiving system. A. L. Upton. 2,323,858; July 6.
Railroad ballast reshaper and subgrade cleaner. H. W. Meese. 2,323,343; July 6.
Railway motor frame. C. F. Jenkins and G. A. Moore. 2,323,662; July 6.
Rake and stacker, Combination sweep. J. M. Johnson. 2,323,605; July 6.
Razor. N. A. Holsclaw. 2,323,659; July 6.
Razor. G. A. Wildeboor. 2,323,745; July 6.
Razor, Safety. F. J. Mehl. 2,323,881; July 6.
Receiver, Frequency modulation. C. W. Hansell. 2,323,596; July 6.
Receptacle. F. O. Colpron. 2,323,379; July 6.
Reducing apparatus. D. N. Burruss, Jr., and J. E. Drapeau, Jr. 2,323,305; July 6.
Reel: *See*—
Cradle reel.
Refrigerating and air conditioning apparatus. C. W. Baker. 2,323,511; July 6.
Refrigerating apparatus. J. W. Chamberlain. 2,323,308; July 6.
Refrigerator. C. M. Rees. 2,323,354; July 6.
Refrigerator car. G. Boswinkle. 2,323,446; July 6.
Registering mechanism and computing device. K. C. Bugg. 2,323,373; July 6.
Regulator: *See*—
Temperature regulator.
Vacuum operated window regulator.
Regulator. R. N. Slinger. 2,323,427; July 6.
Reinforced seam. A. R. Wood. 2,323,507; July 6.
Relay. D. A. Miller. 2,323,558; July 6.
Reseating tool. J. C. Irwin. 2,323,398; July 6.
Resistor, Ventilated. C. C. Whittaker. 2,323,743; July 6.

Ring: *See*—
Gasket retaining ring. Oil control piston ring.
Ring forming machine. E. W. Krueger. 2,323,546; July 6.
Rod weeder, Rotary. C. C. Calkins and L. A. Hunt. 2,323,452; July 6.
Roll cover. H. E. Uhlig. 2,323,580; July 6.
Rotameter. K. K. Fischer. 2,323,320; July 6.
Rubber and asphalt cement and articles comprising same. E. S. Knorr. 2,323,336; July 6.
Rubber, Vulcanization of. P. C. Jones and R. A. Mathes. 2,323,775; July 6.
Rule for wall patterns and areas, Slide. F. W. Lang. 2,323,475; July 6.
Saluting tube. A. A. Campbell. 2,323,306; July 6.
Sash fixture for windows and the like. C. L. Mills. 2,323,559; July 6.
Saw filing machine. R. S. Ewers. 2,323,527; July 6.
Scoring device. C. A. Bailey. 2,323,700; July 6.
Scoring device. L. D. Brown. 2,323,371; July 6.
Screen: *See*—
Window screen.
Screen, Making a. J. E. Harmon. 2,323,713; July 6.
Screw machine. D. M. Davis. 2,323,380; July 6.
Screw plate box. H. J. Smith. 2,323,574; July 6.
Seal, Lubricant. R. P. Lewis. 2,323,548; July 6.
Seal, Quickly detachable. S. Bright, Jr. 2,323,449; July 6.
Seal, Shaft. F. Shenton and L. Buehler, Jr. 2,323,730; July 6.
Sealing means for universal joints. A. H. Rzeppa. 2,323,569; July 6.
Sealing structure for containers. I. L. Wilcox. 2,323,505; July 6.
Seam construction. W. L. Dieter. 2,323,316; July 6.
Seasoning composition and carrier. C. L. Griffith. 2,323,466; July 6.
Seat construction. N. C. Clark. 2,323,794; July 6.
Selective system and apparatus. M. H. Loughridge 2,323,822; July 6.
Separator: *See*—
Dust separator.
Sewage treatment apparatus. C. Yeomans and H. T. Jeffery. 2,323,437; July 6.
Sewing machine. G. Sauer. 2,323,422; July 6.
Shaker, Thermometer. G. A. Flanagan. 2,323,808; July 6.
Shaver outfit, Sanitary. J. F. Bagley, Jr. 2,323,290; July 6.
Sheets for drawing, tracing, and copy reproduction, Manufacture of transparentized. W. M. Hinman and W. G. Hollmann. 2,323,469; July 6.
Shield, Hair drier. G. A. Cary and L. H. Stanley. 2,323,515; July 6.
Shield, Spark plug. E. N. Jacobi. 2,323,399; July 6.
Shingles and like product, Cement-asbestos. P. Mooney. 2,323,835; July 6.
Shoe machine for sewing and lasting. A. R. Morrill. 2,323,347; July 6.
Shoe tread member. F. V. Nugent. 2,323,562; July 6.
Short dot test equipment. D. R. Goddard. 2,323,534; July 6.
Shuttle mechanism for paper carriages. W. A. Anderson. 2,323,783; July 6.
Signal response network, Variable. J. L. Hathaway. 2,323,598; July 6.
Signaling device. E. Dickten, Jr., and H. C. Harrison. 2,323,803; July 6.
Signaling system. W. van B. Roberts. 2,323,679; July 6.
Signaling system, Frequency modulation. E. H. Armstrong. 2,323,698; July 6.
Silver tarnish, Preventing. G. F. Briggmann. 2,323,369; July 6.
Sink cabinet. A. E. Freshman. 2,323,589; July 6.
Sled, Ski. R. R. Sampsell. 2,323,847; July 6.
Slicer, Bean. W. R. Feemster. 2,323,863; July 6.
Slicer, Vegetable. J. Wolfinger, Sr. 2,323,760; July 6.
Smoking appliance. L. Tillman. 2,323,856; July 6.
Sole attaching in electrostatic fields. G. T. Hart, Jr., and E. E. Winkley. 2,323,325; July 6.
Sound and picture apparatus. L. Wise. 2,323,638; July 6.
Sound record producing apparatus. E. W. Kellogg. 2,323,606; July 6.
Sound recording, Photographic. E. W. Kellogg. 2,323,607; July 6.
Spacer for pull ties. J. C. Mushet. 2,323,723; July 6.
Spark plug. A. G. Cattaneo. 2,323,792; July 6.
Sparkproof flooring. W. W. Donelson. 2,323,461; July 6.
Spectacles. C. W. Cochran. 2,323,518; July 6.
Speed control for direct current motors. E. C. Watson. 2,323,741; July 6.
Speed controlled mechanism. A. Kindelmann and E. Boecking. 2,323,664; July 6.
Spindle mounting for machine tools and the like, Air cooled. G. D. Scott. 2,323,850; July 6.
Sprinkler, Rotary. G. R. Barksdale. 2,323,701; July 6.
Stacking apparatus. G. S. Sillars. 2,323,359; July 6.
Stand: *See*—
All-metal folding camera stand.
Staple. L. Weiss. 2,323,362; July 6.
Starting device for runners. R. W. Arnett. 2,323,510; July 6.
Stepper assembly, Relay operated. T. Obszarny. 2,323,840; July 6.
Strand coating apparatus. V. A. Rayburn. 2,323,487; July 6.
Strip straightener. C. R. Hanna. 2,323,768; July 6.
Subsoiler, Rotary. H. Domrese, C. C. Calkins and L. A. Hunt. 2,323,460; July 6.
Supercharger drive, Two-speed. L. S. Hobbs. 2,323,601; July 6.
Support: *See*—
Metal highway guard support.
Supporting structure, Ladder. E. L. Seiler. 2,323,425; July 6.
Surface covering. E. L. Craig. 2,323,299; July 6.
Surface finishing apparatus. F. P. Stull. 2,323,578; July 6.
Switch: *See*—
Voltage responsive switch.
Switch. J. R. Frei. 2,323,389; July 6.
Switch mechanism. C. Collins. 2,323,646; July 6.
Swivel. M. R. Schall. 2,323,624; July 6.
Swivel joint assembly. P. L. Snowberger. 2,323,575; July 6.
Table: *See*—
Folding table.
Table slide, Ball bearing equalizing. W. M. Hyland. 2,323,604; July 6.
Tabulating and accounting machine. W. W. Lasker and J. Mueller. 2,323,816; July 6.
Tabulating machine. A. H. Maschmeyer. 2,323,825; July 6.
Tabulating machine. G. Tauschek. 2,323,429; July 6.
Tape, Pressure-sensitive. J. A. McManus and M. G. Higgins. 2,323,342; July 6.
Target, Toy. J. Reintam. 2,323,678; July 6.
Teapot. S. E. Hevers. 2,323,468; July 6.
Telegraph switching apparatus. W. J. Zenner. 2,323,438; July 6.
Telephone system. L. R. Waller. 2,323,692; July 6.
Temperature regulator. J. V. Giesler. 2,323,533; July 6.
Tensiometer. G. P. Lessmann. 2,323,818; July 6.
Textile manufacture. E. J. Abbott. 2,323,300; July 6.
Textile material, Producing water repellent. O. Edelstein. 2,323,387; July 6.
Therapeutically valuable compounds and producing same. M. Dohrn and P. Diedrich. 2,323,651; July 6.
Thermal demand meter. B. H. Smith. 2,323,732; July 6.
Thermal demand meter. H. P. Vassar. 2,323,738; July 6.
Thermal testing apparatus. H. P. Kuehni. 2,323,715; July 6.
Thermohydrometer. L. Edelmann. 2,323,386; July 6.
Thermostat control, Cyclic. G. D. Bower. 2,323,370; July 6.
Tile, Wall. C. D. Pauli, Jr. 2,323,417; July 6.
Tire for wheels, Resilient. R. Yates. 2,323,761; July 6.
Tire supporting device. H. D. Saltsman. 2,323,846; July 6.
Tool: *See*—
Clamping tool. Machine tool.
Cutting tool. Reseating tool.
Grinding tool.
Tool. K. C. Bugg. 2,323,375; July 6.
Tool for metal turning, Finishing. C. Hanson. 2,323,324; July 6.
Tool for unsealing crown bottle caps. H. D. Penny and C. S. Jackson. 2,323,621; July 6.
Top for cans. F. M. Yakee. 2,323,436; July 6.
Top structure, Foldable. W. P. Levon. 2,323,547; July 6.
Traffic signaling mechanism. C. W. Clark. 2,323,793; July 6.
Transformer. C. P. Boucher. 2,323,703; July 6.
Transmission. H. S. Eberhard. 2,323,384; July 6.
Transmission control. Truck mixer. G. Jaeger, C. I. Bohmer, and C. Gerst. 2,323,753; July 6.
Transmission drive, Gear. S. L. Crawshaw and J. R. Williams. 2,323,648; July 6.
Tray, Ash. A. F. Boho. 2,323,293; July 6.
Tray, Refrigerating. G. Pizarro. 2,323,486; July 6.
Tread member for shoes. F. V. Nugent. 2,323,563; July 6.
Trimmer mechanism for sewing machines. I. J. Frey. 2,323,750; July 6.
Truck for railroad cars. K. F. Nystrom and V. L. Green. 2,323,348; July 6.
Tube: *See*—
Saluting tube.
Tube type collector. H. O. Danz. 2,323,707–8; July 6.
Tubing foot, Hydraulic. S. M. Futral. 2,323,321; July 6.
Tuning short-wave hollow-body resonator apparatus. A. H. Ryan. 2,323,729; July 6.
Tuning system, Variable permeability. R. L. Harvey. 2,323,376; July 6.
Turbine engine. E. F. Osborne. 2,323,617; July 6.
Typewriting and computing machine, Combined. H. L. Pitman. 2,323,622; July 6.
Ultra high frequency generator. F. Lüdi. 2,323,613; July 6.
Undergarment. C. Bullinger. 2,323,451; July 6.
Undergarment. E. G. Madden and B. Murdock. 2,323,718; July 6.

Unsaturated degradation products of sterols and producing the same. W. Schoeller, A. Serini, F. Hildebrandt, L. Strassberger, J. Kathol, and W. Logemann. 2,323,584; July 6.
V-belt. W. T. Wagner. 2,323,740; July 6.
Vacuum cleaning apparatus. R. D. Mason. 2,323,554; July 6.
Vacuum operated window regulator. R. H. Dean. 2,323,519; July 6.
Valve: *See*—
Automatic drain valve. Diaphragm valve.
Valve assembly, Priming. A. L. Parker. 2,323,416; July 6.
Valve control. F. M. MacDougall. 2,323,480; July 6.
Valve gauge. R. E. Acker. 2,323,508; July 6.
Vehicle: *See*—
Coach-sleeper vehicle. Motor vehicle.
Vending machine. J. R. Clem. 2,323,517; July 6.
Ventilator. M. B. Curley and J. Kilbourne. 2,323,456; July 6.
Vibratory feeder. C. S. Weyandt. 2,323,864; July 6.
Voltage control. B. Trevor. 2,323,857; July 6.
Voltage responsive switch. W. E. Berkey. 2,323,702; July 6.
Wall form tie. F. P. Cooper. 2,323,705; July 6.
Washing machine. A. H. Haberstump. 2,323,765; July 6.
Washing machine construction, Domestic. S. E. Schroeder. 2,323,571; July 6.
Water-repellent ultramarine. H. F. Dieterle. 2,323,748–9; July 6.
Wave amplitude limiting device. C. W. Carnahan. 2,323,880; July 6.
Welding apparatus. W. A. Weightman. 2,323,361; July 6.
Welding apparatus. W. A. Weightman. 2,323,696; July 6.
Welding clamp. G. Brosco. 2,323,450; July 6.
Welding, Flash-arc. E. F. Holt. 2,323,660; July 6.
Welding side seams. H. T. Odquist. 2,323,349; July 6.
Well-logging method and apparatus. J. Neufeld. 2,323,484; July 6.
Wetting and dispersion of pigments. F. L. Turbett. 2,323,877; July 6.
Wheel mounting. S. A. Fred. 2,323,813; July 6.
Winch construction. C. B. Curtiss. 2,323,800; July 6.
Window operating means. W. F. Shetzline. 2,323,731; July 6.
Window screen. L. E. Brewer. 2,323,295; July 6.
Wing construction, Airplane. T. R. Jacobs. 2,323,542; July 6.
Wringer. W. L. Kauffman, II. 2,323,330; July 6.
Wringer. W. L. Kauffman, II. 2,323,778; July 6.
Wringer and the like. W. L. Kauffman, II. 2,323,331–2; July 6.
X-ray fluoroscopic and radiographic apparatus. F. R. Campbell. 2,323,704; July 6.

CLASSIFICATION OF PATENTS

ISSUED JULY 6, 1943

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

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This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

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Notice

See page xxix for list of applications published by the Alien Property Custodian.

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed.

Pat. 2,184,571, A. W. Vance, Modulation system, decided June 14, 1943, claims 1 and 5.

Pat. 2,256,606, A. I. Blanc, Trimming board, decided June 14, 1943, claims 1 and 2.

Disclaimers

1,699,468.—*John H. Grayson*, Southgate, Calif. THERMOSTAT. Patent dated January 15, 1929. Disclaimer filed June 4, 1943, by the assignee, *Grayson Heat Control, Ltd.*

Hereby enters this disclaimer to claims 19, 20, 21, 22, and 23 of said specification.

1,957,774.—*John H. Grayson*, Lyuwood, Calif. OVEN REGULATOR. Patent dated May 8, 1934. Disclaimer filed June 4, 1943, by the assignee, *Grayson Heat Control, Ltd.*

Hereby enters this disclaimer to claims 10, 11, 18, and 19 of said specification.

2,184,571.—*Arthur W. Vance*, Haddonfield, N. J. MODULATION SYSTEM. Patent dated December 26, 1939. Disclaimer filed June 24, 1943, by the assignee, *Radio Corporation of America.*

Hereby enters this disclaimer to claims 1 and 5 of said patent.

2,218,873.—*Richard D. Cheesman* and *Richard Bernhard*, Allentown, Pa. TUBE COOLER. Patent dated October 22, 1940. Disclaimer filed June 23, 1943, by the assignee, *Traylor Engineering & Manufacturing Company.*

Hereby enters this disclaimer to claim 4 of said patent.

2,224,472.—*Milton E. Chandler*, Detroit, Mich. PRESSURE FED CARBURETOR. Patent dated December 10, 1940. Disclaimer filed June 24, 1943, by the assignee, *Chandler-Evans Corporation.*

Hereby enters this disclaimer to claims 9 and 11 in said specification.

2,224,596.—*Alexandre Desfachelles*, A Ronchin, Nord, France. CONTROL DEVICE. Patent dated December 10, 1940. Disclaimer filed June 23, 1943, by the assignee, *General Elctric Company.*

Hereby disclaims claim 5.

2,268,693.— *William R. Boyer*, Oakmont, Pa. CONVEYING APPARATUS. Patent dated January 6, 1941. Disclaimer filed June 17, 1943, by the assignee, *Blaw-Knox Company.*

Hereby enters disclaimer to claim 1 of said patent.

2,282,942.—*John J. Crowe*, Westfield, N. J. FLAME HARDENING. Patent dated May 12, 1942. Disclaimer filed June 18, 1943, by the assignee, *Air Reduction Company, Incorporated.*

Hereby enters this disclaimer to claim 10 of said patent.

Conditions of Applications Under Examination at Close of Business June 30, 1943

(Total number of applications awaiting action, excluding Trade-Mark Division, 39,311; Trade-Mark Division, 1045. Oldest new case, Aug. 20, 1942; oldest amended, Sept. 11, 1942)
(The dates given are 1943 except where † indicates 1942)

Divisions, Examiners, and Subjects of Inventions	Oldest new application	Oldest amended action by applicant awaiting office action	No. of applications awaiting action
1. TUCKER, M. W., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Domestic Cooking Vessels; Sewerage.	Mar. 22	Mar. 15	274
2. HERRMANN, D., Fishing and Trapping; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Textile Wringers; Butchering.	Mar. 16	†Nov. 30	266
3. WOLFFE, S., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	†Sept. 26	†Sept. 16	914
4. BISHOP, WALTER C., Conveyors; Hoists; Handling Apparatus; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds; Pneumatic Dispatch; Store Service; Mining, Quarrying and Ice Harvesting.	†Dec. 30	Jan. 6	387
5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Clasps.	†Nov. 9	†Nov. 10	522
6. GENIESSE, E. W., Carbon Chemistry (part)	†Nov. 5	†Dec. 2	1014
7. JARBOE, C. G., Optics, Photography	Jan. 2	Jan. 1	782
8. ADAMS, F. L., Furniture; Kitchen and Table Articles; Racks and Cabinets	Jan. 6	†Dec. 24	571
9. BENSON, R. B., Pumps and Fans; Fluid and Fluid-Current Motors	†Nov. 6	†Nov. 2	777
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	Jan. 13	Jan. 14	364
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Stop Mechanisms	†Nov. 18	Jan. 20	326
13. DONNELLY, A. E., Metal Working (part); Gear Cutting, Milling and Planing; Needle and Pin Making	Jan. 8	Jan. 11	592
14. HANLIN, GEORGE, Metal Working (part); Farriery; Wire Fabrics	Mar. 4	Mar. 8	475
15. HENKIN, BENJ., Glass, Plastic Block and Earthenware Apparatus; Plastics	Jan. 13	†Dec. 31	727
16. SPENCER, C. J., Telegraphy; Telephony	†Nov. 20	†July 10	607
17. HABECKER, LEON B., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet or Web Feeding; Type Setting.	†Oct. 13	†Sept. 16	691
18. KURZ, J. A., Motors, Expansible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal Combustion Engines.	†Oct. 29	†Nov. 21	547
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	†Oct. 19	†Oct. 8	552
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Undertaking; Bread, Pastry, and Confection Making; Laminated Fabrics (part).	Feb. 2	Feb. 4	439
21. THOMPSON, T. J., Textiles	Feb. 15	Feb. 1	303
22. RINGLE, D., Aeronautics; Firearms; Ordnance and Explosive Devices	†Sept. 25	†Sept. 25	1740
23. BARROWS, B., Cash Registers; Calculators (part)	Jan. 15	Jan. 15	146
24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines	Mar. 9	Mar. 1	456
25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Jan. 1	Jan. 2	574
26. YOUNG, R. R., Electricity—Generation and Motive Power	†Nov. 25	†Dec. 7	748
27. CLARK, W. N., Brush, Broom, and Mop Making; Brushing, Scrubbing and General Cleaning; Textiles, Fluid Treating Apparatus; Ironing; Washing Apparatus.	†Nov. 12	†Nov. 18	557
28. SOLYOM, H. L., Internal-Combustion Engines (part); Cylinders and Pistons	†Oct. 2	†Oct. 1	614
29. SHKLARIN, J. B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Package and Article Carriers; Woodworking; Tools; Metal Working, Assembling.	Mar. 6	Mar. 17	376
30. McCANN LEO P., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	Feb. 8	Mar. 1	289
31. DUNCOMBE, C. S., Hydrocarbons; Mineral Oils	Jan. 14	Jan. 14	1352
32. LESH, K., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; Earth Boring.	†Dec. 10	†Dec. 10	626
33. HULL, J. S., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements	Jan. 16	Jan. 28	652
34. SAPERSTEIN, S., Electricity—Meters and Transmission to Vehicles; Railways; Track Sanders; Signals and Indicators.	Feb. 5	Feb. 3	438
35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles	Jan. 25	Feb. 2	512
36. McFADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring	Feb. 23	Feb. 24	301
37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Feb. 24	Feb. 25	374
38. KRAFFT, C. F., Coating Processes; Coating or Plastic Compositions (part)	†Dec. 10	†Dec. 9	595
39. WHITNEY, F. L., Fluid-Pressure Regulators; Valves; Water Distribution	Feb. 19	Mar. 9	383
40. DRUMMOND, E. J., Receptacles	Mar. 18	Mar. 15	382
41. HERTZ, M., Coin Handling; Recorders; Deposit Receptacles; Counters and Calculators (part); Typewriting Machines; Check-Controlled Apparatus.	†Dec. 30	Jan. 4	386
42. MARANS, H., Electric Signaling	Mar. 15	Mar. 18	322
43. FEDERICO, P. J., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Fluid Treatment of Textiles; Azo Compounds.	†Aug. 20	†Sept. 11	826
44. HARVEY, L. P., Refrigeration	Jan. 25	Nov. 9	273
45. HILL, H. D., Shafting and Flexible Shaft Couplings; Wheels and Axles; Resilient Tires and Wheels; Lubrication; Bearings and Guides; Motors; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding; Land Vehicles (part).	Jan. 11	Jan. 21	712
46. BLEECKER, V. E., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers; Heating Systems; Coating Apparatus.	†Dec. 12	Jan. 16	384
47. KANOF, WM. J., Clutches and Power Stops; Brakes; Boring and Drilling; Land Vehicles (part)	†Dec. 2	†Dec. 26	990
48. ROEPKE, O. B., Electricity, General Applications; Igniters	†Sept. 24	†Oct. 8	753
49. SHEFFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Purification.	Jan. 12	†Dec. 2	548
50. LEVIN, SAMUEL, Resins; Rubber; Carbohydrates and Derivatives	†Dec. 5	†Dec. 15	1174
51. BACKUS, C. D., Radiant Energy	†Dec. 9	†Dec. 10	1081
52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Pipes and Tubular Conduits	Jan. 20	Jan. 8	705
53. PECK, M. K., Label Pasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas and Canes; Curtains, Shades and Screens; Cutlery.	Feb. 24	Feb. 17	167
54. STRACHAN, O. W., Electric Lamp and Discharge Devices (part)	†Sept. 9	†Oct. 22	491
55. BOWEN, S. T., Artificial Body Members; Dentistry; Surgery	†Sept. 24	†Sept. 14	816
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Laminated Fabrics (part); Paper Making	Jan. 6	Jan. 6	697
57. NICOLSON, G. D., Toys; Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	†Aug. 20	†Sept. 28	484
58. DOWELL, E. F., Abrading; Bottles and Jars; Stone Working	Jan. 1	Jan. 15	538
59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds; Compositions (part).	†Sept. 9	†Sept. 28	1206
60. GLASS, R. L., Electricity, Heating and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Marine Propulsion; Consumable Electrode Lamp and Discharge Devices.	†Oct. 5	†Oct. 7	486
61. YUNG KWAI, B., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery; Laminated Electrical Insulation, Belt, Hose, Tire and Ball Making; Boats and Buoys.	†Nov. 26	†Dec. 10	517
62. PUGH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors	Mar. 9	Feb. 9	454
63. WINKELSTEIN, A. H., Preserving; Poisons; Fermentation; Foods and Beverages; Proteins; Oils and Fats.	†Oct. 28	†Oct. 20	986
64. NASH, P. M., Acetylene; Gas Mixers; Compositions (part); Distillation; Fuel	Feb. 1	Feb. 1	1076
65. McDERMOTT, F. P., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave Transmission, Telephony, Repeaters and Relays.	†Nov. 3	†Oct. 31	729
Trade Marks. RICHMOND, F. A	May 26	June 8	1045
Designs. KALUPY, H. H	May 27	June 16	265

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Appeals for the District of Columbia

Allen, Timmer, and Vegex Incorporated

v.

Coe, Commissioner of Patents

No. 8,252. Decided April 5, 1943

1. Patentability—Discovery of Scientific Explanation or New Uses.

"We agree with the lower court and with the Board of Appeals and the Examiner that no invention is shown over Bacon. It may well be that Bacon did not appreciate the importance of vitamins in the final product; but he unquestionably pointed out the high vitamin content of spent distillers' mash and taught its use in the molasses-mineral salts process of yeast manufacture. The fact that he used the spent mash for increasing the yield of yeast rather than for increasing its vitamin content is immaterial, since a patent may not be granted for scientific explanations or discoveries of new uses for or unsuspected merit in old substances or processes."

2. Same—Invention.

"The proportion to be used in the light of results desired was a mere matter of laboratory experiment, and not a critical matter producing a new and unexpected result of which invention could be predicated * * *. It was evident * * * that the more mash used the more vitamins would be obtained, but that too much mash would decrease the yield of yeast. The problem was to use an amount which would give the required vitamin content without unduly decreasing the yield. The solution of this problem was a mere matter of experiment involving nothing more than the skill of a laboratory technician. This is not invention within any proper meaning of that term."

3. Same—Method for Producing Yeast.

Certain claims covering the process of using spent distillers' grain mash in the production of yeast of a high vitamin content *Held* unpatentable over the prior art.

Appeal from the District Court of the United States for the District of Columbia. Affirmed.

Mr. W. Brown Morton (*Mr. Clarence M. Fisher* of counsel) for Allen, Timmer, and Vegex Incorporated.

Mr. W. W. Cochran (*Mr. E. L. Reynolds* of counsel) for the Commissioner of Patents.

Before Parker, Circuit Judge, sitting by designation, and Miller and Edgerton, Associate Justices

Parker, *Cir. J.:*

This is a suit under R. S. 4915 to require the Commissioner of Patents to issue a patent to plaintiffs covering the process of using spent distillers' grain mash in the production of yeast of a high vitamin content. Of the claims insisted on, claim six may be taken as typical. It is as follows:

"6. Method for producing high yields of yeast, high in baking strength and high in B vitamin content, including the PP factor, which consists in growing the yeast in a wort containing spent distillers' grain mash from which the alcohol has been separated in an amount sufficient to constitute not less than 28.5% by volume of the total wort."

These claims were rejected by the Examiner in the Patent Office as lacking in invention over the patent to Bacon No. 1,532,858; and his decision was affirmed by the Board of Appeals. The district court dismissed the complaint on like grounds and the claimants have appealed.

The molasses-mineral salts process of the Hayduck patent for the production of yeast, described in the opinion of Judge Soper in *Fleischman Yeast Co.* v. *Federal Yeast Corporation*, 8 F.(2d) 186, resulted in a much higher yield of yeast than was possible under the old grain mash process. It was found, however, that the yeast so produced was deficient in vitamin content and hence not desirable for pharmaceutical purposes. The Bacon patent taught the use of vitamin containing materials such as rice polish and spent distillers' grain mash in connection with the molasses-mineral salts process; and claimants found through experimentation that by using the spent distillers' mash in the proper proportions they could obtain a yeast of high vitamin content without decreasing the yield. The disclosure of Bacon showed the use of the rice polish to the extent of about 7% of the total wort but gave no proportion for the spent distillers' mash. Claimants found that best results were obtained by using this in a proportion of not less than 28.5% of the total wort, and claimed invention in specifying the use of this amount as a minimum.

[1] [2] We agree with the lower court and with the Board of Appeals and the Examiner that no invention is shown over Bacon. It may well be that Bacon did not appreciate the importance of vitamins in the final product; but he unquestionably pointed out the high vitamin content of spent distillers' mash and taught its use in the molasses-mineral salts process of yeast manufacture. The fact that he used the spent mash for increasing the yield of yeast rather than for increasing its vitamin content is immaterial, since a patent may not be granted for scientific explanations or discoveries of new uses for or unsuspected merit in old substances or processes. *In re Ebert*, 57 F.(2d) 356, 420 O. G. 573; *In re Langdon*, 77 F.(2d) 920, 460 O. G. 733; *In re James*, 83 F.(2d) 313, 471 O. G. 251. The proportion to be used in the light of results desired was a mere matter of laboratory experiment, and not a critical matter producing a new and unexpected result of which invention could be predicated, as was the amount of oil to be used in the froth-flotation process of the minerals separation patent dealt with in *Minerals Separation Ltd.* v. *Hyde*, 242 U. S. 261, 234 O. G. 1311. It was evident, as the claimant Allen admitted on cross-examination, that the more mash used the more vitamins would be obtained, but that too much mash would decrease the yield of yeast. The problem was to use an amount which would give the required vitamin content without unduly decreasing the yield. The solution of this problem was a mere matter of experiment involving nothing more than the skill of a laboratory technician. This is not invention within any proper meaning of that term.

A question arises as to whether the claims are not fatally vague and indefinite, as they do not specify

the proportion of spent mash to be used in the process, but merely the lower limits, leaving the proportion, except for this, entirely at large, although it is admitted that the use of too much is fatal to a satisfactory yield. Cf. *United Carbon Co.* v. *Binney & Smith Co.*, — U. S. —, 63 S. Ct. 165, 546 O. G. 593. We need not pass upon this question, however, as we find no invention in the process.

[3] For the reasons stated, the judgment appealed from will be affirmed.

Affirmed.

U. S. Court of Appeals for the District of Columbia

THE PHILADELPHIA INQUIRER COMPANY

v.

COE, COMMISSIONER OF PATENTS

No. 7,944. Decided December 8, 1942. Certiorari denied April 19, 1943

[133 F.(2d) 385]

1. TRADE-MARKS—SECTION 5 OF ACT OF 1905 CONSTRUED.
The construction of section 5 of the Trade-Mark Act of February 20, 1905 (15 U. S. C., § 85) being in issue, *Held* "Congress provided that if a trade-mark is identical with one in existence and if it is applied to related goods, it shall not be registered, and that if a trade-mark so nearly resembles one in existence as to be likely to cause confusion, and if it is applied to related goods, it shall not be registered."

2. SAME—SAME.
"Congress separated the 'identical' marks from the 'nearly resemble' ones. This was done by using sufficient language for standards in each instance and by dividing the two provisions with a comma followed by the conjunction 'or'. Then in the second part of the proviso, the part dealing with marks of close resemblance, Congress addressed the likely-to-cause-confusion test to the similarity of the marks by using the adverbs 'so' and 'as' to introduce correlative clauses, to wit: 'so nearly resemble . . . as to be likely to cause confusion'. That the confusion test goes to the similarity of the marks and not to the descriptive properties of the goods is borne out by the fact that the phrase 'merchandise of the same descriptive properties' has already appeared in the first part of the proviso, and again in the general rule in the form of the synonym, 'goods of the same class', and in neither case was there any descriptive definition test corresponding to 'likely to cause confusion.'"

3. SAME—SAME.
"The adjudicating bodies have not been made acutely aware of the statutory differentiation between similar and identical marks when applied to goods of the same descriptive properties, nor have they, in applying the statute, been accustomed to discussing expressly, in the same case, the two distinct steps, i. e., (1) are the goods of the same descriptive properties, and if so, then, (2) either are the marks so similar as to be likely to cause confusion, or are the marks identical."

4. SAME—SAME—"MERCHANDISE OF THE SAME DESCRIPTIVE PROPERTIES."
In regard to the phrase "merchandise of the same descriptive properties" appearing in a proviso of section 5 of the Trade-Mark Act of February 20, 1905 *Held* that "There is general agreement that the meaning of this phrase is that of the phrase, 'goods of the same class', which appears in the opening general rule of the section."

5. SAME—SAME—SAME.
"Whether goods are of the same class, or as it is sometimes stated, are the goods related, can often be decided by what might be called conference table consideration. At other times resort to the market place is necessary. Even then, if the test is framed in terms of confusion it is misleading, because that test is already in the statute in another connection, and because that is, to our minds, not precisely the issue. What is wanted to be known through this extrinsic evidence is whether the producers, the wholesalers, the retailers, and particularly the consumers, regard and treat the goods as though they were of the same class, and whether those purchasers will believe that the goods have the same origin so that they will reason that since X company makes good coffee, it probably makes good tea. In such instances custom comes to temper logic in making the categories of goods. When the problem is looked at this way, it is seen that it is really a matter of degree of relation rather than of the 'same' class. This relativity of relation becomes all the more important in the day of many by-products and nationally known goods."

6. SAME—SAME—SAME.
"In the present case it has been clear to the Examiner, to the Assistant Commissioner, to the district court, and now to us, that a magazine supplement section of a Sunday newspaper belongs to the same class for the purpose of trade-mark registration as a stapled, tabloid, weekly news-magazine. * * * These goods, similar publications, are in the same class even under a very narrow and literal meaning."

7. SAME—SAME—SAME—EXTRINSIC EVIDENCE.
"Just as extrinsic evidence would be cumulative when it was already clear that goods were not related, so here when the goods are so closely related, any amount of testimony that there was no 'confusion' (of the source) in fact would not alter the conclusion that the goods are of the same descriptive properties."

8. SAME—REGISTRABILITY.
The trade-mark "Everybody's Weekly" applied by appellant to the magazine supplement section of a Sunday newspaper *Held* properly refused registration in view of the use of the identical mark on a stapled, tabloid, weekly news-magazine.

APPEAL from the District Court of the United States for the District of Columbia. Affirmed.

STEPHENS, *A. J.*, dissenting.

Messrs. Frank E. Scrivener and *Charles K. Davies, Jr.*, for The Philadelphia Inquirer Company.

Mr. W. W. Cochran for the Commissioner of Patents.

Before STEPHENS, VINSON, and RUTLEDGE, Associate Justices

VINSON, *A. J.*:

Appellant was plaintiff in the district court in what is commonly known as a section 4915 proceeding.[1] Previously, appellant had applied to the Patent Office for registration of the trade-mark "EVERYBODY'S WEEKLY", the name given to the magazine supplement section of the Philadelphia Inquirer's Sunday newspaper.

Inasmuch as the construction of the applicable statutory provisions is the whole of this case, we set forth the pertinent language of the act immediately in order that the four previous determinations in this case may be understood as recited.

That no mark by which the goods of the owner of the mark may be distinguished from other goods of the same class shall be refused registration as a trade-mark on account of the nature of such mark . . . .

(*b*) . . . *Provided*, That trade-marks which are identical with a registered or known trade-mark owned and in use by another and appropriated to merchandise of the same descriptive properties, or which so nearly resemble a registered or known trade-mark owned and in use by another and appropriated to merchandise of the same descriptive properties as to be likely to cause confusion or mistake in the mind of the public or to deceive purchasers shall not be registered: . . .[2]

[1] R. S. § 4915, 35 U. S. C. A. § 63. See *American Steel Foundries* v. *Robertson*, 324 O. G. 963, 262 U. S. 209.

The Patent Office examined appellant's application and passed it for publication. Whereupon, King Features Syndicate, which releases "EVERYBODY'S PICTORIAL WEEKLY", filed opposition. The Examiner of Interferences in the Patent Office determined that applicant had its mark in use before the opposer, and the opposition was dismissed, from which action there was no appeal. The opposer, however, introduced evidence which showed that a British publication had used a similar mark prior to applicant. The British publication carried the title "EVERYBODY'S—the popular Weekly". On the inside pages was the heading "EVERYBODY'S WEEKLY". The Examiner held that the applicant was not entitled to register its mark because the goods to which it was applied possessed the same descriptive properties as the British article and the two marks bore such close resemblance as to be likely to cause confusion.

Upon appeal to the Commissioner of Patents the decision of the Examiner was affirmed, but upon somewhat different reasoning. The opinion of the Assistant Commissioner clearly held that the two articles were of the same descriptive properties, and while observing that there was actually little likelihood of confusion, he concluded that the statute barred registration.

After a rehearing, at which a decision of this court was pressed,[3] the Assistant Commissioner maintained his conclusion while clarifying his reasoning and holding. He held that not only were the marks applied to goods of the same descriptive properties but also that they were identical, and so the likelihood of confusion became irrelevant under the statute.

The district court in a well reasoned opinion[4] held that the goods were of the same descriptive properties and that the marks were identical. The court further held that the likelihood-of-confusion test was immaterial because that test is addressed to the similarity of the marks and not to the descriptive properties of the merchandise.

Upon appeal to this court, appellant concedes that the marks are identical. Its chief argument is that likelihood of confusion is one of the criteria in determining whether goods are of the same descriptive properties. Since it believes that there is no chance of confusion, then it concludes that its supplement must not be of the same class as the British publication, a conclusion contrary to the express holding in the four previous adjudications.

We believe that the statute bars appellant's right to register. In making this holding we accept the reasoning of the district court.

[2] 15 U. S. C. A. § 85.

[3] *McGraw-Hill Pub. Co.* v. *American Aviation Associates*, 524 O. G. 251, 73 App. D. C. 131, 117 F.(2d) 293. That was an infringement and unfair competition case, not a registration case. Moreover, the test of confusion there went to the similarity of the marks. Here appellant concedes that the marks are not similar but identical, and attempts to employ the confusion test to determine whether the goods are of the same class.

[4] 38 F. Supp. 427.

Appellant bases its argument upon the emphasis that the whole object of statutory and common law trade-mark law is to prevent confusion. With this all-important essence in mind, appellant rides roughshod over the nicer standards the statute creates. Appellant takes the likely-to-cause-confusion test at the end of the proviso and reads it all the way back through the act. Appellant may have a good idea for trade-mark law. Nonetheless, the statute must be read and applied as written.

We outline the meaning that the statute has for us:

(General rule) That no mark by which the goods on which it appears may be distinguished from other goods of the same class shall be refused registration;
(Proviso) (1) But (*a*) if the mark is identical with one already in existence and (*b*) if it is used on goods of the same descriptive properties (with the same meaning as "same class" in the general rule; synonym, related goods), it shall not be registered; (2) or (*a*) if the mark so nearly resembles another mark as to be likely to cause confusion and (*b*) if it is used on goods of the same descriptive properties, it shall not be registered.

In contrast, appellant's construction of the statute, spelled out, would read something like this:

That no mark by which the goods on which it appears may be distinguished from other goods of the same class (the test of the class being the likelihood of causing confusion) shall be refused registration;
Provided, That trade-marks which are identical with a known mark and used on merchandise of the same descriptive properties (the test of the last phrase being the likelihood of causing confusion), shall not be registered;
And also provided, That trade-marks which so nearly resemble another mark, as to be likely to cause confusion (appellant may cancel the test here),[5] and which are applied to goods of the same descriptive properties (again the test being the likelihood of causing confusion), shall not be registered.

If this be the meaning of the statute, it could have been written much more concisely: that no trade-mark shall be refused registration unless it is likely to cause confusion.

[1] Congress, however, chose to lay down more definite standards, and to make differentiations. Congress provided that if a trade-mark is identical with one in existence and if it is applied to related goods, it shall not be registered, and that if a trade-mark so nearly resembles one in existence as to be likely to cause confusion, and if it is applied to related goods, it shall not be registered.

[2] Congress separated the "identical" marks from the "nearly resemble" ones.[6] This was done by using sufficient language for standards in each instance and by dividing the two provisions with a comma followed by the conjunction "or". Then in the second part of the proviso, the part dealing with marks of close resemblance, Congress addressed the likely-to-cause-confusion test to the similarity of the marks[7] by using the adverbs "so" and "as" to introduce correlative clauses, to wit: "so nearly re-

[5] We are not told by appellant whether in relating the confusion test to the descriptive properties he believes that it does not go to the close resemblance of the marks.

[6] Although the Supreme Court in *American Steel Foundries* v. *Robertson*, 342 O. G. 711, 269 U. S. 372, was concerned with the next proviso which deals with appropriating corporate names for trade-marks, the Court expressed an historic rule of trade-mark law which affords background for the construction of this section. "The general doctrine is that equity not only will enjoin the appropriation and use of a trade-mark or trade name where it is completely identical with the name of the corporation, but will enjoin such appropriation and use where the resemblance is so close as to be likely to produce confusion as to such identity, to the injury of the corporation to which the name belongs." P. 381.

[7] The Judge of this court who applied the confusion criterion to determine if goods were of the same descriptive properties while saying he reasoned from effect to cause

semble . . . as to be likely to cause confusion". That the confusion test goes to the similarity of the marks and not to the descriptive properties of the goods is borne out by the fact that the phrase "merchandise of the same descriptive properties" has already appeared in the first part of the proviso, and again in the general rule in the form of the synonym, "goods of the same class," and in neither case was there any descriptive definition test corresponding to "likely to cause confusion."

[3] The construction of the statute to us is clear, and being clear we choose not to be led astray by some of the case language which in all fairness must be said to support appellant.[8] That language has often been to the effect that where "similar or identical" trade-marks are concerned the test of registration is the likelihood of causing confusion. The usual problems are whether the marks are confusingly similar on goods of the same descriptive properties or whether the goods are of the same descriptive properties where the marks are substantially identical. If it is fairly clear that the goods do not have the same descriptive properties and their marks are dissimilar, contested cases do not arise. Few cases, on the other hand, present a difficult question on both issues. As a result the adjudicating bodies have not been made acutely aware of the statutory differentiation between similar and identical marks when applied to goods of the same descriptive properties, nor have they, in applying the statute, been accustomed to discussing expressly, in the same case, the two distinct steps, i. e., (1) are the goods of the same descriptive properties, and if so, then, (2) either are the marks so similar as to be likely to cause confusion, or are the marks identical. When the Court of Customs and Patent Appeals, so far as we know, first applied expressly the confusion test to determine whether the goods were of the same descriptive properties, there was a 3–2 division with the minority writing a vigorous specially concurring opinion.[9]

The facts of this case have shown us, we believe, the proper construction of the act, and with the statute properly construed, this case is of easy resolution. Appellant concedes that its mark is identical with that of the British publication. This concession is in conformity with the conclusions of the Assistant Commissioner and of the district court. This concession places appellant within the first part of the proviso. The only other factor for consideration, then, is whether the marks are applied to merchandise of the same descriptive properties.[10]

[4] [5] There is general agreement that the meaning of this phrase is that of the phrase, "goods of the same class," which appears in the opening general rule of the section.[11] Whether goods are of the same class, or as it is sometimes stated, are the goods related,[12] can often be decided by what might be called conference table consideration. At other times resort to the market place is necessary. Even then, if the test is framed in terms of confusion it is misleading, because that test is already in the statute in another connection, and because that is, to our minds, not precisely the issue. What is wanted to be known through this extrinsic evidence is whether the producers, the wholesalers, the retailers, and particularly the consumers, regard and treat the goods as though they were of the same class, and whether those purchasers will believe that the goods have the same origin so that they will reason that since X company makes good coffee, it probably makes good tea.[13] In such instances custom comes to temper logic in making the categories of goods. When the problem is looked at this way, it is seen that it is really a matter of degree of relation rather than of the "same" class. This relativity of relation becomes all the more important in the day of many by-products and nationally known goods.

[6] [7] In the present case it has been clear to the Examiner, to the Assistant Commissioner, to the district court, and now to us, that a magazine supplement section of a Sunday newspaper belongs to the same class for the purpose of trade-mark registration as a stapled, tabloid, weekly news-magazine. Just as extrinsic evidence would be cumulative when it was already clear that goods were not related, so here when the goods are so closely related, any amount of testimony that there was no "confusion" (of the source) in fact would not alter the conclusion that the goods are of the same descriptive properties. These goods, similar publications, are in the same class even under a very narrow and literal meaning.[14]

Under a fresh statute some might doubt this conclusion. Where, however, this phrase, "the same descriptive properties," has evolved[15] so that coffee is classed with horse-radish, fish with tea, mouth washes with cold creams, there cannot be the slightest doubt that these two similar publications are merchandise of the same descriptive properties.

[8] It is certain that if the statute does anything, it bars the registration of identical marks for goods definitely of the same class.

Affirmed.

STEPHENS, *A. J.*, (dissenting):

Since it is conceded that the trade-marks are identical, the only question in the case is whether the appellant's "merchandise," i. e., its magazine supplement section of a Sunday newspaper, is of the "same descriptive properties" as the British publication. The court rules, as I understand the majority opinion, that in deciding this question of fact the trial court could not consider likelihood of confusion and the testimony of the trade with respect thereto, but properly limited itself—although trade testimony was received in evidence—to inspection of the items of merchandise and to inferences which the court, without the aid of such testimony, drew from such inspection. The ruling is based upon the fact that confusion is referred to only in that (second) part of the proviso which relates to trade-marks which resemble each other as distinguished from those which are identical.

Looking at the statute apart from judicial construction, it does not seem to me to require the conclusion which the court reaches. But if the words of the statute leave the point in doubt, the cases in my opinion resolve it. In *California Packing Corporation* v. *Price-Booker Mfg. Co.*, 308 O. G. 451, 52 App. D. C. 259, 285 Fed. 993 (1923), the dispute, as here, was whether the goods of the respective parties "belong to the same class or have the same descriptive properties." Price-Booker Company sought to register the trade-mark "Mission," accompanied by a representation of a mission house, for application to flavoring extracts for foods, mustard, tomato catsup, relishes made of chopped and ground pickles packed in spices and vinegar, chow chow, salad dressing, and vinegar. The California Packing Corporation, which opposed the application, had applied the identical trade-mark to canned fruits, canned vegetables, foods, and ingredients of foods. The First Assistant Commissioner of Patents ruled that the goods did not belong to the same class because canned fruits and canned vegetables require a different manufacturing plant from that needed in the manufacture of pickles, the latter being packed and shipped in glass or wooden vessels, the former in air tight tins, and because pickles have no food value. On appeal the court rejected this test upon the ground that it related chiefly to features which ordinarily would be unknown to a prospective purchaser and would have no tendency in helping him differentiate the goods of the one concern from those of the other. Stating that it must look for some other test for "the same descriptive properties," the court said:

> . . . No interpretation of the phrase "the same descriptive properties," which occurs in the same section, applicable to all cases alike, has ever been given, so far as we know. The courts have been content with deciding in each case as it arose either that the goods did or did not possess those qualities, without going further. *We think the dominant purpose of the part of the section here involved is the prevention of confusion and deception.* If the use of the later mark would be likely to produce either, the mark should be rejected. Whenever it appears that confusion might result, it is because the goods have the same descriptive properties. *We reason from the effect to the cause.* For instance, no one would be deceived into believing that a can of tobacco and a can of peas were put out by the same concern, simply because they bore similar trade-marks.
>
> Turning now to the goods of the parties to this litigation, *we find that they are sold in the same stores, are put out in small containers, are used in connection with each other, and are associated in the public mind.* We think that a person seeing the mark in question on a container of pickles would be likely to assume that they were produced by the same concern as that which produced the canned fruits or vegetables bearing a similar mark. At least we are not clearly convinced that he would not be, and therefore we hold against the newcomer. . . . [Italics supplied.] [52 App. D. C. at 261, 285 Fed. at 995.]

I think the statement of the court that "We reason from the effect to the cause" means that the court thought it proper to have recourse to trade testimony—because it could not, from mere inspection of the trade-marks and the goods, know of the effect; and the court could not, without recourse to trade testimony, have found that the goods were sold in the same stores, were put out in small containers, were used in connection with each other and were associated in the public mind; such facts could not have been determined from mere inspection of the marks and the goods. Moreover, reference to the record in the case discloses that trade testimony was introduced on the subject of likelihood of confusion. On the same day that the court decided the California Packing Corporation case it also decided *Application of B. F. Goodrich Co.*, 313 O. G. 663, 52 App. D. C. 261, 285 Fed. 995 (1923). There the word "Safety" had been refused registration by the Commissioner of Patents as a trade-mark for pneumatic tire casings made of rubber combined with fabric on the ground that the word had been previously registered for conducting hose composed of rubber and fabric. The Commissioner ruled that the latter goods were of the same descriptive properties as those on which the applicant used its mark. On appeal the court upheld this ruling on the ground that:

> . . . if the use of the marks by the contending parties *would be likely to lead the public to believe that the goods to which they are applied were produced by the same person or concern, it must be so because the goods possess the same descriptive properties.* *California Packing Corp.* v.

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in *California Packing Corp.* v. *Price-Booker Mfg. Co.*, 308 O. G. 451, 52 App. D. C. 259, 285 Fed. 993, saw the two steps two and one-half years earlier. "It is conceded that the goods are substantially identical. The only question, then, is as to whether or not the two marks are so similar as to be likely to produce confusion in the minds of purchasers with respect to the origin of the goods upon which they are used." *Procter & Gamble Co.* v. *Eney Shortening Co.*, 278 O. G. 369, 50 App. D. C. 42, 267 Fed. 344.

See *Morrison Co.* v. *Cudahy Packing Co.*, 284 O. G. 380, 50 App. D. C. 236, 270 Fed. 358.

Compare *Nulyne Laboratories* v. *Electro-Alkaline Co.*, 312 O. G. 399, 52 App. D. C. 265, 285 Fed. 999, and *Vacuum Oil Co.* v. *Gargoyle Textile Corp.*, 307 O. G. 235, 52 App. D. C. 268, 285 Fed. 1002.

[8] *California Packing Corp.* v. *Price-Booker Mfg. Co.*, 308 O. G. 451, 52 App. D. C. 259, 285 Fed. 993. *B. F. Goodrich Co.* v. *Hockmeyer*, 394 O. G. 795, 40 F.(2d) 99 (C. C. P. A., Patents); *California Packing Corp.* v. *Tillman & Bendel*, 394 O. G. 789, 40 F.(2d) 108 (C. C. P. A., Patents). The rule of these last two cases seems at first to be disapproved in *Meredith Publishing Co.* v. *O. M. Scott & Sons Co.*, 482 O. G. 243, 88 F.(2d) 324, 326 (C. C. P. A., Patents): "It is true that in both the preceding cases, there were expressions which, taken by themselves, and without regard to the context and the general purport of the opinions, might have indicated that the existence of confusion was the test by which we should determine whether the goods were of the same descriptive properties. However, the cases should not be so read." Yet when the Meredith Publishing Co. case is considered as a whole, its general purport seems to be there is little likelihood of confusion so the goods are not of the same descriptive properties. *Universal Paper Products Co.* v. *Bemis Bros. Bag Co.*, 526 O. G. 7, 116 F.(2d) 294 (C. C. P. A., Patents).

[9] See concurring opinions in *B. F. Goodrich Co.* v. *Hockmeyer*, 394 O. G. 795, 40 F.(2d) 99, 104 (C. C. P. A., Patents), and *California Packing Corp.* v. *Tillman & Bendel*, 394 O. G. 789, 40 F.(2d) 108, 114 (C. C. P. A., Patents).

[10] For a converse situation see *In re B. Manischewitz Co.*, 1536 O. G. 499, 123 F.(2d) 641 (C. C. P. A., Patents).

[11] *Cheek-Neal Coffee Co.* v. *Hal Dick Mfg. Co.*, 395 O. G. 10, 40 F.(2d) 106, 107 (C. C. P. A., Patents); *Cross* v. *Williams Oil-O-Matic Heating Corporation*, 410 O. G. 540, 48 F.(2d) 659, 660 (C. C. P. A., Patents); *Williams Oil-O-Matic Heat. Corp.* v. *Westinghouse E. & M. Co.*, 430 O. G. 628, 62 F.(2d) 378, 379 (C. C. P. A. Patents). Nims, Unfair Competition and Trade-marks (3d ed. 1936) § 229(*b*), p. 621.

[12] Nims, Unfair Competition and Trade-marks (3d ed. 1936) § 229, pp. 619–20. *Elgin American Mfg. Co.* v. *Elizabeth Arden, Inc.*, 471 O. G. 483, 83 F.(2d) 687 (C. C. P. A., Patents).

[13] *Elgin American Mfg. Co.* v. *Elizabeth Arden, Inc.*, 471 O. G. 483, 83 F.(2d) 687, 688 (C. C. P. A., Patents).

[14] " . . . no one would seriously argue that the two publications are not merchandise of the same descriptive properties within the meaning of the statute." These words appear in the opinion of the Assistant Commissioner, and the district court quoted them to conclude its opinion.

[15] *Forst Packing Co.* v. *C. W. Antrim & Sons*, 529 O. G. 514, 118 F.(2d) 576 (C. C. P. A., Patents).

Price-Booker Manufacturing Co., 308 O. G. 451, 52 App. D. C. 259, 285 Fed. 993. [Italics supplied.] [52 App. D. C. at 262, 285 Fed. at 996.]

In *American Tobacco Co.* v. *Gordon*, 342 O. G. 510, 56 App. D. C. 81, 10 F.(2d) 646 (1925), Gordon applied for the registration of the words "Pall Mall" for pipes, cigar and cigarette holders, pouches, tobacco bags, humidors and cigar and cigarette containers. The American Tobacco Company opposed because it had used the same words as a trade-mark for cigarettes. The court held that these two types of goods were of different descriptive properties, saying:

> We have ruled that two trade-marks may be said to be appropriated to merchandise of the same descriptive properties, in the statutory sense, when the general and essential characteristics of the goods are the same; that is, where there is such a sameness in the distinguishing characteristics as to be likely to result *in confusion in the trade and deception of the public. Phoenix P. & V. Co.* v. *John T. Lewis & Bros.*, 139 O. G. 990, 32 App. D. C. 285. . . . [Italics supplied.] [56 App. D. C. at 82, 10 F.(2d) at 647.]

In *Phoenix Paint & Varnish Company* v. *John T. Lewis & Bros.*, 139 O. G. 990, 32 App. D. C. 285 (1908), the Phoenix Paint & Varnish Company applied to register the word "Phoenix" as a trade-mark for ready mixed paints and stains, japans and varnishes. There was opposition by John T. Lewis & Bros. upon the ground of continuous prior use by it and its predecessors of the same mark on paint colors and paste paint. Again the question was whether the goods of the two parties were of the same descriptive properties. The court held that they were. It said:

> *In construing the above provisions it must be borne in mind that the purpose of the act was to protect honest dealers and the public.* It must also be borne in mind that courts have been very loath to permit one concern, however remotely its goods might be connected with those of another concern, to appropriate, through the instrumentality of a technical trade-mark, the reputation of the other firm.
>
> We think two trade-marks may be said to be appropriated to merchandise of the same descriptive properties, in the sense meant by the statute, when the general and essential characteristics of the goods are the same. To rule that the goods must be identical would defeat the purpose of the statute and destroy the value of trade-marks. The test is whether there is such a sameness in the distinguishing characteristics of the goods *as to be likely to mislead the general public.* If there is, only one mark should be registered. . . [Italics supplied.] [32 App. D. C. at 287.]

In *Anglo-American Incandescent Light Company* v. *General Electric Company*, 215 O. G. 325, 43 App. D. C. 385 (1915), it was sought by the Anglo-American Company to register "Mazda" as a trade-mark for incandescent gas mantles. The General Electric Company opposed upon the ground that it had previously used the same word as a trade-mark for incandescent electric lamps. Again the question was whether the descriptive properties of the items of merchandise were the same. It was held that they were upon the faith of the ruling in *Phoenix Paint & Varnish Company* v. *John T. Lewis & Bros.*, supra, and *American Stove Co.* v. *Detroit Stove Works*, 134 O. G. 2245, 31 App. D. C. 304 (1908). While it does not appear from the opinion that the testimony of the trade was actually consulted, the opinion does make clear that likelihood of confusion—to the injury of the one first to adopt a mark and to the general public—is the test.

Each of the foregoing cases involves identical trade-marks and therefore the first part of the proviso. But the court has also had before it the second part—relating to similar, as distinguished from identical, trade-marks. In *G & J Tire Company* v. *G. J. G. Motor Car Company*, 190 O. G. 550, 39 App. D. C. 508 (1913), it was sought by the latter company to register "G.J.G." enclosed in a triangular border for use on automobiles. The G & J Tire Company, which had used the letters "G & J" upon rubber or elastic tires, also in a triangular border, opposed. In affirming, upon the ground that the descriptive properties of the goods were not the same, the Commissioner's dismissal of the opposition the court said:

> The opposition is based chiefly upon the *probability of the use of the marks creating confusion in trade.* Before it can be held that the similarity of the marks will cause confusion in trade, it must appear that the marks are to be applied to goods of the same general class and of the same descriptive properties. Unless this be true, the mere similarity of the marks becomes immaterial. The law places no inhibition upon the use of the same mark by different persons, so long as the goods to which it is applied are so distinctive in class and quality as *to forbid the probability of confusion in trade.* [Italics supplied.] [39 App. D. C. at 511.]

The court cited and quoted from *Phoenix Paint & Varnish Company* v. *John T. Lewis & Bros.*, supra, to the effect that the "test is whether there is such a sameness in the distinguishing characteristics of the goods as to be likely to mislead the general public." The case having arisen upon demurrer to the opposition the court did not have recourse to trade testimony concerning likelihood of confusion, but it adopted likelihood of confusion as the test for determination of the question whether or not the descriptive properties of goods are the same; there is nothing in the case to indicate that recourse to trade testimony might not be made in a case in which the court felt that the question could not be answered on the pleadings.

All of the cases above discussed arose under the same proviso of the statute as is involved in the instant case (section 5 of the act of February 20, 1905, 15 U. S. C. § 85). It is true, as suggested by the majority, that in those cases the court did not make express reference to the different phrasing of the two parts of the proviso. But since the cases actually involved—in the case last mentioned the second part, and in each of the others the first—the proviso, they constitute, in my opinion, binding rulings as to the nature of the test, under each of the parts, for determining whether goods have the same descriptive properties.

The view which I take of the statute, and which I think finds confirmation in the cases which I have discussed from this court, is taken also in another circuit. In *Yale Electric Corporation* v. *Robertson*, 26 F.(2d) 972 (C. C. A. 2d, 1928), the word "Yale," in an ellipse surrounded by an irregular octagon, applied to electric flash-light torches and their batteries, was held not entitled to registration in view of prior use of the same word upon many types of hardware, especially locks and keys, but not upon electric flash-lights and batteries. Again the question was whether or not the goods had the same descriptive properties. The court (consisting of Circuit Judges Learned Hand, Swan, and Augustus N. Hand, in an opinion by Judge Learned Hand) in sustaining the trial judge's dismissal of the bill to compel registration, held that they had, saying:

> There remains the question of registration, the goods not being of the "same descriptive properties" in the colloquial sense. It would plainly be a fatuity to decree the registration of a mark whose use another could at once prevent. The act cannot mean that, being drafted with an eye to the common law in such matters. *American Steel Foundries* v. *Robertson*, 342 O. G. 711, 269 U. S. 372, 381, 46 S. Ct. 160 (70 L. Ed. 317). While we own that it does some violence to the language, it seems to us that the phrase should be taken as no more than a recognition that there may be enough disparity in character between the goods of the first and second users *as to insure against confusion. That will indeed depend much upon trade conditions, but these are always the heart of the matter in this subject.* It is quite true that in *Rosenberg* v. *Elliott* (C. C. A.) 7 F.(2d) 962, the court felt bound to find that caps and suits had the same descriptive properties, quite independently of the confusion which had arisen. We cannot say that that is the case here, for the fact that flash-lights and locks are made of metal does not appear to us to give them the same descriptive properties, *except as the trade has so classed them. But we regard what the trade thinks as the critical consideration, and we think the statute meant to make it the test, despite the language used.* [Italics supplied.] [26 F.(2d) at 974.]

See also *California Fruit Growers Exchange* v. *Windsor Beverages*, 118 F.(2d) 149 (C. C. A. 7th, 1941), involving the phrase "substantially the same descriptive properties," used in section 16 of the act of February 20, 1905, 15 U. S. C. § 96. Referring to both sections 5 and 16 the court said:

> The language of the act was not intended to be more or less comprehensive than the term "same class" used elsewhere in the act, (15 U. S. C. A. § 85). The real test is whether the use of identical or similar trade-marks would be *likely to cause confusion or mistake in the minds of the public, to deceive purchasers,*—where the challenged goods are sold in the same stores or distributed in the same manner. Here confusion is bound to result. *It was the congressional intent to prevent such confusion and resulting mistake or deceit.* Though the merchandise of others may be dissimilar, if the trade-mark is the same or similar, and the merchandise such as reasonably may be attributed to plaintiffs, deceit results. . . . [Italics supplied.] [118 F.(2d) at 152.]

The court quoted from an opinion by Baker, District Judge, in *Church & Dwight Co.* v. *Russ*, 99 Fed. 276, 280 (C. C. D. Ind. 1900), as follows:

> . . . Goods are in the same class whenever the use of a given trade-mark or symbol or [*sic* [1]] both would enable an unscrupulous dealer readily *to palm off on the unsuspecting purchaser the goods of the infringer* as the goods made by the owner of the trade-mark, or with his authority and consent. . . . [Italics supplied.] [118 F.(2d) at 152.]

The reference by the majority to *Forst Packing Co.* v. *C. W. Antrim & Sons*, 529 O. G. 514, 118 F.(2d) 576 (C. C. P. A. 1941), holding that "Mansion Brand" applied to beef, bacon, bologna, frankfurters, and meat loaves consisting of a mixture of beef and pork, cannot properly be registered in view of the prior use of the mark "Old Mansion" applied to coffee, spices, rice and kindred products, for the reason that these apparently diverse articles are of the same descriptive properties, and referring to rulings to the effect that fish and tea are of the same descriptive properties and that meat products, canned vegetables, canned fruits and other grocery products are of the same descriptive properties as sugar, to my mind buttresses the conclusion that recourse to trade testimony ought to be permitted for determination of the question whether or not items of merchandise have the same descriptive properties. How otherwise can it be learned whether or not such apparently dissimilar goods would be confused. *Mcredith Publishing Co.* v. *O. M. Scott & Sons Co.*, 482 O. G. 243, 88 F.(2d) 324 (C. C. P. A. 1937), relied upon by the appellee, holds, as I read it, only that confusion is not the sole test for the sameness of descriptive properties but merely one of a number of factors which may be considered.

I find nothing in the statute or in the authorities which requires the conclusion that the court, in determining under the second proviso of section 5 whether or not items of merchandise possess the same descriptive properties, must limit itself to visual inspection of the goods and inferences to be drawn from such inspection, and ignore likelihood of confusion and the testimony of the trade with respect thereto. I think this court has ruled that, in the light of the purpose of the trade-mark act—to protect honest dealers and the public—likelihood of confusion and what the trade thinks with respect thereto is the critical consideration for determining whether or not the descriptive properties of items of merchandise are the same. I think therefore that the case should be remanded to the trial court for a further hearing wherein trade testimony as to the likelihood of confusion between the appellant's magazine supplement and the British publication shall be given consideration.

[1] In *Church & Dwight Co* v. *Russ* the word "on" is used, not the word "or."

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,566,088, O. V. Greene, Dust cleaning element, D. C., S. D. Calif. (Los Angeles), Doc. 2529–Y, *Air-Maze Corp. et al.* v. *Temperatair, Inc., et al.* Patent held not infringed; bill dismissed June 9, 1943.

1,614,924, B. F. Hutchison, Method of and means for producing camera copy for the photo-engraver, D. C., S. D. N. Y., Doc. 18/49, *Transparent Printing Corp.* v. *Transograph Corp. et al.* Order of discontinuance June 11, 1943.

1,674,657. (See Re. 19,113.)

1,710,095, C. C. Lamb, Laundering machine and driving and stabilizing mechanism therefor, D. C. Mich. (Grand Rapids), Doc. 190, *C. C. Lamb* v. *Nineteen Hundred Corp.* Order dismissing bill June 3, 1943.

1,713,945, S. Bromfield, Accounting and filing system; 1,975,566, R. Bosse, Card register with cards arranged in echelons in horizontal direction; 2,192,178, same, Card registry, filed June 4, 1943, D. C., S. D. N. Y., Doc. 21/344, *Visual Records Corp.* v. *Visible Index Corp. et al.*

1,778,256. (See Re. 19,113.)

1,852,779. (See Re. 19,113.)

1,920,145. (See Re. 19,113.)

1,933,099, H. Derman, Built up container; 2,009,482, same, Wardrobe, closet, and the like; 2,070,924, same, Wardrobe cabinets, and the like; 2,172,956, same, Cabinet; 2,200,329, same, Double door closet; 2,206,767, same, Collapsible closet; 2,235,574, same, Top shelf portable closet; 2,236,870, same, Knockdown cabinet; 2,274,048, same, Container, cabinet and the like; 2,274,533, same, Doorframe for collapsible closets; 2,274,534, same, Collapsible cabinet; 2,027,154, same, Cabinet, chest and the like; 2,274,046, same, Knockdown chest of drawers, filed June 9, 1943, D. C., S. D. N. Y., Doc. 21/358, *H. Derman* v. *Orora Co., Inc.*

1,946,073. (See Re. 19,113.)

1,956,516. (See Re. 19,113.)

1,973,481. (See Re. 19,113.)

1,975,566, R. Bosse, Card register with the cards arranged in echelons in horizontal direction; T. M. 374,111, Visible Index Corp., Visible card indexing device and indexing cards, filed June 5, 1943, U. S. D. C., Dist. of Columbia, Doc. 19,967, *Visible Index Corp.* v. *L. E. Hutchings et al.*

1,975,566. (See 1,713,945.)

1,995,801, J. Field, Corset, appeal filed Jan. 30, 1943, C. C. A., 2d Cir., Doc. —, *The Warner Bros. Co.* v. *American Lady Corset Co.* Decree affirmed (notice June 4, 1943).

1,998,759. (See Re. 19,113.)

2,009,482. (See 1,933,099.)

2,025,973, E. S. Cornell, Jr., Hollow wrought metal bodies and method of making same, D. C., S. D. N. Y., Doc. 14/390, *E. S. Cornell, Jr.*, v. *Chase Brass & Copper Co., Inc.* Judgment (notice June 11, 1943).

2,027,154. (See 1,933,099.)

2,045,969, J. Stanitz, Sink, wash basin and the like; 2,055,378, 2,127,559, V. J. Graf, Sink, D. C., S. D. Ind. (Indianapolis), Doc. 353, *Steel Plumbing Wares, Inc.*, v. *Auburn Central Mfg. Corp.* Bill dismissed without prejudice May 10, 1943.

2,055,378. (See 2,045,969.) 2,070,924. (See 1,933,099.)

2,127,559. (See 2,045,969.) 2,172,956. (See 1,933,099.)

2,187,528, R. T. Wing, Fountain pen; 2,223,541, M. S. Baker, same; Des. 116,097, Des. 116,098 Parker & Baker, same, D. C., N. D. Ill., E. Div., Doc. 4069, *The Parker Pen Co. et al.* v. *W. A. Sheaffer Pen Co.* On stipulation of parties bill dismissed without prejudice Mar 12, 1943. (To correct error in 550 O. G., p. 190, formerly published as "Dismissed with prejudice Mar. 12, 1943".)

2,192,178. (See 1,713,945.)

2,193,724. (See Re. 19,113.)

2,200,329. (See 1,933,099.) 2,206,767. (See 1,933,099.)

2,215,371. (See Re. 19,113.)

2,223,541. (See 2,187,528.) 2,235,574. (See 1,933,099.)

2,236,870. (See 1,933,099.) 2,274,046. (See 1,933,099.)

2,274,048. (See 1,933,099.) 2,274,533. (See 1,933,099.)

2,274,534. (See 1,933,099.)

2,294,877, T. B. Wayne, Treatment of drilling fluids, filed June 7, 1943, D. C., S. D. Tex. (Houston), Doc. 1041. *Visco Products Co. et al.* v. *The Texas Co.* Same, filed June 8, 1943, D. C., S. D. Tex. (Houston), Doc. 1042, *Visco Products Co.* v. *Humble Oil & Refining Co.*

2,314,036, Dressel & Dressel, Method of manufacturing roofing trim, filed June 2, 1943, D. C., S. D. Calif., C. Div., Doc. 2954–PH, *H. L. Owen* v. *S. Dressel.*

Re. 19,113, 1,674,657, 1,778,256, J. R. Oishei, Windshield cleaner; 1,852,779, H. Hueber, Windshield cleaner and wiper carrying arm therefor; 1,920,145, same, Wiper arm and mounting therefor; 1,946,073, Horton & Hueber, Wiper blade and mounting; 1,956,516, same, Wiper arm mounting; 1,973,481, same, Wiper carrying arm; 1,998,759, same, Blade and arm for windshield cleaners; Re. 21,594, E. C. Horton, Windshield cleaner; 2,193,724, same, Windshield cleaner structure; 2,215,371, same, Wiper arm, D. C., S. D. N. Y., Doc. 13/45, *Trico Products Corp.* v. *Unamco Automotive Mfg. Co., Inc.* Stipulation dismissing action by plaintiff June 11, 1943.

Re. 20,024, M. J. Kohler, Apparatus for treating nuts, D. C., S. D. Calif. (Los Angeles), Doc. 1676, *National Nut Co. of California* v. *The Kelling Nut Co. et al.* Decree of dismissal in favor of defendants June 3, 1943.

Re. 21,594. (See Re. 19,113.)

Re. 22,221, R. E. Mayo, Air-conditioned tobacco barn, filed June 9, 1943, D. C., E. D. Pa., Doc. 118, *R. E. Mayo* v. *C. L. Hardy Curing Corp. et al.*

Des. 116,097. (See 2,187,528.)

Des. 116,098. (See 2,187,528.)

Des. 131;594, N. S. Mesh, Sweater, D. C., S. D. N. Y., Doc. 19/186, *Brooklyn Knit Sportswear Co., Inc.*, v. *Belkor Knitwear Co., Inc., et al.* Consent order of discontinuance as to Gay Time Frock Co., Inc., Oct. 5, 1942. Stipulation of discontinuance as to Belkor Knitwear Co., Inc., April 2, 1943, and as to Billie Knitwear, Inc., June 9, 1943.

Des. 134,440, A. Gershuny, Dress, D. C., S. D. N. Y., Doc. 20/350, *Highlight Fashions, Inc.*, v. *Arcadia Dress Co.* Consent judgment (notice June 8, 1943).

T. M. 374,111. (See 1,975,566.)

T. M. 396,032, B. A. Lynch, Newspaper column, filed June 9, 1943, U. S. D. C., Dist. of Columbia, Doc. 20,014, *B. A. Lynch* v. *Woodward & Lothrop, Inc.*

Plant 346, E. Bourdieu, Pyracantha koidzumii, filed Apr. 20, 1943, D. C., S. D. Calif., C. Div., Doc. 2877–B, *E. Bourdieu* v. *L. B. Merrick.*

Adjudicated Patents

(Ct. Cl.) Fessenden patent, No. 1,050,441, for electric signaling apparatus, claims 1, 2, 3, 4, 6, 9, 22 to 26, inclusive, and 29 *Held* valid and infringed. *National Electric Signaling Co.* v. *U. S.*, 49 F. SuSpp. 754 and 49 F. Supp. 768.

(Ct. Cl.) Fessenden patent, No. 1,050,728, for method of signaling, claims 1, 2, 9, 10, 11, 12, and 14 *Held* valid and infringed. *Id.*

(C. C. A. Mich.) Adams patent, No. 1,876,534, for bearing adapter, *Held* invalid. *Mathews Conveyer Co.* v. *Palmer-Bee Co.*, 135 F.(2d) 73.

(C. C. A. N. J.) Hecking patent, No. 1,909,616, for pen, pen-point, and process of making same, *Held* invalid. *Pfanstiehl Chemical Co.* v. *American Platinum Works*, 135 F.(2d) 171.

(C. C. A. Ohio.) Walsh patent, No. 1,936,044, for laminated product and method of producing same, claims 1 and 3 to 7, inclusive, *Held* invalid. *Libbey-Owens-Ford Glass Co.* v. *Celanese Corp. of America*, 135 F.(2d) 138.

(D. C. Del.) Bridgeman and Schade patent, No. 1,943,468, for wax emulsion coating, and coating process, claims 5, 6, 7, and 12 *Held* invalid. *Innis Speiden & Co.* v. *Food Machinery Corp.*, 49 F. Supp. 722.

(C. C. A. Mich.) Adams patent, No. 2,023,718, for antifriction bearing, *Held* invalid. *Mathews Conveyer Co.* v. *Palmer-Bee Co.*, 135 F.(2d) 73.

(C. C. A. Mich.) Werner patent, No. 2,038,974, for hydraulic jack, claim 6 *Held* not infringed. *Werner* v. *Hein-Werner Motor Parts Corp.*, 135 F.(2d) 187.

(C. C. A. Mich.) Rishel patent, No. 2,077,188, for roller conveyer, *Held* invalid and not infringed. *Mathews Conveyer Co.* v. *Palmer-Bee Co.*, 135 F.(2d) 73.

Notice of Cancellation

U. S. PATENT OFFICE, *Richmond, Va., June 9, 1943.*

Marval-Ac Co., its assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Antiseptol Company, Inc., Chicago, Ill., to effect the cancellation of trade-mark registration of Marval-Ac Co., 32 Lightston St., San Jose, Calif., No. 279,587, dated January 20, 1931, and the notice of such proceeding sent by registered mail to the said Marval-Ac Co., at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Marval-Ac Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

TRADE-MARKS

OFFICIAL GAZETTE, JULY 13, 1943

[VOL. 552. No. 2]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 458,743. RAYBESTOS-MANHATTAN, INC., Stratford, Conn. Filed Feb. 24, 1943.

Raypol

FOR SYNTHETIC RUBBER-LIKE MATERIAL.
Claims use since Jan. 8, 1943.

Ser. No. 460,535. THE PERMANENTE METALS CORPORATION, Oakland, Calif. Filed May 10, 1943.



FOR FERROSILICON.
Claims use since Mar. 29, 1943.

CLASS 2

RECEPTACLES

Ser. No. 456,597. GLASCOTE PRODUCTS, INC., Cleveland, Ohio. Filed Nov. 2, 1942.

Applicant is owner of Reg. No. 243,975, for the mark "Glascote."

GLASCOTE

FOR ACID TANKS; ACID TREATING TANKS; AGING TANKS; BLOW OFF TANKS; BLOW DOWN TANKS; BREWERY TANKS; BOTTLING TANKS; BRINE TANKS; BUTTERMILK TANKS; COIL TANKS; COOLING TANKS; CORROSION RESISTING TANKS; COOKING TANKS; COAGULATING TANKS; CHOCOLATE MELTING TANKS; CHOCOLATE TANKS; CLOSED JACKETED TANKS; CREAM TANKS; CHLORINATING TANKS; CONCENTRATION TANKS; CRYSTALLIZING TANKS; CHEMICAL TANKS; CHEMICAL PROCESSING TANKS; COMPOUNDING TANKS; DISTILLERY TANKS; DAIRY TANKS; DYE TANKS; DISTILLATION TANKS; DISTILLED WATER STORAGE TANKS; EMULSIFIER TANKS; ELECTRICALLY HEATED TANKS; ELECTROLYTE STORAGE TANKS; EVAPORATION TANKS; FILLER TANKS; FRACTIONATOR TANKS; FERMENTING TANKS; GLASS LINED METAL TANKS; HOLDING TANKS; INSULATED TANKS; JACKETED TANKS; LAGERING TANKS; LOW WINE TANKS; LATEX TANKS; LATEX WEIGH TANKS; LATEX STORAGE TANKS; MIXING TANKS; MILK TANKS; NITRATING TANKS; PHARMACEUTICAL TANKS; PRESERVING TANKS; PRESSURE TANKS; PULP TREATING TANKS; PICKLING TANKS; PORTABLE TANKS; PASTEURIZING TANKS; PERCOLATOR TANKS; POLYMERIZER TANKS; RIPENING TANKS; RING TANKS; RECEIVING TANKS; REACTION TANKS; SEPARATOR TANKS; SULFONATOR TANKS; STORAGE TANKS; SCALE TANKS; DIRECT EXPANSION TANKS; DUMP TANKS; SURGE TANKS; STERILIZING TANKS; SECTIONAL TANKS; SYRUP TANKS; TILTING TANKS; VACUUM TANKS; VEGETABLE SOAKING TANKS; VEGETABLE TREATING TANKS; WEIGH TANKS; WEIR TANKS; YEAST CULTURE TANKS; YEAST STORAGE TANKS; YEAST FERMENTER TANKS; COIL VATS; CHEESE VATS; YEAST TUBS; SPECIALLY DESIGNED AND CONSTRUCTED INDUSTRIAL TANKS, VATS AND CONTAINERS FOR USE IN MANUFACTURING PROCESSES, AND FOR THE STORAGE OF MANUFACTURING AND PROCESSING MATERIALS.
Claims use since December 1919.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 460,451. PINAUD, INCORPORATED, New York, N. Y. Filed May 6, 1943.

BRAZILIA

FOR TOILET SOAP.
Claims use since Apr. 23, 1943.

Ser. No. 460,537. REID, MURDOCH & Co., Chicago, Ill. Filed May 10, 1943.
The drawing is lined for red and blue.

FARM HOUSE



FOR SOAP CHIPS AND SCOURING SOAP.
Claims use since August 1900.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 449,021. JOSE ANTONIO PRIETO ROMANACH, Havana, Cuba. Filed Nov. 28, 1941.

Aseol

FOR DEODORANT POWDER, POMADE, TINCTURE AND OILS FOR THE HAIR, ROUGES, NAIL ENAMELS, LIPSTICKS AND EYEBROW STICKS, BRILLIANTINE, TOOTH PASTE, AND POWDERED TALC.
Claims use since Sept. 9, 1938.

Ser. No. 452,864. NATIONAL MINERAL COMPANY, Chicago, Ill. Filed May 7, 1942.

YOUR *personalized* WAVE

The word "Wave" is disclaimed apart from the mark.
FOR PERMANENT HAIR WAVING SOLUTION AND PERMANENT HAIR CURLING AGENT.
Claims use since May 15, 1941.

Ser. No. 454,336. THE HARROWER LABORATORY, INC., Glendale, Calif. Filed July 20, 1942.

ARGIPECTIN

FOR COMBINATION OF SILVER AND PECTIN FOR EXTERNAL USE, PRINCIPALLY AS MUCOUS MEMBRANE ANTISEPTIC, RECOMMENDED FOR LOCAL APPLICATION IN THE EYE, EAR, NOSE, AND THROAT, AND ALSO FOR PELVIC AND URINARY DISORDERS.
Claims use since Feb. 13, 1942.

Ser. No. 454,337. THE HARROWER LABORATORY, INC., Glendale, Calif. Filed July 20, 1942.

Cortothyrin

FOR COMBINATION OF ORALLY ACTIVE ADRENAL CORTEX AND THYROID EXTRACTS, WITH VITAMIN C, INDICATED IN SUBCLINICAL ADDISONIAN SYNDROMES (HYPOADRENIA), IN THE ADRENAL DEFICIENCY ASSOCIATED WITH HYPOMETABOLISM, AND IN THE DEPLETED STATES FOLLOWING ACUTE AND CHRONIC INFECTIONS.
Claims use since Dec. 15, 1940.

Ser. No. 459,159. W. B. CARTWRIGHT, LIMITED, Rawdon, near Leeds, England. Filed Mar. 17, 1943.

MOORLAND

FOR COMPRESSED TABLETS AND LOZENGES AND PASTILLES FOR THE RELIEF OF INDIGESTION, DYSPEPSIA, FLATULENCE, HEARTBURN, ACIDOSIS, AND DISORDERS OF THE GASTRO-INTESTINAL TRACT.
Claims use since Feb. 1, 1913.

Ser. No. 459,161. W. B. CARTWRIGHT, LIMITED, Rawdon, near Leeds, England. Filed Mar. 17, 1943.
No claim is made to the word "Brand" apart from the mark.

MOORLAND BRAND

FOR COMPRESSED TABLETS AND LOZENGES AND PASTILLES FOR THE RELIEF OF INDIGESTION, DYSPEPSIA, FLATULENCE, HEARTBURN, ACIDOSIS AND DISORDERS OF THE GASTRO-INTESTINAL TRACT.
Claims use since Feb. 1, 1913.

Ser. No. 459,569. JENKINS LABORATORIES, INC., Auburn, N. Y. Filed Apr. 1, 1943.

TRUMENS

FOR SEDATIVE AND ANODYNE TABLETS.
Claims use since Dec. 4, 1942.

Ser. No. 459,589. JOSEPH ST. GEORGE BRYAN, Richmond, Va. Filed Apr. 3, 1943.

BLU-ICE

FOR LIQUID OR SALVE FOR EXTERNAL APPLICATION IN THE TREATMENT OF INFECTIONS, IRRITATIONS, INFLAMMATIONS, OR ERUPTIONS OF THE SKIN, SUCH AS SUNBURN, ACNE, BURNS, BRUISES, BOILS, BARBER'S ITCH, BLACKHEADS, CUTS, CHILBLAINS, CHAPPING, CHAFING, DANDRUFF, ECZEMA, FROSTBITE, IRRITATIONS, INFLAMMATION, INSECT BITES, ITCHING, NEURALGIA, PIMPLES, PRICKLY HEAT, POISON OAK, POISON IVY, PILES, ROUGHNESS, RASH, RINGWORM, RHEUMATISM, SCALDING, SCALES, SORES, SALT RHEUM, SORE FEET, TETTER, ULCERS, AND WINDBURN.
Claims use since Apr. 1, 1943.

Ser. No. 459,630. MORRIS MORRIS, doing business as United Chemical Works, Chicago, Ill. Filed Apr. 5, 1943.



FOR FUR BLEACHES, FUR DYES, FUR GLAZES AND GLAZING COMPOUNDS, FUR LUSTRES, FUR REINFORCING COMPOUNDS, FUR RENEWING COMPOUNDS AND FUR SOFTENERS, FUR DYE FIXATIVES AND MODIFIERS, INSECTICIDES, LEATHER AND PELT DYES, MOTH PREVENTATIVE AND MOTH PROOFING COMPOUNDS, AND WATER REPELLENT COMPOUNDS.
Claims use since Oct. 12, 1934.

Ser. No. 459,631. MORRIS MORRIS, doing business as United Chemical Works, Chicago, Ill. Filed Apr. 5, 1943.

UC

FOR FUR BLEACHES, FUR DYES, FUR GLAZES AND GLAZING COMPOUNDS, FUR LUSTRES, FUR REINFORCING COMPOUNDS, FUR RENEWING COMPOUNDS AND FUR SOFTENERS, FUR DYE FIXATIVES AND MODIFIERS, INSECTICIDES, LEATHER AND PELT DYES, MOTH PREVENTATIVE AND MOTH PROOFING COMPOUNDS, AND WATER REPELLENT COMPOUNDS.
Claims use since Oct. 12, 1934.

Ser. No. 459,850. THERMOPIN LABORATORIES, INC., New York, N. Y. Filed Apr. 13, 1943.

SARONG

FOR BUBBLE BATH, EAU DE COLOGNE, AND DUSTING POWDER.
Claims use since Apr. 8, 1943.

Ser. No. 460,382. NYAL COMPANY, Detroit, Mich. Filed May 3, 1943.

TRUZYME

FOR DIGESTIVE ENZYME.
Claims use since Apr. 15, 1943.

Ser. No. 460,452. PINAUD, INCORPORATED, New York, N. Y. Filed May 6, 1943.

BRAZILIA

FOR EAU DE COLOGNE AND FACE POWDER.
Claims use since Apr. 23, 1943.

Ser. No. 460,471. FILTROL CORPORATION, Los Angeles, Calif. Filed May 7, 1943.

DESICITE

FOR ADSORBENTS FOR VAPORS AND GASES.
Claims use since Apr. 17, 1943.

Ser. No. 460,522. FULD BROS., Baltimore, Md. Filed May 10, 1943.

FULDICIDE

FOR DISINFECTANTS, GERMICIDES, AND FUNGICIDES.
Claims use since Apr. 14, 1943.

Ser. No. 460,551. NYAL COMPANY, Detroit, Mich. Filed May 11, 1943.

MULTITONE

FOR VITAMIN PREPARATION.
Claims use since Apr. 28, 1943.

Ser. No. 460,552. NYAL COMPANY, Detroit, Mich. Filed May 11, 1943.

POLYMINS

FOR COMBINED VITAMIN AND MINERAL PREPARATION.
Claims use since Apr. 28, 1943.

Ser. No. 460,556. SANDOZ CHEMICAL WORKS, INC., New York, N. Y. Filed May 11, 1943.

CALGLUFER

FOR MEDICINAL PREPARATION FOR PARENTERAL OR ORAL ADMINISTRATION—NAMELY, A HEMATINIC FOR USE IN THE TREATMENT OF ANEMIA.
Claims use since Apr. 30, 1943.

Ser. No. 460,817. THE UPJOHN COMPANY, Kalamazoo, Mich. Filed May 21, 1943.

Malcotabs

FOR MEDICINAL PREPARATION, WHICH IS AN ANTACID AND ALKALIZER.
Claims use since July 21, 1942.

Ser. No. 460,825. ABBOTT LABORATORIES, North Chicago, Ill. Filed May 22, 1943.

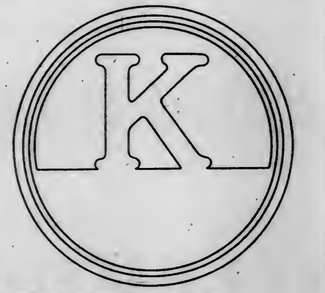
SULF-OPTO

FOR BACTERIOSTATIC AGENT CONTAINING A SULFONAMIDE.
Claims use since May 6, 1943.

CLASS 9

EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES

Ser. No. 460,028. WALTER KIDDE & COMPANY, INC., New York, N. Y., and Belleville, N. J. Filed Apr. 20, 1943.



FOR MACHINE GUN CHARGERS.
Claims use since October, 1942.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 458,991. THE TREMCO MANUFACTURING COMPANY, Cleveland, Ohio. Filed Mar. 9, 1943.
No claim is made to the word "Kote" apart from the mark.

KEMI KOTE

FOR TREATMENT MATERIAL FOR TREATING CEMENT, CONCRETE AND LIKE SURFACES, SUCH FLOOR SURFACES OR THE LIKE, FOR HARDENING AND DUSTPROOFING PURPOSES.
Claims use since July 8, 1928.

Ser. No. 460,011. THE TECHKOTE CO., Inglewood, Calif. Filed Apr. 19, 1943.

SEALTEX

FOR CONCRETE CURING COMPOUND.
Claims use since Mar. 27, 1943.

Ser. No. 460,012. THE TECHKOTE CO., Inglewood, Calif. Filed Apr. 19, 1943.

TECHKURE

FOR CONCRETE CURING COMPOUND.
Claims use since Mar. 27, 1943.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 452,811. REVERE COPPER AND BRASS INCORPORATED, New York, N. Y. Filed May 5, 1942.
Applicant disclaims the word "Metal" except as shown.

DALADON METAL

FOR ZINC BASE ALLOYS.
Claims use since Mar. 25, 1942.

Ser. No. 457,609. P. R. MALLORY & CO., INC., Indianapolis, Ind. Filed Dec. 26, 1942.

ELKON

FOR NON-FERROUS ALLOYS AND UNFINISHED OR PARTLY FINISHED NON-FERROUS METAL CASTINGS.
Claims use since 1921.

Ser. No. 460,479. OHIO FERRO-ALLOYS CORPORATION, Canton, Ohio. Filed May 7, 1943.

BOROSIL

FOR FERRO-ALLOYS—NAMELY, AN ALLOY OF BORON, SILICON, AND IRON.
Claims use since July 28, 1942.

CLASS 16

PAINTS AND PAINTERS' MATERIALS

Ser. No. 460,223. CLAYTON H. TROTTI, Greenwood, S. C. Filed Apr. 27, 1943.

MOTHER EARTH

FOR POLISH AND CLEANER FOR AUTOMOBILES AND FOR PAINTED, VARNISHED, OR LACQUERED SURFACES.
Claims use since Mar. 16, 1943.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 458,019. THE PORCELAIN ENAMEL & MFG. CO. OF BALTIMORE, doing business as The Porcelain Enamel & Mfg. Co., Baltimore, Md. Filed Jan. 19, 1943.

PEMQUE

FOR COMPOSITE ELECTRICAL INSULATING MATERIAL COMPRISING A MIXTURE IN DIVIDED FORM OF AN ELECTRICAL INSULATING BASE AND A LOW FUSING POINT GLASS BONDING AGENT THEREFOR; A COMPOSITE ELECTRICAL INSULATING MATERIAL COMPRISING A MIXTURE IN DIVIDED FORM OF ELECTRICAL INSULATING MICA BONDED WITH A GLASS BONDING AGENT THEREFOR; A HOT PRESSED COMPOSITE INTEGRAL MATERIAL COMPRISING AN ELECTRICAL INSULATING BASE, THE PARTICLES OF WHICH ARE BONDED TOGETHER WITH A LOW FUSION POINT GLASS; SAID MATERIAL IN GENERAL BEING IN SHEET, BLOCK, SPECIAL SHAPES, AND BULK FORM.
Claims use since Nov. 13, 1942.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 456,379. BARCALO MANUFACTURING COMPANY, Buffalo, N. Y. Filed Oct. 24, 1942.
Applicant is the owner of T. M. 400,532, registered Mar. 16, 1943.

BARCALO

FOR WRENCHES, PLIERS, SCREWDRIVERS, PUNCHES, CHISELS, BALL PEEN HAMMERS AND CREEPERS.
Claims use since September 1913 for wrenches, pliers and screwdrivers; since June 1934 for punches and chisels; since October 1927 for ball peen hammers; and since November 1923 for creepers.

Ser. No. 456,760. WORTHINGTON PUMP AND MACHINERY CORPORATION, Harrison, N. J. Filed Nov. 11, 1942.

Q-D

FOR SHEAVES AND PULLEYS.
Claims use since December 1939.

Ser. No. 460,042. CONTINENTAL MOTORS CORPORATION, Detroit and Muskegon, Mich. Filed Apr. 21, 1943.

Invincible

FOR INTERNAL COMBUSTION ENGINES FOR GENERAL POWER APPLICATION INCLUDING AUTOMOTIVE, MARINE AND INDUSTRIAL POWER PLANTS; MECHANICAL POWER PLANTS FOR LIGHTING AND INDUSTRIAL POWER APPLICATION; MECHANICAL DRIVING UNITS FOR GENERATORS; REPLACEMENT AND SPARE PARTS FOR SAID ENGINES AND POWER PLANTS INCLUDING CARBURETORS, GOVERNORS, GEARS AND TRANSMISSIONS, LUBRICATING STRUCTURES, FUEL FEEDING AND PURIFYING DEVICES, POWER TAKE-OFF DRIVES, PULLEYS, COUPLINGS, POWER SHAFTS, ENGINE SHIELDS AND COOLING BAFFLES; ENGINE CONTROLLING AND REGULATING STRUCTURES, BASE STRUCTURES AND FRAME SUPPORTS FOR SAID ENGINES AND POWER PLANTS.
Claims use since Nov. 19, 1942.

Ser. No. 460,459. TEMPLETON, KENLY & CO., Chicago, Ill. Filed May 6, 1943.
The word "Tool" alone is disclaimed.

Util-A-Tool

FOR TOOL IN THE NATURE OF A JACK FOR USE IN PULLING, PUSHING, SPREADING, BENDING, CLAMPING, AND LIFTING OPERATIONS.
Claims use since Dec. 18, 1939.

Ser. No. 460,777. STOW MANUFACTURING COMPANY, INC., Binghamton, N. Y. Filed May 20, 1943. Under 10-year proviso.

STOW

FOR FLEXIBLE SHAFTS AND ACCESSORIES THEREFOR.
Claims use since 1875.

Ser. No. 460,805. THE MURRAY CORPORATION OF AMERICA, Detroit, Mich. Filed May 21, 1943.

RIV-N-JECTOR

FOR RIVET DELIVERING TOOL.
Claims use since Dec. 13, 1941.

Ser. No. 460,866. ENCO MFG. CO., Chicago, Ill. Filed May 24, 1943.

ENCO

FOR TAILSTOCK TURRETS FOR LATHES.
Claims use since Mar. 1, 1942.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 458,233. ERICH STUDENT, Cleveland, Ohio. Filed Jan. 29, 1943.

STUDIOPHOT

FOR PHOTOGRAPHIC GOODS AND SUPPLIES—NAMELY, CABLE RELEASES, COLOR FILTERS, TRIPODS, SELFTIMERS, SWIVEL TOPS, SUNSHADES, CAMERAS, CAMERA CASES, AND LENSES.
Claims use since Jan. 22, 1943.

Ser. No. 460,558. THE SKYSCOPE COMPANY OF NEW YORK, New York, N. Y. Filed May 11, 1943.

SKY-SCOPE

FOR ASTRONOMICAL TELESCOPES.
Claims use since Apr. 21, 1941.

Ser. No. 460,568. INDUSTRIAL ENGINEERING CO. INC., Minneapolis, Minn. Filed May 12, 1943.

Xactor

FOR PROTRACTORS.
Claims use since Oct. 23, 1942.

Ser. No. 460,636. SWIFT & ANDERSON, INC., Boston, Mass. Filed May 14, 1943.

FIRE-FLY

FOR ILLUMINATED MAGNIFIERS AND READERS.
Claims use since November 1930.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 458,075. NAT LEVY, New York, N. Y. Filed Jan. 21, 1943.

DOLLUP

FOR COSTUME JEWELRY, NOT INCLUDING WATCHES.
Claims use since Jan. 1, 1943.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 460,863. COMMERCIAL PLASTICS COMPANY, Chicago, Ill. Filed May 24, 1943.

ESKOTRAY

FOR ICE CUBE TRAYS.
Claims use since Feb. 11, 1942.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 458,914. EXPERT BEDDING CO., Chicago, Ill. Filed Mar. 5, 1943.

ALTEX

FOR MATTRESSES, PILLOWS, BOX SPRINGS, CHAIR PADS, AND PLAY YARD PADS.
Claims use since December 1937.

Ser. No. 460,743. NATIONAL MATTRESS COMPANY, Huntington, W. Va. Filed May 19, 1943.

NATIONAL EMBLEM

FOR MATTRESSES.
Claims use since Dec. 15, 1941.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 459,941. NIAGARA BLOWER COMPANY, Buffalo and New York, N. Y. Filed Apr. 16, 1943.

AERO

FOR BLOWER TYPE EVAPORATIVE HEAT EXCHANGERS FOR GAS AND DIESEL ENGINE JACKET WATER COOLING, LUBRICATING OIL COOLING, QUENCHING OIL COOLING, CAUSTIC SOLUTION COOLING, QUENCHING BATHS, TRANSFORMER OIL COOLING, CUTTING OIL COOLING, AUTOMATIC MACHINE TOOLS, SOAP SOLUTION COOLING, AND COPPER WIRE DRAWING MILLS.
Claims use since September 1941.

CLASS 36

MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 458,301. AMERTYPE RECORDGRAPH CORPORATION, New York, N. Y. Filed Feb. 2, 1943.

RECORDGRAPH

FOR ELECTRICAL RECORDING AND REPRODUCING APPARATUS FOR RECORDING AND REPRODUCING SOUND, AND FILM SOUND RECORDS, PARTICULARLY OF THE CONTINUOUS OR ENDLESS LOOP TYPE.
Claims use since June 1940.

CLASS 37

PAPER AND STATIONERY

Ser. No. 458,541. MCLAURIN-JONES CO., Brookfield, Mass. Filed Feb. 15, 1943.

ALCOSEAL

FOR GUMMED PAPER.
Claims use since Feb. 5, 1943.

CLASS 38

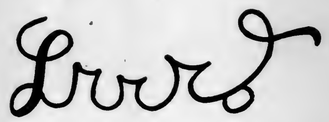
PRINTS AND PUBLICATIONS

Ser. No. 453,382. FAWCETT PUBLICATIONS, INC., Greenwich, Conn. Filed May 30, 1942.

Captain Marvel

FOR COMIC STRIP AND A MAGAZINE OR PUBLICATION.
Claims use since Dec. 8, 1939.

Ser. No. 457,677. HOWARD T. CURTISS, Utica, N. Y. Filed Dec. 31, 1942.



The trade-mark consists of a simulation of the script letter "L" followed by the Greek Omega and a portion of the script letter L in reverse and is purely a fanciful coined diagram and not intended as any standard letter form but has the meaning of "Life-after-death-life" using the Omega in its traditional meaning of the end or death.
FOR NEWSPAPER COLUMN.
Claims use since Oct. 21, 1942.

Ser. No. 459,821. AIRCRAFT SCREW PRODUCTS COMPANY, INC., Long Island City, N. Y. Filed Apr. 13, 1943.

THE AEROTHREADER

FOR MAGAZINE.
Claims use since Apr. 5, 1943.

CLASS 39

CLOTHING

Ser. No. 457,742. HOLLYWOOD ROGUE SPORTSWEAR, INC., Hollywood, Calif, assignor to Hollywood Rogue Sportswear, Los Angeles, Calif. Filed Jan. 4, 1943.

TIE-VERTIBLE

Applicant disclaims the word "Tie" apart from the mark.
FOR MEN'S SPORT SHIRTS.
Claims use since Aug. 15, 1942.

Ser. No. 459,765. REVERE KNITTING MILLS, INC., Malden, Mass. Filed Apr. 9, 1943.
Applicant is the owner of registration No. 227,589, dated May 10, 1927. No claim is made to the words "for America's up to the Minute Men" apart from the mark.

Revere
for AMERICA'S up to the MINUTE MEN

FOR MEN'S AND BOYS' SPORTSWEAR—NAMELY, SWEATERS AND JACKETS.
Claims use since Jan. 5, 1940.

Ser. No. 460,268. THE NOLDE AND HORST COMPANY, Reading, Pa. Filed Apr. 29, 1943.
The words "Nolde" and "Hosiery" are disclaimed apart from the mark.

NOLDE HOSIERY

FOR HOSIERY.
Claims use since October 1941.

Ser. No. 460,617. KEN COATS, INC., New York, N. Y. Filed May 14, 1943.

Morrello

FOR LADIES' AND MISSES' COATS, SUITS, AND COAT AND SUIT ENSEMBLES.
Claims use since Nov. 17, 1941.

Ser. No. 460,659. PHILIP SHLANSKY & BRO. INC., New York, N. Y. Filed May 15, 1943.

Kara Kurl

The word "Kurl" is disclaimed apart from the mark.
FOR WOMEN'S, MISSES', AND GIRLS' COATS.
Claims use since Mar. 1, 1941.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 460,519. HARVEY CHALMERS & SON INC., Amsterdam, N. Y. Filed May 10, 1943.

GOOD NEIGHBOR

FOR PEARL BUTTONS.
Claims use since Apr. 9, 1943.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS

Ser. No. 455,323. CANTOR GREENSPAN CO., INC., also doing business under the name of Labtex Fabrics, New York, N. Y. Filed Sept. 4, 1942.

Home Front Fatigues

The word "Fatigues" is disclaimed apart from the mark.
FOR RAYON PIECE GOODS.
Claims use since Aug. 14, 1942.

CLASS 43

THREAD AND YARN

Ser. No. 456,666. ALGONQUIN MILLS, INC., Hoboken, N. J. Filed Nov. 6, 1942.

ALGONQUIN

FOR YARN AND THREAD.
Claims use since Aug. 15, 1942.

Ser. No. 460,773. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed May 20, 1943.

MINUTE MAN

FOR YARN.
Claims use since Apr. 15, 1942.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 458,898. THE SCHOLL MFG. CO., INC., Chicago, Ill. Filed Mar. 4, 1943.

LAMINEX

ARCH SUPPORTS

No claim is made for the words "Arch Supports" apart from the mark.
FOR ARCH SUPPORTS.
Claims use since Oct. 1, 1942.

Ser. No. 460,646. GEORGE N. BOUTHILLETTE, doing business as Everett Foot Cushion Company, Everett, Mass. Filed May 15, 1943.

RE-ZIL-ARCH

No claim is made for the word "Arch" apart from the mark.
FOR ARCH SUPPORTS.
Claims use since Mar. 10, 1943.

Ser. No. 461,008. JULIUS SCHMID, INC., New York, N. Y. Filed May 28, 1943.

BLACK BAND

FOR NIPPLES.
Claims use since May 5, 1943.

CLASS 45

BEVERAGES, NONALCOHOLIC

Ser. No. 448,800. JOSEPH PAOLA, doing business as Topaz Bottling Company, Providence, R. I. Filed Nov. 21, 1941.

TOPAZ

"THE GEM OF THEM ALL"

FOR SYRUP FOR FLAVORING SOFT DRINKS.
Claims use since Oct. 20, 1941.

Ser. No. 460,245. SUPERIOR MACARONI COMPANY, doing business as Superior Tasty Products Co., Los Angeles, Calif. Filed Apr. 28, 1943.
No claim is made to the word "Pop."

ICY-POP

FOR POWDER BASE FOR MAKING NON-ALCOHOLIC BEVERAGES.
Claims use since Apr. 15, 1943.

Ser. No. 460,538. REID, MURDOCH & Co., Chicago, Ill. Filed May 10, 1943.
The drawing is lined for red and blue.

FARM HOUSE

FOR GINGER ALE AND ROOT BEER.
Claims use since August 1900.

Ser. No. 460,575. MYLO FOODS CO., Brooklyn, N. Y. Filed May 12, 1943.

MYLO

FOR CHOCOLATE FLAVORED SYRUP, LEMON AND LIME FLAVORED SYRUP, IMITATION GRAPE SYRUP, IMITATION VANILLA FLAVOR SYRUP, STRAWBERRY FLAVORED SYRUP, LEMON FLAVORED SYRUP, PINEAPPLE FLAVORED SYRUP, ORANGE FLAVORED SYRUP, IMITATION RASPBERRY FLAVORED SYRUP, ROOT BEER FLAVORED SYRUP, AND CHERRY FLAVORED SYRUP.
Claims use since Aug. 1, 1934.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 455,033. UNITED STATES DEPARTMENT OF AGRICULTURE, Washington, D. C. Filed Aug. 21, 1942. Under the act of February 20, 1905, as amended June 10, 1938.

U. S. APPROVED N. P. I. P.

No claim is made to the word "Approved" apart from the mark.
FOR LIVE POULTRY AND EGGS.
Claims use since Nov. 23, 1937.

Ser. No. 455,034. UNITED STATES DEPARTMENT OF AGRICULTURE, Washington, D. C. Filed Aug. 21, 1942. Under the act of February 20, 1905, as amended June 10, 1938.

U. S. CERTIFIED N. P. I. P.

No claim is made to the word "Certified" apart from the mark.
FOR LIVE POULTRY AND EGGS.
Claims use since Nov. 23, 1937.

Ser. No. 459,880. FRANCIS H. LEGGETT & COMPANY, New York, N. Y. Filed Apr. 14, 1943.
The figures are fanciful.



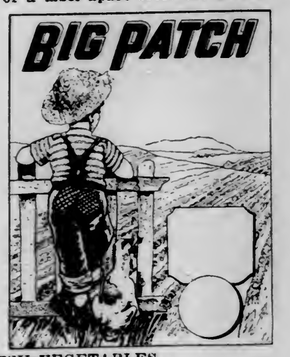
FOR VACUUM PACKED WHOLE KERNEL GOLDEN CORN, SWEET RED AND GREEN PEPPERS, SUGAR AND SALT ADDED.
Claims use since Jan. 15, 1943.

Ser. No. 460,374. LUIGI LOTORTO, Stockton, Calif. Filed May 3, 1943.
The English translation of the term "Tre Diavoli" is "Three Devils."

TRE DIAVOLI

FOR OLIVE OIL.
Claims use since Feb. 19, 1943.

Ser. No. 460,801. ROSE KALICH, doing business as M. L. Kalich & Co., Watsonville, Calif. Filed May 21, 1943. The picture is fanciful. No claim is made to the representation of a label apart from the mark.



FOR FRESH VEGETABLES.
Claims use since May 4, 1943.

CLASS 47

WINES

Ser. No. 458,713. VERNON BARCLAY LIMITED, London, England. Filed Feb. 23, 1943.

FLYING FORTRESS

FOR WINES.
Claims use since Aug. 24, 1942.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Ser. No. 458,714. VERNON BARCLAY LIMITED, London, England. Filed Feb. 23, 1943.

FLYING FORTRESS

FOR WHISKEY, BRANDY, GIN, RUM, AND LIQUEURS.
Claims use since Aug. 24, 1942.

Ser. No. 460,386. ANGELA PAGANI, doing business as A. Pagani, Glen Ellen, Calif. Filed May 3, 1943.

GLEN HILLS

FOR GRAPE BRANDY.
Claims use since Mar. 1, 1943.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 459,264. DURKEE MARINE PRODUCTS CORPORATION, New York and Grasmere, Staten Island, N. Y. Filed Mar. 22, 1943. Under 10-year proviso.

DURKEE

FOR FLAGPOLE EAGLES, MAST BALLS, AND NAME PLATES, MEMORIALS IN THE FORM OF TABLETS AND PLAQUES MOLDED FROM METAL, NON-ELECTRICALLY OPERATED AND NON-MECHANICALLY OPERATED SIGNS MOLDED FROM METAL, AND STATUARY MOLDED FROM METAL.
Claims use since 1870.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

JULY 13, 1943

402,236. INSECTICIDAL MATERIAL. ANSBACHER SIEGLE CORPORATION, New York, N. Y.
Filed August 22, 1939. Serial No. 422,849. PUBLISHED NOVEMBER 21, 1939. Class 6.

402,237. BEER. PFEIFFER BREWING COMPANY, Detroit, Mich.
Filed December 27, 1940. Serial No. 439,238. PUBLISHED APRIL 27, 1943. Class 48.

402,238. COAL. THE PITTSBURG AND MIDWAY COAL MINING COMPANY, Kansas City, Mo.
Filed January 30, 1941. Serial No. 440,132. PUBLISHED MAY 4, 1943. Class 1.

402,239. WHEAT FLOUR. CHARLESTON MILLING COMPANY, Charleston, W. Va.
Filed February 4, 1941. Serial No. 440,281. PUBLISHED MAY 4, 1943. Class 46.

402,240. BABY PANTS OF RUBBER. THE SEIBERLING LATEX PRODUCTS CO., Barberton, Ohio.
Filed July 16, 1941. Serial No. 445,396. PUBLISHED MAY 4, 1943. Class 39.

402,241. MEN'S AND BOYS' SUITS AND OVERCOATS AND LADIES' COATS, SUITS, DRESSES, FUR COATS, FUR SCARVES, FUR JACKETS, FUR MUFFS, AND FUR GLOVES. MORRIS B. SACHS, Chicago, Ill.
Filed July 24, 1941. Serial No. 445,617. PUBLISHED MAY 4, 1943. Class 39.

402,242. MEN'S SUITS AND COATS. FRIEDMAN-MARKS CLOTHING COMPANY, INC., Richmond, Va.
Filed August 4, 1941. Serial No. 445,930. PUBLISHED APRIL 27, 1943. Class 39.

402,243. MEN'S SUITS AND COATS. FRIEDMAN-MARKS CLOTHING COMPANY, INC., Richmond, Va.
Filed August 4, 1941. Serial No. 445,931. PUBLISHED MAY 4, 1943. Class 39.

402,244. SAFETY RAZORS. JUSTIN E. ROSS, doing business as Ross Manufacturing Company, Kansas City, Mo.
Filed August 25, 1941. Serial No. 446,530. PUBLISHED MAY 4, 1943. Class 23.

402,245. FRESH GRAPES. J. E. STANSFIELD, Arvin, Calif.
Filed November 1, 1941. Serial No. 448,342. PUBLISHED MAY 5, 1942. Class 46.

402,246. DOLLY TRUCKS FOR RECEIVING THE WHEEL OF A VEHICLE TO SUPPORT THE LATTER. A. S. CAMPBELL CO., INC., Boston and East Boston, Mass.
Filed December 29, 1941. Serial No. 449,825. PUBLISHED MAY 4, 1943. Class 19.

402,247. VACCINES, SERUMS, AND FERMENTS FOR THE TREATMENT OF HUMAN MALADIES. ENRIQUE LEMOS, Buenos Aires, Argentina.
Filed February 7, 1942. Serial No. 450,836. PUBLISHED APRIL 27, 1943. Class 6.

402,248. PIECE GOODS OF COTTON, RAYON, AND MIXTURES THEREOF; SHEETS, PILLOW CASES, BOLSTER CASES, ETC. J. H. BIRTWISTLE & COMPANY LIMITED, Lancashire, England.
Filed February 25, 1942. Serial No. 451,195. PUBLISHED APRIL 13, 1943. Class 42.

402,249. HAIR NETS. SOLO PRODUCTS CORPORATION, New York, N. Y.
Filed March 7, 1942. Serial No. 451,473. PUBLISHED APRIL 20, 1943. Class 39.

402,250. HAIR PINS, HAIR CURLERS, HAIR WAVERS, HAIR PRESSERS, BARRETTES, HAIR CLASPS, RINGLET CURLERS, AND NON-ELECTRICAL HAIR CURLERS. SOLO PRODUCTS CORPORATION, New York, N. Y.
Filed March 18, 1942. Serial No. 451,923. PUBLISHED MAY 4, 1943. Class 40.

402,251. WATERING CUPS, PANS AND TROUGHS AND FEEDING PANS, TROUGHS AND RECEPTACLES FOR POULTRY AND FARM ANIMALS. JAMES MANUFACTURING COMPANY, Fort Atkinson, Wis.
Filed March 27, 1942. Serial No. 451,934. PUBLISHED MAY 4, 1943. Class 2.

402,252. SERGES AND WOOLLEN AND WORSTED PIECE GOODS, WOOLLEN CLOTHS, AND WORSTED STUFFS. FOX BROTHERS & COMPANY, LIMITED, Wellington, England.
Filed May 11, 1942. Serial No. 452,924. PUBLISHED APRIL 6, 1943. Class 42.

402,253. TYPEWRITERS, CHECK PROTECTORS, BOOK-KEEPING MACHINES, DUPLICATORS, CODE WRITERS, TABULATING MACHINES, BILLING MACHINES, ADDRESSING MACHINES, PARTS THEREOF AND ACCESSORIES THEREFOR. HALDA AKTIEBOLAG, Svangata, Sweden.
Filed May 11, 1942. Serial No. 452,928. PUBLISHED MAY 4, 1943. Class 23.

402,254. AMPLIFIED VOICE TYPE OF INTER-COMMUNICATING EQUIPMENT COMPRISING INTER-OFFICE TELEPHONE COMMUNICATION APPARATUS, ELECTRICAL COMMUNICATION AMPLIFIERS, PUBLIC ADDRESS SYSTEMS, TELEPHONE APPARATUS, PAGING SYSTEMS, MICROPHONES, AND ELECTRIC LOUD SPEAKERS. EXECUTONE, INC., New York, N. Y.
Filed June 15, 1942. Serial No. 453,669. PUBLISHED MAY 4, 1943. Class 21.

402,255. HAMMERS, AXES, HATCHETS, GRINDERS, CHISELS, SCREWDRIVERS, TROWELS, WALL SCRAPERS, HANDSAWS, HACKSAW BLADES, PINCERS, PLIERS, SLEDGE HAMMER, PICK MATTOCK, AND PICKS. OMNI PRODUCTS CORPORATION, New York, N. Y.
Filed June 23, 1942. Serial No. 453,827. PUBLISHED APRIL 20, 1943. Class 23.

402,256. MACHINE TOOL LUBRICANTS FOR METAL CUTTING, GRINDING, HONING, LAPPING, DRAWING, AND STAMPING OF ALL TYPES OF METALS. HERBERT VAN STRAATEN, doing business as Van Straaten Chemical Co., Chicago, Ill.
Filed July 18, 1942. Serial No. 454,320. PUBLISHED MAY 4, 1943. Class 15.

402,257. GRAVITY AND FORCED DRAFT ROOF VENTILATORS. JAMES B. SHAVER, doing business as Powermatic Ventilator Company, Cleveland, Ohio.
Filed July 21, 1942. Serial No. 454,380. PUBLISHED MAY 4, 1943. Class 34.

402,258. HIGH-SPEED METAL CUTTING TOOLS—NAMELY, TWIST DRILLS, REAMERS, TAPS, DIES, GAUGES, FILES, HACKSAWS AND TUNGSTEN CARBIDE TIPPED TOOLS FOR INDUSTRIAL MANUFACTURING USE. THE B-H TOOL AND SUPPLY CO., Detroit, Mich.
Filed July 25, 1942. Serial No. 454,498. PUBLISHED APRIL 27, 1943. Class 23.

402,259. TEXTILE OILS AND TEXTILE OIL BASES, SCOURING OILS AND SCOURING OIL BASES, PLASTICIZING OILS AND PLASTICIZERS, ETC. EMERY INDUSTRIES, INC., Cincinnati, Ohio.
Filed July 30, 1942. Serial No. 454,600. PUBLISHED APRIL 27, 1943. Class 6.

402,260. MOTOR DRIVEN CONCRETE BATCH HAULING AND PLACING VEHICLES. MIXERMOBILE MANUFACTURERS, Portland, Oreg.
Filed August 8, 1942. Serial No. 454,809. PUBLISHED APRIL 20, 1943. Class 23.

402,261. CARPETS AND RUGS. BEN GREENBERG & BROTHER, Chicago, Ill.
Filed August 24, 1942. Serial No. 455,071. PUBLISHED APRIL 20, 1943. Class 42.

402,262. TEA. CONSOLIDATED TEA COMPANY, INC., New York, N. Y.
Filed September 3, 1942. Serial No. 455,296. PUBLISHED MAY 4, 1943. Class 46.

402,263. TONIC AND RECONSTRUCTIVE. CAESAR A. STOPPELLI, doing business under the names Safe Drug Store and Triac Pharmacal Co., New York, N. Y.
Filed September 10, 1942. Serial No. 455,462. PUBLISHED APRIL 27, 1943. Class 6.

402,264. ANHYDROUS TRISODIUM PHOSPHATE. A. R. MAAS CHEMICAL CO., South Gate, Calif.
Filed September 14, 1942. Serial No. 455,512. PUBLISHED APRIL 27, 1943. Class 6.

402,265. FIRE EXTINGUISHING DEVICES. METAL PRODUCTS ENGINEERING, INC., Los Angeles, Calif.
Filed September 19, 1942. Serial No. 455,631. PUBLISHED MAY 4, 1943. Class 23.

402,266. MEDICINAL PRODUCTS FOR USE AS A MEDICINE IN THE MITIGATION AND TREATMENT OF PSORIASIS, CHRONIC ARTHRITIS AND ALLIED CONDITIONS, ETC. CHARLES E. FROSST & Co., Montreal, Quebec, Canada, and Richmond, Va.
Filed September 21, 1942. Serial No. 455,653. PUBLISHED APRIL 27, 1943. Class 6.

402,267. TABLEWARE AND CUTLERY MADE OUT OF BASE METAL, STAINLESS STEEL OR CARBON STEEL—NAMELY, SPOONS, KNIVES, FORKS, BUTCHER KNIVES, PARING KNIVES, SLICING KNIVES, CLEAVERS, COOK FORKS, TABLE KNIVES, AND CARVING SETS. NATIONAL SILVER COMPANY, New York, N. Y.
Filed September 25, 1942. Serial No. 455,761. PUBLISHED APRIL 27, 1943. Class 23.

402,268. WOODEN MALLETS. BREUER ELECTRIC MFG. Co., Chicago, Ill.
Filed October 7, 1942. Serial No. 456,010. PUBLISHED APRIL 20, 1943. Class 23.

402,269. LADIES' AND CHILDREN'S HATS. SALFAIR HATS, New York, N. Y.
Filed October 8, 1942. Serial No. 456,083. PUBLISHED APRIL 27, 1943. Class 39.

402,270. SHOES OF ALL TYPES AND MOCCASINS, MADE OF LEATHER, RUBBER, FABRIC OR ANY COMBINATIONS THEREOF. FRANK CARBONE, Brooklyn, N. Y.
Filed October 14, 1942. Serial No. 456,176. PUBLISHED APRIL 27, 1943. Class 39.

402,271. RAZOR BLADE SHARPENERS. JOHN A. ROYALL, East Boothbay, Maine.
Filed October 22, 1942. Serial No. 456,346. PUBLISHED APRIL 27, 1943. Class 23.

402,272. WATER PIPELINE DISPENSERS OF WATER SOFTENING AND CLEANSING COMPOUNDS FOR DISHWASHING MACHINE AND THE LIKE. ANTISEPTOL COMPANY, INC., Chicago, Ill.
Filed October 26, 1942. Serial No. 456,411. PUBLISHED MAY 4, 1943. Class 13.

402,273. FEEDS FOR LIVESTOCK AND POULTRY, SPECIFICALLY FOR CATTLE, HOGS, CHICKENS, AND TURKEYS. VICTOR C. DEWEIN, Emery, and Forsyth, Ill.
Filed November 7, 1942. Serial No. 456,682. PUBLISHED MAY 4, 1943. Class 46.

402,274. FEEDS FOR LIVESTOCK AND POULTRY, SPECIFICALLY FOR CATTLE, HOGS, CHICKENS AND TURKEYS. VICTOR C. DEWEIN, Emery, and Forsyth, Ill.
Filed November 7, 1942. Serial No. 456,684. PUBLISHED MAY 4, 1943. Class 46.

402,275. LIQUID MEDICINE FOR THE TREATMENT OF ATHLETE'S FOOT. RALPH PADALINO, Elizabeth, N. J.
Filed November 14, 1942. Serial No. 456,829. PUBLISHED APRIL 27, 1943. Class 6.

402,276. ATMOSPHERE CORRECTING GAS CONVERTERS FOR HEAT TREATING FURNACES. GENERAL PROPERTIES COMPANY, INC., Toledo, Ohio.
Filed November 23, 1942. Serial No. 456,983. PUBLISHED MAY 4, 1943. Class 34.

402,277. ASBESTOS BOARDS, ASBESTOS SHEETS, ASBESTOS LUMBER, AND ASBESTOS BUILDING MATERIALS IN FLAT AND SHEET FORM. KEASBEY & MATTISON COMPANY, Ambler, Pa.
Filed November 25, 1942. Serial No. 457,038. PUBLISHED MAY 4, 1943. Class 12.

402,278. EARTH MOVING MACHINE IN THE NATURE OF A SCOOP ADAPTED FOR MOUNTING ON A TRACTOR OR THE LIKE. NEW METHOD EQUIPMENT COMPANY, Indianola, Iowa.
Filed November 25, 1942. Serial No. 457,042. PUBLISHED APRIL 13, 1943. Class 23.

402,279. REFRACTORY BLOCKS AND TILE EMPLOYED FOR THE CONSTRUCTION OF WALLS AND ARCHES, METAL MASONRY HOLDING AND SUPPORTING LUGS, AND FRAMES THEREFOR, AND HEAT INSULATION FOR SAID WALLS AND ARCHES. M. H. DETRICK COMPANY, Chicago, Ill.
Filed November 28, 1942. Serial No. 457,088. PUBLISHED APRIL 13, 1943. Class 12.

402,280. REFRACTORY BLOCKS AND TILE EMPLOYED FOR THE CONSTRUCTION OF WALLS AND ARCHES, METAL MASONRY HOLDING AND SUPPORTING LUGS, AND FRAMES THEREFOR, AND HEAT INSULATION FOR SAID WALLS AND ARCHES. M. H. DETRICK COMPANY, Chicago, Ill.
Filed November 28, 1942. Serial No. 457,089. PUBLISHED APRIL 13, 1943. Class 12.

402,281. STAPLE FIBERS MADE WHOLLY OR PARTIALLY OF CELLULOSE DERIVATIVES. CELANESE CORPORATION OF AMERICA, New York, N. Y.
Filed December 2, 1942. Serial No. 457,166. PUBLISHED MAY 4, 1943. Class 1.

402,282. CHEMICALS FOR USE AS FUNGICIDES. UNITED STATES RUBBER COMPANY, New York, N. Y.
Filed December 4, 1942. Serial No. 457,215. PUBLISHED MAY 4, 1943. Class 6.

402,283. PIECE GOODS MADE OF RAYON, ACETATE RAYON, COTTON, WOOL, OR COMBINATIONS OF THESE MATERIALS. PRESSMAN-GUTMAN CO., Philadelphia, Pa.
Filed December 7, 1942. Serial No. 457,252. PUBLISHED APRIL 27, 1943. Class 42.

402,284. LADIES' TRIMMED HATS. JOHN LUCURELL, Seattle, Wash.
Filed December 14, 1942. Serial No. 457,395. PUBLISHED APRIL 27, 1943. Class 39.

402,285. SHOPPING BASKETS EQUIPPED WITH A HANDLE AND WHEELS. B. C. JARRELL & COMPANY, Humboldt, Tenn.
Filed December 16, 1942. Serial No. 457,438. PUBLISHED MAY 4, 1943. Class 2.

402,286. LADIES' SUITS AND COATS. FAIRMOOR SPORTSWEAR, INC., New York, N. Y.
Filed December 17, 1942. Serial No. 457,466. PUBLISHED APRIL 27, 1943. Class 39.

402,287. LADIES' SUITS AND COATS. FAIRMOOR SPORTSWEAR, INC., New York, N. Y.
Filed December 17, 1942. Serial No. 457,467. PUBLISHED APRIL 27, 1943. Class 39.

402,288. DINNERWARE PIECES OR DINNERWARE SETS MADE OF CROCKERY, EARTHENWARE, OR PORCELAIN. PROMOTIONS, INC., Youngstown, Ohio.
Filed December 18, 1942. Serial No. 457,511. PUBLISHED MAY 4, 1943. Class 30.

402,289. ANTISEPTIC PREPARATION CONTAINING SULFONAMIDE TO BE USED AS AN INHALANT AND MEDICINAL JELLY. ABBOTT LABORATORIES, North Chicago, Ill.
Filed December 23, 1942. Serial No. 457,569. PUBLISHED MAY 4, 1943. Class 6.

402,290. MISSES' AND WOMEN'S SHOES MADE OF LEATHER, FABRIC, AND COMBINATIONS THEREOF. SAKS & COMPANY, New York, N. Y.
Filed December 29, 1942. Serial No. 457,641. PUBLISHED APRIL 20, 1943. Class 39.

402,291. MISSES' AND WOMEN'S SHOES MADE OF LEATHER, FABRIC, AND COMBINATIONS THEREOF. SAKS & COMPANY, New York, N. Y.
Filed December 29, 1942. Serial No. 457,642. PUBLISHED APRIL 20, 1943. Class 39.

402,292. MALTLESS NON-ALCOHOLIC BEVERAGES, SYRUPS, FLAVORS, EXTRACTS, AND CONCENTRATES. ZIMBA BEVERAGE CO., INC., New York, N. Y.
Filed December 30, 1942. Serial No. 457,668. PUBLISHED APRIL 27, 1943. Class 45.

402,293. OINTMENT FOR USE IN TREATING ACHING JOINTS. FRED H. BLANCHARD, Philadelphia, Pa.
Filed January 5, 1943. Serial No. 457,754. PUBLISHED MAY 4, 1943. Class 6.

402,294. PERFUMES AND TOILET WATER. PARFUMS MASSENET, INCORPORATED, New York, N. Y.
Filed January 6, 1943, Serial No. 457,776. PUBLISHED MAY 4, 1943. Class 6.

402,295. DEVICE CONTAINING CHEMICALS FOR USE IN ABSORBING MOISTURE AND AS A DEODORIZER. PURITAN CHEMICAL COMPANY, Atlanta, Ga.
Filed January 6, 1943. Serial No. 457,777. PUBLISHED APRIL 27, 1943. Class 6.

402,296. WOVEN FABRIC IN THE PIECE MADE WHOLLY OR PARTLY OF WOVEN PLASTIC STRANDS AND INTENDED FOR VARIOUS USES AMONG WHICH ARE SHOE UPPERS, HEEL PADS, ETC. DELITE FABRICS, INC., Westerly, R. I.
Filed January 7, 1943. Serial No. 457,790. PUBLISHED APRIL 20, 1943. Class 42.

402,297. CHILDREN'S UNDERWEAR, SWEATERS, AND PANTS. ALPHA MILLS, Schuylkill Haven, Pa.
Filed January 8, 1943. Serial No. 457,802. PUBLISHED MAY 4, 1943. Class 39.

402,298. MOTOR BOATS. THE BRITISH POWER BOAT COMPANY, LTD., Hythe, England.
Filed January 8, 1943. Serial No. 457,804. PUBLISHED MAY 4, 1943. Class 19.

402,299. MOTOR BOATS. THE BRITISH POWER BOAT COMPANY, LTD., Hythe, England.
Filed January 8, 1943. Serial No. 457,805. PUBLISHED MAY 4, 1943. Class 19.

402,300. SMOKING AND CHEWING TOBACCO. JOHN P. LIEBERMAN & Co., Detroit, Mich.
Filed January 11, 1943. Serial No. 457,856. PUBLISHED MARCH 30, 1943. Class 17.

402,301. HOSIERY. ORANGE KNITTING MILLS, INCORPORATED, Orange, Va.
Filed January 11, 1943. Serial No. 457,862. PUBLISHED APRIL 27, 1943. Class 39.

402,302. LADIES', MEN'S, AND CHILDREN'S GLOVES MADE OF LEATHER, FABRIC, OR COMBINATIONS THEREOF. BACMO POSTMAN CORPORATION, New York, N. Y.
Filed January 13, 1943. Serial No. 457,889. PUBLISHED APRIL 20, 1943. Class 39.

402,303. BEDSPREADS, DRESSER SCARFS, FINISHED DRAPERIES, DRAPERY MATERIAL IN THE PIECE, PIECE GOODS OF COTTON, SILK, WOOL, RAYON, AND MIXTURES THEREOF. MARCUS BEDSPREAD & DRAPERY CORP., New York, N. Y.
Filed January 18, 1943. Serial No. 457,982. PUBLISHED APRIL 13, 1943. Class 42.

402,304. LABORATORY REAGENT CHEMICALS—NAMELY, AMMONIUM PERSULFATE, HYDROCHLORIC ACID, HYDROFLUORIC ACID, ETC. FISHER SCIENTIFIC COMPANY, Pittsburgh, Pa.
Filed January 20, 1943. Serial No. 458,035. PUBLISHED APRIL 27, 1943. Class 6.

402,305. COTTON AND/OR RAYON PIECE GOODS. M. LOWENSTEIN & SONS, INC., New York, N. Y.
Filed January 20, 1943. Serial No. 458,041. PUBLISHED APRIL 20, 1943. Class 42.

402,306. GUARDS, BRACKETS, ASSEMBLY MEANS THEREFOR, AND PARTS THEREOF, MORE PARTICULARLY AS ACCESSORIES FOR MACHINES TO PROVIDE USE OF LIGHT TO ADVANTAGE BY MACHINE OPERATORS. THE FOSTORIA PRESSED STEEL CORP., Fostoria, Ohio.
Filed January 22, 1943. Serial No. 458,096. PUBLISHED MAY 4, 1943. Class 23.

402,307. PIN CUSHIONS. R. H. MACY & Co., INC., New York, N. Y.
Filed January 26, 1943. Serial No. 458,180. PUBLISHED APRIL 20, 1943. Class 40.

402,308. MIXTURE OF ARGILLACEOUS AND CARBONACEOUS MATERIALS FOR BLANKETING AND INSULATING PURPOSES IN THE RISERS OF FOUNDRY MOLDS. BARIUM AND CHEMICALS, INC., Willoughby, Ohio.
Filed January 29, 1943. Serial No. 458,218. PUBLISHED MAY 4, 1943. Class 1.

402,309. RAYON YARN. INDUSTRIAL RAYON CORPORATION, Cleveland, Ohio.
Filed January 29, 1943. Serial No. 458,224. PUBLISHED APRIL 20, 1943. Class 43.

402,310. COTTON AND RAYON FABRICS IN THE PIECE. SOULES & SOULES, Los Angeles, Calif.
Filed January 29, 1943. Serial No. 458,230. PUBLISHED APRIL 6, 1943. Class 42.

402,311. COTTON AND RAYON FABRICS IN THE PIECE. SOULES & SOULES, Los Angeles, Calif.
Filed January 29, 1943. Serial No. 458,231. PUBLISHED APRIL 6, 1943. Class 42.

402,312. HOSIERY. UNION MANUFACTURING CO., Frederick, Md.
Filed January 29, 1943. Serial No. 458,234. PUBLISHED MAY 4, 1943. Class 39.

402,313. RAYON, COTTON, WOOL, AND PROTEIN FIBRE FABRICS IN THE PIECE. MANDEE FABRICS, INC., New York, N. Y.
Filed January 30, 1943. Serial No. 458,243. PUBLISHED APRIL 20, 1943. Class 42.

402,314. MOTOR DRIVEN BLOWERS AND EXHAUSTERS FOR VENTILATING PURPOSES. UNITED BLOWER COMPANY, INC., New York, N. Y.
Filed January 30, 1943. Serial No. 458,257. PUBLISHED APRIL 6, 1943. Class 34.

402,315. METAL CUTTING TOOLS: DRILLS, FORM RELIEVED CUTTERS, HOBS, INSERTED BLADE MILLING CUTTERS AND BLADES, ETC. GENESEE TOOL COMPANY, Fenton, Mich.
Filed February 4, 1943. Serial No. 458,330. PUBLISHED MAY 4, 1943. Class 23.

402,316. FERMENTATION BY-PRODUCTS, DRIED, FROM DISTILLERS' GRAINS, SOLUBLES AND MOLASSES WITH RIBOFLAVIN SUPPLEMENT IN DRY FORM, FOR FEED SUPPLEMENT FOR LIVESTOCK AND POULTRY. THE ATLANTIC SUPPLY COMPANY, Baltimore, Md.
Filed February 5, 1943. Serial No. 458,353. PUBLISHED APRIL 27, 1943. Class 46.

402,316. FERMENTATION BY-PRODUCTS, DRIED
NECKWEAR COMPANY, INC., New York, N. Y.
Filed February 5, 1943. Serial No. 458,359. PUBLISHED APRIL 27, 1943. Class 39.

402,318. HYDRAULIC CONTROL VALVES ESPECIALLY DESIGNED FOR USE ON AIRCRAFT. ADEL PRECISION PRODUCTS CORP., Burbank, Calif.
Filed February 9, 1943. Serial No. 458,422. PUBLISHED MAY 4, 1943. Class 13.

402,319. DOUBLERS, CHEESE WINDERS, MAGAZINE CREELS, TENSION, SLUB CATCHING, WAXING, YARN CONDITIONING, ETC. FOSTER MACHINE COMPANY, Westfield, Massachusetts.
Filed February 9, 1943. Serial No. 458,426. PUBLISHED APRIL 13, 1943. Class 23.

402,320. EXTRUDED PLASTIC TUBING FOR ELECTRICAL INSULATION. IRVINGTON VARNISH & INSULATOR CO., Irvington, N. J.
Filed February 9, 1943. Serial No. 458,428. PUBLISHED MAY 4, 1943. Class 21.

402,321. LEATHER. ALBERT TROSTEL & SONS COMPANY, Milwaukee, Wis.
Filed February 9, 1943. Serial No. 458,448. PUBLISHED MAY 4, 1943. Class 1.

402,322. WOMEN'S, MEN'S, AND CHILDREN'S KNITTED OUTERWEAR AND UNDERWEAR GARMENTS CONSISTING OF WOMEN'S AND CHILDREN'S KNITTED FROCKS, JUMPERS, ETC. C. W. ATTENBOROUGH & Co. LIMITED, Leicester, England.
Filed February 10, 1943. Serial No. 458,452. PUBLISHED MAY 4, 1943. Class 39.

402,323. SILHOUETTE MODELS FOR INSTRUCTIONAL USES TO IDENTIFY ACTUAL AEROPLANES AND MATERIAL IN SETS FOR MAKING THE MODELS. CO-OPERATIVE DISPLAYS INC., Cincinnati, Ohio.
Filed February 10, 1943. Serial No. 458,456. PUBLISHED MAY 4, 1943. Class 26.

402,324. COTTON, RAYON, AND/OR SILK PIECE GOODS OR COMBINATIONS THEREOF. COHN-HALL-MARX CO., New York, N. Y.
Filed February 12, 1943. Serial No. 458,490. PUBLISHED APRIL 27, 1943. Class 42.

402,325. ANTACID NEUTRALIZING POWDER. RAY P. HELM, doing business as The Helm Company, Benton Harbor, Mich.
Filed February 12, 1943. Serial No. 458,492. PUBLISHED MAY 4, 1943. Class 6.

402,326. COTTON, RAYON, AND/OR SILK PIECE GOODS OR COMBINATIONS THEREOF. COHN-HALL-MARX CO., New York, N. Y.
Filed February 13, 1943. Serial No. 458,509. PUBLISHED APRIL 20, 1943. Class 42.

402,327. AIRCRAFT—NAMELY, AIRPLANES. BEECH AIRCRAFT CORPORATION, Wichita, Kans.
Filed February 16, 1943. Serial No. 458,563. PUBLISHED MAY 4, 1943. Class 19.

402,328. METAL GRATINGS FOR ASSEMBLY INTO LANDING AND TAKE-OFF MATS FOR AIRCRAFT. IRVING SUBWAY GRATING CO., INC., Long Island City, N. Y.
Filed February 16, 1943. Serial No. 458,570. PUBLISHED MAY 4, 1943. Class 12.

402,329. PHONOGRAPHIC NEEDLES. EVERPOINT NEEDLE COMPANY, New York, N. Y.
Filed February 17, 1943. Serial No. 458,590. PUBLISHED MAY 4, 1943. Class 36.

402,330. BOOTS AND SHOES OF LEATHER, FABRIC, AND/OR COMBINATIONS THEREOF. INTERNATIONAL SHOE CO., St. Louis, Mo.
Filed February 17, 1943. Serial No. 458,593. PUBLISHED APRIL 20, 1943. Class 39.

402,331. BOOTS AND SHOES OF LEATHER AND/OR COMBINATIONS THEREOF. INTERNATIONAL SHOE CO., St. Louis, Mo.
Filed February 17, 1943. Serial No. 458,594. PUBLISHED APRIL 20, 1943. Class 39.

402,332. FLAVORING CONCENTRATE FOR BEVERAGES. ONE-TWO-THREE COMPANY, INC., New York, N. Y.
Filed February 17, 1943. Serial No. 458,599. PUBLISHED MAY 4, 1943. Class 45.

402,333. LADIES' DRESSES. CAROL CRAWFORD, INC., New York, N. Y.
Filed February 20, 1943. Serial No. 458,646. PUBLISHED APRIL 27, 1943. Class 39.

402,334. PROTECTING AGENTS AGAINST FADING USED IN THE FINISHING OF TEXTILE FABRICS. ARKANSAS COMPANY, INC., Newark, N. J.
Filed February 22, 1943. Serial No. 458,675. PUBLISHED APRIL 27, 1943. Class 6.

402,335. LIPSTICK. LUCIEN LELONG INC., Chicago, Ill.
Filed February 22, 1943. Serial No. 458,687. PUBLISHED MAY 4, 1943. Class 6.

402,336. ASBESTOS WICKS FOR OIL-BURNING STOVES AND HEATERS. ATLAS ASBESTOS COMPANY, North Wales, Pa.
Filed February 23, 1943. Serial No. 458,700. PUBLISHED MAY 4, 1943. Class 34.

402,337. METAL PAINTS, BOTH PRIMERS AND FINISHING TYPES. W. P. FULLER & Co., San Francisco, Calif.
Filed February 23, 1943. Serial No. 458,704. PUBLISHED APRIL 13, 1943. Class 16.

402,338. TOY COIN BANKS. RALPH VICTOR MORAN, doing business as Vic Moran, Bradford, Pa.
Filed February 23, 1943. Serial No. 458,709. PUBLISHED MAY 4, 1943. Class 22.

402,339. TOY COIN BANKS. RALPH VICTOR MORAN, doing business as Vic Moran, Bradford, Pa.
Filed February 23, 1943. Serial No. 458,710. PUBLISHED MAY 4, 1943. Class 22.

402,340. MISSES' AND WOMEN'S BLOUSES. ISREAL M. BERNSTEIN, doing business as Boston Blouse Co., Boston, Mass.
Filed February 24, 1943. Serial No. 458,723. PUBLISHED MAY 4, 1943. Class 39.

402,341. NECKTIES. CLUETT, PEABODY & Co., INC., Troy, N. Y.
Filed February 25, 1943. Serial No. 458,751. PUBLISHED APRIL 27, 1943. Class 39.

402,342. CORSETS, GIRDLES, COMBINATION CORSETS AND BRASSIÈRES, AND HOSE SUPPORTERS. THE H. W. GOSSARD Co., Chicago, Ill.
Filed February 26, 1943. Serial No. 458,782. PUBLISHED APRIL 27, 1943. Class 39.

402,343. COTTON YARN. W. C. PLUNKETT & SONS COMPANY, INC., New York, N. Y.
Filed February 26, 1943. Serial No. 458,790. PUBLISHED APRIL 20, 1943. Class 43.

402,344. CREAMED OR SEMI-LIQUID TOOTH-PASTE. LAMBERT PHARMACAL COMPANY, Wilmington, Del.
Filed March 1, 1943. Serial No. 458,842. PUBLISHED MAY 4, 1943. Class 6.

402,345. INSULATING TAPE. RAYBESTOS-MANHATTAN, INC., Passaic, N. J.
Filed March 1, 1943. Serial No. 458,849. PUBLISHED MAY 4, 1943. Class 35.

402,346. CLUTCHES. THE GLEASON WORKS, Rochester, N. Y.
Filed March 2, 1943. Serial No. 458,863. PUBLISHED MAY 4, 1943. Class 23.

402,347. SPECTACLE AND GOGGLE LENSES AND LENS BLANKS. BAUSCH & LOMB OPTICAL COMPANY, Rochester, N. Y.
Filed March 4, 1943. Serial No. 458,888. PUBLISHED MAY 4, 1943. Class 26.

402,348. SPECTACLE AND GOGGLE LENSES AND LENS BLANKS. BAUSCH & LOMB OPTICAL COMPANY, Rochester, N. Y.
Filed March 4, 1943. Serial No. 458,889. PUBLISHED MAY 4, 1943. Class 26.

402,349. SPECTACLE AND GOGGLE LENSES AND LENS BLANKS. BAUSCH & LOMB OPTICAL COMPANY, Rochester, N. Y.
Filed March 4, 1943. Serial No. 458,890. PUBLISHED MAY 4, 1943. Class 26.

402,350. LAUNDRY SOURS, SILICATED ALKALIS CONTAINING SODIUM OXIDE AND SILICA, ALKALIS CONTAINING SODIUM COMPOUNDS, LAUNDRY SODAS, CLEANERS AND CLEANSERS AND LIQUID BLUE FOR USE IN TREATING WATER. DIAMOND ALKALI COMPANY, Pittsburgh, Pa.
Filed March 6, 1943. Serial No. 458,935. PUBLISHED APRIL 27, 1943. Class 6.

402,351. ZINC CHROMATE COMPOUND EXTRUDED MATERIAL IN THE FORM OF A TAPE FOR SEALING TO PREVENT LEAKS, PARTICULARLY IN HIGH ALTITUDE FLIGHTS. PITTSBURGH PLATE GLASS COMPANY, Pittsburgh, Pa.
Filed March 6, 1943. Serial No. 458,948. PUBLISHED MAY 4, 1943. Class 12.

402,352. MATERIALS (IN LIQUID FORM), APPLICABLE TO CONCRETE (OR THE LIKE) FOR PURPOSES (*a*) HARDENING, (*b*) FINISHING, (*c*) WATERPROOFING, (*d*) SEALING, (*e*) ACID-PROOFING, AND/OR (*f*) STAINING THE CONCRETE (OR THE LIKE). A. F. VAN WOLF, doing business as Kedmont Manufacturing & Waterproofing Co., Chicago, Ill.
Filed March 8, 1943. Serial No. 458,978. PUBLISHED MAY 4, 1943. Class 12.

402,353. DIAMOND DRESSING TOOLS. WHEEL TRUING TOOL COMPANY OF DELAWARE, Detroit, Mich.
Filed March 8, 1943. Serial No. 458,979. PUBLISHED APRIL 27, 1943. Class 23.

402,354. MOTION PICTURE APPARATUS—NAMELY, MOTION PICTURE CAMERAS, PARTS THEREOF AND ACCESSORIES THEREFOR. WESTERN ELECTRIC COMPANY, INCORPORATED, New York, N. Y.
Filed March 9, 1943. Serial No. 458,993. PUBLISHED MAY 4, 1943. Class 26.

402,355. PREPARATION FOR EXTERMINATING RODENTS. W. G. REARDON LABORATORIES, INC., Port Chester, N. Y.
Filed March 11, 1943. Serial No. 459,029. PUBLISHED APRIL 27, 1943. Class 6.

402,356. SOFT DRINKS AND FOUNTAIN SYRUPS. B. T. FOOKS MANUFACTURING COMPANY, Camden, Ark.
Filed March 12, 1943. Serial No. 459,045. PUBLISHED APRIL 27, 1943. Class 45.

402,357. SOFT DRINKS AND FOUNTAIN SYRUPS. B. T. FOOKS MANUFACTURING COMPANY, Camden, Ark.
Filed March 12, 1943. Serial No. 459,046. PUBLISHED APRIL 27, 1943. Class 45.

402,358. DEPILATORY. DELETE DISTRIBUTORS, INC., New York, N. Y.
Filed March 13, 1943. Serial No. 459,070. PUBLISHED APRIL 27, 1943. Class 6.

402,359. HACK SAW BLADES. AMERICAN SAW & MFG. COMPANY, Springfield, Mass.
Filed March 15, 1943. Serial No. 459,101. PUBLISHED APRIL 27, 1943. Class 23.

402,360. OIL PUMPS. CHICAGO FLEXIBLE SHAFT COMPANY, Chicago, Ill.
Filed March 15, 1943. Serial No. 459,107. PUBLISHED APRIL 27, 1943. Class 23.

402,361. BEER. MINNEAPOLIS BREWING COMPANY, Minneapolis, Minn.
Filed March 15, 1943. Serial No. 459,123. PUBLISHED MAY 4, 1943. Class 48.

402,362. DISINFECTANT. DR. HESS & CLARK, INC., Ashland, Ohio.
Filed March 16, 1943. Serial No. 459,150. PUBLISHED MAY 4, 1943. Class 6.

402,363. CANNED FRUITS AND VEGETABLES. ROPER BROS., INC., Winter Garden, Fla.
Filed March 18, 1943. Serial No. 459,206. PUBLISHED MAY 4, 1943. Class 46.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

402,364. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) L. F. GRAMMES & SONS, INC., Allentown, Pa. Filed May 15, 1940. Serial No. 431,954.



FOR BASE METAL ETCHED TABLE HOLLOW WARE.
Claims use since Apr. 25, 1940.

402,365. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) HYDRIL COMPANY, Los Angeles, Calif. Filed May 31, 1941. Serial No. 444,082.

TWINBOX

FOR TOOL JOINT MEMBERS.
Claims use since Mar. 1, 1941.

402,366. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) STAUFFER CHEMICAL COMPANY, San Francisco, Calif. Filed Feb. 4, 1942. Serial No. 450,750.

SPEED-SPRAYER

FOR INSECTICIDES AND FUNGICIDES.
Claims use since November 1941.

402,367. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) A. G. SPALDING & BROS. INC., Chicoppee, Mass. Filed Mar. 13, 1942. Serial No. 451,614.

TRU-FACE

FOR GOLF CLUBS.
Claims use since Feb. 1, 1942.

402,368. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHAS. NORTHEN, Tampa, Fla. Filed Mar. 23, 1942. Serial No. 451,846.

VITA-B-MIN

FOR CONCENTRATE OF MINERALS AND VITAMINS FOR USE AS A SUPPLEMENT TO THE DIET.
Claims use since December 1941.

402,369. (CLASS 39. CLOTHING.) WALTER NELKIN, doing business as Frances-Walter Nelkin Co., New York, N. Y. Filed May 21, 1942. Serial No. 453,162.

Change-aband

FOR LADIES' HATS.
Claims use since May 11, 1942.

402,370. (CLASS 39. CLOTHING.) MERIT CLOTHING COMPANY, INC., Mayfield, Ky. Filed May 22, 1942. Serial No. 453,181.

Iron-Tone Worsted

FOR MEN'S AND STUDENTS' OUTER SUITS.
Claims use since Apr. 10, 1942.

402,371. (CLASS 39. CLOTHING.) NEW PROCESS COMPANY, Warren, Pa. Filed May 29, 1942. Serial No. 453,367.

LONGWEAR

FOR RAYON HOSIERY.
Claims use since May 11, 1942.

402,372. (CLASS 39. CLOTHING.) SUPERIOR, INC., Piqua, Ohio. Filed June 9, 1942. Serial No. 453,573.

SAF-T-NIT

FOR WORK SHIRTS.
Claims use since May 15, 1942.

402,373. (CLASS 39. CLOTHING.) MABEL WHITESELL BALBOA, Woodside, N. Y. Filed June 12, 1942. Serial No. 453,606.

KUFOGLOV

FOR GLOVES MADE OF LEATHER, FABRIC AND RUBBER.
Claims use since May 1, 1942.

402,374. (CLASS 39. CLOTHING.) MABEL WHITESELL BOLBOA, Woodside, N. Y. Filed June 12, 1942. Serial No. 453,607.

DUOLINK

DOUBLE DUTY GLOVES

FOR GLOVES MADE OF LEATHER, FABRIC, AND RUBBER.
Claims use since May 1, 1942.

402,375. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PHILTEX FABRICS INC., New York, N. Y. Filed July 1, 1942. Serial No. 453,992.

"SHEER-O-LIGHT"

FOR PIECE GOODS OF SILK, WOOL, COTTON, RAYON, AND MIXTURES OF SILK AND RAYON.
Claims use since April 1942.

402,376. (CLASS 39. CLOTHING.) JOSEPH STEIN, doing business as Joseph Stein Coat Co., New York, N. Y. Filed July 10, 1942. Serial No. 454,153.

Loomed from 100% IMPORTED WOOL by Heather-Brooke TWEED

FOR LADIES' AND MISSES' COATS, SUITS, AND SKIRTS.
Claims use since April 1942.

402,377. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SHEENGLO PRODUCTS COMPANY, San Francisco, Calif. Filed Jan. 2, 1943. Serial No. 457,730.

SHEENGLO

FOR HAIR DRESSING.
Claims use since Aug. 15, 1941.

402,378. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) VALENTINE LABORATORIES, INC., Chicago, Ill. Filed Mar. 8, 1943. Serial No. 458,977.

Olafsen

FOR VITAMIN PREPARATIONS FOR INTERNAL USE FOR TREATMENT OF VITAMIN DEFICIENCY—NAMELY, VITAMIN TABLETS, ABDG VITAMIN CAPSULES, ABDG WITH VITAMIN C CAPSULES, BREWER'S YEAST TABLETS, EMULSION (COD LIVER OIL), HALIBUT LIVER OIL, HALIBUT LIVER OIL WITH VIOSTEROL, HALIBUT LIVER OIL CAPSULES, HALIBUT LIVER OIL CAPSULES WITH VIOSTEROL, THIAMIN CHLORIDE (VIT. B_1) TABLETS, 1 MG.; THIAMIN CHLORIDE (VIT. B_1) TABLETS, 3 MG.; THIAMIN CHLORIDE (VIT. B_1) TABLETS, 5 MG.; THIAMIN CHLORIDE (VIT. B_1) TABLETS, 10 MG.; MALT SYRUP EMULSION OF FISH LIVER OILS WITH VITAMINS A, B, AND D ADDED; VIOSTEROL IN OIL, VITAMIN B_1 WINE ELIXIR, WHEAT GERM OIL (VITAMIN E) CAPSULES, WHEAT GERM OIL (VITAMIN E) LIQUID.

Claims use since Mar. 12, 1941, on vitamin tablets; since Jan. 29, 1936, on ABDG vitamin capsules; since Mar. 6, 1941, on ABDG with vitamin C capsules; since May 14, 1937, on brewer's yeast tablets; since Feb. 1, 1930, on emulsion (cod liver oil); since Feb. 14, 1936, on halibut liver oil; since Sept. 27, 1935, on halibut liver oil with viosterol; since Jan. 30, 1935, on halibut liver oil capsules; since Jan. 29, 1935, on halibut liver oil capsules with viosterol; since May 22, 1941, on thiamin chloride (vit. B_1) tablets, 1 mg.; since May 22, 1941, on thiamin chloride (vit. B_1) tablets, 3 mg.; since May 22, 1941, on thiamin chloride (vit. B_1) tablets, 5 mg.; since May 22, 1941, on thiamin chloride (vit. B_1) tablets, 10 mg.; since Feb. 5, 1936, on malt syrup emulsion of fish liver oils with vitamins A, B, and D added; since Sept. 27, 1935, on viosterol in oil; since May 30, 1940, on vitamin B_1 wine elixir; since Nov. 29, 1938, on wheat germ oil (vitamin E) capsules; and since May 19, 1941, on wheat germ oil (vitamin E) liquid.

402,379. (CLASS 39. CLOTHING.) FRED S. KLAUBER, INC., New York, N. Y. Filed Apr. 8, 1943. Serial No. 459,706.

by KLAUBER

FOR HANDKERCHIEFS AND KERCHIEFS FOR MEN, WOMEN, AND CHILDREN.
Claims use since November 1939.

402,380. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BARRON, ANDERSON COMPANY, Boston, Mass. Filed Apr. 9, 1943. Serial No. 459,722.

New England

FOR WOOLEN AND WORSTED PIECE GOODS.
Claims use since 1927.

402,381. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FOREMAN FABRICS INC., New York, N. Y. Filed Apr. 12, 1943. Serial No. 459,810.

Cartier

FOR WOVEN TEXTILES IN THE PIECE, OF COTTON, RAYON, AND SILK, AND/OR MIXTURES THEREOF.
Claims use since May 19, 1942.

402,382. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FOREMAN FABRICS INC., New York, N. Y. Filed Apr. 12, 1943. Serial No. 459,812.

Specpoint

FOR WOVEN TEXTILES IN THE PIECE, OF COTTON, RAYON, AND SILK, AND/OR MIXTURES THEREOF.
Claims use since Feb. 11, 1942.

402,383. (CLASS 39. CLOTHING.) CORDELL HOSIERY CORPORATION, Greensboro, N. C. Filed Apr. 13, 1943. Serial No. 459,823.

CORDELL
Precision Knit

FOR HOSIERY.
Claims use since Jan. 20, 1940.

402,384. (CLASS 45. BEVERAGES, NONALCOHOLIC.) PETERMANN CO., Union City, N. J. Filed Apr. 16, 1943. Serial No. 459,944.

Petermann

FOR GINGER ALE, CREAM SODA, CLUB SODA, LIME RICKEY SODA, BIRCH BEER, GRAPE SODA, CHERRY SODA, ORANGE SODA, RASPBERRY SODA, COCOA CREAM SODA, ROOT BEER, SARSAPARILLA, AND LEMON SODA, ALL BEING CARBONATED MALTLESS AND NONALCOHOLIC SOFT DRINKS.
Claims use since 1905.

402,385. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CASABLANCA CO., Brooklyn, N. Y. Filed Apr. 21, 1943. Serial No. 460,041.

Casablanca

FOR COSMETIC PREPARATION FOR APPLICATION TO THE SKIN FOR TINTING THE SAME.
Claims use since May 1, 1942.

402,386. (CLASS 39. CLOTHING.) ADAM HAT STORES, INC., New York, N. Y. Filed Apr. 22, 1943. Serial No. 460,081.

LONG'S

FOR MEN'S HATS.
Claims use since May 1, 1922.

402,387. (CLASS 39. CLOTHING.) KLINE'S, INC., St. Louis, Mo. Filed May 3, 1943. Serial No. 460,371.



Sue Williams

FOR CHILDREN'S DRESSES, COATS, AND SUITS.
Claims use since Aug. 1, 1941.

TRADE-MARK REGISTRATIONS RENEWED

23,131. **"NORTH STAR" AND DRAWING.** LARD. Registered May 30, 1893. NORTH PACKING AND PROVISION COMPANY. Boston, Mass. Re-renewed May 30, 1943, to Swift and Company, Chicago, Ill., a corporation of Illinois, assignee by mesne assignments.

23,258. **"CHOICE GROCERY" AND DRAWING.** LARD. Registered June 27, 1893. NORTH PACKING AND PROVISION COMPANY, Boston, Mass. Re-renewed June 27, 1943, to Swift and Company, Chicago, Ill., a corporation of Illinois, assignee by mesne assignments.

23,782. **REPRESENTATION OF A BICYCLE.** PLAYING CARDS. Registered November 7, 1893. THE UNITED STATES PRINTING COMPANY, Cincinnati, Ohio. Re-renewed November 7, 1943, to The United States Playing Card Company, East Norwood, Cincinnati, Ohio, a corporation of Ohio, successor.

167,248. **EVERITE.** SENSITIZED BLUE-PRINT PAPER. Registered April 24, 1923. NEW YORK BLUE PRINT PAPER COMPANY. Renewed April 24, 1943, to Charles Bruning Company, Inc., New York, N. Y., a corporation of New York, by change of name.

168,322. **PARTOLA.** ANTISEPTIC LAXATIVE. Registered May 22, 1923. PARTOLA DISTRIBUTING COMPANY, New York, N. Y. Renewed May 22, 1943, to Partola Products Co., Chicago, Ill., a corporation of Delaware, successor.

168,346. **QUAKER.** EPSOM SALTS, CREAM OF TARTAR, SPIRITS OF CAMPHOR, SWEET SPIRITS OF NITER, CAMPHORATED OIL, GLYCERIN, TINCTURE OF IODINE, ESSENCE OF PEPPERMINT, FOR MEDICINAL PURPOSES, CASTOR OIL, SWEET OIL, WITCH-HAZEL, MEDICATED TURPENTINE, AND CARBOLIC ACID. Registered May 22, 1923. WORDEN GROCER COMPANY, Grand Rapids, Mich. Renewed May 22, 1943, to Lee & Cady, Ferndale, Mich., a corporation of Michigan, assignee.

168,348. **"TORO" AND DRAWING.** SPECIAL PREPARED AGRICULTURAL SULPHUR. Registered May 22, 1923. SAN FRANCISCO SULPHUR CO. Renewed May 22, 1943, to Stauffer Chemical Company, San Francisco, Calif., a corporation of California, assignee.

168,708. **REPRESENTATION OF A CRACKLE FINISH.** ERASERS, LEAD PENCILS, REFILL LEADS, RUBBER BANDS, AND COPYING PENCILS. Registered May 29, 1923. AMERICAN LEAD PENCIL COMPANY, New York, N. Y. Renewed May 29, 1943, to American Lead Pencil Company, Hoboken, N. J., a corporation of New York.

169,991. **GOLDENGATE.** SHEETS AND PILLOWCASES. Registered July 10, 1923. MARSHALL FIELD & COMPANY, Chicago, Ill., a corporation of Illinois. Renewed July 10, 1943.

170,088. **THE LEGION PACKAGE.** CHOCOLATES AND CANDIES. Registered July 10, 1923. E. GREENFIELD'S SONS, New York and Brooklyn, N. Y. Renewed July 10, 1943, to Henry Heide, Incorporated, New York, N. Y., a corporation of New York, by merger.

170,495. **THORO-BRED.** CHOCOLATES AND CANDIES. Registered July 17, 1923. E. GREENFIELD'S SONS, New York and Brooklyn, N. Y. Renewed July 17, 1943, to Henry Heide, Incorporated, New York, N. Y., a corporation of New York, by merger.

171,072. **PULOIL.** SOAPS, PASTES, POWDERS, AND LIQUIDS FOR CLEANING METAL, WOOD, LEATHER, AND CLOTHING. Registered July 31, 1923. DEVOTO Y CAUCHANER. Renewed July 31, 1943, to Devoto & Cauchaner, Buenos Aires, Argentina, an Argentine corporation, successor.

171,582. **IMPERVOBOND.** PLASTIC OR SEMI-PLASTIC CEMENT FOR PROTECTING IRON. Registered August 7, 1923. JAMES B. SIPE & CO., INC., Bridgeville, Pa. Renewed August 7, 1943, to James B. Sipe & Company, Pittsburgh, Pa., a corporation of Delaware.

171,764. **LOW DOWN.** PUMPS. Registered August 14, 1923. THE F. E. MYERS & BRO. CO., Ashland, Ohio, a corporation of Ohio. Renewed August 14, 1943.

172,144. **PLASGON.** CEMENT PACKING FOR JOINTS. Registered August 21, 1923. POLYGON PRODUCTS CO., Boston, Mass., a corporation of Massachusetts. Renewed August 21, 1943.

172,272. **TIMELIMIT.** PRINTING INKS. Registered August 28, 1923. THE QUEEN CITY PRINTING INK COMPANY, Cincinnati, Ohio. Renewed August 28, 1943, to Interchemical Corporation, New York, N. Y., a corporation of Ohio, assignee.

172,294. **H. D.** PRINTING INKS. Registered August 28, 1923. THE QUEEN CITY PRINTING INK COMPANY, Cincinnati, Ohio. Renewed August 28, 1943, to Interchemical Corporation, New York, N. Y., a corporation of Ohio, assignee.

172,295. **SPEEDLIMIT.** PRINTING INKS. Registered August 28, 1923. THE QUEEN CITY PRINTING INK COMPANY, Cincinnati, Ohio. Renewed August 28, 1943, to Interchemical Corporation, New York, N. Y., a corporation of Ohio, assignee.

172,405. **"H R VELVETTA" AND DRAWING.** LEATHER. Registered August 28, 1923. HUNT-RANKIN LEATHER CO., Boston, Mass., a corporation of Massachusetts. Renewed August 28, 1943.

172,436. **"A PLEDGE" AND DRAWING.** WHEAT FLOUR. Registered August 28, 1923. THE MIDLAND FLOUR MILLING CO., Kansas City, Mo. Renewed August 28, 1943, to The Midland Flour Milling Co., North Kansas City, Mo., a corporation of Kansas.

172,728. **WAMPOLE'S HYPNO-BROMIC COMP.** HYPNOTIC MEDICINES. Registered September 11, 1923. HENRY K. WAMPOLE AND COMPANY, INCORPORATED, Philadelphia, Pa., a corporation of Pennsylvania. Renewed September 11, 1943.

172,732. **"TREASURETTE" AND DRAWING.** ROUGE AND POWDER. Registered September 11, 1923. FLORENCE N. LEWIS, doing business as Elizabeth Arden. Renewed September 11, 1943, to Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware, assignee.

172,747. **"FRIEND'S" AND DRAWING.** BREAD, CAKE, PIES, CANNED PUDDINGS, CANNED MINCEMEAT, CANNED BROWN BREAD, CANNED BAKED BEANS, CANNED SALAD DRESSING, CANNED CORN AND OTHER VEGETABLES, CANNED CRANBERRIES, BLUEBERRIES, AND OTHER BERRIES. Registered September 11, 1923. FRIEND BROTHERS. Renewed September 11, 1943, to Friend Brothers Inc., Melrose, Mass., a corporation of Massachusetts, assignee.

172,839. **COLUMBIAN.** COAL, WOOD, AND GAS COOKING AND HEATING STOVES AND RANGES, COAL-BURNING FURNACES, AND GAS AND COAL HOT-WATER HEATERS. Registered September 11, 1923. THE KEELEY STOVE COMPANY, Columbia, Pa., a corporation of Pennsylvania. Renewed September 11, 1943.

172,947. **PUPPILAC.** MILK FOOD IN POWDER FORM FOR DOGS AND CATS. Registered September 11, 1923. SPRATT'S PATENT LIMITED, London, England, a corporation of Great Britain. Renewed September 11, 1943.

173,020. **REPRESENTATION OF A LOOM.** WOOLEN HOMESPUN TEXTILE FABRICS IN THE PIECE. Registered September 11, 1923. GROVE PARK INN, INC., doing business as Biltmore Industries. Renewed September 11, 1943, to Biltmore Industries, Inc., Asheville, N. C., a corporation of North Carolina, by change of name.

173,050. **DYKEM.** COAL-TAR DYES, COLORS, AND INTERMEDIATES. Registered September 11, 1923. DYESTUFFS & CHEMICALS, INCORPORATED, St. Louis, Mo., a corporation of Missouri. Renewed September 11, 1943.

173,207. **"ACE" IN REPRESENTATION OF A DIAMOND.** KNIFE AND EDGE-TOOL SHARPENING MACHINES. Registered September 18, 1923. ACE HARDWARE MANUFACTURING CORPORATION. Renewed September 18, 1943, to Ace Manufacturing Corporation, Philadelphia, Pa., a corporation of Pennsylvania, by change of name.

173,469. **"SINCLAIR" AND DRAWING.** REFINED, SEMIREFINED, AND UNREFINED OILS MADE FROM PETROLEUM, BOTH WITH AND WITHOUT ADMIXTURE OF ANIMAL, VEGETABLE, OR MINERAL OILS, FOR ILLUMINATING, BURNING, POWER, FUEL AND LUBRICATING PURPOSES. Registered September 25, 1923. SINCLAIR REFINING COMPANY, Chicago, Ill. Renewed September 25, 1943, to Sinclair Refining Company, New York, N. Y., a corporation of Maine.

173,602. **PRESIDENT.** GARTERS. Registered October 2, 1923. PRESIDENT SUSPENDER COMPANY. Renewed October 2, 1943, to President Suspender Company (of 1936), Shirley, Mass., a corporation of Massachusetts, assignee.

173,754. **KLENGON.** PREPARATION FOR CLEANING FABRIC, LEATHER AND WOODWORK, AND FOR DISSOLVING AND REMOVING THEREFROM TAR, GREASE, OIL, GUMS, AND OTHER DISCOLORATIONS AND STAIN. Registered October 2, 1923. POLYGON PRODUCTS CO., Boston, Mass., a corporation of Massachusetts. Renewed October 2, 1943.

174,110. **COOLFUT.** BOOTS AND SHOES OF KID, CANVAS, AND LEATHER. Registered October 2, 1923. THE JUVENILE SHOE CORPORATION OF AMERICA, Carthage, Mo. Renewed October 2, 1943, to The Juvenile Shoe Corporation of America, Aurora and St. Louis, Mo., a corporation of Missouri.

174,207. **"SOFDOWN" AND DRAWING.** TOILET PAPER. Registered October 9, 1923. THE PEERLESS MFG. COMPANY, Norristown, Pa. Renewed October 9, 1943, to The Peerless Paper Mills, Inc., Oaks, Pa., a corporation of Pennsylvania, successor.

174,283. **ADHERO.** PRIMER PAINT FOR METAL SURFACES. Registered October 9, 1923. JAMES B. SIPE & COMPANY, Pittsburgh, Pa., a corporation of Delaware. Renewed October 9, 1943.

174,284. **"DURA ALBA" AND DRAWING.** PASTE PAINT. Registered October 9, 1923. JAMES B. SIPE & COMPANY, Pittsburgh, Pa., a corporation of Delaware. Renewed October 9, 1943.

174,285. **DRYFLEX.** PAINT OIL TO BE ADDED TO PAINT. Registered October 9, 1923. JAMES B. SIPE & COMPANY, Pittsburgh, Pa., a corporation of Delaware. Renewed October 9, 1943.

174,347. **SOLETEX.** HOSIERY. Registered October 16, 1923. PERCEY FRIEDLANDER AND ALBERT SOLOMON. Renewed October 16, 1943, to The Hosiery Mills Company, Chicago, Ill., a firm, successor.

174,359. **GOLDEN CHURN.** COLORING MATTER FOR BUTTER. Registered October 16, 1923. DYESTUFFS & CHEMICALS, INCORPORATED, St. Louis, Mo., a corporation of Missouri. Renewed October 16, 1943.

174,368. **RUBICON.** SHAMPOO, SCALP OIL, DANDRUFF OINTMENT, HAIR OIL, AND SKIN LOTION. Registered October 16, 1923. HALL, THRALLS & CO. Renewed October 16, 1943, to Luna H. Thralls, doing business as Hall, Thralls & Co., Hymera, Ind., successor.

174,469. **IROQUOIS.** FIRE WAGONS, SURFACE HEATERS, STATIONARY MELTING KETTLES, AND PORTABLE MELTING KETTLES. Registered October 16, 1923. THE BARBER ASPHALT COMPANY, Philadelphia, Pa. Renewed October 16, 1943, to Lancaster Iron Works, Inc., Lancaster, Pa., a corporation of Pennsylvania, assignee by mesne assignments.

174,470. **COLORMIX.** PREPARATIONS INTENDED TO BE INCORPORATED WITH OR APPLIED TO MORTAR, CEMENT, CONCRETE ARTIFICIAL STONE, AND THE LIKE FOR THE PURPOSE OF COLORING, TEMPERING, HARDENING DENSIFYING, FROSTPROOFING, AND CONTROLLING THE SETTING. Registered October 16, 1923. THE MASTER BUILDERS COMPANY, Cleveland, Ohio, a corporation of Ohio. Renewed October 16, 1943.

174,510. **SUNEX.** PREPARATION FOR THE PREVENTION AND TREATMENT OF SUNBURN. Registered October 16, 1923. ABBOTT LABORATORIES, Chicago, Ill. Renewed October 16, 1943, to Abbott Laboratories, North Chicago, Ill.

174,584. **KLINGRITE.** LADIES' AND MISSES' COATS AND SUITS. Registered October 23, 1923. ZIESER & KLING. Renewed October 23, 1943, to Zieser & Kling, Inc., St. Louis, Mo., a corporation of Missouri, assignee.

174,684. **DERNGOOD.** COFFEE. Registered October 23, 1923. THE DERN FOOD COMPANY. Renewed October 23, 1923, to The Dern Company, Colorado Springs, Colo., a corporation of Colorado, by change of name.

174,732. **BOBAN.** TEA. Registered October 23, 1923. KELLY, DOUGLAS & CO. LIMITED, Vancouver, Canada, a corporation of British Columbia. Renewed October 23, 1943.

174,778. **LUSTROIL.** POLISH FOR RESTORING THE FINISH OF MUSICAL INSTRUMENTS. Registered October 23, 1923. JOS. NICOMEDE, trading as Nicomede Music Company, Altoona, Pa. Renewed October 23, 1943.

175,095. **BUTESIN.** BUTYL AMINOBENZOATE (A LOCAL ANAESTHETIC). Registered October 30, 1923. ABBOTT LABORATORIES, Chicago, Ill. Renewed October 30, 1943, to Abbott Laboratories, North Chicago, Ill., a corporation of Illinois.

175,133. **CAPCOSS.** MEDICINAL PREPARATION FOR THE TREATMENT OF RHEUMATIC, NEURITIC, AND SCIATIC AFFECTIONS, MYALGIA, NEURALGIA, LUMBAGO, HEADACHE, MIGRAINE, COLDS, AND LA GRIPPE. Registered October 30, 1923. THE CAPCOSS CO., INC. Renewed October 30, 1943, to Rives S. Brown, Martinsville, Va., successor.

175,284. **"THE UNIQUE" AND DRAWING.** TOILET PAPER AND PAPER TOWELS. Registered November 6, 1923. ALBANY PERFORATED WRAPPING PAPER CO. Renewed November 6, 1943, to A. P. W. Paper Company, Inc., Albany, N. Y., a corporation of New York, by change of name.

175,290. **"EAGLE" AND DRAWING.** FILES AND RASPS. Registered November 6, 1923. NICHOLSON FILE COMPANY, Providence, R. I., a corporation of Rhode Island. Renewed November 6, 1943.

175,331. **BLUE BAY.** CANNED FISH, FRUITS, AND VEGETABLES. Registered November 6, 1923. R. E. COTTER CO., San Francisco, Calif. Renewed November 6, 1943, to Monterey Canning Co., Monterey, Calif., a corporation of California, assignee.

175,360. **MESSENGER BOYS.** CANDIES. Registered November 6, 1923. STEPHEN F. WHITMAN & SON, INC., Philadelphia, Pa., a corporation of Pennsylvania. Renewed November 6, 1943.

175,366. **FANKTRED.** EXCAVATING, ELEVATING, AND CONVEYING MACHINERY. Registered November 6, 1923. THE JEFFREY MANUFACTURING COMPANY, Columbus, Ohio, a corporation of Ohio. Renewed November 6, 1943.

175,424. **THE PORTRAIT OF JOHN DAVEY.** CHEMICAL COMPOSITION OF MATTER FOR DRESSING TREE WOUNDS. Registered November 6, 1923. THE DAVEY TREE EXPERT COMPANY, Kent, Ohio, a corporation of Ohio. Renewed November 6, 1943.

175,531. **WILKUT.** CUTTING AND COOLING OILS AND OILING COMPOSITIONS ADAPTED TO BE USED DURING THE MACHINING OF METAL AND FOR LUBRICATING SPINDLE CHAMBERS ON FULLY AUTOMATIC MACHINES, PNEUMATIC TOOLS, AND PNEUMATIC COMPRESSORS. Registered November 6, 1923. UNION PETROLEUM COMPANY, Philadelphia, Pa. Renewed November 6, 1943, to Sinclair Refining Company, New York, N. Y., a corporation of Maine, assignee.

175,571. **VAH-DAH.** TOILET CREAMS AND ASTRINGENTS. Registered November 6, 1923. KATHLEEN MARY QUINLAN. Renewed November 6, 1943, to Kathleen Mary Quinlan, Inc., New York, N. Y., a corporation of Delaware, assignee.

175,737. **MELLOWIT.** BASE OR FILLER FOR CANDY. Registered November 13, 1923. WHITE-STOKES COMPANY, INC., Chicago, Ill., a corporation of Delaware. Renewed November 13, 1943.

175,783. **"C COLUMBIAN" AND DRAWING.** COAL, WOOD, AND GAS COOKING AND HEATING STOVES AND RANGES, COAL-BURNING FURNACES, AND GAS AND COAL HOT-WATER HEATERS. Registered November 13, 1923. THE KEELEY STOVE COMPANY, Columbia, Pa., a corporation of Pennsylvania. Renewed November 13, 1943.

175,806. **REMINGTON.** PLAYER PIANOS, PHONOGRAPHS, AND RECORDS FOR PHONOGRAPHS. Registered November 13, 1923. THE STARR PIANO COMPANY, INC., Richmond, Ind., a corporation of Indiana. Renewed November 13, 1943.

175,809. **"BECO" AND DRAWING.** CERTAIN NAMED SHOWER AND BATHROOM FIXTURES AND ACCESSORIES AND OTHER ARTICLES OF HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES. Registered November 13, 1923. MARTIN BEHRER, doing business as Behrer & Company. Renewed November 13, 1943, to Behrer-Mason Company, Inc., New York, N. Y., a corporation of New York, assignee.

175,824. **MIDGETEA.** MATZOTHS. Registered November 13, 1923. A. GOODMAN & SONS, INC., New York, N. Y., a corporation of New York. Renewed November 13, 1943.

175,826. **MEMOKRAFT.** MONUMENTAL BLOCKS OF GRANITE. Registered November 13, 1923. PHILLIPS & SLACK, INC., Northfield, Vt. Renewed November 13, 1943, to Rock of Ages Corporation, Barre, Vt., a corporation of Vermont, assignee.

175,879. **AUROLESE.** INSTRUMENTS FOR AIDING THE HEARING. Registered November 13, 1923. F. CHARLES REIN & SON, AMERICA, INC., New York, N. Y., a corporation of New York. Renewed November 13, 1943.

175,916. **"LANE STANDARD" AND DRAWING.** CEDAR CHESTS. Registered November 13, 1923. THE LANE COMPANY, INC., Altavista, Va., a corporation of Virginia. Renewed November 13, 1943.

175,918. **"HILL" AND DRAWING.** CLOTHES DRIERS, BALCONY CLOTHES DRIERS, YARD CLOTHES DRIERS, KITCHEN CLOTHES DRIERS, CABINET CLOTHES DRIERS. Registered November 13, 1923. HILL CLOTHES DRYER CO., Worcester, Mass. Renewed November 13, 1943, to Moulton Ladder Manufacturing Co., Somerville, Mass., a corporation of Massachusetts, assignee.

175,922. **PELICAN.** LUMBER, LATHS, MOLDINGS, SIDINGS. Registered November 13, 1923. PELICAN BAY LUMBER COMPANY, Klamath Falls, Oreg., a corporation of Oregon. Renewed November 13, 1943.

175,997. **KARMA.** ELECTRIC RESISTANCE MATERIALS—NAMELY, WIRES, RODS, STRIPS, AND RIBBONS. Registered November 13, 1923. THE ELECTRICAL ALLOY COMPANY, Morristown, N. J. Renewed November 13, 1943, to Driver-Harris Company, Harrison, N. J., a corporation of New Jersey, assignee.

176,037. **BETHLEHEM.** METAL VALVES FOR MAINS AND PIPES. Registered November 13, 1923. BETHLEHEM STEEL COMPANY. Renewed November 13, 1943, to Bethlehem Steel Company, Bethlehem, Pa., a corporation of Pennsylvania, by merger.

176,115. **SUNSIDE.** FRESH LEMONS. Registered November 20, 1923. SANTA PAULA CITROUS FRUIT ASSOCIATION, Santa Paula, Calif. Renewed November 20, 1943.

176,124. **FIVE TOE FITTER.** BOOTS, SHOES, AND SLIPPERS OF LEATHER, RUBBER, FELT, SILK, CLOTH, OR OTHER FABRIC CONSTRUCTION. Registered November 20, 1923. THOMAS G. PLANT COMPANY, Boston, Mass. Renewed November 20, 1943, to International Shoe Company, St. Louis, Mo., a corporation of Delaware, assignee by mesne assignments.

176,126. **WHITMAN'S.** CERTAIN NAMED CHOCOLATE AND COCOA, MARSHMALLOW WHIP, BUTTER-SCOTCH DRESSING, HOT-CHOCOLATE FUDGE SAUCE, CHOCOLATE CAKE ICING. Registered November 20, 1923. STEPHEN F. WHITMAN & SON, INC., Philadelphia, Pa., a corporation of Pennsylvania. Renewed November 20, 1943.

176,136. **HISTORICAL.** NECKTIES, CRAVATES, AND SCARFS. Registered November 20, 1923. FRANC-STROHMENGER & COWAN, INC., New York, N. Y. Renewed November 20, 1943, to Franc-Strohmenger & Cowan, Inc., Troy, N. Y., a corporation of New York, assignee.

176,139. **REPRESENTATION OF A RAILWAY TRAIN.** CIGARS. Registered November 20, 1923. S. S. PIERCE CO., Boston, Mass., a corporation of Massachusetts. Renewed November 20, 1943.

176,161. **CLEAN RITE.** TOOTH BRUSHES. Registered November 20, 1923. PARK & TILFORD, New York, N. Y., a corporation of New York. Renewed November 20, 1943.

176,187. **"THE EAGLE NEST HATCHERY" AND DRAWING.** LIVE CHICKS. Registered November 20, 1923. HENRY LITTLE & SONS, doing business as The Eagle Nest Hatchery. Renewed November 20, 1943, to The Eagle Nest Hatchery Company, Upper Sandusky, Ohio, a corporation of Ohio, assignee.

176,199. **VITA-YEAST.** FOOD TONIC AND GENERAL STIMULANT TO CELL METABOLISM, PUT UP IN TABLET AND GRANULAR FORM. Registered November 20, 1923. THE DRUG PRODUCTS CO. INC., Long Island City, N. Y. Renewed November 20, 1943, to Yeast-Vite (U. S. A.) Inc., Bloomfield, N. J., a corporation of New York, assignee by mesne assignments.

176,201. **PATRICIAN.** BED SHEETS, PILLOWCASES, BED-SPREADS, TABLE LINENS, TOWELS, MADE FROM COTTON FIBER, LINEN FIBER, OR A COMBINATION OF THOSE FIBERS. Registered November 20, 1923. MOSSE, INCORPORATED, New York, N. Y., a corporation of New York. Renewed November 20, 1943.

176,215. **SUPERKREME.** SEMIPREPARED FONDANT AND BASE IN CANDY AND ICE CREAM, A TOPPING FOR ICE-CREAM SUNDAES, AND ICING AND FILLER FOR PASTRY. Registered November 20, 1923. WHITE-STOKES COMPANY, INC., Chicago, Ill., a corporation of Delaware. Renewed November 20, 1943.

176,220. **"DESTE" AND DRAWING.** FACE POWDERS, ROUGES. Registered November 20, 1923. PRESTON STURGES, Brooklyn, N. Y. Renewed November 20, 1943, to Preston Sturges, Hollywood, Calif.

176,225. **IODEX.** PESSARIES FOR VAGINAL DISEASES AND DISORDERS, SUPPOSITORIES FOR RECTAL DISEASES AND DISORDERS, AND A PREPARATION OF LIQUID IODINE. Registered November 20, 1923. MENLEY & JAMES, LIMITED, New York, N. Y., a corporation of New York. Renewed November 20, 1943.

176,227. **LAX-MEL.** CASTOR OIL FOR MEDICINAL PURPOSES. Registered November 20, 1923. BERRY, DEMOVILLE & CO., Nashville, Tenn. Renewed November 20, 1943, to McKesson & Robbins, Incorporated, New York, N. Y., a corporation of Maryland, assignee by mesne assignments.

176,245. **BIENVENIDA.** HOSIERY. Registered November 20, 1923. RICHMOND HOSIERY MILLS, Rossville, Ga., a corporation of Georgia. Renewed November 20, 1943.

176,255. **SEAMONT.** MEN'S DRESS, NEGLIGEE, AND WORK SHIRTS. Registered November 20, 1923. W. T. GRANT COMPANY, Lynn, Mass., and New York, N. Y. Renewed November 20, 1943, to W. T. Grant Company, New York, N. Y., a corporation of Delaware, assignee.

176,274. **"NATURAL BRIDGE ARCH-SAVER" AND DRAWING.** SHOES OF LEATHER AND COMBINATION OF RUBBER AND LEATHER AND LEATHER AND FABRIC. Registered November 20, 1923. CRADDOCK-TERRY CO. Renewed November 20, 1943, to Craddock-Terry Shoe Corporation, Lynchburg, Va., a corporation of Virginia, assignee.

176,290. **EUCHAZONE.** DEODORIZING FLUID. Registered November 20, 1923. THE SELIG COMPANY, INC., Atlanta, Ga., a corporation of Georgia. Renewed November 20, 1943.

176,291. **PIRATOL.** DISINFECTANT. Registered November 20, 1923. THE SELIG COMPANY, INC., Atlanta, Ga., a corporation of Georgia. Renewed November 20, 1943.

176,294. **SALTERSOD.** PREPARATION FOR THE TREATMENT OF INFLUENZA. Registered November 20, 1923. JAMES G. MILLS, doing business as Saltersod Company, Electra, Tex. Renewed November 20, 1943, to J. G. Mills, Houston, Tex.

176,296. **STEROLIN.** DISINFECTANT. Registered November 20, 1923. THE SELIG COMPANY, INC., Atlanta, Ga., a corporation of Georgia. Renewed November 20, 1943.

176,322. **SEDISCO.** DISINFECTANT. Registered November 20, 1923. THE SELIG COMPANY, INC., Atlanta, Ga., a corporation of Georgia. Renewed November 20, 1943.

22,345

PROCESS FOR LOCATING VALUABLE SUBTERRANEAN DEPOSITS

Ludwig W. Blau, Houston, Tex., assignor to Standard Oil Development Company, a corporation of Delaware

Original No. 2,269,889, dated January 13, 1942, Serial No. 258,811, February 27, 1939. Application for reissue August 20, 1942, Serial No. 455,512

11 Claims. (Cl. 23—230)

1. A method of prospecting for petroleum deposits which comprises collecting samples of soil at spaced points along the surface over an area under investigation, and examining said samples for the determination of the presence therein of a product of the action of hydrocarbon-consuming bacteria on hydrocarbons.

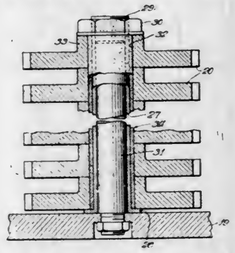
22,346

METHOD OF CARBURIZING

Ernest F. Davis, Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois

Original No. 2,275,133, dated March 3, 1942, Serial No. 312,020, January 2, 1940. Application for reissue April 30, 1942, Serial No. 441,147

3 Claims. (Cl. 148—14)



1. The steps in the method of carburizing articles of steel having a bore, said articles being stacked together so that their bores collectively form a chamber, which method includes: introducing into the said chamber a mixture of comminuted iron and iron oxide in the proportion of 80 to 25% iron and 20 to 75% iron oxide, providing closure means closing said chamber, and maintaining such mixture in contact with the surfaces of the bores while passing the articles through a carburizing atmosphere.

22,347

SECONDARY ETHERS OF POLYHYDRIC ALCOHOLS

Theodore W. Evans, Berkeley, and Edwin F. Bullard, Oakland, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Original No. 2,197,467, dated April 16, 1940, Serial No. 190,028, February 11, 1938, which is a division of Serial No. 115,636, December 12, 1936. Application for reissue November 29, 1940, Serial No. 367,794

8 Claims. (Cl. 260—615)

1. An etherified aliphatic trihydric alcohol, only two hydroxy groups of which have been substituted by the alkoxy groups of aliphatic secondary alcohols, one of said alkoxy groups containing at least six carbon atoms.

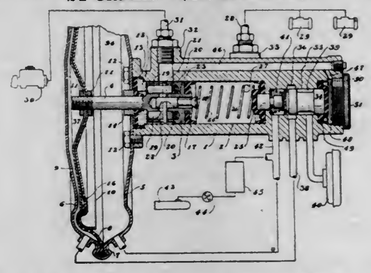
22,348

HYDRAULIC BRAKE BOOSTER

Berteli Stelzer, now by marriage Berteli Stelzer Shattock, St. Petersburg, Fla., assignor to William Stelzer, Detroit, Mich.

Original No. 2,260,490, dated October 28, 1941, Serial No. 281,375, June 27, 1939. Application for reissue October 20, 1942, Serial No. 462,774

24 Claims. (Cl. 188—152)



1. In a hydraulic braking system for a vehicle having wheels, a master cylinder, wheel cylinders, a pressure booster to augment the hydraulic pressure in said wheel cylinders, fluid transmission means from said master cylinder to said pressure booster and from the latter to said wheel cylinders, a source of power to operate said pressure booster, valve means to direct power to said pressure booster, said valve means comprising a pair of relatively movable parts and being responsive to the hydraulic pressure produced by said master cylinder and the boosted hydraulic pressure in said wheel cylinders, whereby the hydraulic fluid from the master cylinder acts directly on one side of said valve means and the hydraulic fluid from the wheel cylinders acts directly on the other side of said valve means, and yielding means urging the parts of said valve means to a given relative position to cause said valve means to lock the power in said pressure booster under certain conditions.

22,349

BOOSTER FOR HYDRAULIC BRAKING SYSTEMS

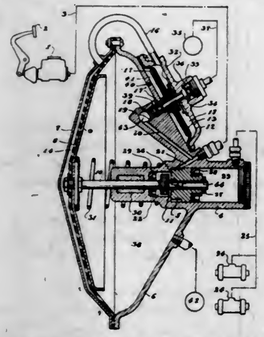
Berteli Stelzer, now by marriage Berteli Stelzer Shattock, St. Petersburg, Fla., assignor to William Stelzer, Detroit, Mich.

Original No. 2,260,492, dated October 28, 1941, Serial No. 308,367, December 9, 1939. Application for reissue October 20, 1942, Serial No. 462,775

12 Claims. (Cl. 188—152)

1. In a hydraulic braking system having a master cylinder to produce a primary pressure, and wheel cylinders to be actuated by a secondary pressure, a fluid pressure line connected to the master cylinder, and a fluid pressure line connected to the wheel cylinders, a pressure booster comprising a pressure increasing device having a primary pressure side communicating

with the first named fluid pressure line and a secondary pressure side communicating with the second named fluid pressure line, a differential fluid pressure motor to actuate said pressure increasing device, said pressure booster being constructed and arranged to utilize pressure in the master cylinder for performing part of the work to apply the brakes while said secondary pressure is higher than said primary pressure, control valve means for said motor, means responsive to said primary pressure to actuate said control valve means to connect said motor to a source of pressure differential, and means directly responsive to differential pressures in opposite ends of said motor to oppose said last named means, to tend to reduce differential pressures in said motor, said pressure booster forming a self-contained unit wholly separate from the master cylinder and the wheel cylinders and connected thereto solely by said fluid pressure lines, said pressure booster being so constructed as to afford communication between said secondary pressure side and said primary pressure side when pressure in the latter is higher than in said secondary pressure side.



PLANT PATENTS

GRANTED JULY 13, 1943

594
ROSE PLANT
Charles Mallerin, Varces, France, assignor to The Conard-Pyle Company, West Grove, Pa.
Application January 19, 1943, Serial No. 472,889
1 Claim. (Cl. 47—61)

A new and distinct variety of rose plant, characterized as to novelty by its vigor of growth, the form and color of the bud, and the size, number of petals and the purity of the white color of its flowers, substantially as shown and described.

595
ROSE PLANT
Charles Mallerin, Varces, France, assignor to The Conard-Pyle Company, West Grove, Pa.
Application January 19, 1943, Serial No. 472,890
1 Claim. (Cl. 47—61)

A new and distinct variety of rose plant, characterized as to novelty by general habits of growth, hardiness, color and form of flowers throughout their different stages of development, and color combination of foliage, substantially as shown and described.

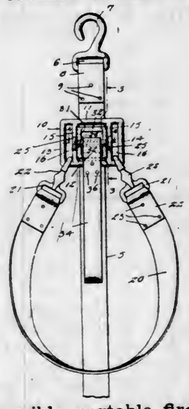
596
ROSE PLANT
Charles Mallerin, Varces, par Pont de Claix, France, assignor to The Conard-Pyle Company, West Grove, Pa.
Application January 19, 1943, Serial No. 472,892
1 Claim. (Cl. 47—61)

A new and distinct variety of hybrid tea rose plant characterized as to novelty by its habits of growth and form, and the novel color combination of its blooms in their various stages of development, substantially as shown and described.

PATENTS

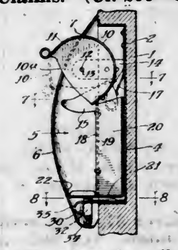
GRANTED JULY 13, 1943

2,323,883
PORTABLE FIRE ESCAPE
Edward T. Wiley, Auburn, N. Y.
Application February 17, 1943, Serial No. 476,232
3 Claims. (Cl. 227—35)



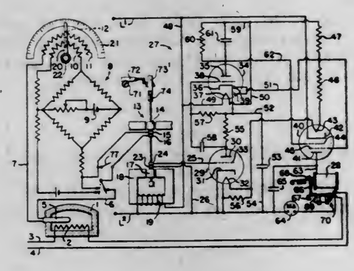
1. In a reversible portable fire escape of the character described, a webbing having an anchor hook at each end thereof, a rectangular brake frame having side and end bars, an intermediate bar parallel with each end bar adjacent the latter, a center bar between the intermediate bars, a brake bar at each side of the center bar, a brake lever comprising a pair of side arms, a cross bar at corresponding ends thereof for attachment of a hand strap, an ear extending outwardly of each intermediate bar, a pivot pin extending between the ears upon which the other ends of the side arms are pivotally mounted, opposite extensions on the side arms at the pivoted ends thereof, a brake bar extending between corresponding ends of the opposite extensions for co-operation with the brake bars of the brake frame and a body harness including a strap having a fastener element at each end engageable with the brake frame between the end and adjacent intermediate bars.

2,323,884
ASH HANDLING DEVICE
Carl H. Will, Winnetka, and Benjamin F. Monroe, Chicago, Ill., assignors to Tropic-Aire, Incorporated, Chicago, Ill., a corporation of Delaware
Application May 3, 1940, Serial No. 333,106
14 Claims. (Cl. 206—19.5)



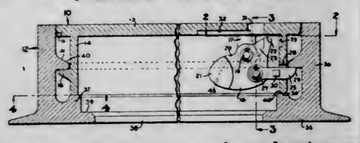
6. A device of the class described, comprising a base section, a dump receptacle having a front wall having an opening, means connecting the receptacle to the base so that the former can move to dumping position, a segmental tubular tray having end walls, and means pivoting the end walls on the base to be partly disposed within and movable through the opening as it moves to dumping position, a catch on the base arranged laterally of an end wall of the tray so that when the tray is in receiving position an end wall of the tray prevents sight of and access to the catch, said catch acting to releasably hold the receptacle in receiving position, said tray being so disposed in relation to the catch and the opening that it must be moved a predetermined distance in dumping direction to allow access for release of the catch by passing the finger through the opening, said tray having a portion engageable by a portion of the dumping receptacle to prevent full opening of that receptacle following release of the catch, unless said tray has been moved substantially to full dumping position.

2,323,885
MEASURING AND CONTROL APPARATUS
Walter P. Wills, Philadelphia, Pa., assignor to The Brown Instrument Company, Philadelphia, Pa., a corporation of Pennsylvania
Original application June 22, 1938, Serial No. 215,127. Divided and this application May 14, 1941, Serial No. 393,469
5 Claims. (Cl. 179—171)



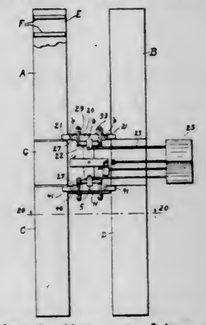
1. Means for amplifying a voltage including a plurality of electron discharge devices, each of said devices having an input circuit and an output circuit, means to apply said voltage to be amplified on the input circuit of one of said devices, a source of direct current voltage for energizing said one device, means to apply said direct current voltage on the output circuit of said one device, a connection between the output circuit of said one device and the input circuit of a second one of said devices, a condenser in the output circuit of said second mentioned device, a resistor connected across said condenser, means connecting at least a portion of said resistor to the input circuit of a third one of said devices, a source of alternating voltage for energizing said second and third mentioned devices, and means to apply said alternating voltage to the output circuits of said second and third mentioned devices.

2,323,886
MANHOLE COVER
Herman Wirz, Jr., Los Angeles, Calif.
Application March 21, 1941, Serial No. 384,513
6 Claims. (Cl. 220—57)



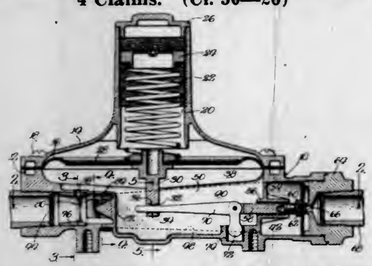
1. In a manhole cover, a base having an upwardly extending outer annular flange thereon, said base having an inner annular flange spaced from and shorter than the outer annular flange, said outer flange having an inwardly extending annular flange intermediate its height, said inwardly extending flange having a downwardly inclined upper surface, a cover having a downwardly extending flange spaced from the outer edge thereof and receivable within said inwardly directed flange and resting upon the said inner flange, said cover having a short lip normally arranged beneath said inwardly directed annular flange on one side thereof, a pair of spaced lugs depending from said cover, a pivot pin supported by said lugs, and a weight member pivotally engaging said pin, an outwardly directed dog pivotally attached to said weight member adjacent the bottom thereof, said cover flange having a slot therein, said dog passing through said slot and being normally arranged beneath said inwardly extending flange, said dog having bosses thereon to limit the movement of the dog into the slot, said weight member including a portion disposed to urge said dog outwardly, said cover having a hole therethrough and said weight member having a tip portion remote from the weight portion and disposed beneath said hole, said cover having an elongated removing tool receiving recess in the lower surface thereof and extending from said hole, said weight member being relieved at each side thereof at a location beneath said hole, the top of said weight member having a tool receiving groove therein.

2,323,887
BRAKE TESTING MACHINE FOR MOTOR VEHICLES
Henry Wochner, Rock Island, Ill.
Application November 8, 1940, Serial No. 364,863
7 Claims. (Cl. 73—51)



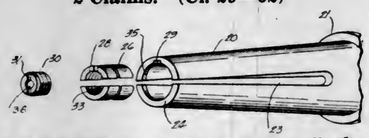
1. In a brake testing machine, a casing, a gauge mounted therein provided with a rotatable shaft and pointer thereon, gearing in said casing operatively connected with said shaft, including a slidable bar having ratchet teeth thereon at both ends, a lock-bar having teeth at both ends engageable with said ratchet teeth, to lock the slidable bar at either end of its movement, a release lever for said lock bar, means for imparting a reciprocating movement to said slidable bar, and means for actuating said release lever.

2,323,888
PRESSURE REGULATOR
Harold B. Wright, Marshalltown, Iowa, assignor to Fisher Governor Company, Marshalltown, Iowa, a corporation of Iowa
Application June 16, 1941, Serial No. 398,313
4 Claims. (Cl. 50—26)



3. In a fluid flow control device, a body member, a fluid passage through said body member, a valve in said passage, a pressure operated diaphragm, a diaphragm chamber in said body, having one side thereof closed by said diaphragm, a walled cavity opening into said chamber, the walls of said cavity extending into and bifurcating said passage, actuating means for said valve extending through a wall of said cavity, an operative connection between said diaphragm and said actuating means, and pressure transmitting means extending from said fluid passage to said diaphragm chamber.

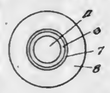
2,323,889
STOCK PUSHER
George F. Zezula, Commerce, Mich.
Application September 18, 1942, Serial No. 459,066
2 Claims. (Cl. 29—62)



1. A stock pusher of the kind described, comprising a cylindrical shell of resilient metal, said shell being provided, at one end, with an external thread as a means of connecting it operatively to a pusher tube, and being split, at the other end, into opposing members by a plurality of slots extending a part of the length of said shell, separate pads threaded on the inner surface for the inner side of each end of said opposing members, and a removable cylindrical insert, held between said pads under the tension of said members, said insert being provided with a central hole for admission of stock.

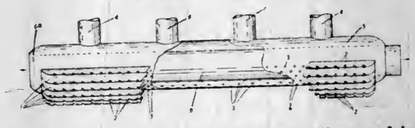
2,323,890
COATED WIRE
Orville E. Adler, Niles, Mich., assignor to National-Standard Company, a corporation of Michigan
Application March 31, 1939, Serial No. 265,115
4 Claims. (Cl. 204—35)

1. A copper coated article comprising a ferrous metal wire, a coating of a corrosion resistant metal of the class consisting of zinc, cadmium, lead and tin on the wire, said coating having a thickness between approximately 0.00004 and 0.0001 inch, a thin copper coating thereon having a thickness of less than approximately $\frac{1}{60000}$ inch and not less than $\frac{1}{400000}$ inch, the wire and



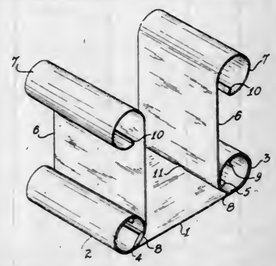
coatings having been substantially reduced in cross sectional area by drawing through a die, and the resulting wire having a corrosion resistance markedly greater than an undrawn wire having the same thickness of the metal of the class consisting of zinc, cadmium, lead and tin.

2,323,891
SILENCER
Joseph George Blanchard, London, England, assignor of one-half to Cecil Gordon Vokes, London, England
Application October 9, 1940, Serial No. 360,488
In Great Britain October 13, 1939
4 Claims. (Cl. 181—60)



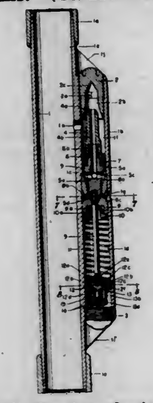
1. A silencer for aircraft and other vehicles, including an expansion chamber formed with a plurality of rows of perforations through its wall, and an outwardly-directed ridge open to each row of perforations, each ridge having apertures at its crown and otherwise closed against escape of the gases, the ridges being arranged in the direction of air flow in the use of the silencer and the imperforate walls of the ridges insuring an uninterrupted cooling of the ridge incident to such air flow.

2,323,892
HOLDER FOR NAPKINS, ETC.
Carrie M. Bricker, Cleveland, Ohio
Application August 15, 1941, Serial No. 407,090
6 Claims. (Cl. 211—42)



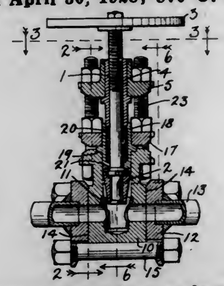
1. A holder comprising a base member and end members extending upwardly from the ends of said base member, said base and end members having frictionally engaged substantially cylindrical end portions of sheet material, the one within the other, and said end members being adjustable about the axis of said interengaged cylindrical portions so as to vary the angle of said end members with respect to said base member.

2,323,893
STAGE LIFT FLOW DEVICE
Alexander Boynton, San Antonio, Tex.
Application December 8, 1939, Serial No. 308,315
4 Claims. (Cl. 137—111)



1. In a stage lift flowing device the combination of, a valve housing, a valve chamber in said housing, said chamber having an inlet and an outlet leading to the interior and exterior of the valve housing, opposed metering chambers in said valve chamber, each of said metering chambers comprising an inwardly tapering bore having an annular seat at the inner end thereof, and a valve assembly movable in the valve chamber, said valve assembly including opposed valve members having an enlargement therebetween, said enlargement having peripheral slots to pass fluid thereabout, said valve members extending into the metering chambers and simultaneously entering into and withdrawing from their respective metering chambers to admit pressure fluid through the valve chamber as the valve assembly moves from variations in the pressure differential between the interior and exterior of the valve housing.

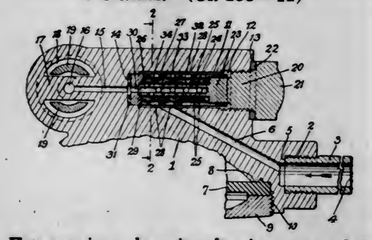
2,323,894
VALVE
Frank David Butler, United States Navy
Application July 20, 1942, Serial No. 451,653
3 Claims. (Cl. 251—155)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a pressure line stop angle valve for use in connection with a flanged pressure pipe line and having a flanged bonnet with a partly threaded valve stem extending through a packing or stuffing box in said bonnet, the combination therewith of a main body portion having no flange opposite said bonnet end and constructed to be secured between said flanged bonnet and one of

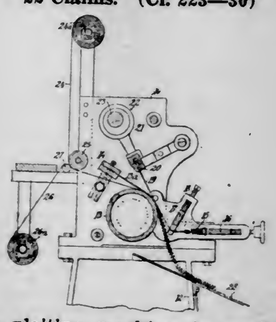
the flanges of said flanged pressure pipe line with a plurality of (preferably three) elongated stud-bolts which latter extend beyond said flanged bonnet and form a means of supporting a combined partly threaded yoke and packing gland for said valve stem and a means of adjusting said gland either towards or away from said stuffing box.

2,323,895
HEAT DISSIPATING ASSEMBLY
William C. Buttner, Winnetka, Ill., assignor to The Bastian-Blessing Company, Chicago, Ill., a corporation of Illinois
Application July 15, 1940, Serial No. 345,653
6 Claims. (Cl. 138—41)



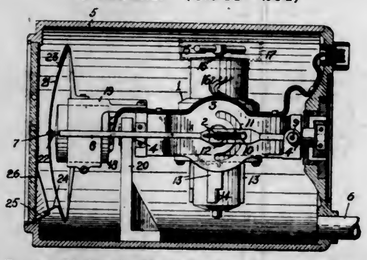
6. For use in a housing having a conduit terminating at one end in a port and through which oxygen flows to the port under pressures at which oxygen is normally stored, said housing having a chamber larger in diameter than the conduit and through which the oxygen flows before reaching the port, a device for dampening the effect of sudden surges of oxygen approaching the port through the chamber comprising a fitting insertable into the chamber and engaging the housing in sealed relationship including a body member engaging the housing in sealed relationship, and a laterally perforated tubular element supported in the chamber, a heat absorbing medium around said tubular element and a sleeve member disposed around said medium to hold it in place on the tubular member and having openings through its side walls, the outer dimension of said sleeve member being appreciably less than the size of the chamber to provide a space between the wall of the chamber and the outer face of the sleeve member.

2,323,896
SELECTIVE PLAITING MACHINE
John J. Cahill, New York, N. Y., assignor to Mutual Machine Company, New York, N. Y., a copartnership
Application November 6, 1940, Serial No. 364,558
22 Claims. (Cl. 223—30)



1. In a plaiting machine, in combination, a non-feeding roller over which material to be plaited is adapted to pass, a plaiting knife cooperating therewith for engaging and feeding said material and for plaiting the same by the action of the relative movement of the knife across a portion of the surface of said roller, and a mechanism for selectively, intermittently rotating said roller whereby to vary the relative movement between said knife and roller and thereby to vary the character of the plaiting operation.

2,323,897
FLIGHT INDICATOR
Leslie F. Carter, Leonia, N. J., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a corporation of New York
Application September 28, 1940, Serial No. 358,890
8 Claims. (Cl. 33—204)



1. In a flight indicator for aircraft having a normally vertical window, a gimbal ring mounted gyro-vertical behind said window, a horizon indicator controlled by said gyro-vertical and visible through said window to indicate roll and pitch of the craft, a normally vertical substantially flat compass card mounted behind said indicator and also visible through said window, thereby forming a background for said indicator, an electric repeater motor for turning said card, an electric transmitter mounted on said gyro-vertical for actuating said repeater motor, and a magnetic compass needle on the shaft of said transmitter whereby said needle is stabilized by said gyro-vertical.

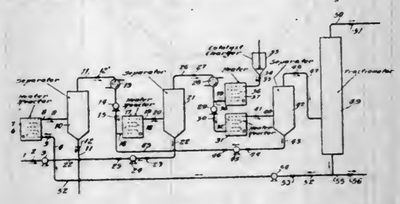
2,323,898
UREA-ALDEHYDE-HALOGENATED ACETONE CONDENSATION PRODUCT
Gaetano F. D'Alelio, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
No Drawing. Application August 9, 1939, Serial No. 289,276
13 Claims. (Cl. 260—42)

1. A composition of matter comprising an alcohol-modified condensation product of ingredients comprising a urea, an aliphatic aldehyde and a halogenated acetone.

2,323,899
CATALYTIC CRACKING
Roland B. Day and Elmer R. Kanhofer, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application November 22, 1940, Serial No. 366,732
10 Claims. (Cl. 196—52)

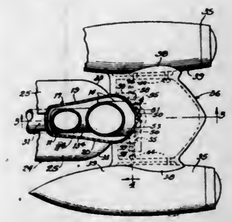
1. A process for converting hydrocarbon oil into substantial yields of valuable products including high antiknock gasoline which comprises treating said hydrocarbon oil in a primary cracking step together with liquid reaction products of catalytic cracking containing partially spent

powdered cracking catalyst from a secondary cracking step as hereinafter described, under conditions of temperature and pressure adequate to effect substantial catalytic cracking thereof, separating the reaction products into a vaporous portion and a residue containing spent catalyst in suspension, withdrawing said residue and recovering and reactivating said spent catalyst, supplying said vaporous portion of reaction products together with a liquid portion of reaction products containing partially spent catalyst from a tertiary reaction step produced as hereinafter described to a secondary cracking step, treating the mixture under conditions of temperature and pressure adequate to effect substantial conversion to gasoline and gas, separating the reaction



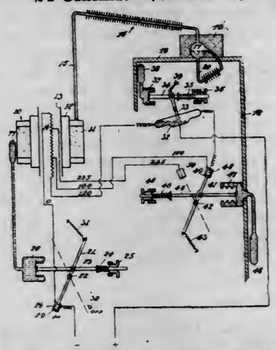
products into a vaporous portion and a liquid portion containing partially spent catalyst in suspension, supplying said liquid portion to said primary cracking step as previously set forth, passing said vaporous portion together with fresh powdered cracking catalyst to a tertiary cracking step under conditions of temperature and pressure adequate to effect substantial catalytic cracking thereof, separating the reaction products into a vaporous portion and a liquid portion containing said catalyst in suspension, supplying said liquid products to said secondary cracking step as previously set forth, supplying said vaporous products to a fractionation step, separating and recovering gasoline and gas and withdrawing a portion of the insufficiently converted oil.

2,323,900
LAMP MOUNTING FOR BICYCLES
Lawrence E. Dempsey, Oak Park, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York
Application July 29, 1940, Serial No. 348,157
9 Claims. (Cl. 280—289)



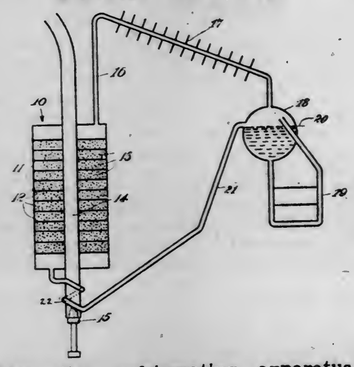
1. A cycle comprising a frame, a tank supported thereby, a battery in said tank, a steering post sleeve shroud on said frame and adjacent said tank, an electrically operated accessory wired to said battery, a bracket outside of said shroud and on which said accessory is mounted, and means under said bracket and securing said bracket to said shroud, said means being disposed outside of said bracket for ready manipulation by the user, the wiring being concealed by said tank, shroud, and bracket.

2,323,901
CONTROL SYSTEM FOR REFRIGERATING APPARATUS
Nils Erland af Kleen, Stockholm, Sweden
Application February 24, 1941, Serial No. 380,330
24 Claims. (Cl. 62—5)



3. In absorption refrigerating apparatus operating to cool an enclosed space and the like and including refrigerant generating means adapted to be heated; the combination with heating means for said generating means; of means responsive to the temperature in the space being cooled for regulating the heat between a fixed value and a variable value, and separate means responsive to the temperature outside the space being cooled determining the value of said variant.

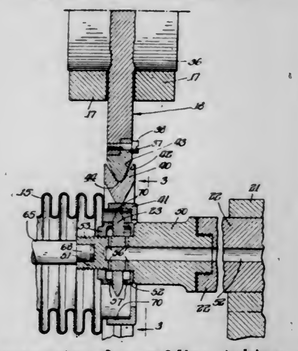
2,323,902
ABSORPTION OR ADSORPTION REFRIGERATING APPARATUS
Nils Erland af Kleen, Stockholm, Sweden
Original application July 16, 1937, Serial No. 154,090. Divided and this application April 16, 1941, Serial No. 388,763. In Great Britain July 23, 1936
2 Claims. (Cl. 62—118)



1. Absorption refrigerating apparatus embodying a combined generating and absorbing element containing dry salts, a condensing element, an evaporating element, and conduit means connecting said elements together to form a closed system for the circulation of a refrigerant, means for supplying a predetermined amount of heat to said combined generating and absorbing element for the generation of refrigerant vapors, the quantity of refrigerant generated by the said predetermined amount of heat being less than the total quantity of refrig-

erant initially charged to the system and absorbed by the dry salts, and a conduit connected to said evaporating element for the overflow of surplus liquid refrigerant delivered to said evaporating element by an excess supply of heat to said combined generating and absorbing element, said conduit extending downwardly from said evaporating element and being connected to the bottom of said combined generating and absorbing element, said conduit having a portion of length intermediate said evaporating element and said combined generating and absorbing element disposed between said heat supplying means and said combined generating and absorbing element and arranged in direct heat transfer relation with said heat supplying means, whereby the surplus liquid refrigerant is vaporized and the excess supply of heat is dissipated to prevent overheating of said combined generating and absorbing element.

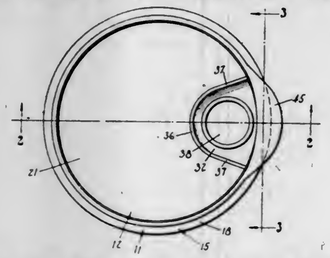
2,323,903
WELDING METHOD AND APPARATUS
David Wendell Fentress, Evanston, Ill., assignor to Chicago Metal Hose Corporation, Maywood, Ill., a corporation of Illinois
Application December 24, 1941, Serial No. 424,366
14 Claims. (Cl. 219—6)



1. An apparatus for welding tubing and like circular work pieces, comprising an inner rotatable electrode adapted to be arranged within the tubing to be welded, an outer rotatable electrode member adapted to be arranged externally of the tubing, said outer electrode member being annular in form and adapted to be arranged in embracing relation to the tubing, means for bringing the electrodes into operative contact with the work, means for rotating the electrodes, and means for passing electric current between the electrodes during the rotation thereof whereby to effect the welding operation.

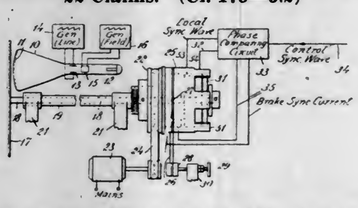
2,323,904
CONTAINER
Nelson Geertsen, Chicago, Ill., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application September 14, 1939, Serial No. 294,966
3 Claims. (Cl. 221—23)

1. A friction plug cover container, comprising a body member having a friction ring secured thereto, said ring having a depending inner wall constituting a friction seat, a countersunk wall friction plug cover having an outer flange terminating in an inner peripheral wall disposed in frictional engagement with said seat to close the container, said cover countersunk wall having a dispensing opening therein defined by a depending cover friction wall and surrounded by an integral depressed cover panel section separated from the cover countersunk wall by an integral substantially U-shaped raised ridge bead merging at its spaced outer ends into the peripheral wall of said cover, and an inclined pouring spout



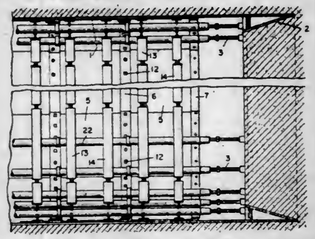
formed integrally with said cover and disposed between the outer ends of said raised ridge bead, said spout merging at its inner end into said cover peripheral wall to communicate with said depressed panel section surrounding said opening, the outer end of said spout lying within the plane of said cover flange to facilitate stacking of the closed containers one upon the other.

2,323,905
TELEVISION
Peter C. Goldmark, New Canaan, Conn., assignor to Columbia Broadcasting System, Inc., New York, N. Y., a corporation of New York
Application October 23, 1941, Serial No. 416,232
22 Claims. (Cl. 178—5.2)



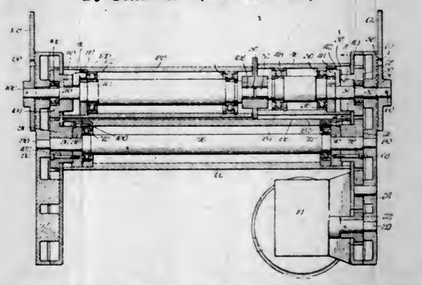
1. In a color television receiver for receiving a color video signal successive portions of which represent different color aspects of an object field and accompanying synchronizing signals, said receiver having a rotatable color filter element for presenting images corresponding to said successive portions in their respective colors, apparatus for synchronizing the rotation of the color filter element with successive images which comprises an asynchronous motor coupled to said rotatable filter element and tending to drive the element over synchronous speed, a friction brake rotor of magnetic material coupled to said rotatable filter element, a stator mounted coaxially with said friction brake rotor and adapted to frictionally engage therewith, said stator having a magnetic circuit completed through the brake rotor and a brake energizing coil positioned to produce flux therein, a generator rotor of magnetic material axially spaced from the brake rotor, said stator having a magnetic circuit completed through the generator rotor and a generator coil positioned to encircle flux therein, said brake and generator magnetic circuits having a common path of low reluctance positioned to prevent the production of substantial flux between stator and brake rotor by the generator coil and between the stator and generator rotor by the brake coil, said generator rotor and stator being adapted to generate a local synchronizing wave in the generator coil of the frequency of said synchronizing signals when the filter element rotates at synchronous speed, means for comparing the phases of said local synchronizing wave and said received synchronizing signals and yielding a rectified output current whose magnitude varies in accordance with the difference in said phases, said brake energizing coil being connected to receive the direct current component of said rectified output current, and means for substantially preventing the alternating current component of said rectified output current from flowing in said coil.

2,323,906
TUNNEL LINER
George O. Harm, Warren, Ohio, assignor to The Johnston & Jennings Company, Cleveland, Ohio, a corporation of Ohio
Application October 2, 1939, Serial No. 297,517
4 Claims. (Cl. 61—45)



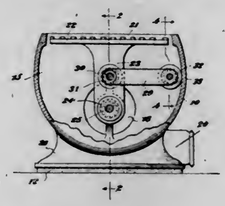
1. A tunnel liner unit comprising a curved panel member, the marginal curved edge portions of said panel member being inwardly offset from the outer surface thereof, one of said marginal portions being offset a greater distance inwardly than the other, such distance being substantially equal to the thickness of said panel member.

2,323,907
CRUST ROLLER
Lloyd J. Harriss, Kenilworth, and Bernard Lambers, Oak Park, Ill.; said Lambers assignor to said Harriss
Application October 8, 1941, Serial No. 414,066
10 Claims. (Cl. 107—12)



1. A mechanism of the type described comprising a driving member and a driven member eccentrically mounted with respect to each other, means operatively associated therewith for moving the driven member around the axis of the driving member while keeping the driving member in the same position, and means operatively associated with both members for maintaining the driving relationship between them while said driven member is being moved around the axis of the driving member.

2,323,908
ERASER CLEANER
Fred L. Hennefer, Salt Lake City, Utah
Application February 19, 1941, Serial No. 379,669
1 Claim. (Cl. 15—12)

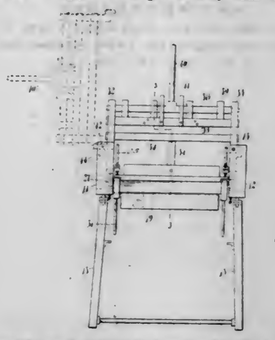


An eraser cleaner of the class described comprising a casing having an eraser cleaning chamber formed therein, said casing having an eraser receiving opening in the upper end thereof into which opening an eraser to be cleaned is adapted to be fitted, said opening communicating with said cleaning chamber, an eraser cleaning element mounted within said opening and inset with respect to the outer end thereof for contacting an eraser placed within said opening for cleaning the eraser, the cleaning element and opening being substantially rectangular in shape, a supporting arm engaging the cleaning element and extending inwardly of the cleaning chamber, an eccentric shaft engaging the inner end of said supporting arm and extending transversely of the cleaning chamber and located inwardly relative to the open outer end of said chamber, means for driving said eccentric shaft for reciprocating said cleaning element in a manner whereby the cleaning element will beat against an eraser placed within said eraser receiving opening, a second transverse shaft journaled upon said supporting arm and interposed between said cleaning element and said eccentric shaft, said shafts extending in substantially parallel alignment, parallel bracing links journaled at their inner ends to said second transverse shaft and extending laterally of said supporting arm, and means for journalling the opposite ends of said links to the casing near one side of said chamber for holding said supporting arm against undue swaying movement and holding said cleaning element at all times out of contact with the side walls of said open outer end to facilitate free movement of the cleaning element during the operation of said cleaning element.

2,323,909
MACHINE FOR FLATTENING SHEET METAL ARTICLES
Frederick William Houlston, Toronto, Ontario, Canada
Application April 10, 1942, Serial No. 438,414
In Canada October 17, 1941
3 Claims. (Cl. 153—48)

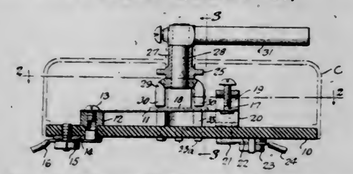
1. In a machine of the class described, a frame, a pair of end plates mounted vertically thereon in spaced relation, a lower clamp bar extending between and supported by said end plates, an upper clamp bar arranged over said lower clamp bar, means on the end plates for guiding said upper clamp bar bodily to and away from said lower clamp bar, spring means exerting an upward stress on said upper clamp bar, a shaft surmounting said clamp bars and journalled in said end plates, a series of spaced cams on said shaft having eccentric faces for depressing said upper clamp bar, a handle for turning said shaft,

and a brace supported pivotally on said frame



between said end plates for swinging upwardly to engage and brace said lower clamp bar.

2,323,910
MAGNETIC SWITCH
Harvey Hubbell, Long Hill, Conn.
Application March 19, 1942, Serial No. 435,375
9 Claims. (Cl. 200—87)

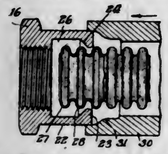


1. An electric switch comprising a movable contact, an armature connected therewith, a magnet mounted for movement to and from a position over the armature to shift and release it to operate the contact, and a stationary armature at one side of the first armature over which the magnet moves as it is shifted from the first armature, both armatures being always spaced from the magnet.

2,323,911
PROCESS FOR THE MANUFACTURE OF $\Delta^{4,5}$-ANDROSTENOL - 17 - ONES-3 CONTAINING AN UNSATURATED SIDE-CHAIN IN 17-POSITION AND DERIVATIVES THEREOF
Hans Herloff Inhoffen, Berlin-Wilmersdorf, Walter Hohlweg, Hohen-Neuendorf, near Berlin, and Willy Logemann, Berlin-Charlottenburg, Germany, assignors to Schering Corporation, Bloomfield, N. J., a corporation of New Jersey
No Drawing. Application November 19, 1938, Serial No. 241,466. In Germany November 27, 1937
11 Claims. (Cl. 260—397.4)

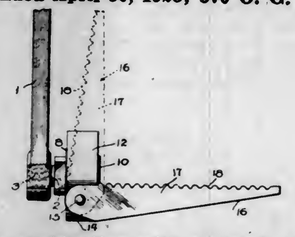
1. Process of producing unsaturated ketones of the cyclopentano polyhydrophenanthrene series comprising subjecting a member of the group consisting of a $\Delta^{5,6}$ androstendiol-3,17 having an unsaturated side chain of two carbon atoms attached to the 17-carbon and a 17-derivative thereof in which the hydroxyl group is substituted by a group convertible with the aid of hydrolysis into the hydroxyl group, to the action of a carbonyl-containing compound of the class consisting of aldehydes and ketones in the presence of a member of the group consisting of aluminum secondary alcoholates and magnesium secondary alcoholates.

2,323,912
COUPLING CONSTRUCTION
Axel Fredrick Johnson, Chicago, Ill., assignor to Chicago Metal Hose Corporation, Maywood, Ill., a corporation of Illinois
Application April 30, 1940, Serial No. 332,486
9 Claims. (Cl. 285—72)



1. A coupling for attachment on flexible annularly corrugated metal tubing comprising a coupling body having integral annularly arranged wall portions forming a cavity for the reception of an end of corrugated tubing, said annular wall portions having inwardly extending annular lip means formed thereon for engaging corrugated tubing between adjacent corrugations thereof, said wall portions being sufficiently bendable to permit the same to be contracted upon the end of corrugated tubing in said cavity whereby to crimp said lip means in a corrugation of the tubing to secure the coupling in place thereon.

2,323,913
FOLDING PEDAL
William B. Johnson, United States Army, Baltimore, Md.
Application February 27, 1942, Serial No. 432,588
9 Claims. (Cl. 74—594.7)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

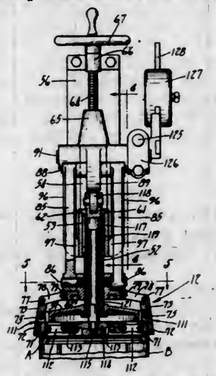


1. The combination with a crank arm of a folding pedal comprising, a spindle mounted in the crank arm, a separate ball bearing mounted on the spindle, a foot piece supporting cage having vertically arranged offset portions mounted on the ball bearing, a washer monuted on a spindle adapted to secure the parts in place and a folding foot piece pivotally mounted on the cage adapted to rest against said washer in its upper folded position and against said cage in its lower extended position, as and for the purpose specified.

2,323,914
CAN CLOSING MACHINE
Warren D. Jordan and Henry N. Mondloch, Waukegan, Ill., assignors to American Can Company, New York, N. Y., a corporation of New Jersey
Application June 27, 1940, Serial No. 342,784
4 Claims. (Cl. 153—1)

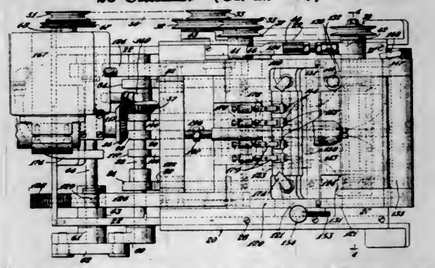
1. A can closing machine for securing cover parts to can bodies, comprising in combination, a support for the can body, a stationary bearing adjacent said support, a sleeve in said bearing and movable toward and away from said support in the direction of the longitudinal axis of the

can body, a clinching head on said sleeve and carrying pivotally mounted clinching elements operable upon movement of the sleeve toward the support for clinching a cover part to an end of the can body, means for bodily moving said sleeve and said clinching head towards said support, and a stop element on said sleeve and en-



gageable with said bearing for limiting the travel of the head toward the support and for retaining the head in spaced relation to the can body during the clinching operation, whereby to protect the can body against endwise pressure exerted in the direction of the longitudinal axis of said can body.

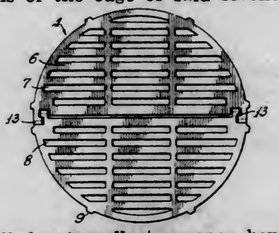
2,323,915
FLAP SPLITTING MACHINE
Jacob S. Kamborian, West Newton, Mass.
Application June 24, 1941, Serial No. 399,468
25 Claims. (Cl. 12—17)



1. A machine of the class described comprising a table on which the sole to be treated rests, a frame reciprocable over said table longitudinally of the sole resting thereon, and heel flap splitting, adhesive applying and buffing instrumentalities carried by said frame, said buffing and said flap splitting instrumentalities acting during the travel of the frame in one direction and said adhesive applying instrumentality acting during the travel of the frame in the opposite direction.

2,323,916
GRATE
Harry P. Katz, Cleveland, Ohio
Application September 25, 1940, Serial No. 358,257
1 Claim. (Cl. 126—152)

The combination, in a grate comprising two approximately identical sections, each having one straight edge, projecting arms on the straight edge of one of said sections, said arms having the outermost edge thereof bevelled outwardly, recesses in the straight edge of the other of said sections located so as to correspond to the said projections on said first mentioned section and shaped to receive the same, the innermost edges of the recesses being undercut to mate with the bevelled ends of said projections, at least one portion of the straight edge of said first named section being undercut on a bevel and corresponding portions of the edge of said second section



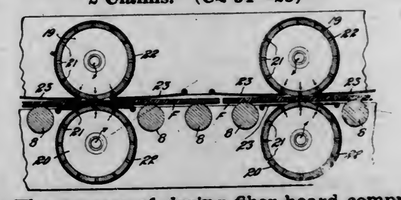
being bevelled outwardly to engage beneath the beforementioned corresponding undercut, projections extending laterally from said arms with corresponding depressions in said recesses to prevent horizontal pulling apart of said grate sections when the projections are engaged in the recess, but permitting disengagement of said sections when the grate sections are first hinged upwardly about said straight edges.

2,323,917
TIRE CHAIN APPLYING TOOL
Everett L. Kibler, Pittsburgh, Pa.
Application June 6, 1941, Serial No. 396,876
1 Claim. (Cl. 81—15.8)



A tire chain-applying tool comprising a straight base member adapted to be placed crosswise of a tire and tangentially thereto, a pair of arms non-rotatably mounted on the base member, at least one of said arms being resilient, said arms being adapted to embrace the sides of the tire, and an outwardly extending laterally projecting chain-engaging stud on each arm, said base member being substantially longer than the maximum distance between the arms to provide an extension at one end of the tool in the nature of a handle to facilitate the application of the tool to the tire.

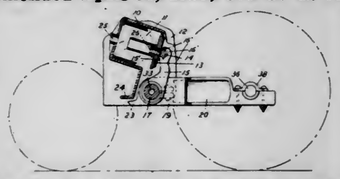
2,323,918
DRYING FIBERBOARD AND THE LIKE
Joseph F. Kiernan, Brooklyn, N. Y.
Application March 26, 1941, Serial No. 385,220
2 Claims. (Cl. 34—23)



1. The process of drying fiber board comprising feeding said board endwise over supporting rollers, subjecting the surfaces of the board to heat and pressure along all portions of a transverse area extending crosswise of the board, simultaneously supplying currents of drying air to the surface of said sheet at said area, thus

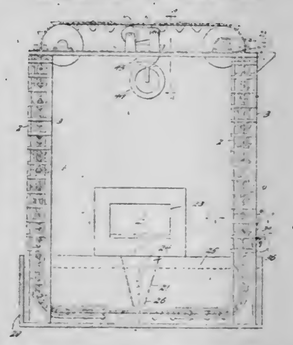
progressively bringing the successive fiber layers into more intimate contact with each other and conducting heat inward from each surface, and releasing the pressure on said surfaces to allow said surfaces to expand after the application of said compression, and thereafter circulating said air over the surfaces of the board as it expands to remove moisture therefrom.

2,323,919
WHEEL SUSPENSION
Harry A. Knox, Washington, D. C.
Application June 25, 1941, Serial No. 399,661
6 Claims. (Cl. 267—20)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



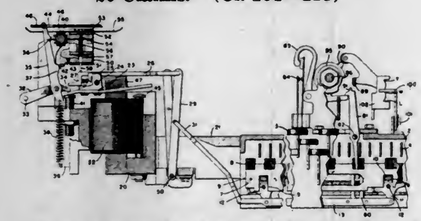
1. A vehicle suspension embodying an arm pivoted about an axis and adapted to hold on its free end a wheel axle, a second arm rigidly connected to said arm and pivoted about the same axis, a spring, a casing for said spring, means for fastening the casing to the vehicle body, a movable seat for said spring having an external bearing surface and a pin mounted on the free end of said second arm coacting with said external bearing surface and means to adjust the initial load on said spring, said means comprising a hole in the front of the casing and a threaded hole in said movable seat for reception of a puller bolt.

2,323,920
METHOD OF AND APPARATUS FOR DEWATERING COMMINUTED MATERIALS
Frederick K. Knudsen, Govans P. O., Md., assignor to The Porcelain Enamel & Manufacturing Company of Baltimore, Baltimore, Md., a corporation of Maryland
Application September 30, 1939, Serial No. 297,378
13 Claims. (Cl. 210—55)



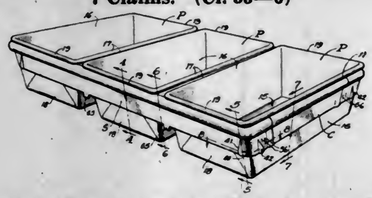
1. In combination, a conveyor, means to support said conveyor, means to move said conveyor, successive buckets pivotally mounted on the conveyor, means to feed comminuted material associated with a free liquid medium to said buckets, said comminuted material being subject to leaching effects on prolonged contact with said liquid, means positioned in the path of travel of said buckets and adjacent said feeding means for partially rotating each bucket to remove the free liquid contents thereof and prevent prolonged contact of said liquid and material to inhibit leaching of said material by said liquid, means remote from said feeding means to receive the comminuted material, and means independent of said means for partially rotating said buckets to completely rotate said buckets to discharge the comminuted material therefrom into said receiving means, said last mentioned means for completely rotating the buckets being positioned in the path of travel of said buckets adjacent said receiving means and remote from said means for partially rotating said buckets.

2,323,921
KEYBOARD PERFORATOR
Ross A. Lake, Oak Park, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Original application September 20, 1940, Serial No. 357,563. Divided and this application November 1, 1941, Serial No. 417,579
20 Claims. (Cl. 164—113)



1. In a tape perforator, a perforating punch, a punch hammer, means to operate said punch hammer, and means longitudinally reciprocated for feeding a tape and operatively associated with said punch hammer for a portion only of the feeding cycle.

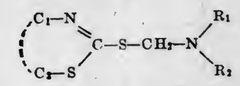
2,323,922
MULTIPLE BAKING PAN
Adrien L. Langel, Chicago, Ill., assignor to Chicago Metallic Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application August 25, 1941, Serial No. 408,203
7 Claims. (Cl. 53—6)



1. A baking pan set in which is comprised a plurality of aligned pans each having outwardly inclined sides and ends, and means interconnecting the pans comprising a strap positioned lengthwise of the pan set, disposed flatwise of the inclined ends thereof, interlocked with one end of each pan and extended around the corners of the pan set, and lugs embossed from the strap, offset from the outer face thereof, but adjacent to the pan set corners, each lug terminating at its lower edge in substantially the same plane as the lower edge of the strap, and extending progressively outwardly of the strap toward the lower edge thereof at which point it is of maximum cross-sectional area.

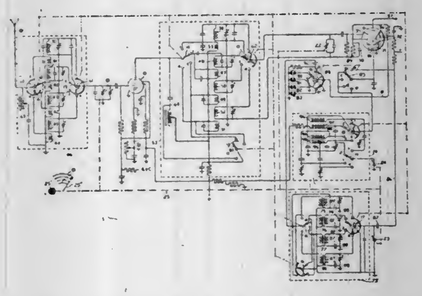
2,323,923
VULCANIZATION OF RUBBER
Roger A. Mathes, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application December 5, 1939, Serial No. 307,636
14 Claims. (Cl. 260—788)

1. The method which comprises vulcanizing a rubber in the presence of a material having the general structural formula



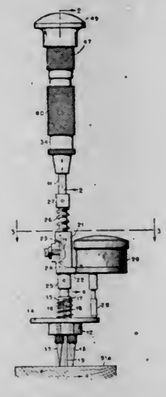
wherein C_1 and C_2 form part of a saturated alkylene chain, R_1 is a member of the class consisting of hydrogen and aliphatic radicals, and R_2 is a member of the class consisting of hydrogen, aliphatic, and aromatic radicals, the said radicals having their free valence on a carbon atom.

2,323,924
SUPERHETERODYNE RECEIVER
Harry F. Mayer, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application December 11, 1941, Serial No. 422,528
6 Claims. (Cl. 250—20)



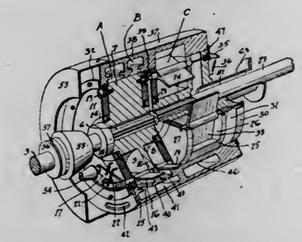
1. The combination, in a high frequency receiver, of a signal input circuit, a local oscillator, a crystal oscillator, means to render said oscillators alternatively operative, means to combine oscillations received in said input circuit with oscillations produced by either one or the other of said oscillators to produce beat currents, means to tune said input circuit, said local oscillator and said crystal oscillator in unison over respective ranges of frequency to maintain said beat currents of constant frequency for all signals received, the ranges over which said local oscillator and crystal oscillator are tuned for operation being the same, said crystal oscillator including a plurality of piezoelectric crystals to control the frequency of said crystal oscillator, and means to select a crystal corresponding to the frequency to be received, whereby said receiver is operative over a range of frequencies determined by said tuning means when said local oscillator is operative and is operative to receive certain fixed predetermined frequencies in said range when tuned to said fixed frequencies and said first and last means are operated to render said crystal oscillator operative and to select the crystal corresponding to the frequency to be received.

2,323,925
HARDNESS TESTING TOOL
Lorraine J. Markwardt, Madison, Wis., assignor to Secretary of Agriculture of the United States of America
Application November 12, 1941, Serial No. 418,658
7 Claims. (Cl. 265—19)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



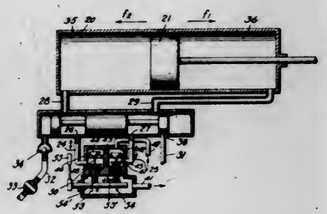
1. A device for determining the hardness of materials comprising a test head carrying a group of pins adapted to penetrate the material to be tested, means for applying a force of predetermined magnitude on said head to force said pins into the material, and means for determining the distance to which said pins penetrate the material as an index of the hardness thereof.

2,323,926
HYDRAULIC TRANSMISSION
Daniel F. McGill, Multnomah, Oreg., assignor to Donald W. Green, Portland, Oreg., as trustee
Application June 7, 1937, Serial No. 146,901
16 Claims. (Cl. 60—53)



1. In a transmission mechanism: a drive shaft and a driven shaft; a delivery pump comprising a rotor directly connected to the drive shaft, a casing therefor, and rotor blades mounted in said rotor for operatively engaging said casing; a receiving pump having greater displacement than said delivery pump, said receiving pump comprising a rotor directly connected to the driven shaft, a casing therefor, and rotor blades mounted in said rotor for operatively engaging said casing; the rotor blades in one of said pumps being adapted to be maintained in retracted position relative to the rotor to render said pump inoperative.

2,323,927
EMERGENCY DEVICE FOR HYDRAULIC CONTROL SYSTEMS
Jean Mercier, Neuilly-sur-Seine, France; vested in the Alien Property Custodian
Application May 15, 1940, Serial No. 335,383
In France June 2, 1939
4 Claims. (Cl. 121—38)



1. A system of the type described, which comprises a hydraulic servomotor, said servomotor being connected by two pipes to valve means controlling the supply and discharge of fluid, said valve means comprising a valve body having two distributing ports connected to said pipes, two inlet and outlet ports, at least one of said ports being adapted to communicate with a source of fluid under pressure, a separate inlet port adjacent one end of said valve body, a conduit connecting said separate inlet port to another source of fluid under pressure, and a separate outlet port, a movable valve element inside said valve body, including pressure responsive means, said element being adapted to afford, in one position, communication between said inlet and outlet ports and said distributing ports, while obstructing said separate outlet port, and to afford, in its second position, communication between said separate inlet port and one of said distributing ports and between said separate outlet port and the other distributing port while obstructing the communication between said distributing ports and said first mentioned inlet and outlet ports, and further valve means to admit fluid under pressure from said conduit to said pressure responsive means to shift said movable valve element from the first to the second position.

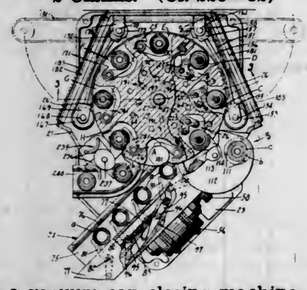
2,323,928
SOIL STABILIZATION
Abraham B. Miller, Newark, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application February 9, 1940, Serial No. 318,201
11 Claims. (Cl. 106—241)

1. Stabilized soil containing powdered substantially petroleum-hydrocarbon insoluble pine wood resin.

2,323,929
STABILIZATION OF SOILS
Abraham B. Miller, Newark, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 18, 1940, Serial No. 361,727
14 Claims. (Cl. 106—238)

1. The method of stabilizing soil which comprises admixing therewith an aqueous suspension of a substantially petroleum-hydrocarbon insoluble pine wood resin, said suspension containing a dispersing agent for the said resin.

2,323,930
VACUUM CLOSING MACHINE
William Pechy, Manasquan, N. J., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application July 16, 1940, Serial No. 345,829
2 Claims. (Cl. 226—82)



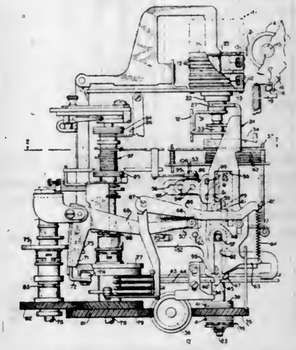
1. In a vacuum can closing machine, the combination of a rotatable can receiving turret having open pockets spaced along its peripheral wall for vacuumizing cans therein, means for rotating said turret, a plurality of rollers located outside of said turret and mounted for rotation on axes parallel to the axis of said turret, an endless belt member operative over said rollers and having movement in unison with said turret, means for shifting in a plane perpendicular to the axis of rotation of the turret some of the rollers with said belt to bring the latter into and out of engagement with the periphery of the turret whereby in one position the said belt member successively seals off said turret pockets to provide individual enclosed vacuum chambers and in another position the said belt member exposes the open turret pockets sufficiently to gain access thereto, and feeding devices for inserting cans and covers into said turret pockets prior to such sealing off by said belt member.

2,323,931
CABLE TESTING DEVICE
Melville F. Peters, Beltsville, Md.
Application August 8, 1941, Serial No. 405,959
14 Claims. (Cl. 175—183)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



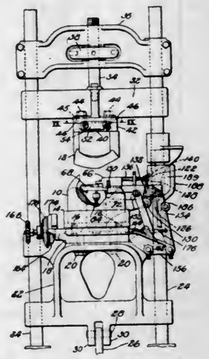
1. A device for testing ignition cable comprising a supporting member composed of insulating material and having a relatively elongated head member containing a groove adapted to receive part of the length of an ignition cable, a metal electrode disposed in and lining said groove, a passage formed in the supporting member and extending from the electrode at one end to a terminal plate at the other end the exterior surface of which is substantially flush with the exterior surface of the supporting member, a resistance disposed in the passage and electrically connected to the electrode, a neon tube disposed in the passage and being electrically connected at one end to the resistance and at the other end to said metal plate, the supporting member being provided with an enlarged opening therein adjacent the neon tube and through which the neon tube may be viewed.

2,323,932
TELEGRAPH PRINTER
Louis M. Potts, Evanston, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Application May 9, 1940, Serial No. 334,108
12 Claims. (Cl. 178—28)



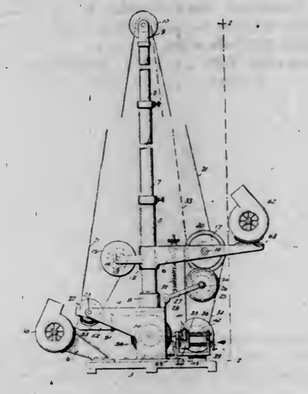
11. In a telegraph transmission system, a type unit capable of assuming four case positions, spring urged means tending to move said unit from a normal position to an extreme one of its said four case positions, and a pair of interponent means for intercepting the movement of said type unit under the control of a code combination signal and also under the control of a characteristic impulse of each code combination signal.

2,323,933
MACHINE FOR SHAPING SHOE PARTS
Edwin N. Preble, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application March 24, 1942, Serial No. 435,999
21 Claims. (Cl. 12—21)



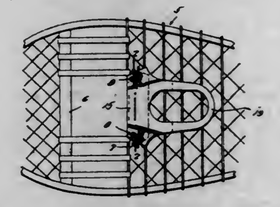
1. In a machine for molding shoe soles, upper and lower molds, means for effecting relative movement of said molds to apply shaping pressure to a sole therebetween, gage means arranged to extend inwardly over the sole-engaging face of the lower mold and by engagement with the heel end of the sole to determine its position lengthwise of the mold, and means operative in response to such relative movement of the molds for moving said gage means out of engagement with the sole and into a position removed from over the sole-engaging face of the mold.

2,323,934
FILM DRIER
William H. Richards, Dayton, Ohio
Application June 24, 1941, Serial No. 399,490
6 Claims. (Cl. 34—155)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A portable device for drying photographic film including a wet film roll and a power-driven reel adapted to receive film therefrom, suction nozzle means adjacent said wet film roll for removing water drops, means for adjustably varying the speed of the power-driven reel, means for subjecting said film to a moving current of drying air having a substantial component of its velocity parallel with said film during substantially the entire traverse of the same from said roll to said reel, and means for adjustably varying over a considerable range the length of the path traversed by said film to thereby vary the length of contact of the current of drying air with the film.

2,323,935
SNOWSHOE SANDAL
George M. Rintamaki, Newberry, and Leslie H. Powis, Lansing, Mich.
Application August 30, 1941, Serial No. 409,080
2 Claims. (Cl. 36—4.5)



1. A snowshoe harness comprising a sole plate to rest on the snowshoe, an upwardly bowed top plate overlying said sole plate with its ends registered with the ends of the sole plate, means securing said ends together, thong accommodating eyelets traversing said registered ends of the sole plate and top plate and arranged to pass thongs for attaching the harness on the snowshoe, said sole plate and said top plate being formed of relatively non-stretchable material, and a non-adjustable U-shaped heel strap hav-

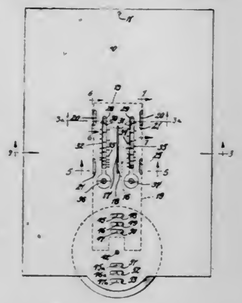
ing its legs secured to extend rearwardly from transversely spaced points along the rear edge of said top plate, said heel strap being of flexible and stretchable material.

2,323,936
INSULATING CONSTRUCTION ELEMENT
Dudley Roberts, New York, N. Y., assignor to Rubatex Products, Inc., New York, N. Y., a corporation of Delaware
Application July 15, 1937, Serial No. 153,709
5 Claims. (Cl. 154—44)



1. An impermeable insulating element comprising a closed cell gas expanded mixture of rubber and a phenol formaldehyde condensation product.

2,323,937
SLIDE CALCULATOR
Emory S. Russell, Auburn, N. Y.
Application September 3, 1940, Serial No. 355,194
3 Claims. (Cl. 235—89)



2. A calculator of the character described, comprising a cardboard body of sheet material, a cardboard slide of sheet material arranged against the rear face of said body and provided with opposite straight edges, and means for guiding said slide to move along a straight path and providing lateral bearing means of substantial extent for said slide and holding said slide against the rear face of said body comprising a pair of elongated cutouts formed in said body, and each formed at its outside to provide a straight edge arranged parallel with and adjacent to the corresponding straight edge of said slide, and a pair of tabs formed in said body and each projecting inwardly across one of said cutouts and engaging the rear face of said slide, said tabs being arranged at the centers of said cutouts and being substantially shorter than the length of said cutouts and holding said straight edges of said body in rearwardly displaced relation thereto to permit bearing engagement between said rearwardly displaced straight edges of said body and said opposite straight edges of said slide.

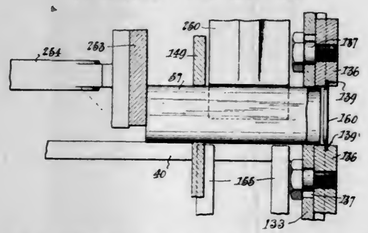
2,323,938
PRODUCT AND SYNTHESIS THEREOF
John Carl Sauer, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application July 25, 1940, Serial No. 347,555
10 Claims. (Cl. 260—561)

1. A beta-ketocarbonamide of the formula

$$R—CH_2—CO—CHR^1—CO—NHR^2$$

wherein R, R^1 and R^2 are monovalent aliphatic hydrocarbon radicals and R^1 and R^2 total at least nine carbon atoms.

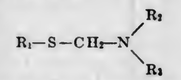
2,323,939
CAN END CLOSURE ATTACHING MACHINE
Otto A. Schmitt, Syracuse, N. Y., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application November 10, 1939, Serial No. 303,991
12 Claims. (Cl. 113—19)



1. In a machine of the character described, a turret structure comprising a circular disk having a plurality of equidistantly spaced container body receiving pockets in its periphery, means mounting the turret for rotation about a horizontal axis, means for indexing turret for presenting the disk pockets at container closure and body receiving stations and at assembled container securing and discharging stations, opposed separable jaw elements in part defining each disk pocket and having closure edge retaining grooves therein, and a container body supporting plate spaced along the turret axis from said disk and having peripheral pockets therein aligned with said disk pockets and cooperating therewith in supporting container bodies for sliding movement toward closures positioned in said jaw grooves.

2,323,940
VULCANIZATION OF RUBBER
Arthur W. Sloan, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application December 5, 1939, Serial No. 307,638
14 Claims. (Cl. 260—793)

1. The method which comprises vulcanizing a rubber in the presence of a compound having the general structural formula

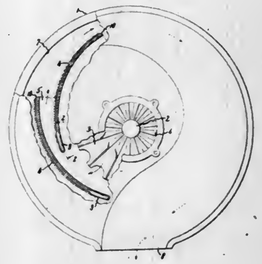


wherein R_1 is a thiocarbamyl group, and



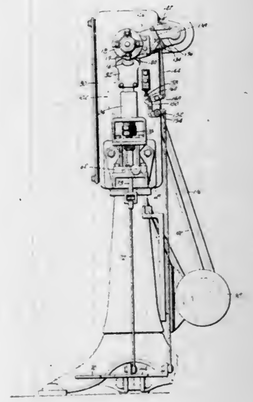
is a hydrocarbon substituted amino group in which not more than one of the hydrocarbon substituents is aromatic.

2,323,941
CENTRIFUGAL COMPRESSOR
Chester W. Smith, Lynn, Mass., assignor to General Electric Company, a corporation of New York
Application February 14, 1942, Serial No. 430,941
6 Claims. (Cl. 230—114)



1. A centrifugal compressor having spaced flexible diffuser vanes which define passages for the flow of fluid and which are subjected to and adjusted relatively to each other by pressure set up by the compressor to vary the contour of the discharge passages between the vanes.

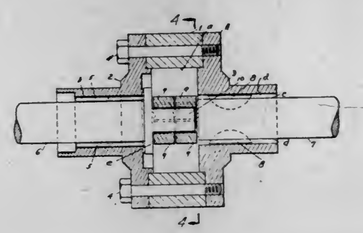
2,323,942
MACHINE FOR OPERATING UPON SHOES
Homer F. Smith, Chicago, Ill., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application March 24, 1942, Serial No. 436,017
18 Claims. (Cl. 12—67.2)



1. A machine for operating upon shoes comprising a pressure roll, a work supporting roll adjacent to the pressure roll, means mounting the work supporting roll for movement toward and away from the pressure roll and for movement laterally thereof, a beating member adjacent to the pressure roll, and means for driving the rolls in a direction to advance a shoe to be operated upon past the beating roll.

2,323,943
MULTIPLE BAR SHAFT COUPLING
Skardon T. Smith, Detroit, Mich.
Application May 4, 1942, Serial No. 441,673
1 Claim. (Cl. 192—45.1)

A multiple bar shaft coupling adapted for automatically releasing a connected driven shaft section whenever an excessive force is applied therethrough, comprising a housing casing formed with a central cylindrical chamber provided with connected shaft recesses through opposite ends



thereof concentric with the housing chamber axis, a driving shaft section rotatably mounted through one end recess, a driven shaft section fixedly mounted through the opposite end housing shaft recess and made integral with the housing casing, a flattened cylindrical operating lug having oppositely positioned parallel sides formed on the inner end of the driving shaft section, positioned symmetrically about the shaft axis and projected within the housing chamber, pairs of oppositely disposed lock bars formed with circular ends and lug release means rotatably mounted within the housing chamber, designed to lock with the chamber walls under pressure, and positioned to be automatically displaced outwardly by the operating lug force applied through the driving shaft section, and released from the walls when rotation force is excessive and applied through the driven section.

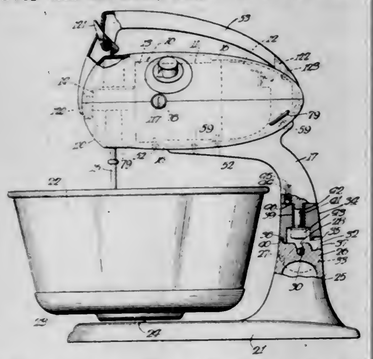
2,323,944
METHOD OF MANUFACTURING MAGNETIC MATERIALS
Jacob Louis Snoek, Eindhoven, Netherlands; vested in the Alien Property Custodian
No Drawing. Application May 29, 1941, Serial No. 395,880. In the Netherlands June 12, 1940
8 Claims. (Cl. 148—21.5)

1. The method of improving the magnetic properties of a magnetizable body of an alloy hardenable by dispersion, comprising subjecting said body in a given direction to a temperature gradient of such intensity as to enhance the magnetizability of the body in the given direction, and magnetizing said body in a direction corresponding to the direction of the temperature gradient.

2,323,945
MOTOR
Alfred Strauss and Lee S. Tucker, Chicago, Ill., assignors to A. F. Dormeyer Mfg. Co., a corporation of Illinois
Application February 1, 1940, Serial No. 316,758
31 Claims. (Cl. 172—36)

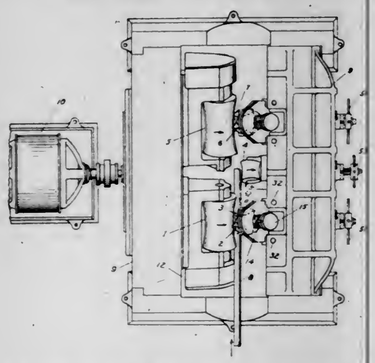
5. In a food mixer, a motor member having a plurality of portions of its surface provided with identical contours, a bracket secured to one of

the portions, a finishing shell secured to the motor over the bracket, and means secured to the



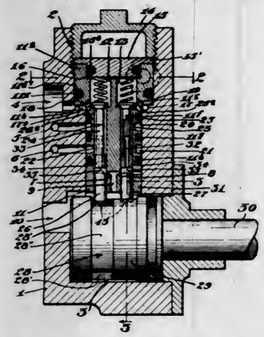
bracket for supporting the motor without any strain upon the shell.

2,323,946
ROUND STRAIGHTENER
John Blair Sutton, Pittsburgh, Pa.
Application February 20, 1942, Serial No. 431,737
23 Claims. (Cl. 153—60)



1. In cross-rolling apparatus including grouped rolls that form a pass, said rolls including a pair of adjacent rolls the axes of which are arranged at angles to each other and to the center line of the pass, and said paired rolls being angularly so spaced from the center line of the pass that normals of the pass that cross the respective axes of the rolls upon a plane perpendicular to the center line thereof at the smallest diameters of the rolls are angularly related in accordance with a minimum stock diameter of the pass, means for varying the size of the pass while maintaining the proper relative positioning and angular relations of the rolls that comprises mechanism organized laterally to move the adjacent paired rolls toward and away from the pass, and structure arranged to constrain such motion of the respective rolls to angularly related paths that converge beyond the center line of the pass and that are arranged at approximately equal angles to normals of the pass that respectively cross the axes of the paired rolls at a common plane perpendicular to the center line of the pass, the approximately equal angles which the said paths form with the said normals being substantially one-quarter as great as the angle separating the normals.

2,323,947
ADJUSTABLE HYDRAULIC CONTROL VALVE
Jacob B. Van Der Werff, Pasadena, Calif., assignor to Adel Precision Products Corp., a corporation of California
Application August 1, 1942, Serial No. 453,271
12 Claims. (Cl. 137—144)



1. In a hydraulic control valve, a valve body member having a main bore and a cam shaft bore intersecting said main bore, a cam shaft in said cam shaft bore, cam means on said shaft, a cylindrical valve seat member seated in said main bore for turning movement about its major axis, sealing means interposed between the wall of the main bore and said seat member, said seat member having a valve-receiving bore therein and a valve seat in said bore, a valve seated on said seat, a push rod operable in said valve receiving bore for engagement with said valve and said cam means and movable with the turning of said seat member to different positions on contact with said cam means; and means operable exteriorly of said valve body for turning said seat member about its major axis in either direction and setting said push rod in adjusted positions.

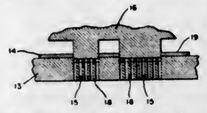
2,323,948
PROCESS FOR PREPARING PHENYLENEDIAMINE DERIVATIVES
Harold Von Bramer, Lee G. Davy, and Milton L. Clemens, Jr., Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application November 6, 1940, Serial No. 364,564
8 Claims. (Cl. 260—577)

1. A process for preparing phenylenediamine derivatives comprising treating a mixture of an aromatic amino compound selected from the group consisting of p-phenylenediamine and p-nitroaniline and a carbonyl compound selected from the group consisting of aldehydes and ketones, with hydrogen, in the presence of a catalyst comprising essentially an intimate mixture of copper oxide, chromium oxide, and barium oxide.

2,323,949
PROCESS OF MAKING DIES
Alan E. Vosburg, Chicago, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Application August 16, 1940, Serial No. 352,882
12 Claims. (Cl. 76—107)

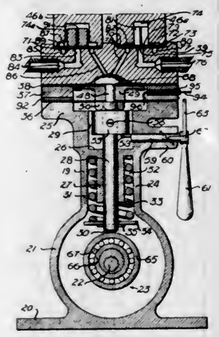
1. A method of processing blanking dies which consists in, assembling a composite die plate

comprised of a sheet of tool metal and a sheet of compressible metal, marking upon the surface of said composite plate the area proposed for removal to conform with a punch, perforating said



area with a plurality of closely located holes, indenting said area with a punch, and removing the indented area by following with a cutting tool the outline made by said punch.

2,323,950
PROPORTIONAL FEEDER
John B. Wade, Los Angeles, Calif.
Application May 14, 1940, Serial No. 335,305
7 Claims. (Cl. 103—150)

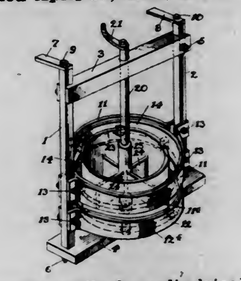


1. In a proportional feeder of the character described, the combination of: a body of non-corrosive material having an inner face and an outer face, there being inlet and outlet ducts leading from said inner face to said outer face; a diaphragm extending across said inner face of said body; an annular member to clamp said diaphragm against said body; bolt means projecting through said body, the inner ends of said bolt means engaging said annular member and the outer ends of said bolt means extending from said outer face of said body; valve means to cooperate with said inlet and said outlet ducts; valve bodies lying in cooperating relation to said outer face of said body to cover said valve means; holding means supported by the projecting portions of said bolt means to clamp said valve bodies against said body, the clamping force exerted by said holding means being transmitted through said valve bodies to said body to force the same toward said annular member; and means for reciprocating said diaphragm.

2,323,951
REFRACTORY COMPOSITION
Eugene Wainer, Niagara Falls, N. Y., assignor to The Titanium Alloy Manufacturing Company, New York, N. Y., a corporation of Maine
No Drawing. Application September 27, 1941, Serial No. 412,689
13 Claims. (Cl. 106—57)

1. A dry refractory composition containing a major portion of zircon and a minor portion of an acid phosphate taken from the group consisting of ammonium and inorganic and organic derivatives of ammonium.

2,323,952
PLATING CRADLE
Richard M. Wick, Allentown, Pa.
Application July 12, 1939, Serial No. 284,024
3 Claims. (Cl. 204—297)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

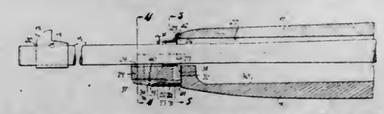


1. A plating cradle for cylindrical work wherein only one cylindrical surface is to be plated, comprising a separable circumferential metallic ring of a diameter to fit tightly against one cylindrical surface of the work, a framework for said ring including a pair of cathode bars on which said ring is mechanically supported and clamped against the work, insulating means holding said bars in spaced apart position and an anode bar supported by said insulating means between said cathode bars, and a conformed circumferential anode supported on said anode bar in juxtaposed position to the opposite cylindrical surface of the work.

2,323,953
MEAT TREATMENT
Beverly E. Williams and Leon L. Cadwell, Chicago, Ill., assignors to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware
No Drawing. Application May 5, 1941, Serial No. 391,980
6 Claims. (Cl. 99—107)

1. The method of preparing meat products which comprises separating the bone from the meat, wrapping the boneless meat in warm caul fat and thereafter quickly freezing the wrapped product.

2,323,954
FRONT-BAND CONSTRUCTION FOR FIREARMS
David M. Williams, New Haven, Conn., assignor to Western Cartridge Company, New Haven, Conn., a corporation of Delaware
Application January 3, 1942, Serial No. 425,501
5 Claims. (Cl. 42—75)



1. A front-band construction for firearms including in combination: a barrel; a stock-member extending adjacent the underside of the said barrel; a barrel-cover member extending adjacent the upper portion of the said barrel; one of the said members being formed with an anchor-socket; a front-band retainer including an anchor-portion extending into the anchor-socket of one of the said members and also including a yielding arm having a locking-abutment engage-

able with a front-band unit to hold the same against displacement longitudinally of the said barrel; and a front-band unit fitting over portions of each of the said barrel, the said stock-member and the said barrel-cover member, the said front-band unit being constructed and arranged to extend over and substantially conceal the anchor-socket in the said member and the anchor-portion of the said front-band retainer and serving to hold the latter in the said anchor-socket.

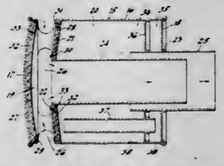
2,323,955

RESONANCE UNIT

Ernest E. Wilson, Detroit, Mich., assignor to General Motors Corp., Detroit, Mich., a corporation of Delaware

Application July 25, 1930, Serial No. 470,700

33 Claims. (Cl. 181—48)



1. In a device of the class described, a passage which includes two partly telescoped elements which are spaced apart throughout a portion of their circumferences and through which pressure waves are adapted to travel, a plurality of resonance chambers disposed around the passage and so arranged that communication between one of the chambers and the passage is established through the space between the elements, and an opening or openings for permitting communication between the several resonance chambers.

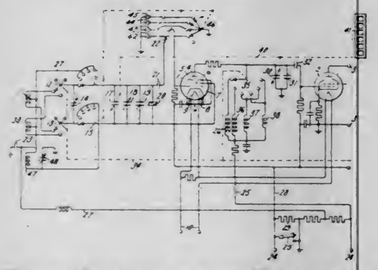
2,323,956

OSCILLATION GENERATOR

Carlos S. Yerian, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application August 22, 1941, Serial No. 407,912

5 Claims. (Cl. 250—36)



1. The combination, in an oscillation generator of an electron discharge device having input and output electrodes, a switch having a plurality of positions, regenerative circuits connected to said discharge device through said switch in one position thereof and coupling said electrodes to support oscillations, said circuits including a frequency determining oscillatory circuit including a reactance element variable to change the frequency of oscillations produced over a range, a piezo electric crystal having a natural frequency in said range, said crystal being arranged to be connected to said input electrodes when said switch is operated to a second of its positions, and means responsive to operation of said switch to said second position to connect said oscillatory circuit between said output electrodes and to tune it to a frequency sufficiently higher than the natural frequency of said crystal to support oscillations having a frequency in said range and controlled in frequency by said crystal whereby the frequency of oscillations determined by said frequency determining circuit may be compared with the frequency of oscillations controlled by said crystal by changing the position of said switch.

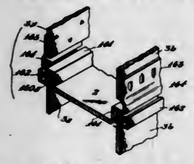
2,323,957

CONTAINER-WALL CONNECTION AND TRACK

Philip Zalkind, New York, N. Y.

Original application October 19, 1935, Serial No. 45,714, now Patent No. 2,210,019, dated August 6, 1940. Divided and this application August 3, 1940, Serial No. 350,630

2 Claims. (Cl. 312—107)



1. In casings to form a stack, a lower casing and a superposed casing, each casing having a top wall and side walls, the top wall of the lower casing forming the bottom wall of the superposed casing, means for interconnecting said casings, said means comprising a rail at the top of each side wall of the lower casing engaged with rails on the bottoms of the side walls of the superposed casing, the rail at the top of each side wall comprising a channel member embracing the top longitudinal edge of the side wall and a margin of the top wall, the said margin of the top wall being in surface to surface contact with the side wall and being folded to a position normal to the remainder of the top wall; and an integral longitudinal extension from said channel, said extension cooperating with a portion of said channel to form a member of U shaped cross-section to receive the rail of the superposed vertical wall.

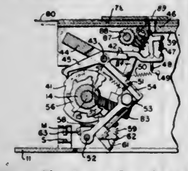
2,323,958

TAPE TRANSMITTER DISTRIBUTOR

Walter J. Zenner, Des Plaines, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware

Application November 7, 1940, Serial No. 364,636

17 Claims. (Cl. 178—17)



1. An automatic impulse transmitter comprising a plurality of tape sensing elements, a plurality of cams for successively controlling said sensing elements, a plurality of cam follower levers interconnecting said sensing elements and said cams, a bail controlled by said sensing elements, a cam for timing the operation of said bail with respect to the operation of said sensing elements, and a single set of transmitting contacts controlled by said bail.

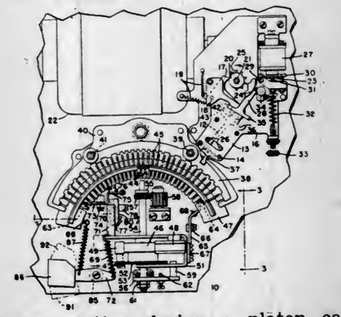
2,323,959

PRINTING TELEGRAPH APPARATUS

Walter J. Zenner, Des Plaines, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware

Application April 18, 1941, Serial No. 389,147

7 Claims. (Cl. 197—73)



6. In a printing device, a platen carriage, spring means for shifting said platen carriage from one position to another, and gravity-responsive means automatically operable to vary the tension of said spring means in response to positional changes of the whole device.

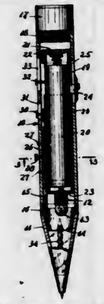
2,323,960

COMBINED CIGARETTE LIGHTER, FLASHLIGHT, AND WRITING IMPLEMENT

Benigno Zeno, New York, N. Y.

Application May 1, 1941, Serial No. 391,228

4 Claims. (Cl. 240—6.46)



1. A device of the class described having a tubular housing with a light transmitting frustoconical end portion and a flashlight within said housing having its lamp disposed adjacent said end portion, a circular light shield disposed within said end portion and in face contact with the walls thereof, a handle extending from said shield between the adjacent faces of said flashlight and one wall of said housing, means for longitudinally moving said handle to correspondingly move said shield relative to said lamp and end portion for controlling the quantity of light emanating from said end portion, and means for holding said handle in various fixed positions to correspondingly hold said shield, said latter means, comprising a clamp strip movably mounted between the adjacent faces of said handle and wall of said housing, and a screw threadedly passed through said wall of said housing and having its inner end rotatively attached to said clamp strip to move said clamp strip to secure said handle between said clamp strip and adjacent face of said flashlight when said screw is turned.

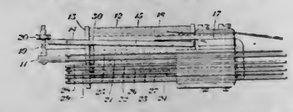
2,323,961

RELAY ARMATURE

Frank A. Zupa, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application December 31, 1941, Serial No. 425,084

3 Claims. (Cl. 200—104)



1. In a relay including a movable spring and a movable stud for directly actuating said spring, an unfinished armature engaging said stud and adapted to impart motion thereto, said armature having embedded in its engaging portion a smooth metallic insert to prevent displacement of said stud.

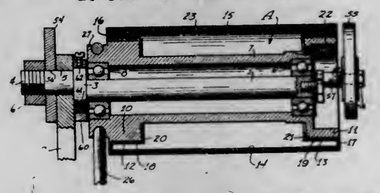
2,323,962

SANDING AND BUFFING TOOL

Robert G. Ames, Burlingame, Calif., assignor of one-half to George W. Williams, Burlingame, Calif.

Application July 25, 1941, Serial No. 404,033

10 Claims. (Cl. 51—192)



1. A device of the type described comprising a rotatable drum having flanged ends, a hollow rubber cylinder having a length coextensive with the drum length and overlying the flanged ends, said cylinder having inwardly extending rubber flanges forming cylindrical portions for gripping and making an air-tight seal with the drum ends, whereby the drum and cylinder form an air retaining chamber, valved means for delivering air to the chamber, and an abrading cylinder receiving the rubber cylinder and being yieldingly supported thereby, the portions of the rubber cylinder that extend over the drum ends being inflatable and communicating with the main chamber, whereby the abrading cylinder is buoyantly supported from end to end.

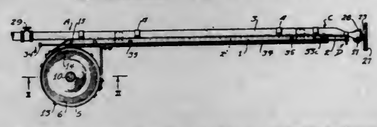
2,323,963

COMBINED PLASTIC AND TAPE APPLICATOR

Robert G. Ames, Burlingame, Calif., assignor of one-half to George W. Williams, Burlingame, Calif.

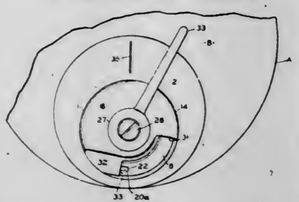
Application August 11, 1941, Serial No. 406,339

23 Claims. (Cl. 216—22)



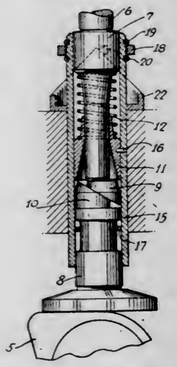
1. A combined plastic and tape applicator comprising a tape feeding mechanism including a roller having pins on its periphery for applying tape to a surface, and mud feeding means including a nozzle for applying mud to the back of the tape just prior to the tape and mud being applied to the surface, whereby the roller will cause the mud to contact with the surface and to be covered by the tape

2,323,964
POURING FITTING FOR PAINT CONTAINERS AND THE LIKE
Zenas B. Andrews, Cleveland, Ohio
Application June 6, 1940, Serial No. 339,144
8 Claims. (Cl. 221—19)



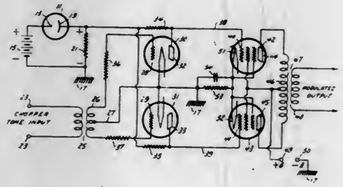
1. A pouring fitting for containers, said fitting comprising a hollow body adapted to be mounted on a container, said body having a valve seat of circular cross section and having a pouring opening leading outwardly to and terminating at said seat, the body having a recess leading inwardly from the seat closely adjacent the said pouring opening and separated circumferentially of the seat from said opening by a relatively narrow wall which terminates radially outwardly at said seat, and a valve closure member turnably mounted on the body and with an inner surface complementary to the seat, the closure member being open at one side so as to expose the opening, the radially outward surface of said narrow wall and fully to expose the recess in one turned position of the member.

2,323,965
SLACK TAKE-UP DEVICE FOR TAPPETS
Joseph A. Anglada, New York, N. Y.
Application April 12, 1939, Serial No. 267,415
23 Claims. (Cl. 123—90)



7. In a valve operating mechanism the combination with a pair of valve stems and operating cams therefor of a pair of automatically compensating tappets therebetween, each tappet comprising a reciprocably mounted sleeve, opposed plungers movable longitudinally within said sleeve, a wedging member between said opposed plungers operable to hold said plungers in adjusted spaced relation, a cam operable to move said wedging member into wedging position and connected to said sleeve to be moved to release position thereby and a spring tending to move the cam to press the wedging member into wedging position, together with a cross-bar connected to both tappets for limited angular movement as the tappets move alternately, said cross-bar being engageable with the sleeves to move either sleeve to wedge releasing position upon actuation of the cross-bar by the other tappet.

2,323,966
AMPLIFIER
Maurice Artzt, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application October 7, 1938, Serial No. 233,701
1 Claim. (Cl. 179—171)

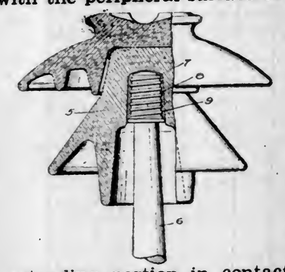


An amplifier system comprising a light translating element serving as a source of variable and direct current, a pair of thermionic tubes each having a cathode, anode and at least one control electrode, a separate load impedance associated with each of the thermionic tubes, each of said load impedances having one terminal connected to the anode element of the associated thermionic tube and the other end connected directly to receive the output energy from the light translating element whereby the voltage instantaneously applied to the anode electrode of each tube due to the light translating element is measured directly in accordance with the current flowing through the light translating element and is co-phasal in each tube, a source of tone frequency energy, means for impressing the tone frequency energy on the control electrode-cathode circuit of each tube simultaneously in opposing phase relationship, said tone frequency being of such value as to drive the said tubes alternately between cutoff and saturation, a pair of push-pull connected thermionic output tubes each comprising a cathode, anode and at least one control electrode, a direct current connection between the anode electrode of each of the first named pair of tubes and a control electrode of each of the second named pair of tubes, whereby the control electrode of each of the second named pair of tubes has its potential influenced by the output voltage from the light translating element and the potential of the control electrodes of the push-pull tubes is caused to vary between relatively wide limits by the applied tone frequency energy, and a load circuit connected to receive the output of said tubes.

2,323,967
THIMBLE-EQUIPPED INSULATOR
Richard W. Barnitz, Parkersburg, W. Va., assignor to Porcelain Products, Inc., Findlay, Ohio, a corporation of Delaware
Application September 12, 1940, Serial No. 356,538
5 Claims. (Cl. 174—200)

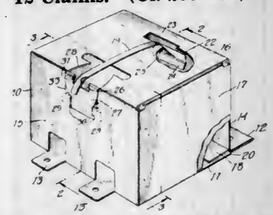
1. An electrical insulator of porcelain or the like, having an axial chamber with a straight inner side wall, a ductile sheet metal thimble spaced within said chamber, and a basal flange

on the thimble extending outwardly and backwardly with the peripheral surface of the back-



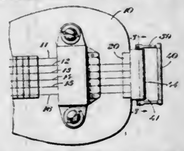
wardly extending portion in contact with the straight inner side wall of the chamber.

2,323,968
STRIP DISPENSING CARTON
Richard H. Bayer, New York, N. Y., assignor to Fibre Cord Company, division of Kary-Safe Company Inc., New York County, N. Y., a corporation of New York
Application December 5, 1942, Serial No. 468,177
12 Claims. (Cl. 206—58)



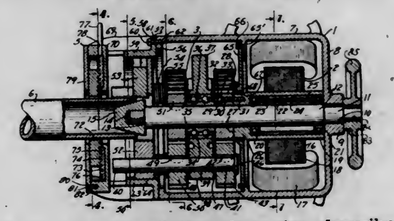
1. A device for dispensing ribbon and similar strands, said device comprising a substantially rectangular container in which the strand to be dispensed is adapted to be arranged, one edge portion of the container having an elongated discharge opening, means at a diagonally opposed edge of the container for supporting a cutter for severing the strand withdrawn from the container, and an intermediate edge portion of the container having on angularly extending walls registering apertures through which the strand passes to centralize the free end portion of the strand on one of said last named walls.

2,323,969
STRINGED INSTRUMENT
Clarence Biederman, Lima, Ohio
Application April 28, 1942, Serial No. 440,836
3 Claims. (Cl. 84—312)



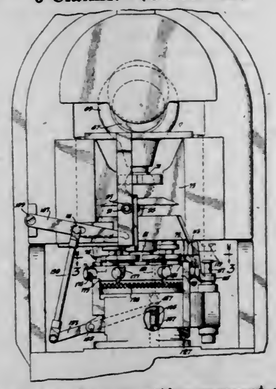
1. In a tensioning device for a musical instrument having a plurality of strings, a support adapted for attachment to the instrument, a plurality of angular rocker elements pivotally mounted on the support to rock in the direction of the strings, a projection carried by each rocker element, means at one end of each rocker for engaging a string, a barrel pivotally mounted on the support parallel with the pivot axes of the said rocker elements, the said barrel having a plurality of circumferential cam forming sections against which the projections of the respective rocker elements are held by the tension of the strings, and means attached to the barrel for turning the same to vary the tension of the strings.

2,323,970
THREADING DEVICE
James P. Bird and Fred B. Schaffer, Kansas City, Mo.
Application June 29, 1942, Serial No. 448,984
13 Claims. (Cl. 10—89)



13. In a device of the character described, a mandrel member having a bore therethrough, and having spaced slots therein communicating with the bore, clamping members mounted in said slots, a tapered screw in said bore having threaded engagement with said clamping members, means for rotating said screw to move the clamping members into engagement with the inner surface of the pipe, a die member rotatably mounted on said mandrel member, a motor on the mandrel, a housing, a motor in the housing, an armature for said motor rotatably mounted on the mandrel, and means including a speed reduction gearing for rotating said die member to chase the threads on said pipe.

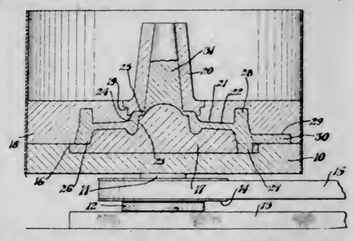
2,323,971
VALVE FORGING MACHINE
Lloyd Blackmore, Highland Park, and Marx C. Kristek, Flint, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application November 28, 1940, Serial No. 367,534
6 Claims. (Cl. 78—13)



6. A machine for upsetting poppet valves comprising a rotatable table, a plurality of head forming dies distributed in a circular series upon said table, a reciprocable non-rotatable member above said table carrying a circular series of plungers to cooperate in sequence with the intermediate head forming dies as the table rotates,

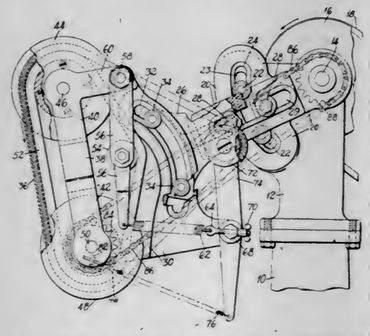
said plungers formed to successively shape the end of a blank in each of said dies to form a valve head, together with means to simultaneously feed a blank into a first of said dies and eject the formed valve from the last of said dies, said last named means comprising a plurality of levers rotatable simultaneously in opposite directions, first mechanism whereby one lever is operable to feed a blank to the first die and second mechanism whereby the other lever functions to eject the finished valve from the last die, and means responsive to the reciprocation of said non-rotatable member to rock said levers.

2,323,972
METHOD OF FORGING
Charles A. Brauchler, Canton, Ohio
Application June 23, 1941, Serial No. 399,275
6 Claims. (Cl. 29—148)



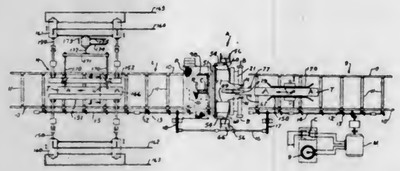
1. The method of forming a forging for a crank case and the like which consists in first centrifugally casting a circular blank having a peripheral flange provided at its edge with spaced bosses, the cast blank having a radial tong hold thereon, then heating the cast blank to forging temperature and placing it in forging dies and forging the hot blank reducing the thickness thereof and forming longitudinal ribs upon the peripheral flange at the points where the bosses are located and reducing the thickness of and elongating the flange between adjacent ribs.

2,323,973
MACHINE FOR OPERATING ON SHOES
Charles G. Brostrom, Salem, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application April 7, 1941, Serial No. 387,167
11 Claims. (Cl. 12—29)



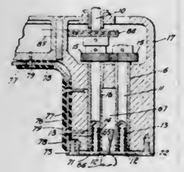
1. A channel-laying machine comprising a flexible tool engageable with a channel lip to lay the lip, a flexible backing member engageable with said tool to drive the tool and to support the tool against the pressure of the work, and a pair of pulleys for supporting said backing member, one of said pulleys being constructed and arranged to drive the backing member.

2,323,974
PROCESS OF AND APPARATUS FOR CONDITIONING METAL BODIES
James H. Bucknam and Alfred J. Miller, Cranford, N. J., assignors to The Linde Air Products Company, a corporation of Ohio
Application July 11, 1936, Serial No. 90,204
28 Claims. (Cl. 148—9)



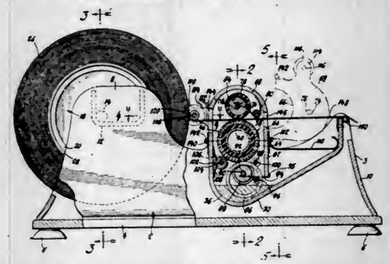
1. A process of desurfacing a metal body such as a steel billet, which comprises relatively moving said body and a gas-applying means; during such movement progressively and simultaneously applying streams of oxidizing gas obliquely against non-adjoining longitudinal surface portions of said body to remove a stratum of metal from each of such portions at least the area of said surface portions to which said oxidizing gas streams are applied being at an ignition temperature and said surface portions being disposed so that slag flow therefrom is assisted by gravity to the same degree; then turning said body about its longitudinal axis to present other non-adjoining surface portions for a similar desurfacing treatment in a similar position; and progressively and simultaneously applying streams of oxidizing gas obliquely against such other non-adjoining surface portions to remove from each of the latter a stratum of metal.

2,323,975
MACHINE FOR SEVERING RUBBER
Rouel R. Campbell, Lynn, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application May 8, 1942, Serial No. 442,215
15 Claims. (Cl. 164—39)



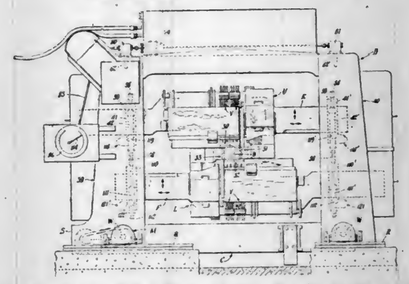
1. A trimming machine comprising a fixed blade having a beveled front face to be engaged by a molded rubber body and having a cutting edge on its back face, a pair of feed rolls having thin perimeters arranged to grip the root portion of unsevered flash projecting from the rubber body in advance of said cutting edge, and rigidly related bearings by which the feed rolls are constrained to reduce the thickness of the unsevered flash at the point of cutting.

2,323,976
TAPE PRINTING MACHINE
Raymond W. Chalmers, Detroit, Mich.
Application September 28, 1940, Serial No. 358,814
16 Claims. (Cl. 101—216)



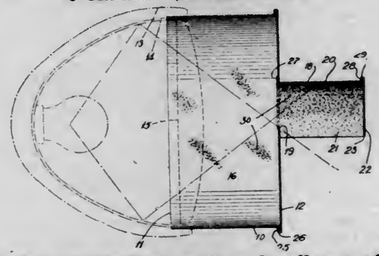
16. In a tape printing machine, a base having an upright portion, a freely removable elongated rotatable printing roll mounted on said upright portion, said roll extending beyond both sides of said upright portion, the middle of said printing roll forming the printing surface, a hinged cap on said upright and adapted when in closed position to cover the printing surface, and means on the cap to engage the printing roll and retain it in operative position, said cap adapted to be moved on its hinge to open position to uncover the printing surface and to enable the removal of the printing roll.

2,323,977
APPARATUS FOR CONDITIONING METAL BODIES
Rudolph Chelborg, Maplewood, James H. Bucknam, Cranford, and Arthur M. Keller, Livingston, N. J., assignors to The Linde Air Products Company, a corporation of Ohio
Application October 8, 1941, Serial No. 414,120
21 Claims. (Cl. 266—23)



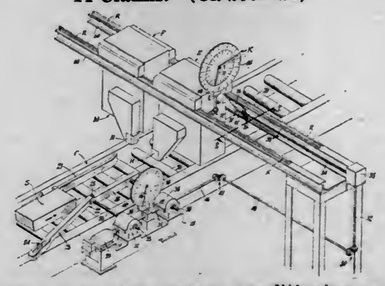
1. A machine for conditioning the longitudinal surfaces of a metal body such as a steel billet, slab, or the like, of rectangular cross-section while such body is propelled in the direction of its length, such machine comprising, in combination, two surface-conditioning units, each of said units including a pair of blowpipe heads disposed substantially perpendicular to one another, each of said blowpipe heads being constructed to direct a surface-conditioning medium against a corresponding one of said longitudinal surfaces; two substantially horizontal beams, one of said beams disposed above and the other of said beams disposed below the path of movement of said body for supporting said units independently of one another and each of said beams being movable both vertically and horizontally in a plane substantially perpendicular to the path of said body; and mechanism for moving said beams in said plane relatively to one another and either vertically or horizontally or both vertically and horizontally, to move said units either toward or away from one another, to position said blowpipe heads either in operative relation adjacent to, or in inoperative relation away from, the respective surfaces of said body and the path of the latter.

2,323,978
BLACK-OUT SHIELD FOR HEAD LAMPS
Burton J. Davis, Kingston, N. Y.
Application July 10, 1942, Serial No. 450,445
6 Claims. (Cl. 240—48.4)



1. The combination with a headlamp of the character described including the usual outer lens, of a shield readily detachable with said lamp, said shield comprising a cylindrical portion enveloping the light reflecting area of the lamp lens and projecting straight beyond the lens of the lamp, the cylindrical portion having an end wall spaced with respect to the lamp lens, said end wall having a substantially half moon discharge opening slightly above the center thereof, a semi-circular hood projecting from said wall and conforming to the contour of part of the opening in said wall, said hood in combination with said end wall collectively shielding direct rays of light emanating from said lamp through said opening, said hood having an opaque end wall spaced with respect to the end wall of said cylindrical portion, and said end walls having overlapping portions.

2,323,979
CONTROL MECHANISM FOR METALWORKING MACHINES
Edmund A. Doyle, Brooklyn, N. Y., and Edward Meincke, Scotch Plains, and Arthur M. Keller, Livingston, N. J., assignors to The Linde Air Products Company, a corporation of Ohio
Application February 15, 1941,
Serial No. 378,999½
14 Claims. (Cl. 266—23)



1. Apparatus for surface conditioning a rectangular metal body comprising a conveyor for longitudinally moving said body; mechanism for applying surface conditioning gas streams against

opposite sides of said body, said mechanism including two heads adjustable toward and away from each other, and power-driven means for moving at least one of said heads toward and away from the other; transversely movable gauging means positioned along the path of movement of said body and adapted to be shifted transversely by said body in accordance with the width of said body between said sides; and control means operable by the movement of said gauging means for actuating said power-driven means until the separation distance between said heads is correlated with the position of said gauging means as determined by the width of said body to be conditioned.

2,323,980

MANUFACTURE OF ORGANIC COMPOUNDS

Henry Dreyfus, London, England, assignor to Celanese Corporation of America, a corporation of Delaware

No Drawing. Application May 8, 1941, Serial No. 392,494. In Great Britain June 4, 1940

4 Claims. (Cl. 260—459)

2. Process for the production of an amine salt of an acid sulphate of an alcohol, which comprises heating together the alcohol and the acid sulphate of an alkylene diamine having a boiling point above 100° C.

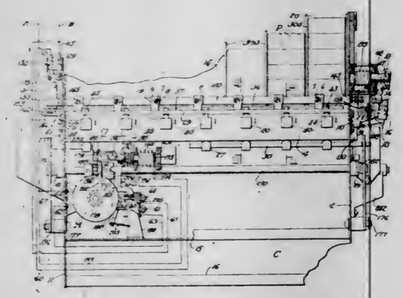
2,323,981

COIN-CONTROLLED VENDING MACHINE

Francis C. Du Grenier, Haverhill, and Frank B. Perri, Groveland, Mass.; said Perri assignor to Blanche E. Bouchard, Haverhill, Mass.

Application July 28, 1941, Serial No. 404,320

17 Claims. (Cl. 194—10)



10. In a vending apparatus, in combination, control mechanism having a member movable from an operation preventing position to an operation permitting position, an actuator adapted to be moved to actuate said control mechanism when said member is in said operation permitting position, setting mechanism operative for moving said member from said preventing to said permitting position, coin actuated means for operating said setting mechanism step by step for each predetermined coin unit value of the coin or coins deposited, and means for adjusting said setting mechanism so that it must be operated through a predetermined number of steps to move said member from its preventing to its permitting position.

2,323,982

MANUFACTURE OF WHITE LEAD

Edward J. Dunn, Jr., Manhasset, N. Y., assignor to National Lead Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application October 31, 1939, Serial No. 302,137

2 Claims. (Cl. 23—70)

1. The process of producing white lead which comprises charging a lead oxide-finely divided metallic lead mixture in which the metallic lead content is present in an amount between about 10 percent and about 55 percent of the mixture total into a slowly revolving receptacle, introducing therein a gas containing carbon dioxide, keeping the charge damp with water for an initial period of about from one to five hours, thereafter maintaining the dampened condition of the charge by the addition of a dilute acetic mineral acid, then allowing the charge to corrode for a period of about thirty to fifty hours during which time the charge is kept dampened by the addition of water alone, and washing and drying the white lead thus produced.

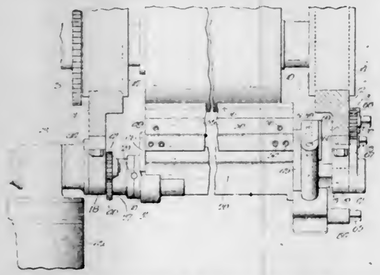
2,323,983

DOCTOR BLADE MECHANISM

William H. Edmondson, Oak Park, Ill., assignor to United Biscuit Company of America, a corporation of Delaware

Application June 21, 1941, Serial No. 399,103

10 Claims. (Cl. 101—157)



1. In doctor mechanism, the combination of an axially fixed but rotatably adjustably mounted shaft, a doctor blade structure longitudinally slidably and non-rotatably mounted on said shaft, relatively rotatable and axially shiftable cam and cam engaging members concentric with said shaft, said members being relatively axially shiftable as an incident to relative rotation therebetween, one of said members being anchored to said doctor blade structure in fixed relation thereto, means for holding the other of said members in axially fixed position, means for effecting relative rotation of said cam and cam engaging members, and means for effecting rotary adjustment of said shaft, thereby to effect corresponding adjustment of the doctor blade structure mounted thereon.

2,323,984

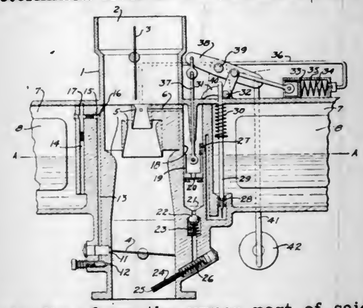
CARBURETOR

George R. Ericson, Kirkwood, Mo., assignor to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware

Application December 26, 1940, Serial No. 371,607

3 Claims. (Cl. 261—37)

1. In a carburetor, a main air passageway, a throttling valve in said passageway, a venturi in said passageway anterior to the throttle, a fuel chamber, means for maintaining a substantially constant predetermined level of fuel in said chamber, a fuel well, a fuel passageway leading from said fuel chamber and communicating with said fuel well at a point above the predetermined level of fuel, a suction passage-



way leading from the upper part of said well above the level of fuel to said venturi, and a continuously operable fuel pumping device arranged to receive fuel from the lower part of said well and to discharge same under pressure into said air passageway.

2,323,985

DIAPHRAGM

Arthur J. Fausek and Irwing F. Fausek, Clayton, Mo.

Application March 17, 1941, Serial No. 383,884

1 Claim. (Cl. 137—156.5)



In a diaphragm, a plurality of annular diaphragm sections assembled to provide an expansible and contractile bellows-type wall, said annular diaphragm sections including each; an annular wall portion which extends at an angle to the axis of said bellows-type diaphragm wall, an outer marginal flange and an inner marginal flange, said flanges extending in opposite directions, with the inner flange of one section lying outside of and overlapping the inner flange of a second, adjacent section and being welded thereto, and the outer flange of said second section lying within and overlapping the outer flange of a third section and being welded thereto, the diaphragm formed by said assembly being reinforced by solid rings, said rings being secured by welding the same to said inner flanges.

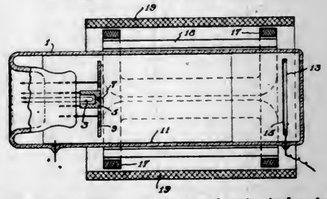
2,323,986

CATHODE RAY TUBE

Leslie E. Flory, Oaklyn, and Arthur W. Vance, Haddonfield, N. J., assignors to Radio Corporation of America, a corporation of Delaware

Application March 1, 1941, Serial No. 381,216

2 Claims. (Cl. 250—161)



1. In combination, a thermionic tube including an element for producing electron rays by thermionic emission, magnetic means for maintaining said rays in a beam whose cross-sectional area remains substantially constant throughout its length and whose cross-sectional area is substantially equal to the area of the electron-emissive area of said element, a target for said beam, means for causing said beam to scan said target, means for producing an electric field of increasing potential in a direction away from said element and whose equal potential areas are substantially flat in the region of the electron beam throughout its scanning range.

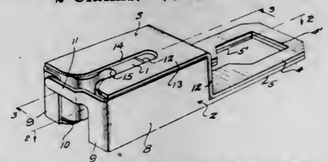
2,323,987

YARN GUIDE FOR TWISTING FRAMES

James Foster, Bristol, R. I., assignor of one-half to Joseph F. Brum, Bristol, R. I.

Application July 29, 1942, Serial No. 452,778

2 Claims. (Cl. 242—154)



1. A thread guide for attachment to a twisting frame comprising an elongated rectangular shell having a pair of longitudinally extending top and bottom slots therein for passage of the thread through the shell and extension parts at one end thereof for attaching the same to said frame, a rectangular guide block fitted in said shell for sliding movement lengthwise of the shell in opposite directions, respectively, and provided with a central slot for straddling the thread, and spring means in said shell yieldingly opposing movement of the block in one direction.

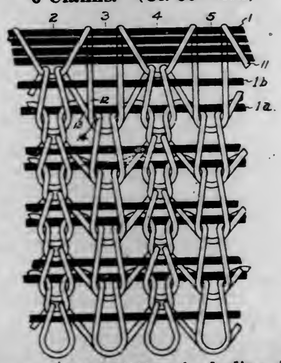
2,323,988

KNITTED FABRIC AND METHOD

Oscar Fregeolle, Central Falls, R. I., assignor to Hemphill Company, Central Falls, R. I., a corporation of Massachusetts

Application May 1, 1941, Serial No. 391,231

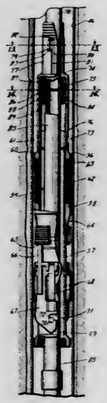
6 Claims. (Cl. 66—172)



1. A method of knitting including the feeding of elastic and inelastic yarns, said elastic yarn being fed in the initial course to form a selvage and thereafter inlaid at spaced wales in each course and the inelastic yarn being so fed and knitted as to be drawn into independent stitches at alternate wales in consecutive courses but held and tucked at intermediate wales, whereby alternate strands of elastic will be inlaid to be held at

intermediate wales while intermediate strands of elastic will be threaded between tuck loops in intermediate wales and plain loops at alternate wales.

2,323,989
CONTROL HEAD PACKER
Richard E. Fulkerson, Coffeyville, Kans., assignor to The Exner-Dodge Packer Company, Coffeyville, Kans., a corporation of Kansas
Application November 4, 1940, Serial No. 364,209
5 Claims. (Cl. 166—12)

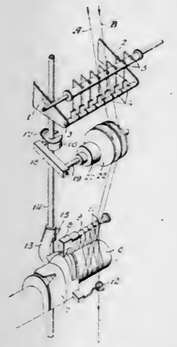


1. A control head for a packer having a tubular body to relieve pressure below the packer when running and setting the packer in a well, a sleeve member having ports intermediate the ends thereof, a valve member having sliding contact with the sleeve member, a tubing, means connecting one of said members with the tubing and the other with the tubular body member of the packer, a tubing guide encircling the tubing with the tubing extending slidably therethrough and having a longitudinal slot provided with a notch at the upper end thereof, and a lug on said tubing adapted to engage in said notch when running in and setting the packer to support the valve member from covering relation with said ports, said lug being movable into said slot responsive to partial rotation and longitudinal movement of the tubing to bring the valve member in valving relation to said ports.

2,323,990
PROCESS FOR CARRYING OUT ANION EXCHANGE REACTIONS
Lothar Gerb, Berlin-Charlottenburg, Germany, assignor to The Permutit Company, New York, N. Y., a corporation of Delaware
No Drawing. Application May 13, 1941, Serial No. 393,243. In Germany July 30, 1940
9 Claims. (Cl. 210—24)

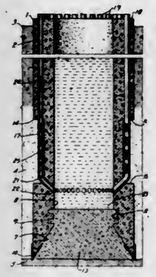
1. A process for treating an aqueous solution containing anions which comprises maintaining the content of dissolved oxygen in said aqueous solution at a value below about one part per million and passing said aqueous solution in contact with anion exchange material containing basic hydroxyl groups while the dissolved oxygen content is maintained at said value.

2,323,991
YARN TWISTING
Jules E. Halin, Drummondville, Quebec, Canada, assignor to Celanese Corporation of America, a corporation of Delaware
Application September 19, 1941, Serial No. 411,536
11 Claims. (Cl. 57—90)



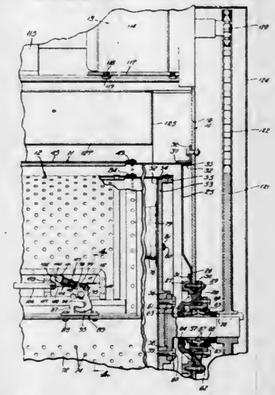
1. A method of doubling a plurality of yarns, which comprises taking the yarns from a source of supply with a substantially equal tension on each yarn, causing one yarn to travel a greater distance than the other yarn or yarns, the yarn traveling the shortest distance governing the speed of travel of all the yarns, causing stretching of the yarn travelling the shorter distance so as to effect a differential tension on the yarns and applying twist to said yarns whereby in the twisted yarn the component yarns are of substantially equal length.

2,323,992
WELL SHAFT
Lyman Lynch Hardeman, Leavenworth, Kans.
Application May 7, 1941, Serial No. 392,220
4 Claims. (Cl. 166—5)



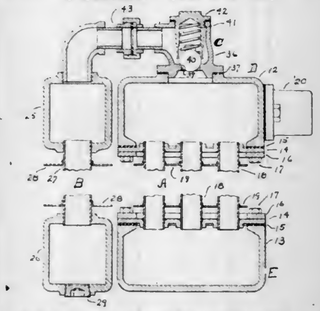
1. In a well shaft of the character described, a tubular body member having an exterior annular recessed portion in spaced relation to the lower end of the shaft defined by shoulders, the lower shoulder being wider than the upper shoulder to reduced skin friction of the shaft above said lower shoulder during sinking thereof, and pipes in the shaft opening into the interior of the shaft adjacent the lower ends thereof and having intermediate portions extending across the recessed portion, said intermediate portions of the pipes being provided with openings at the recessed portion of the shaft for providing communication through the pipes from the interior of the shaft to the exterior thereof.

2,323,993
WASHING MACHINE
Leo M. Harvey, Los Angeles, Calif.
Application August 14, 1940, Serial No. 352,582
3 Claims. (Cl. 68—140)



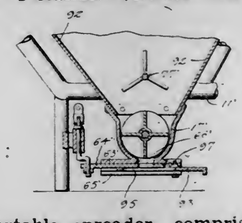
1. In a washing machine, a frame including a pair of end members having aligned openings, a shell arranged between and supported by the end members, the shell comprising a tubular wall and ends for the wall, said ends having openings registering with the first named openings, a cylinder within the shell, trunnions detachably secured to the cylinder and entering the registering openings, carriers in the openings of the end members, means for detachably securing the carriers to the end members and serving to attach the shell ends to the end members adjacent said openings, sealing means on the carriers for sealing about the trunnions, cartridges in the carriers, and bearings in the cartridges rotatably supporting the trunnions.

2,323,994
OIL COOLER
John J. Hilt, Racine, Wis., assignor to Young Radiator Company, Racine, Wis., a corporation of Wisconsin
Application November 4, 1940, Serial No. 364,236
2 Claims. (Cl. 257—2)



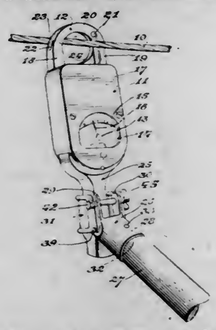
1. A device of the class described, comprising two separate heat exchangers each comprising spaced headers and finned tubes forming operating connections therebetween, two faces of said heat exchangers being in juxtaposition whereby a single direct air passageway between the fins and tubes of each exchanger are provided, one of said heat exchangers adapted to offer low resistance to the passage of viscous oil through the tubes thereof and the other heat exchanger adapted to offer high resistance to the passage of viscous oil through the tubes thereof, said low resistance exchanger being positioned in front of the high resistance exchanger whereby cooling air may first pass between the tubes and fins thereof and then between the tubes and fins of the other exchanger, inlet and outlet connections in the headers of said high resistance exchanger, operating connections between adjacent headers, a by-pass valve in one of said operating connections having means whereby when the oil is too viscous to pass through the tubes of said high resistance exchanger, it will be permitted to pass through the tubes of said low resistance exchanger and whereby when the oil will pass freely through the tubes of said high resistance exchanger, said valve will be closed.

2,323,995
SPREADER
Hidekichi S. Hiroshima, Culver City, Calif.
Application November 25, 1940, Serial No. 367,108
4 Claims. (Cl. 221—145)



1. A portable spreader, comprising a wheel supported frame, a hopper carried by the frame and having an outlet opening, a driven rotary feeder above the outlet opening, a plate below the hopper and having a slot corresponding to the opening in the hopper, means for shifting said plate to vary the width of the outlet opening, or completely closing the same, a second plate below the first mentioned plate and having an opening of progressively narrowing width, and means for adjustably holding said second plate whereby the length of the discharge opening in the first plate may be varied by a transverse movement of the second plate.

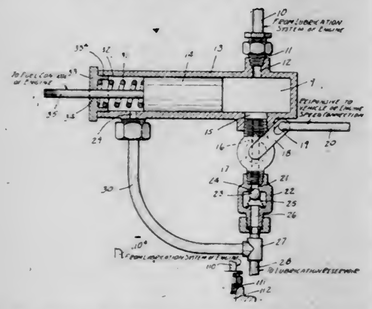
2,323,996
HIGH VOLTAGE ELECTRICAL MEASURING INSTRUMENT
David C. Hubbard, Centralia, Mo., assignor to A. B. Chance Company, Centralia, Mo., a corporation of Missouri
Application September 2, 1941, Serial No. 409,326
8 Claims. (Cl. 171—95)



5. In an electrical instrument for high voltage

lines the combination of a current measuring instrument of the transformer type having a loop for embracing the conductor of the transmission line, said loop having a movable jaw and said instrument having a dial and an indicating needle actuated by a movement, a handle carried by said instrument and an elongated pole for supporting said instrument for use in making measurements on a high voltage transmission line, said pole having a fitting for engaging the handle comprising a stirrup embracing the handle, said stirrup having supporting flanges, a pair of supporting flanges carried by said pole for engaging the supporting flanges of said stirrup, said stirrup having a transversely extending lug for engaging an aperture in said handle of said instrument to prevent longitudinal movement of the handle in the stirrup and connecting means for connecting said pairs of flanges.

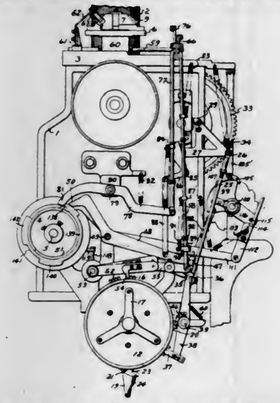
2,323,997
CONTROL SYSTEM
George J. Hughes, Pendleton, Ind.
Application April 19, 1941, Serial No. 389,367
5 Claims. (Cl. 123—103)



1. A throttle control including a cylinder, a source of pressure fluid connected thereto, a speed control device effectively operable upon attainment of a critical speed, a discharge from the cylinder, a valve controlling said discharge and directly responsive to the speed control device when above critical speed for operation in accordance with and by the same, a piston means in said cylinder, and a throttle controlling member connected for movement in accordance with and by piston means in response to the difference between the pressure fluid supplied to the cylinder and discharged therefrom through the speed operable device controlled valve controlled discharge, the piston means being normally constrained for movement in a direction opposed to the pressure fluid responsive direction, a light pressure check valve is included in the discharge downstream of the speed responsive valve therein.

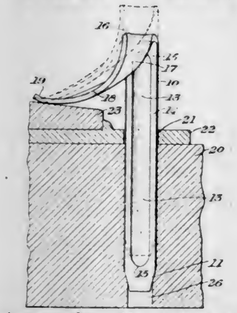
2,323,998
PATTERN MEANS FOR KNITTING MACHINES
Alfred L. Hutton, Jr., Lonsdale, and Isaac H. C. Green and Eugene St. Pierre, Pawtucket, R. I., assignors to Hemphill Company, Central Falls, R. I., a corporation of Massachusetts
Application May 16, 1941, Serial No. 393,694
9 Claims. (Cl. 66—50)

7. In a knitting machine the combination of knitting instrumentalities, cam means for causing said knitting instrumentalities to take yarn and to draw knitted stitches or to take yarn and accumulate loops in the knitting of tuck stitches, and means for changing the sequence of feeding yarns as for horizontal striping including a drum with cams thereon and means for advancing said drum, and a single pattern control means for



determining the knitting of tuck stitches and governing the advance movements of the said drum for changing yarns during horizontal striping.

2,323,999
FASTENER
Kenneth L. Johnson, Sewickley, Pa.
Application February 23, 1940, Serial No. 320,240
4 Claims. (Cl. 85—28)

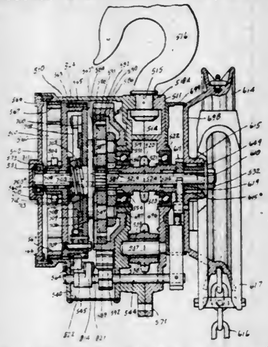


1. A fastener for the purposes described formed of a flat strip of spring steel and comprising a shank arranged to be inserted as by driving into a support, the material of the strip at the upper end of the shank bent across the broad side of the strip providing an impact head and twisted along the axis of the bent portion of the strip providing a leg extended downwardly and sideways parallel to the broad side of the shank to engage from above a member to be fastened to the support, the side of the strip which forms the under side of the free end of the leg being the same side which forms the impact surface of the head at the upper end of the shank.

2,324,000
HOIST STRUCTURE
Raymond H. Johnston, Newtown, Ind., assignor to Coffing Hoist Company, Danville, Ill., a copartnership consisting of Fredrick W. Coffing and Robert R. Bookwalter
Application October 10, 1940, Serial No. 360,562
11 Claims. (Cl. 254—171)

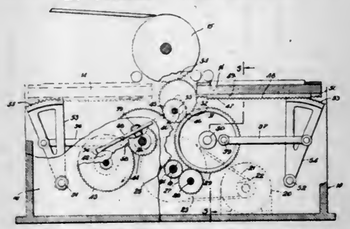
7. In a hoist having a sprocket, a load chain thereon and a housing supporting the sprocket,

the combination of a sprocket supporting shaft, means for rotating the same in one direction for load elevation, a one-way clutch operatively connected to the means and shaft, a brake structure normally constrained to brake application, a control for said brake structure, a one-way clutch operatively connected to the brake structure and shaft, permitting load elevation without brake release, a second one-way clutch operatively connected to the brake structure and shaft, said second and third mentioned clutches being in series with each other, and one of the



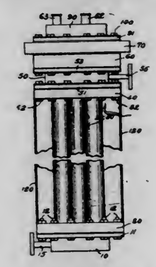
series clutches being of the progressive pressure type, including a clutch plate, a confronting plate, said plates being relatively rotatable, a spiral feed connection for associating the plates together and with pressures corresponding to the power applied thereto, a planetary structure operatively connected to the sprocket and brake structure, and a pawl and ratchet arrangement operatively connected to the housing and planetary structure permitting unitary rotation of the planetary structure in one direction of load movement and requiring planetary action in the opposite direction of load movement.

2,324,001
BED MOTION FOR PRINTING PRESSES
William M. Kelly, Westfield, N. J.
Application December 20, 1940, Serial No. 371,009
17 Claims. (Cl. 74—27)



1. In a printing press, a reciprocating bed movable in constant reciprocatory movement to opposed ends of the press with respect to a centrally disposed impression cylinder, a drive mechanism for said bed comprising, in combination with two pairs of racks arranged centrally and longitudinally of the bed one pair of racks being arranged side by side and the other pair being disposed intermediate the first pair and in end to end relation, a pair of like diameter combination drive gears and cranks centrally of the press, forward and reverse drive pinions arranged above the axis of the drive gears and automatically actuated to engage the first named pair of racks intermittently in the two directional drives of the bed, and gear sectors having fixed pivotal supports at end portions of the press and in operative engagement with said gear cranks for engaging intermittently the other pair of racks in reversing the bed in a complete cycle of press operation.

2,324,002
ELECTROLYTIC CELL
Douglas Joseph Kennedy and Walter Egbert Barker, Shawinigan Falls, Quebec, Canada, assignors to Shawinigan Chemicals Limited, Montreal, Quebec, Canada, a corporation of Canada
Application November 30, 1940, Serial No. 368,068
In Canada September 10, 1940
3 Claims. (Cl. 204—263)

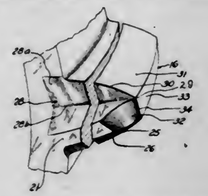


1. An electrolytic cell suitable for the production of chlorine and chromous chloride of the type having a plurality of electrode couples, in which the electrodes are hollow and tubular, each anode extends within the cathode for a major portion of its length, a semi-permeable diaphragm separates each anode from its cathode, comprising in combination, a gas chamber common to said plurality of electrode couples having openings from which the anodes extend downwardly beneath the gas chamber, an anolyte outlet chamber beneath the gas chamber from which semi-permeable diaphragms extend, a catholyte outlet chamber beneath the anolyte outlet chamber from which the cathodes extend downwardly to a catholyte inlet chamber, each anode and semi-permeable diaphragm forming therebetween an anolyte passage extending from the gas chamber to the anolyte outlet chamber, each cathode and its semi-permeable diaphragm forming therebetween a catholyte circulation passage separated from said anolyte circulation passage and extending from the catholyte inlet chamber to the catholyte outlet chamber, a gas exit in the gas chamber, an anolyte inlet in the gas chamber, a gas exit from the anolyte outlet chamber to the gas chamber, an inlet to the catholyte inlet chamber, an outlet from the catholyte outlet chamber and respective electrical connections to the anodes and cathodes.

2,324,003
DOUBLE HELICAL GEAR CUTTER
Harry E. Kitchen, Buffalo, and Gustave H. Hedman, Kenmore, N. Y., assignors to Farrel-Birmingham Company, Inc., Buffalo, N. Y.
Application December 30, 1938, Serial No. 248,460
5 Claims. (Cl. 29—103)

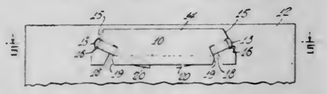
1. A cutter of the pinion type for producing double helical gears comprising tapered teeth of involute profile having cutting faces, each cutting face being formed with a ground facet adjacent the acute flank of the tooth to define a cutting

edge, said edges lying in a plane parallel to the cutter face, a groove in each tooth face adjacent the obtuse flank and defining with said obtuse flank a second cutting edge, said second cutting



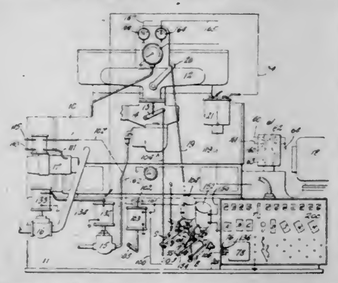
edge being curved relative to said plane and concave relative to the tooth face, said last edge being substantially tangent to said plane at approximately the pitch line of the cutter.

2,324,004
PAPER FASTENER
Edwin Kriegsman, Scarsdale, N. Y., assignor to Green-Kriegsman Paper Co. Inc., New York, N. Y., a corporation of New York
Application September 2, 1942, Serial No. 457,011
5 Claims. (Cl. 24—153)



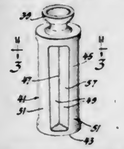
3. A paper fastener of the character described comprising a flat bottom member of relatively flexible paper having laterally extending bendable tongues, and a flat top member of relatively stiff paper having a notch in each end formed with an oblique inner edge over which the tongues may be bent, and a pair of oblique slots in one longitudinal edge, one adjacent each end and substantially parallel to the proximate notch-edge, for insertion therein of the free ends of the bent tongues.

2,324,005
CONTROL SYSTEM FOR INTERNAL COMBUSTION ENGINES
Elwood T. Larkin, Amherst, N. Y., assignor to Sterling Engine Company, Buffalo, N. Y.
Application August 2, 1940, Serial No. 349,747
22 Claims. (Cl. 290—38)



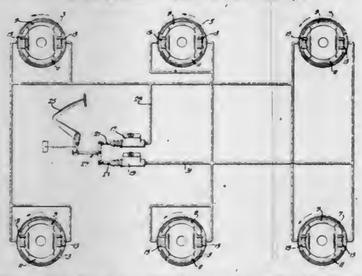
1. The combination with an internal combustion engine, having fuel supply means and an ignition circuit, of a delayed stop system therefor including means for first reducing the supply of fuel to said engine, and means for breaking said ignition circuit, which is operable upon expiration of a period of time after said reduction of fuel supply.

2,324,006
VALVE TAPPET
Arnold Lenz, Grand Blanc, and James F. Miller, Saginaw, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application April 24, 1941, Serial No. 390,026
2 Claims. (Cl. 123—90)



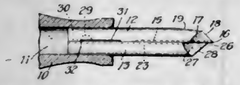
1. A tappet of generally cylindrical outline, said tappet having an axial column disposed centrally of said cylindrical outline, said column terminating in integral end abutments, spaced webs projecting radially from said column and extending axially from one end abutment to the other, said webs being of uniform radial extent between said abutments and enlarged circumferentially at their outer edges to form arcuate guiding surfaces, said surfaces being dimensioned circumferentially to provide spaces therebetween.

2,324,007
EQUALIZED HYDRAULIC BRAKE SYSTEM FOR SIX WHEELED VEHICLES
Earle S. MacPherson, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application November 6, 1942, Serial No. 464,764
3 Claims. (Cl. 188—152)



1. In a brake system for a six wheeled vehicle, three pairs of drums for the wheels, two shoes and shoe spreading means in each drum whereby when both spreading means are actuated each shoe is self-energizing for each direction of drum rotation, first and second applying means, connections whereby the first applying means actuates all the spreading means of a first pair of drums and one only of the spreading means of each drum of a third pair, and other connections whereby the second applying means operates the remaining spreading means.

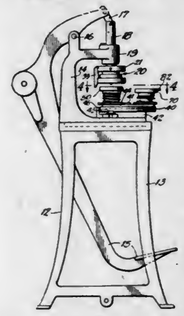
2,324,008
FOUNTAIN PEN
Clinton E. Marshall, Bronx, N. Y.
Application December 31, 1942, Serial No. 470,877
17 Claims. (Cl. 120—43)



1. In writing implements of the class described, a pen-point comprising an elongated

half round body of glass, one end of said body being bevelled to form a writing point at the flat surface of said body, said flat surface having an ink feed groove extending to said point, said ink feed groove terminating short of the other end of said body, and means arranged on the flat surface of said body for feeding ink from a source of supply to the feed groove of said body.

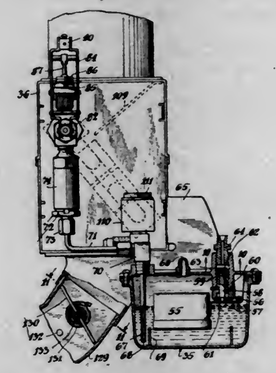
2,324,009
APPARATUS FOR ASSEMBLING OF PILE FABRIC ARTICLES
Lawrence E. McDonough, Park Ridge, Ill., assignor to Maxant Button & Supply Co., a corporation of Illinois
Application November 22, 1940, Serial No. 366,690
6 Claims. (Cl. 223—1)



1. Apparatus for assembling articles covered with pile fabric comprising a female die including a central block and a retractable comb movably carried by and surrounding the block said comb including a plurality of relatively thin circumferentially spaced elements to receive the pile of a fabric between them, said female die being adapted to receive a pile fabric sheet with the pile lying aganist the comb and a flanged frame against the sheet, a male die cooperating with the female die to fold the edges of the sheet around the frame, to insert a retainer ring within the frame flange and to crimp the flange around the ring, and means on the male die to move the comb to retracted position on the female die block during the crimping operation.

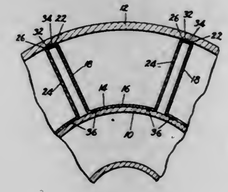
2,324,010
HEATER
Carl E. Meyerhoefer, Brooklyn, and William C. Ballard, Jr., Ithaca, N. Y., and John H. Smoot, Darien, Conn., assignors to E. A. Laboratories, Inc., Brooklyn, N. Y., a corporation of New York
Application February 10, 1940. Serial No. 318,256
1 Claim. (Cl. 126—110)

A combustion-type heater including a casing formed with an upper intake extension, side walls and an outlet, means for circulating air to be cooled through the upper opening of the said casing, the body of the latter, and out of the lower outlet of the same, a tubular heat exchange member in said casing comprising serially connected tubes disposed one above the other in a plane inclined with respect to the side walls of said casing, means providing a combustion chamber disposed within said casing and connected to the upper end of said heat exchange member, means for igniting fuel within said combustion chamber, means for introducing a combustible mixture into said combustion chamber, deflecting means in the upper extension of said casing to direct incoming air towards said heat exchange member, and an angularly disposed shield mounted in said casing and to cooperate with said heat



exchange member to create a maximum velocity flow of air over the uppermost tube of the latter and towards the casing outlet.

2,324,011
BLADE WHEEL
Raymond J. Miller, Detroit, Mich., assignor to Hydraulic Brake Company, Detroit, Mich., a corporation of California
Application September 19, 1940, Serial No. 357,486
5 Claims. (Cl. 103—115)



4. In a hydraulic torque transmitting device, a vaned element comprising an annular core and a series of vane members secured to said core, each of said vane members comprising a sheet metal stamping channel-shaped in section and curved longitudinally around the core and having outwardly extending flanges fitting against and secured to the core, the vane members being assembled on the core with said flanges in abutting relationship to space the vane members.

2,324,012
EXTRACTION OF ORGANIC MATERIALS
Joseph Edward Mitchell, East Rutherford, N. J., assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware
No Drawing. Application May 10, 1940, Serial No. 334,362
9 Claims. (Cl. 260—397.2)

1. A process of separating sterols from organic materials which comprises extracting a substantially anhydrous mixture containing a fatty acid soap and a sterol with a solvent comprising liquid sulphur dioxide.

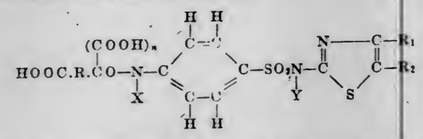
2,324,013

AMINO-SUBSTITUENTS OF SULPHANILAMIDE DERIVATIVES

Maurice L. Moore, Drexel Hill, Pa., assignor to Sharp & Dohme, Incorporated, Philadelphia, Pa., a corporation of Maryland

No Drawing. Application July 31, 1941, Serial No. 404,924
16 Claims. (Cl. 260—302)

1. Para-carboxyacylaminobenzenesulphonamido-thiazoles prepared for use as a therapeutic and selected from the group consisting of those having the general formula:



and the carboxylates thereof, in which R is the residue of a polycarboxylic acid stripped of its carboxyl groups; *n* is selected from zero and any whole number less than five; X and Y are each separately and independently a member of the class consisting of hydrogen and alkyl, aralkyl and aryl radicals; and the thiazole ring together with R_1 and R_2 attached to that ring represent a member of the class consisting of thiazole radicals.

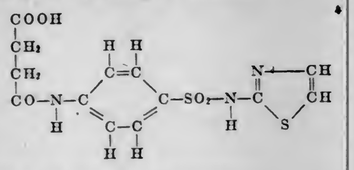
2,324,014

SUCCINYLSULPHATHIAZOLE

Maurice L. Moore, Detroit, Mich., assignor to Sharp & Dohme, Incorporated, Philadelphia, Pa., a corporation of Maryland

No Drawing. Original application July 31, 1941, Serial No. 404,924. Divided and this application April 17, 1943, Serial No. 483,399
2 Claims. (Cl. 260—239.6)

1. 2-N^4-succinylsulphanilamidothiazole, represented by the structural formula



prepared for use as a therapeutic.

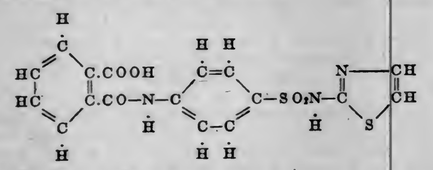
2,324,015

PHTHALYLSULPHATHIAZOLE

Maurice L. Moore, Detroit, Mich., assignor to Sharp & Dohme, Incorporated, Philadelphia, Pa., a corporation of Maryland

No Drawing. Original application July 31, 1941, Serial No. 404,924. Divided and this application April 17, 1943, Serial No. 483,400
2 Claims. (Cl. 260—239.6)

1. 2-N^4-phthalylsulphanilamidothiazole, represented by the structural formula



prepared for use as a therapeutic.

2,324,016

METHOD OF MAKING RAZOR BLADE PACKAGES

Ross Nadeau, Newark, and Anton Rothschmitt, Irvington, N. J., assignors to Club Razor & Blade Manufacturing Corp., Newark, N. J., a corporation of New Jersey

Application August 15, 1940, Serial No. 352,706
7 Claims. (Cl. 93—2)



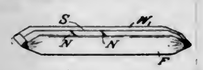
1. In a method of wrapping razor blades of the character described the steps comprising moving a strip of blade wrapping material axially, blanking out opposed portions of said moving strip adjacent the longitudinal edges thereof to form pairs of end flaps, intermittently depositing razor blades on said moving strip with the longitudinal axes of said blades at right angles to the axis of said strip, scoring said end flaps to provide fold lines therefor at points coinciding with the unsharpened end edges of said blades and transversely cutting said moving strip between each pair of adjacently disposed blades.

2,324,017

CIGAR ENVELOPING

Joseph A. Neumair, Hollis, N. Y., assignor to International Cigar Machinery Company, a corporation of New Jersey

Original application June 8, 1937, Serial No. 147,003. Divided and this application March 25, 1939, Serial No. 264,075
3 Claims. (Cl. 229—51)



1. As a new article of manufacture, a cigar enfolded transversely by a wrapper fabricated of sheet metal foil with an outstanding longitudinal heat-sealed seam constituted by contiguous matched marginal portions of said wrapper having at least one stratum of heat-sensitive material adhered to the metal faces of said margins at their mutually contiguous areas, said seam being interrupted by a plurality of transverse slits through both of the edges of said seam defining between them a tongue portion so disposed as to be grasped readily and when pulled in a direction lengthwise of and across said tongue portion to rupture the adjoining wrapper structure and free it for complete removal, leaving the cigar intact, at least one slit on each of the matching marginal portions extending inwardly across the seam and coinciding with a similar slit on the other matching edge of the wrapper.

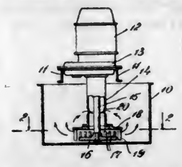
2,324,018

FLOTATION CELL

Louis Steffen Petersen, Forest Hills, N. Y., assignor to F. L. Smidth & Co., New York, N. Y., a corporation of New Jersey

Application February 5, 1941, Serial No. 377,467
In Great Britain February 27, 1940
14 Claims. (Cl. 209—169)

1. Apparatus for froth flotation which comprises a tank having a solid bottom which is directly exposed to the interior of the tank and on which solids may collect, a pair of rotors mounted for rotation on the same vertical axis within the



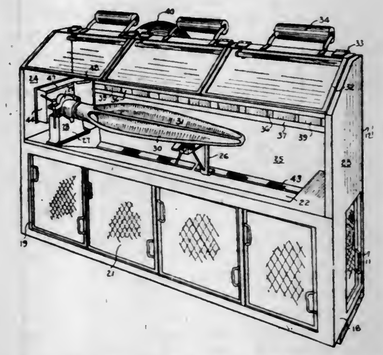
tank, at least one of said rotors lying close to the bottom of the tank, and means for rotating the rotors at different speeds.

2,324,019

WORK CABINET

Alfred C. Pfau, Jeffersonville, Ind., and John G. Liskow, Louisville, Ky., assignors to American Air Filter Company, Inc., Louisville, Ky., a corporation of Delaware

Application May 18, 1942, Serial No. 443,388
5 Claims. (Cl. 51—273)



1. A work cabinet for the machining of relatively elongate workpieces such as propeller blade sections comprising: a housing having a work space to receive a workpiece and a front opening providing working access to said space; work supports in said space for the workpiece; suction means communicating with the rear of said work space to draw air over the workpiece and remove the air together with the dust incident to a local machining operation on the workpiece; and manually adjustable means for shifting the location of the suction communication with said work space over a range of positions enabling the location to be varied in accordance with variations in the location of a machining operation on the workpiece.

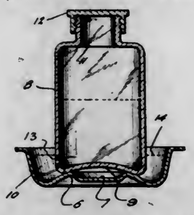
2,324,020

POULTRY FOUNTAIN

James L. Pinson, Cairo, Ga.

Application September 9, 1941, Serial No. 410,216
1 Claim. (Cl. 119—77)

A poultry fountain comprising a pan, an annular rib rising from the bottom of the pan having sloping walls and forming a shallow well at the center of the pan and an annular round bottomed trough adjacent the sides of the pan, and a closed vessel having a concaved bottom with a portion thereof resting on the sloping walls of the rib to entirely support the vessel on said rib said rib concentrically engaging the concaved portion of the bottom of the vessel to maintain the vessel in spaced relation from the walls of the pan, said vessel being adapted to contain water and having



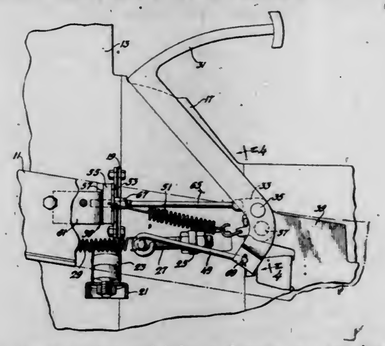
a discharge port adjacent its bottom below the upper edge of the pan for supplying the pan with water to a level above the port.

2,324,021

SNUBBER FOR ENGINE MOUNTINGS

Robert S. Plexico, Royal Oak, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application July 19, 1941, Serial No. 403,091
4 Claims. (Cl. 180—64)



1. In a motor vehicle, a frame, an engine, deformable cushions to support said engine, a clutch throwout lever, a clutch pedal, connections therebetween whereby depression of the pedal releases the clutch through the instrumentality of said connections and lever, a normally inoperative snubber to resist oscillations of said engine, said snubber comprising a block of resilient deformable material between engine and frame carried parts, secured to one of said parts, and push rod means actuated by said pedal to forcibly press said block against the other part whereby the block may function in shear to resist said oscillation, together with a link pivoted to a second frame carried part, said pedal pivoted to said link whereby said pedal may first pivot about its joint with the clutch operating connection and render said block active and thereafter rotate about its pivot with the link to release the clutch.

2,324,022

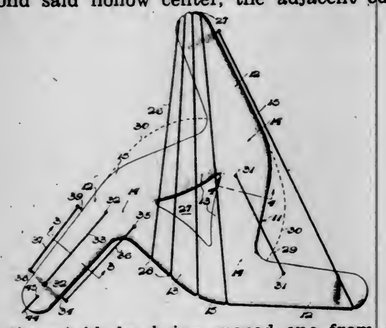
AERIAL DEVICE

Robert H. Prausé, Jr., Astoria, Oreg.

Application October 9, 1940, Serial No. 360,496
5 Claims. (Cl. 273—106)

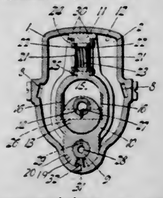
5. A boomerang comprising at least three blades secured together in a manner whereby one edge of each blade with one edge of each of the remaining blades defines a closed hollow center, each of said blades being of sufficient length to have at least one end extend a material distance

beyond said hollow center, the adjacent edges



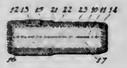
of adjacent blades being spaced one from the other.

2,324,023
PUMP
Anton Rappl, Buffalo, and Erwin C. Horton, Hamburg, N. Y., assignors to Trico Products Corporation, Buffalo. N. Y.
Application August 2, 1939, Serial No. 287,979
9 Claims. (Cl. 230—159)



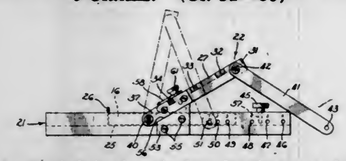
1. A pump comprising a casing having a chamber with inlet and outlet means, a shaft arranged in the chamber adjacent one wall thereof, a web extending between the wall and shaft and closing the space therebetween, a fluid displacing member dividing the chamber into pumping compartments and having a bearing receiving the shaft, said bearing being formed with a segmental cut-out to straddle the shaft and extend on opposite sides of the web with sufficient clearance to permit oscillation of the displacing member, and means for oscillating the fluid displacing member.

2,324,024
PIEZOELECTRIC UNIT
John H. Ream, Cleveland, Ohio, assignor to The Brush Development Company, Cleveland, Ohio, a corporation of Ohio
Application July 7, 1941, Serial No. 401,318
14 Claims. (Cl. 171—327)



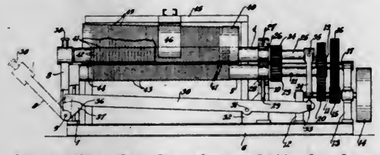
1. A substantially moistureproof covering for a water soluble crystal unit comprising, in combination, a surface coating of substantially moistureproof material adhered to said crystal unit, substantially moistureproof foil means around said surface coating, and an outer coating of substantially waterproof material around said foil means; said outer coating, said foil means, and said surface coating establishing respectively first, second and third barriers to the passage of water to the crystal, and said surface coating preventing the spreading of moisture between the said crystal unit and the said foil means.

2,324,025
DENTAL TOOL GRINDER
John H. Revell, Alhambra, Calif.
Application May 13, 1940, Serial No. 334,787
6 Claims. (Cl. 51—59)



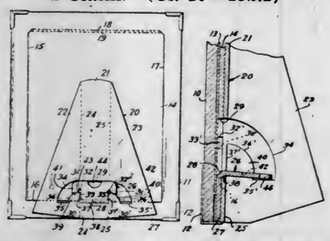
5. A dental-tool grinder having: a base; a grinding stone mounted on said base for grinding movement; a tool support near said stone, said tool support determining a tool-support plane and being adjustable for movement in a plane perpendicular to the stone to various angles relative to the stone; and means on said tool support for holding dental tools at selected positions in said tool-support plane at predetermined angles relative to said perpendicular plane.

2,324,026
TUBE CORRUGATING APPARATUS
Edmund W. Riemenschneider, Canton, Ohio, assignor to The Union Metal Manufacturing Company, Canton, Ohio, a corporation of Ohio
Application November 8, 1940, Serial No. 364,859
9 Claims. (Cl. 153—73)



1. Apparatus for forming relatively deep circular corrugations in tubes, including an upper grooved mandrel roll around which the tube is positioned, a lower roll having grooves opposite the grooves in the upper roll, means for driving the rolls in opposite directions, and a plurality of rods adapted for being successively passed between the tube wall and lower roll in the lower roll grooves for successively rolling the tube wall into the grooves of the upper roll to form circular corrugations in the tube, said lower roll grooves being adapted for moving the rods between the tube and the lower roll when the rolls rotate.

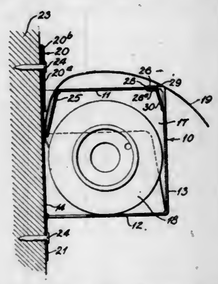
2,324,027
PICTURE FRAME EASEL
George Rosenberg and Louis Spiselman, New York, N. Y.
Application February 11, 1943, Serial No. 475,561
1 Claim. (Cl. 40—152.1)



In an article of the character described, a back sheet having cuts therein dividing the sheet into a rim and into an inner back part

fitted into the rim and swingable relatively thereto, an easel sheet having a central part secured to the back part and overlapping the rim, said easel sheet having an opening therein and a pair of spaced quadrants projecting into the opening, said easel sheet having side flaps extensible to a position perpendicular to the back part, and a locking member having a central portion upstanding from the rim between the quadrants and entering the opening of the easel sheet and having side flaps partly overlapping the quadrants, each of said side flaps being separated from the central portion of the member by a groove, said locking member being swingable out of the plane of the rim to a position substantially perpendicular thereto and receiving the quadrants in the respective grooves thereof to lock the easel sheet and the back part to the rim and also to lock the easel flaps together.

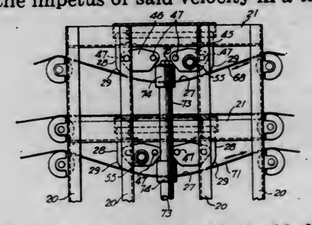
2,324,028
STRIP DISPENSING CARTON
Harry J. Rossi, Bronx, N. Y., assignor to Fibre Cord Company, division of Kary-Safe Co., Inc., New York, N. Y., a corporation of New York
Application December 14, 1939, Serial No. 309,178
8 Claims. (Cl. 206—58)



1. A dispensing device of the character described comprising a container formed from foldably related parts, one wall of said container being provided along one edge thereof with a discharge passage opening into the interior of said container, the container forming a support for a strand-like element, means centrally of another edge of said container for severing said element, means adjacent said discharge passage cooperating with said element to prevent accidental movement of an end portion of said element with respect to said container, said last named means comprising a foldable flap extending from one edge of one wall into the interior of said container and bearing against said strip and another wall of the container.

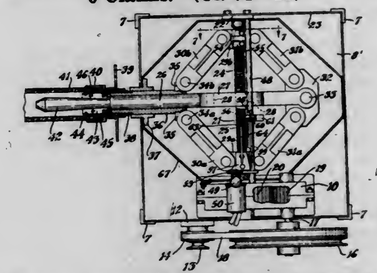
2,324,029
HEATING MEANS FOR IRONERS
Joseph B. Sando, Kansas City, Mo., assignor to Western Laundry Machinery Company, a corporation of Missouri
Application December 6, 1940, Serial No. 368,836
20 Claims. (Cl. 38—66)

20. In an ironing machine, a stationary ironing member having a hollow sheet metal body portion forming a chamber, said chamber being constantly open to the atmosphere at a point near the bottom thereof to maintain a body of air at atmospheric pressure therein, said chamber having a wall on one side only thereof the outer face of which is an ironing surface, said wall being imperforate, and means for heating said wall comprising means mounted entirely within said chamber for discharging a heated liquid at high velocity against the inner face of only said wall at an oblique angle to sweep rapidly thereacross under the impetus of said velocity in a thin body,



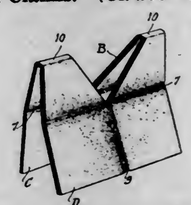
and means for draining said liquid from said chamber by gravity at atmospheric pressure at a rate to maintain all the liquid therein in motion and prevent accumulation of said liquid therein.

2,324,030
HOSE COUPLING ATTACHING APPARATUS
John C. Schellin, Rutherford H. Hunter, and Earl J. Housekeeper, Wooster, and Florian Vern Calhoun, Millersburg, Ohio, assignors to The Wooster Brass Company, Wooster, Ohio, a corporation of Ohio
Application June 21, 1941, Serial No. 399,146
6 Claims. (Cl. 74—38)



1. Power mechanism for producing relative movement between two axially aligned movable members, including a toggle linkage connected at one end to one of said members and at the other end to the other member for producing axial movement of both members in opposite directions, means for actuating said toggle linkage, and means on said toggle linkage for controlling the operation of said actuating means.

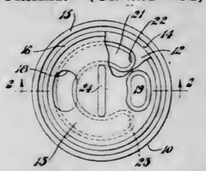
2,324,031
CORNER PROTECTOR
Joseph W. Schiffenhaus, Newark, N. J., assignor to Schiffenhaus Bros., Newark, N. J., a corporation of New Jersey
Application September 30, 1942, Serial No. 460,306
4 Claims. (Cl. 206—46)



1. A corner protector comprising a sheet of material having a quadrangular opening therein

and fold-lines each extending transversely of said sheet between one of two opposite angles of said opening and one edge of the sheet, there being other transverse fold-lines each extending across the sheet in close proximity to the apex of one of the other angles of said opening and there being also a longitudinal fold-line extending from the apex of each of the last-mentioned two angles to the adjacent edge of the sheet, whereby said sheet can be folded transversely along the first-mentioned transverse fold lines to form two superposed layers, then both layers can be folded in the same direction along the other transverse fold lines, respectively, and along said longitudinal fold-lines so that the sides of said opening form miter-edges to permit said protector to conform to and overlie the three sides of a polyhedral corner.

2,324,032
CONTAINER
Raymond M. Schlabach, Canton, Ohio
Application February 19, 1941, Serial No. 379,613
7 Claims. (Cl. 221—64)



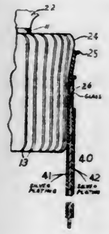
1. In closure construction for a container and the like, a wall having formed therein an opening and a curved channel formed separately in the wall from the opening and having ends spaced from the opening, the curved channel being circular and being arcuately alined with the opening, a rotary disk at one side of the wall, the rotary disk having formed therein an opening registerable with the wall opening, and the disk having on its side adjacent the wall a plug spaced from the disk opening and rotatable with the disk into and out of the wall opening and from and in the curved channel, and spring bearing ring means extending from the wall over outer peripheral portions of the disk and retaining the disk against the wall.

2,324,033
KERF CUTTING APPARATUS
Leon E. Simmons, Claremont, N. H., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Application May 13, 1939, Serial No. 273,511
7 Claims. (Cl. 262—33)



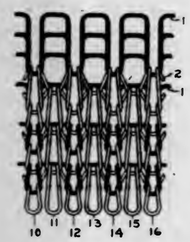
7. A cutter bar mounting comprising a support having longitudinal guideways, a hanger fame mounted on said support for adjustment on the guideways thereof, said hanger frame having guideways parallel with said support guideways, a bar member slidably mounted on said frame guideways and adapted to guide a cutter chain about its margin, and means for adjusting said frame relative to said support guideways to vary the tension of the cutter chain, said bar member being slidable on said frame guideways to loosen the cutter chain independently of any adjustment of said adjusting means.

2,324,034
AIR-COOLED POWER AMPLIFIER
Andrew A. Skene, Glen Ridge, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application April 23, 1942, Serial No. 440,161
7 Claims. (Cl. 250—27.5)



1. In combination, a thermionic tube comprising an anode having a cooling fin assembly in which heat is generated external to the envelope of the tube, a condenser for connecting the anode to ground for alternating currents, said condenser being constituted by a cylinder of dielectric material having an electrically conductive covering on its outer surface and another electrically conductive covering on its inner surface, connecting means for connecting one covering of said cylinder to the anode and the other covering to ground, holding means for holding at least a portion of the anode cooling fin assembly within the confines of said cylinder, generating means for generating a flow of air from an outlet, and joining means for connecting said outlet to the cylinder for causing the cylindrical condenser to serve as a duct for guiding the flow of air to the anode fin assembly for dissipating the heat generated in said assembly.

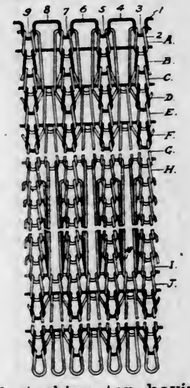
2,324,035
SELVAGE FOR KNITTED FABRICS
William L. Smith, Jr., Pawtucket, R. I., assignor to Hemphill Company, Central Falls, R. I., a corporation of Massachusetts
Application June 14, 1939, Serial No. 279,139
4 Claims. (Cl. 66—172)



4. A method of knitting a selvage at the beginning edge of a circular, seamless knitted stocking top including the step of drawing a plurality of courses of elastic yarn so that at each said course a loop of said elastic yarn will temporarily be formed at what are to be alternate needle wales in the said top, then drawing a course of non-elastic yarn by forming needle loops of said yarn, one at each wale of the fabric, and a sinker loop between each said needle loop and drawing said course of non-elastic yarn while simultaneously casting off all the previously drawn courses of elastic yarn so that they will be held by the course

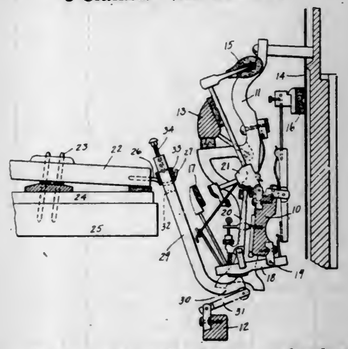
of non-elastic yarn in such a manner that each of them is threaded through all the sinker loops of the said initial course, each strand lying parallel to the next and all being threaded through the sinker loops in the same direction.

2,324,036
KNITTED FABRIC AND METHOD
William L. Smith, Jr., Pawtucket, R. I., assignor to Hemphill Company, Central Falls, R. I., a corporation of Massachusetts
Application March 11, 1942, Serial No. 434,275
14 Claims. (Cl. 66—172)



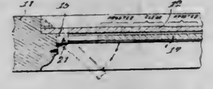
1. A knitted stocking top having elastic and inelastic yarns incorporated therein, the elastic yarn being so incorporated under tension as to be held at spaced wales to draw said wales together and further, being incorporated for a few courses at the edge of the fabric, then withdrawn leaving a plurality of courses knitted without elastic and followed by courses in which elastic yarn is again incorporated, and in said plurality of courses, the construction being such that the inelastic yarn is tucked at wales intermediate said spaced wales thereby to create a barrier resistant to curling or rolling of said stocking top.

2,324,037
PIANO ACTION
Francis C. Socin, St. Charles, Ill., assignor to The Rudolph Wurlitzer Company, Chicago, Ill., a corporation
Application February 19, 1942, Serial No. 431,492
3 Claims. (Cl. 84—240)



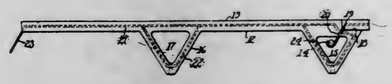
1. In an upright piano having a keyboard and string, a hammer action mounted in front of said string with a wippen disposed below the level of the keyboard, a key fulcrumed on said keyboard, a rigid drop lever sticker extending downwardly from adjacent the operative end of said key with its lower end positioned to impart movement to said wippen, said sticker being provided adjacent its upper end with an opening normally in alignment with the operative end of the key, and a hook-like metal extension member having one end extending into the operative end of said key and the other end extending toward said action through the opening in said sticker and in operative engagement therewith for transmitting movement from the key to said sticker.

2,324,038
MOVABLE SHADE
Virgil V. Steele, Los Angeles, Calif.
Application December 17, 1941, Serial No. 423,378
1 Claim. (Cl. 20—60)



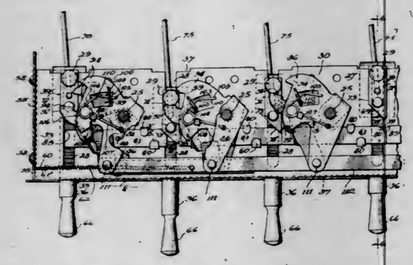
A shade comprising a sash, a pane mounted in the sash having alternate clear and translucent portions, a frame including top and bottom channel members arranged with their open sides in facing relation, said frame fitting within the sash in contact with the sash pane, a shade pane of a width less than the frame and said sash pane having alternate clear and translucent portions, said shade pane being mounted in said frame with its upper and lower portions slidably mounted in said channel members to adapt it to be moved with relation to said sash pane to register the clear portions of the shade pane with the corresponding portions of the sash pane or register the translucent portions of the shade pane with the clear portions of the sash pane, and means securing the frame to the sash comprising a hinge so as to adapt the shade pane to be swung out of operative relation to the sash pane.

2,324,039
PREFABRICATED CONSTRUCTION UNIT
Charles W. Stone, Mooresville, Ind.
Application May 31, 1941, Serial No. 396,103
8 Claims. (Cl. 72—30)



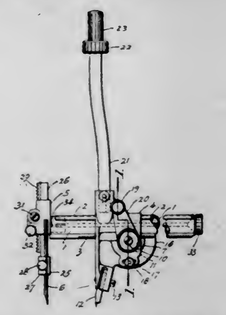
1. A prefabricated construction unit comprising a slab of hardened, originally plastic, material having a substantially plane front face, a hollow rib projecting from the rear face of said slab and defining a chamber having its axis, substantially parallel with said front face, a rearward step formed at said end of said slab to provide a surface parallel with said front face and spaced rearwardly therefrom a distance equal to the thickness of the body of said slab, a port leading from the innermost edge of said last-mentioned surface rearwardly and inwardly into said chamber, and a reinforcing rod disposed within the body of said slab, one end of said rod projecting angularly from the opposite end of said slab, the axis of said port being parallel with the axis of the angularly projecting end of said rod.

2,324,040
VENDING MACHINE
Harry B. Stoner and Robert D. Stayton, Aurora, Ill., assignors to Stoner Manufacturing Corporation, Aurora, Ill., a corporation of Illinois
Application December 31, 1938, Serial No. 248,658
14 Claims. (Cl. 194—57)



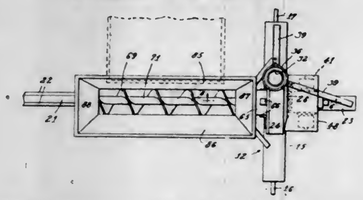
1. In a device of the character described comprising a plurality of stacks for supporting commodities therein, operating means associated with each of said stacks for causing said commodities to be delivered from said stack one by one and normally held inoperative, a coin-control mechanism associated with said device for releasing said operating means, means for connecting each of said operating means with said coin-control mechanism including a plurality of pivoted lever members each associated with one of said operating means and movable upon actuation thereof, a single bar member movable when said coin-control mechanism is unlocked, and providing linking connection between each of said pivoted levers and said coin-control mechanism.

2,324,041
GEOMETRICAL INSTRUMENT
Lew Suverkrop, Bakersfield, Calif.
Application June 14, 1940, Serial No. 340,601
16 Claims. (Cl. 33—27)



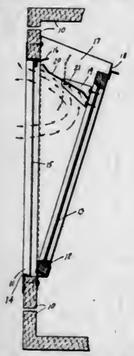
1. A drafting compass consisting of an elongated toothed bar, a longitudinal scale fitted to the bar, a housing with a hole to receive and give a sliding fit for the bar and the longitudinal scale, rotatable means meshing with the teeth of the bar for moving the bar with respect to the housing, means for adjusting the mesh between the rotatable means and the bar, means for indicating the relative rotation of the rotatable means with respect to the housing, a pivot in the base of the housing, means in the top of the housing for holding and rotating the compass about the vertical axis of the instrument through the pivot, a guide at one end of the bar for holding and permitting the vertical motion of a slide, a slide in said guide and means for moving the slide in the guide, a drawing means and means on the slide for holding said drawing means.

2,324,042
CONVEYER APPARATUS
Carl E. Swenson, Rockford, Ill.
Application March 26, 1941, Serial No. 385,232
6 Claims. (Cl. 302—37)



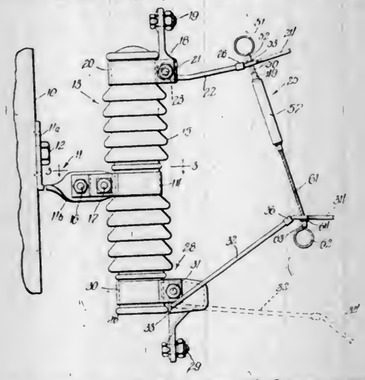
1. The combination in a blower particularly suited for fibrous material, of a housing having enclosing side walls, an impeller in said housing for moving air therethrough, one of said side walls having a centrally disposed feed opening for supplying solid material to said impeller and an air inlet disposed therearound, an air-cooled engine mounted on the other of said side walls including a shaft projecting therethrough to carry and drive said impeller, an enclosure for said engine having an air opening, and a centrally disposed opening through said side wall between said housing and said enclosure, said air opening and said centrally disposed opening being positioned to move a part of the air supply of said blower across said engine, another part of the air supply entering the blower through said air inlet to provide converging streams of air from opposite sides of the housing.

2,324,043
VENTILATOR DEVICE FOR POULTRY HOUSES
Donald B. Tolley, Macomb, Ill., assignor to Globe American Corporation, Kokomo, Ind., a corporation
Application November 21, 1941, Serial No. 419,826
3 Claims. (Cl. 98—88)



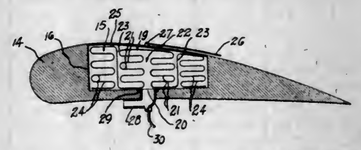
1. In a window ventilator for poultry houses including a window frame having a window sash receiving opening therein, a window sash having its lower end supported in said opening and its upper end free to be swung to and from said opening, and guard plates secured to said frame on each side of said opening and provided with sash seating flanges adapted to support said sash in its open position when the upper portion thereof is swung to open position from the frame, the combination of a pair of brackets secured on each side of said sash near the top thereof, and extending toward said opening in the frame and passing therethrough when the sash is frame seated, and a gravity stabilized velocity adjustable draft controlled shutter extending crosswise of said sash and eccentrically pivoted upon said brackets, said shutter normally lying in a vertical position regardless of sash position and when not subject to appreciable wind velocity, said shutter and brackets both being passable through said opening without interference when said sash is moved to closed position, the shutter, when fully closed and with the sash in opened position, providing two ventilating passages defined by said shutter, sash, frame and plates.

2,324,044
FUSE CUTOUT
Hugh A. Triplett, Wilmette, and Sigurd I. Lindell, Chicago, Ill., assignors to Schweitzer & Conrad, Inc., Chicago, Ill., a corporation of Delaware
Application May 26, 1938, Serial No. 210,122
38 Claims. (Cl. 200—117)



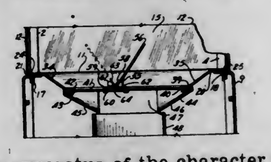
1. A fuse cutout for out-of-doors mounting comprising, in combination, an insulator disposed to be mounted in an upright position, a contact arm fixedly mounted on the upper end of said insulator, a contact arm pivotally mounted on the lower end of said insulator, a fuse link interconnecting said contact arms, spring means cooperating with said pivotally mounted contact arm for biasing the same away from said fixedly mounted contact arm and tensioning said fuse link, and sleet hood means enclosing said spring means for protecting the same from the weather.

2,324,045
AIRPLANE WITH SELF-OPENING PARACHUTE
Nicholas Vallinos, New York, N. Y.
Application August 8, 1940, Serial No. 351,843
2 Claims. (Cl. 244—147)



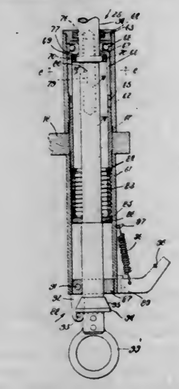
1. A device including an airplane having wings streamlined for upper suction surfaces and lower pressure surfaces, a parachute normally housed in a portion of the airplane and connected thereto for upward expansion to thus impart a lifting power to the airplane, an angle shaped open ended air duct cooperating with the airplane and the parachute for directing a stream of air into the parachute to expand the latter at will, means for mounting the air duct on the wing so that the air duct is rotatable about an axis substantially at right angles to said pressure surfaces and one arm extends approximately parallel to the pressure surfaces, and lies wholly within the area of the pressure surfaces and in such close proximity thereto as to cause a flow of air into the duct which shall be a maximum due to the velocity of the airplane and the pressure caused by said pressure surfaces in different positions of the airplane, and means for rotating the air duct to a desired direction according as an air stream may be required therein, whereby a duct of minimum size and affording relatively little air resistance under normal conditions can be rotated according to the position of falling of the airplane to cause a strong flow of air into the parachute for rapidly expanding the same.

2,324,046
POPCORN MACHINE
Harold Van Doren and Donald E. Dailey, Toledo, Ohio, assignors to Burch Manufacturing Company, Jackson County, Mo., a corporation of Missouri
Application September 19, 1940, Serial No. 357,366
8 Claims. (Cl. 312—124)



4. In an apparatus of the character described, a warming pan having a depressed portion terminating in an aperture, a grill mounted in said aperture, and a partition slidably and hingedly mounted on said grill.

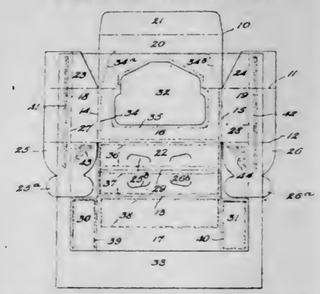
2,324,047
SWITCH CONSTRUCTION
Anthony Van Ryan, Chicago, Ill., assignor to Schweitzer & Conrad, Inc., Chicago, Ill., a corporation of Delaware
Application August 2, 1940, Serial No. 349,945
6 Claims. (Cl. 200—154)



1. A switch comprising, in combination, a pair

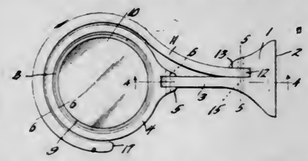
of tubular switch members aligned on a common axis and stationarily mounted in insulated spaced relation, a two part rod-like switch member movable endwise of said switch members for interconnecting the same, and a lost motion connection between said parts comprising a slot in one part and cooperating stop means in the other part whereby relative movement of the same is permitted to store energy in one rod-like part for applying a blow to the other rod-like part to initiate its movement.

2,324,048
CONTAINER FOR BAKERY PRODUCTS
Harry F. Waters, New York, N. Y.
Application October 15, 1941, Serial No. 415,008
5 Claims. (Cl. 229—14)



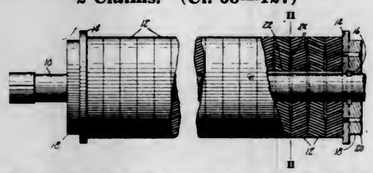
1. A lined container adapted to be erected from collapsed form which comprises an outer carton cut and scored along a plurality of lines to define opposed pairs of main and end panels, a bottom panel between said main panels, top and bottom closure flaps for said end panels, and a top closure flap for one of said main panels; a medial score line in each of said end panels and in said bottom panel upon which said carton is collapsed, and a liner sheet attached to said carton by means of a plurality of glue lines and folded upon itself along the medial line of the bottom panel, said glue lines including lines securing the longitudinal marginal portions of the liner to a line beyond the medial fold line of the end panels whereby upon erection of said carton the liner will be likewise erected and said marginal portions of the liner will be maintained in registering face to face position without directly connecting such portions together.

2,324,049
MIRROR
Samuel J. Winslow, Taunton, Mass.
Application November 28, 1942, Serial No. 467,217
4 Claims. (Cl. 88—101)



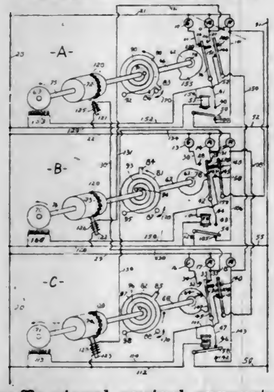
1. In a mirror and the like, a wooden base having an integral standard, a portion of the base adjacent the standard being cut out for the reception of an arm, a circular wooden frame having a mirror mounted therein pivoted to the upper end of the standard, an arm extending outwardly and upwardly and having its lower end pivotally mounted in the aforementioned cutout portion of the base and the said arm also extending partially around said mirror frame to form an open eye so that the said arm may be supported about the neck of a user to thus hold the mirror in front of the face of the user.

2,324,050
ROLL
John G. Shelley, Wellesley, Mass., assignor to Harris C. Shelley, Needham, Mass.
Application October 28, 1941, Serial No. 416,853
2 Claims. (Cl. 68—127)



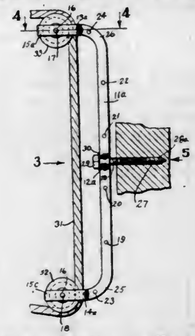
1. A sectional roll comprising a shaft, a plurality of annular sections of homogeneous resilient compressible material held on said shaft under axial compression in face to face relation, the adjacent faces of said sections being normally flat, and means forming driving surfaces between said sections to prevent relative slippage of said sections around said shaft, said means comprising metallic discs secured to said shaft and having smooth uninterrupted faces merging at their peripheries into thin edges thereby permitting substantially uniform compression of all portions of each section normal to the shaft.

2,324,051
TRAFFIC SIGNAL CONTROL APPARATUS
John J. Alles, Wilkes Barre, Pa.
Application June 2, 1942, Serial No. 445,457
14 Claims. (Cl. 177—337)



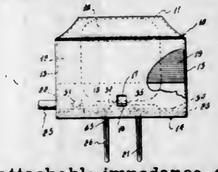
1. A traffic signal control apparatus for controlling the green, amber and red signals on each street of an intersection having two or more streets comprising an individual control unit for each street, each control unit including timer operated means operable when energized to move from initial position through a cycle to successively display the green, amber and red signals on its street, means cooperable, upon the display of one of said signals, to return another one of said units to its initial position, and means operable, upon the display of the red signal to energize the timer operated means of said other control unit.

2,324,052
SWINGING DUPLEX CLOTHESLINE PULLEY
Joseph C. Anderson, Torrington, Conn.
Application April 16, 1941, Serial No. 388,833
4 Claims. (Cl. 211—119.02)



2. In a duplex clothesline pulley frame for receiving an endless clothesline, a pair of opposed U-shaped members made from flat strip metal secured together in face-to-face relation, said members having a pair of outwardly-offset bearing loops at the midpoints of the bases thereof to form a swivel bearing upon a horizontal supporting means, and a pair of vertically alined pulleys journaled in the parallel end legs of said opposed U-shaped members.

2,324,053
ATTACHABLE IMPEDANCE
Harold K. Andrews, Stratford, Conn., assignor to Edwin G. Gaynor, Fairfield, Conn.
Application April 15, 1941, Serial No. 388,633
9 Claims. (Cl. 175—356)

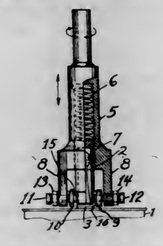


7. In an attachable impedance, a metal casing having an open side, a removable wall for closing said side comprising a metal plate having an opening therethrough, an impedance in said casing and including a coil having a pair of exposed contacts, a pair of prongs passing through the opening in said plate, a pair of terminals, a connection from one of said terminals to one of said prongs, a spring contact electrically connected with the other prong, a spring contact electrically connected with the other terminal, means insulating all of said prongs, terminals and contacts from said plate, means securing said insulating means, plate, prongs, terminals and contacts into a unitary structure, said spring contacts located to engage and bear against the contacts of said coil when said wall is secured on said casing, and means securing said wall in position closing the open side of said casing.

2,324,054
PROCESS OF RECOVERING ETHERS
Francis M. Archibald, Elizabeth, N. J., assignor to Standard Alcohol Company
Application December 19, 1939, Serial No. 310,087
4 Claims. (Cl. 260—616)

1. The process comprising passing a gaseous mixture of spent hydrocarbon and ether into a concentrated phosphoric acid, removing the spent hydrocarbon and recovering the ether from the concentrated acid by heating.

2,324,055
SEALING ELEMENT
Joseph Bahelka, Linden, N. J., assignor to Stanco, Incorporated
Application April 5, 1941, Serial No. 386,971
3 Claims. (Cl. 113—19)



1. Apparatus as described adapted for rigidly attaching and sealing a can spout having a circular shoulder integral therewith to a can body, the opening of which comprises a circular cylindrical element into which the shoulder of the can spout seats, which comprises a housing element adapted to be rotated and moved in a vertical direction, said housing element having two lower extending shoulders, a guiding element rigidly attached to one shoulder, a seaming element rigidly attached to the other, said seaming element being characterized by a grooved convex surface, means for regulating the seaming element in a manner that as the housing element moves downwardly the seaming element contacts the lip of the cylindrical circular element of the can, rolling the same inwardly toward the center of rotation of said housing element, a hollow cylindrical plunger within said housing element, a spring element adapted to maintain tension as said cylindrical element is moved upwardly, said cylindrical element being adapted to maintain pressure on the shoulder of said can spout and retain the same in the cylindrical seat of said can body.

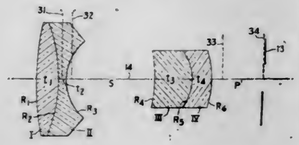
2,324,056
CRACKING INHIBITOR
Bernard C. Barton, Passaic, N. J., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application May 31, 1941, Serial No. 396,191
11 Claims. (Cl. 260—800)

1. A rubber composition containing an N-(amino-aryl) 2,5-dimethyl pyrrole as an atmospheric cracking inhibitor.

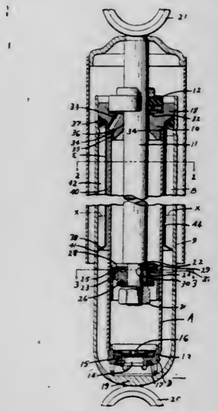
2,324,057
LENS ATTACHMENT
Harold F. Bennett, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application September 3, 1941, Serial No. 409,369
5 Claims. (Cl. 88—57)

1. A wide angle attachment for use on the front of a photographic objective, comprising a negative component axially aligned and approximately afocally spaced in front of a meniscus positive component which is concave to the front

and which has an axial thickness greater than one fourth of the air space between the two components and not greater than that for which the components are in marginal contact.

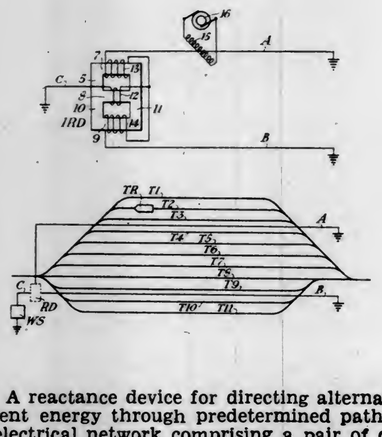


2,324,058
HYDRAULIC SHOCK ABSORBER STRUCTURE
Arthur Boor, Toledo, Ohio, and Charles E. Read, Monroe, Mich., assignor to Monroe Auto Equipment Company, Monroe, Mich., a corporation of Michigan
Application December 1, 1941, Serial No. 421,230
7 Claims. (Cl. 188—88)



1. In a hydraulic shock absorber having relatively movable parts, one being a pressure cylinder and the other a piston in said cylinder, an operating rod for the piston, a closure for the upper end of said cylinder sleeved on said rod, and a casing member carried by said closure in substantially concentric relation to the cylinder and cooperating therewith to form a reserve chamber; a tubular partition member within the reserve chamber between and in substantially concentric relation to the cylinder and casing member, said partition member being closer to the cylinder than to the casing member whereby a restricted annular space is provided between the partition member and cylinder and a relatively large annular space is provided between the partition member and casing member, said partition member being suspended from the closure and having its lower end below the normal level of hydraulic medium in the reserve chamber, the restricted annular space aforesaid being in communication with the pressure cylinder to receive hydraulic medium and air therefrom and being in open communication with the lower portion of the reserve chamber, the large annular space aforesaid being closed except at its lower end to provide a trap for air, and a baffle element located between the partition member and casing member at the lower end of the large annular space, said baffle element cooperating with the casing member to provide a restricted inlet for air to said air trap and cooperating with the partition member to exclude as far as possible hydraulic medium from said air trap.

2,324,059
ELECTRICAL NETWORK APPARATUS
Paul N. Bossart, Cheswick, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application January 30, 1942, Serial No. 428,893
11 Claims. (Cl. 246—8)

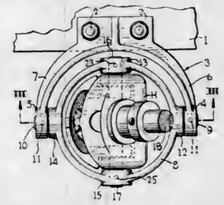


1. A reactance device for directing alternating current energy through predetermined paths in an electrical network comprising a pair of conductors connected in multiple to a common conductor, said means comprising a magnetizable core provided with two magnetic circuits both linked by a first winding connected to said common conductor, and two other windings one disposed on one magnetic circuit and the other winding disposed on the other magnetic circuit, said two other windings being connected in series in additive relation and being connected one winding to one of said pair of conductors and the other winding to the other of said pair of conductors, said first winding having a connection to the series connection of said two windings at a point intermediate the windings, and being arranged in opposing relation to each of said two other windings whereby current flowing through either of said two windings and then through said first winding sets up opposing fluxes.

2,324,060
PHOTOGRAPHIC COPYING PAPER
Fred W. Boughton, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application October 9, 1940, Serial No. 360,444
15 Claims. (Cl. 95—6)

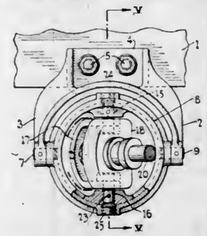
1. A photographic copying paper having on its surface a light-sensitive mixture consisting of a triphenylmethane leuco base having at least two of the phenyl nuclei substituted by amino groups in positions para to the methane carbon atom, and a sensitizing salt selected from the group consisting of ferric chloride, mercuric chloride, mercuric acetate, stannic chloride, zinc chloride, and cupric sulfate.

2,324,061
HINGED JOINT
Stephen H. Brooks, New York, N. Y.
Application September 11, 1942, Serial No. 457,915
3 Claims. (Cl. 74—380)



1. A hinged shaft joint support, having in combination; a member adapted to be attached to a fixed object provided with separate trunnion bearings in alignment; trunnions positioned in the bearings; a gimbal ring provided with four bearings arranged in pairs at the extremities of two diameters of the ring, one pair cooperating with the said trunnions to allow the gimbal ring to oscillate in a plane at a right angle to the plane passing through the longitudinal axes of the trunnions, the other pair adapted to cooperate with the hinge pins of a hinge joint to allow the joint parts to oscillate about the longitudinal axis through the said other pair.

2,324,062
FLEXIBLE JOINT
Stephen H. Brooks, New York, N. Y.
Application September 11, 1942, Serial No. 457,917
5 Claims. (Cl. 74—380)

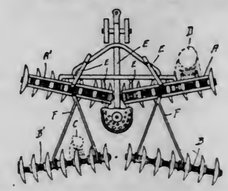


1. A support for a shaft joint of the type including hinge pins upon which shafts may oscillate, having, in combination: two separated bearing members; means for securing the bearing members immovably to a fixed object; a gimbal ring formed with a groove in its inner surface; means for allowing the gimbal ring to oscillate about the longitudinal axes of the bearings; arcuate pin supports positioned in the groove of the gimbal ring; each support adapted to support the hinge pin of a hinged shaft joint whereby when the shaft joint is so supported the shafts will be free to move together with the joint rotatably about the center of the gimbal ring and in addition to oscillate about the hinge pins and also may oscillate together with the joint about the longitudinal axis of the separated bearings.

2,324,063
PROCESS OF PRODUCING FAT-SOLUBLE VITAMIN CONCENTRATES
Loran O. Buxton, Harrison, N. J., assignor to National Oil Products Company, Harrison, N. J., a corporation of New Jersey
No Drawing. Application November 30, 1938, Serial No. 243,095
13 Claims. (Cl. 167—81)

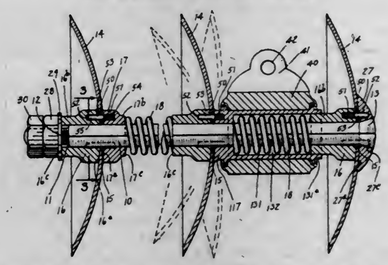
1. A process of producing fat-soluble vitamin concentrates of high potency which comprises admixing the unsaponifiable fraction of a fat-soluble vitamin containing marine oil with a substantially completely deaerated mixture of a non-polar organic solvent and a substantially anhydrous alkaline reactive adsorbent, agitating the mass to accelerate adsorption of the vitamins, separating the adsorbent from the non-polar solvent, eluting the adsorbed vitamins by means of a mixture of a non-polar and a polar organic solvent and distilling off the solvent from the concentrated vitamin fraction.

2,324,064
GANG DISK IMPLEMENT
Fredrick W. Coffing, Danville, Ill.
Application July 10, 1941, Serial No. 401,818
7 Claims. (Cl. 97—220)



1. A multi-disk type agricultural implement including a disk supporting shaft, a plurality of disks thereon, means at opposite sides of each disk and supporting same substantially parallel to the other disks, said means of adjacent disks adjacent each other being spaced apart, and slidable on the shaft, yielding means between each pair of spaced means for normally maintaining each intermediate disk in predetermined relation to the other disks but permitting forcible movement of a disk axially of the shaft when required, one of the means including an elongated collar portion, an elongated sleeve encircling same and telescopically associated therewith and positioned between adjacent disks, and a traction yoke pivotally associated with said sleeve.

2,324,065
GANG DISK IMPLEMENT
Fredrick W. Coffing, Danville, Ill.
Application November 21, 1941, Serial No. 419,871
14 Claims. (Cl. 97—220)



1. In a disk cultivator a disk having a central, mounting only, opening therein, a polygonally sectioned supporting shaft extending therethrough, the disk opening being larger than the circumscribed circle including the polygonal section, disk supporting hub-like means at opposite sides and independent of the disk and on said shaft and rotatable therewith, one of said disk supporting means having a similarly outlined bore therethrough, means normally constraining that hub-like means toward predetermined posi-

tion, said constraining means being slidable axially of the shaft, and disk driving elongated means carried by one of said hub means and extending through the disk and into the other cooperating hub means of that disk and radially spaced from the central opening in that disk and constituting the sole driving connection of the disk to the shaft for disk rotation in shaft rotation, the elongation of said driving means permitting disc deflection axially of the shaft as well as axial movement of the constrained slidable hub means without disassociation of the driving means from the other of the first mentioned hub-like means.

2,324,066

PURIFICATION OF HYDROCARBON OILS

Gerald C. Connolly, Baton Rouge, La., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application August 3, 1940, Serial No. 351,247

5 Claims. (Cl. 196—28)

1. A method of desulfurizing hydrocarbons which comprises subjecting said hydrocarbons to the action of a catalyst comprising silica and vanadium oxide formed by combining the vanadium oxide with the hydrous oxide of silica and thereafter drying the resulting product, and continuing the treatment of said hydrocarbon with said catalyst at a temperature and for a period sufficient to remove a substantial amount of sulfur therefrom.

2,324,067

PURIFICATION OF HYDROCARBON OILS

Gerald C. Connolly, Baton Rouge, La., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application August 3, 1940, Serial No. 351,249

3 Claims. (Cl. 196—28)

1. A method of removing sulfur from hydrocarbons which comprises passing the sulfur-containing hydrocarbons in contact with a catalyst comprising alumina gel and vanadium oxide, said alumina gel being formed by treating gelatinous alumina with an organic acid and maintaining said oil in contact with the catalyst for a period and at a temperature sufficient to remove a substantial amount of sulfur therefrom.

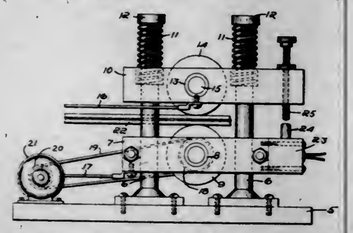
2,324,068

ELECTROSTATIC BONDING APPARATUS

Ervin L. Crandell, Wellesley, Mass., assignor to Compo Shoe Machinery Corporation, Boston, Mass., a corporation of Delaware

Application June 18, 1941, Serial No. 398,630

2 Claims. (Cl. 154—1)



1. Apparatus for bonding plies, comprising opposed rollers having metal plie contacting surfaces for exerting pressure upon the plies; resilient means urging said rollers towards each other; means for electrically insulating said rollers from each other; means forming a high frequency electric source; means connecting said rollers as electrodes to said source for the production of an electrostatic field therebetween, and means including one of said rollers for advancing plies to be bonded between said electrodes.

2,324,069

COLOR PHOTOGRAPHY

Jack Crawford, New York, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application May 19, 1939, Serial No. 274,593

10 Claims. (Cl. 95—5.6)

1. A manually colored, photographically toned print comprising a white opaque support having a mat surface and a relief image on said mat surface, the highlights of said image consisting of areas of said mat surface not covered by said relief and the relief being colored in proportion to its thickness by dyes not absorbable by the support.

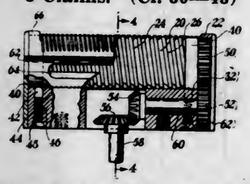
2,324,070

SHAVING DEVICE

Godfrey Dalkowitz, Brooklyn, N. Y., assignor to American Safety Razor Corporation, Brooklyn, N. Y., a corporation of Virginia

Application June 22, 1937, Serial No. 149,570

3 Claims. (Cl. 30—43)



1. A shaving device having a rotatable cutting member with a pair of similar coaxial spiral cutting edges thereon, and complementary stationary cutting edges that are segments of four spirals similar to and coaxial with the spirals along which the cutting edges of said cutting member are formed, and means for rotating said cutting member relatively to said stationary cutting edges.

2,324,071

METHOD OF FUELING SOLID FUEL INJECTION ENGINES

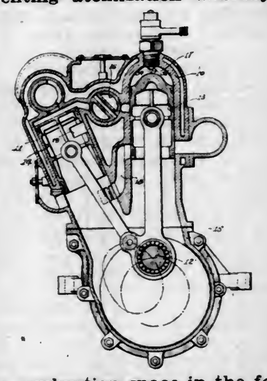
Max George Fiedler, Media, Pa., assignor to Fiedler-Sellers Corporation, Philadelphia, Pa., a corporation of Pennsylvania

Continuation of application November 12, 1937, Serial No. 174,238. This application January 2, 1941, Serial No. 372,915. In Canada April 5, 1937

3 Claims. (Cl. 123—27)

3. The method of fueling variable speed solid fuel injection auto ignition engines of the reciprocating piston type comprising, supplying air to the engine's cylinders in such quantities that the maximum temperature due to compression is below the decomposition temperature of the fuel, instantaneously injecting fuel into the cylinder after the attainment of compression ignition conditions within the cylinder at a rate such that, regardless of the quantity of fuel or of the engine speed, the entire charge is injected within 10° of crank travel and during the ignition lag period, injecting the charge at a time such that the injection of the fuel is completed prior to the attainment of maximum compression in the cylinder and prior to initial ignition of the fuel and injecting the fuel charge through

an orifice of such size that it does not constitute a restriction to the passage of fuel and at a pressure of the order of 1200 pounds per square inch preventing atomization whereby the fuel



enters the combustion space in the form of wet globules of a size sufficiently large to prevent vaporization during the period of injection and ignition lag.

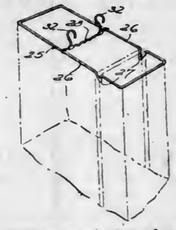
2,324,072

GARMENT BAG

Bernard J. Frost, Chicago, Ill., assignor to Transparent Cover Company, Chicago, Ill., a copartnership composed of Bernard J. Frost and Morris Simon

Application May 1, 1941, Serial No. 391,284

3 Claims. (Cl. 206—7)



3. In a garment bag of the character described and having a substantially flat rectangular top, a slide fastener provided in said bag and adapted to pass from the front wall up to and across the top of the bag and down the rear wall thereof to permit a section of said bag to be moved to one side thereof for access to the bag when said slide fastener is opened, a rigid integral frame member of a shape conforming to the contours of said top of the bag and reenforcing same and maintaining same in constant planar disposition and having portions thereof bent inwardly where corners are crossed by said slide fastener to permit ready operation thereof, said portions being each bent in a plane askew to the top of the bag.

2,324,073

TREATING HYDROCARBONS

Peter J. Gaylor, Union, and Edward J. Mahler, Jersey City, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application December 12, 1940, Serial No. 369,758

3 Claims. (Cl. 260—666)

1. Method for producing mono-cyclic hydrocarbons comprising subjecting an aliphatic mono-olefin of 3 to 4 carbon atoms to the action of a volatile halide of the Friedel-Crafts type and a cyclizing catalyst comprising molybdenum sulfide and copper at a temperature between 20° C. and 350° C.

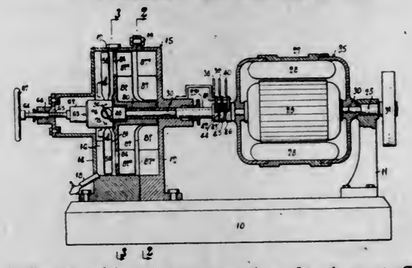
2,324,074

VARIABLE SPEED MECHANISM

John H. Gerber, Charlotte, N. C.

Application January 9, 1942, Serial No. 426,141

4 Claims. (Cl. 188—90)



1. In combination, a casing having a fluid therein, a shaft rotatably mounted in said casing, an adjustable pitch propeller fixedly secured upon said shaft for engaging said fluid, a rotatable sleeve surrounding said shaft and extending into said casing, a fixed vane propeller secured upon said sleeve, said fixed vane propeller being disposed adjacent said adjustable pitch propeller, and a stationary set of vanes disposed adjacent said second propeller and on the opposed side from said first propeller.

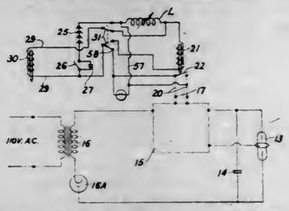
2,324,075

FLASHLIGHT SYNCHRONIZING APPARATUS

John Warren Gillon, Rochester, N. Y., and John C. Hollister, Denver, Colo., assignors of one-half to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey, and one-half to Heiland Research Corporation, Denver, Colo., a corporation of Colorado

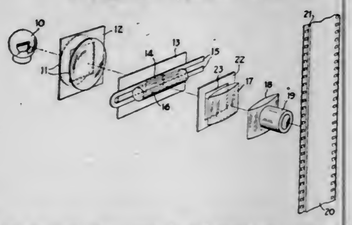
Application January 31, 1941, Serial No. 376,844

6 Claims. (Cl. 240—2)



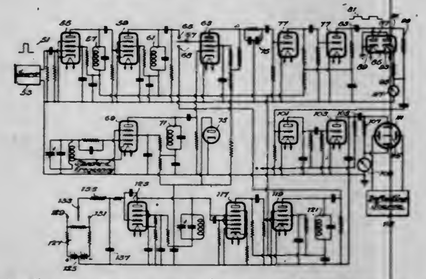
2. A device of the type described for operating a photographic shutter and igniting an electrically ignited flash lamp in timed relation, comprising a housing, an electrical outlet in said housing into which an open energizing circuit of a flash lamp is adapted to be plugged, a normally open switch in said housing for short circuiting said outlet to complete the lamp circuit plugged thereinto, a magnetic relay for closing said switch when energized, an electrical outlet in said housing into which a solenoid for operating a shutter is adapted to be plugged, a source of energy in said housing, means for simultaneously connecting said source of energy with said relay and with the outlet into which said solenoid is adapted to be plugged, and a reactance in said housing in circuit with said relay for delaying the flow of current to said relay whereby a time differential is introduced between the operation of said shutter and said lamp.

2,324,076
OPTICAL SYSTEM
Herbert E. Goldberg, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application September 13, 1941, Serial No. 410,757
9 Claims. (Cl. 88—24)



1. An optical system for forming in an image plane a small area of light of variable intensity comprising a ribbon light valve mounted in front of the image plane with at least one ribbon horizontal for vertical movement, means for illuminating the valve from the front, means between the illuminating means and the valve for diaphragming the top and bottom of the light beam, means for diaphragming the sides of the light beam, a cylindrical rod lens of small diameter positioned with its cylindrical axis horizontal and with its front focus close behind the ribbon, the front surface of the rod focusing near the rear surface a vertically punctual image of the top and bottom diaphragming means and the rod forming between the rod and the image plane a vertically punctual image of the ribbon and objective means near the latter image for forming in the image plane a vertically punctual image of the rear surface of the rod and a horizontally punctual image of the sides diaphragming means.

2,324,077
MEASURING CIRCUIT
E. Dudley Goodale, Bayside, Long Island, N. Y., and Jarrett L. Hathaway, Cambridge, Mass., assignors to Radio Corporation of America, a corporation of Delaware
Application December 27, 1941, Serial No. 424,602
10 Claims. (Cl. 172—245)



1. A measuring system comprising a source of periodic electrical impulses, means for deriving energy representative of said impulses, a source of standard frequency, means for comparing the frequency of said derived energy with said standard frequency, means for producing a direct current potential in accordance with the difference between the two said frequencies, means for differentiating said produced direct current potential with respect to time, and means for producing a visual indication in accordance with said differentiation.

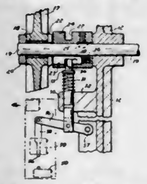
2,324,078
SANITARY COATING COMPOSITION
Daniel M. Gray and Franklin M. de Beers, Jr., Sewickley, Pa., assignors to Stoner-Mudge, Inc., Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application April 11, 1942, Serial No. 438,588
6 Claims. (Cl. 260—42)

1. A thermally stable coating composition adapted to be spread upon metal and thereafter baked with consequent release of solvent and chemical inter-reaction between the resinous components, in which the resinous components comprise (1) 97 to 65 parts by weight of a copolymer of a maleic derivative selected from the group consisting of maleic anhydride and maleic acid, and a vinyl derivative responding to the formula $CH_2=CHX$ in which X is selected from a group consisting of the halogens and the saturated aliphatic monocarboxylic acyloxyl radicals containing no more than 6 carbon atoms in the alkyl group attached to the esterifying carboxyl group, wherein the percentage by weight of maleic derivative lies between 1 and 5; and (2) 3 to 35 parts by weight of a ketone-soluble resinoid selected from the group consisting of the non-oil-modified, alkaline condensed, phenol-formaldehyde resinoids, alkyl-substituted phenol-formaldehyde resinoids in which the total number of carbon atoms in the alkyl groups attached to the parent phenol nucleus comprises no more than 6, and mono-aryl-substituted phenol-formaldehyde resinoids in which the total number of carbon atoms comprised within the substituting aryl group does not exceed 12 of which 6 are constituted within a benzene ring and the remainder are found in alkyl groups modifying that benzene ring; a baked-out film of which is capable of withstanding fabrication and sterilization processes without sacrificing coating integrity and adhesion, or manifesting deleterious process blush and loss of gloss.

2,324,079
ADSORBENT MATERIAL
Herbert Hans Greger, Washington, D. C.
No Drawing. Application May 12, 1938, Serial No. 207,642
14 Claims. (Cl. 210—205)

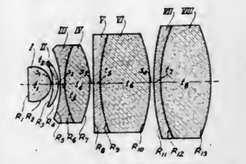
1. A composition of matter comprising particles of an activated metallic oxide and a bond for said particles containing the phosphoric acid radical.

2,324,080
CLUTCH CONTROL MECHANISM
John F. Haunty, Dayton, Ohio, assignor to Harris-Seybold-Potter Company, Cleveland, Ohio, a corporation of Delaware
Application July 26, 1941, Serial No. 404,222
9 Claims. (Cl. 192—40)



1. Control mechanism for a power machine of the character described having a clutch mechanism in the drive for said machine, comprising a clutch control member movable with respect to said clutch from an initial position where said clutch is disengaged to an operative position provided for engagement thereof, a solenoid to effect said movement of said clutch control member, means including a control circuit for energizing said solenoid under control of the operator, means operated by movement of said clutch control member for interrupting said control circuit upon completion of said movement to de-energize said solenoid, and means for restoring said clutch control member to its initial position.

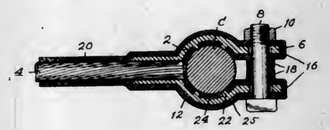
2,324,081
MICROSCOPE OBJECTIVE
Maximilian J. Herzberger, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application January 6, 1941, Serial No. 373,271
9 Claims. (Cl. 88—57)



f=100mm			NA=.151	TUBE LENGTH 31mm.
LENS	N_D	ν	RADII	THICKNESSES
I	1744	45.8	R_1 = ∞ R_2 = -0.682 mm	t_1 = 0.635 mm s_1 = 0.006 mm
II	1620	60.4	R_3 = -1.328 mm R_4 = -0.914 mm	t_2 = 0.150 mm s_2 = 0.030 mm
III	1617	36.6	R_5 = -2.428 mm R_6 = +2.540 mm	t_3 = 0.120 mm t_4 = 0.723 mm
IV	1620	60.4	R_7 = -2.430 mm R_8 = ∞	s_3 = 0.060 mm t_5 = 0.181 mm
V	1523	50.5	R_9 = +4.141 mm	t_6 = 1.420 mm
VI	1434	95.4	R_{10} = -3887 mm R_{11} = +58.55 mm	s_4 = 0.080 mm t_7 = 0.181 mm
VII	1523	50.5	R_{12} = +3.870 mm	t_8 = 1.420 mm
VIII	1434	95.4	R_{13} = -4.160 mm	

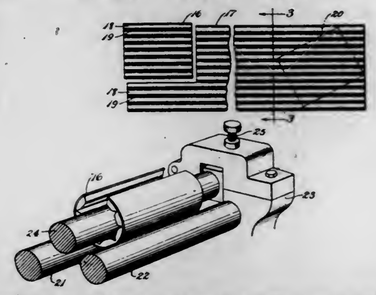
1. A microscope objective comprising a plurality of positive components in alignment of which the first one is a positive element whose index of refraction is between 1.7 and 2.0 and whose dispersive index is between 40 and 60, said positive element having both a thickness and a focal length between one-half and three-halves the focal length of the objective as a whole.

2,324,082
BATTERY TERMINAL PROTECTIVE DEVICE
Clyde Helm, Kansas City, Mo.
Application November 3, 1942, Serial No. 464,327
4 Claims. (Cl. 173—259)



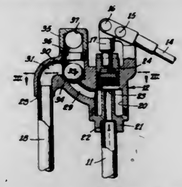
1. A battery clamp comprising a split body portion adapted to encompass a battery post, a conductor projecting through an opening in said body portion, insulating material covering the inner surface of said body portion and provided with a plurality of spaced apertures and an opening through which latter said conductor projects into engagement with the battery post, spaced contacts projecting into said apertures from the inner surface of the body portion, and means for contracting the body portion in order to compress the insulating material and force said contacts into electrical engagement with the battery post.

2,324,083
METHOD OF MAKING BEARINGS
Lenis Holmes, Medina, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application February 27, 1940, Serial No. 321,059
1 Claim. (Cl. 29—149.5)



The method of making a bearing structure which comprises molding a layer of vulcanizable rubber-like material to provide lubricant grooves in a face thereof extending in one direction of the layer while bonding the material to a layer of stiffly bendable backing material, cutting a portion from said layer extending diagonally of said grooves, and bending said portion arcuately to provide a cylindrical bushing having lubricant grooves extending helically thereof.

2,324,084
BACKFLOW PREVENTER
Jason N. Horner, Los Angeles, Calif.
Application June 21, 1941, Serial No. 399,118
2 Claims. (Cl. 251—118)

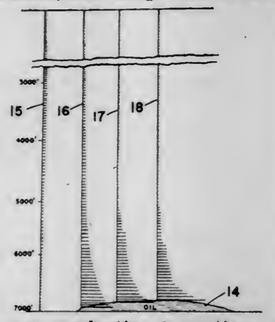


2. In an apparatus of the character described, the combination of: a body portion having a vertically extending inlet bore therein and a laterally displaced, downwardly directed outlet port; a continuous passageway connecting the side of the inlet bore with the outlet port, said passageway gradually curving upwardly from the inlet bore and then gradually downwardly to the laterally displaced outlet port; an enlarged chamber formed in said body portion and intersecting said passageway at virtually its highest portion, said chamber being in communication with the atmosphere; and a ball valve in said chamber adapted to normally close said passageway, said ball valve being liftable by fluid passing through the passageway from the inlet bore to open said passageway to the outlet port and close said atmosphere communication.

2,324,085
GEOCHEMICAL WELL LOGGING
Leo Horvitz and Esme E. Rosaire, Houston, Tex.; said Horvitz assignor to said Rosaire
Application December 21, 1939, Serial No. 310,358
16 Claims. (Cl. 23—232)

16. A method for logging during the drilling

of a borehole drilled for the purpose of producing hydrocarbons comprising the steps of determining for a considerable portion of the length of the borehole, including a substantial portion



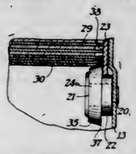
traversing non-productive formations, the relative hydrocarbon content at different depths of the earth traversed by the borehole, and correlating said relative values with depths.

2,324,086

FILM SPOOL HOLDER

Miller R. Hutchison, Jr., Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application July 19, 1941, Serial No. 403,176
6 Claims. (Cl. 242—71)



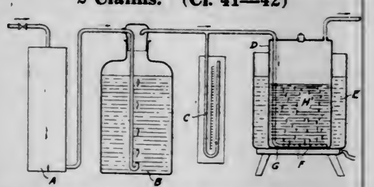
1. In a photographic camera, the combination with a body formed with a film chamber adapted to receive a flanged film spool, of frusto-conical rollers each formed with a hub and mounted in said chamber on aligned axes extending transversely of said chamber and with the hubs of said rollers engaging the spool flanges and with the frusto-conical portions of said rollers adapted to engage the marginal edges of a trailing paper strip carried by said spool to tightly tuck said edges against said spool flanges.

2,324,087

ETCHING PROCESS

Edwin E. Jelley, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application June 25, 1942, Serial No. 448,433
2 Claims. (Cl. 41—42)



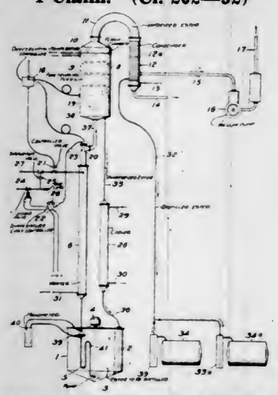
1. In the process of etching glass by submitting to a stream of hydrofluoric acid in the vapor phase a sheet of glass having coated thereon a resist composed largely of wax and having lines engraved therein, the improved step which comprises incorporating in the vapor stream a hydrocarbon having the following physical properties: it is inert to hydrofluoric acid, glass and the wax resist; it is adsorbed to wax, and it has a boiling point below 200° C.

2,324,088

DISTILLATION OF HIGH BOILING ESTERS

Joseph E. Jewett, Larchmont, N. Y., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

Application April 16, 1940, Serial No. 329,849
1 Claim. (Cl. 202—52)



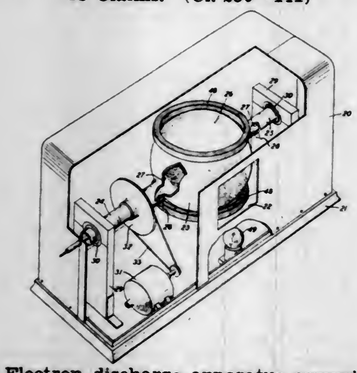
The process of distilling high-boiling esters of dicarboxylic acids which comprises heating a continuous, confined stream of the material to be distilled to a temperature below that at which decomposition takes place, rapidly vaporizing the preheated material in a flash chamber maintained under a vacuum, condensing the vaporized portion of the material, cooling the unvaporized portion sufficiently to prevent substantial decomposition of the ester, and returning the cooled unvaporized portion of the material for recirculation.

2,324,089

ELECTRON DISCHARGE APPARATUS

John B. Johnson, Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application December 9, 1941, Serial No. 422,192
13 Claims. (Cl. 250—141)



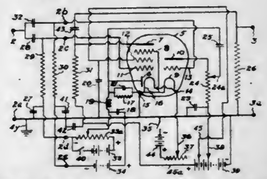
1. Electron discharge apparatus comprising a fluorescent screen, means for projecting an electron stream parallel to the face of said screen and in proximity thereto, means for directing said stream along an arcuate path terminating at said face and located in a fixed plane passing through said screen, means mounting said screen with said face thereof in fixed relation to said electron stream projecting means, means for deflecting said stream in said plane to thereby shift the terminus of said stream upon said face, and means for moving said screen to pass successive incremental areas of said face across said plane in the direction at substantially right angles to the direction of deflection of said stream.

2,324,090

METHOD AND APPARATUS FOR REMOVING AMPLITUDE MODULATION

Edward H. Lange, Baltimore, Md.

Application October 25, 1941, Serial No. 416,434
11 Claims. (Cl. 178—44)



1. A modulation reducing device, for substantially removing amplitude modulation from an amplitude-modulated high-frequency voltage, said device having a thermionic pentode with cathode, plate, grid, screen-grid, and a suppressor connected to the cathode, capable of providing grid-transconductance variations in a reciprocal relationship with modifications of negative grid bias, power supply means for said cathode, continuous voltage means for said plate and screen-grid, an output conductance connected in series with the cathode-plate alternating current conductance, large in comparison therewith, amplifying means independent of any alternating voltages across said output conductance, and across said cathode-plate, separately amplifying said modulated high-frequency voltage, diode means including said cathode, for rectifying said amplified modulated high-frequency voltage in direct proportion to the amplitudes of said high-frequency voltage, a norm-determining negative bias, for determining a range of negative grid voltages in excess of said bias which yields a substantially constant product of said excess bias voltage with respective magnitudes of grid-transconductance, said range being large in relation to the amplitudes of said modulated high-frequency voltage; said device having a series connection between said grid and cathode, including said norm-determining bias, said modulated high-frequency voltage, and said rectified amplified high-frequency voltage in negative bias relationship, whereby voltage of said high-frequency and substantially constant amplitude is provided across said output conductance.

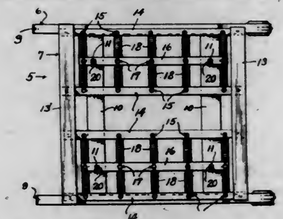
2,324,091

ROCKING CHAIR

Walter La Valliere, Sheboygan, Wis.

Application June 12, 1941, Serial No. 397,783
1 Claim. (Cl. 155—50)

A rocking chair comprising a support including legs, front and rear cross bars connecting the legs adjacent their forward and rearward ends, spaced pillars having their opposite ends resting on and secured to the aforesaid front and rear cross bars inwardly of the legs, said pillars having the medial portions of their upper areas cut out, bolts passing through the cross bars and end portions of the pillars with upper ends extending beyond the upper surfaces of the end portions of the pillars, short stationary straps having apertures therein receiving the upper ends of the bolts and having other apertures disposed at intervals throughout their lengths, a seat supporting base including front and rear cross beams connected by straps of greater length than the aforesaid short straps disposed on opposite sides of the short straps in parallelism thereto and having apertures therein disposed in spaced relation



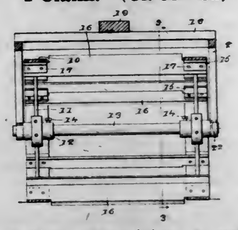
with the apertures in the short stationary straps, said beams being disposed forwardly and rearwardly of the ends of the short stationary straps, fastening elements threadedly disposed on the upper ends of the bolts and securing the short stationary straps on the pillars, and laterally extending coil springs disposed between each short stationary strap and adjacent straps of the aforesaid seat base on opposite sides thereof with their opposite ends secured in the apertures of the short stationary straps and straps of the seat base.

2,324,092

STALK CUTTER

Julian M. Leggitt, Unadilla, Ga.

Application August 11, 1941, Serial No. 406,384
1 Claim. (Cl. 55—61)



A stalk cutter comprising a pair of spaced wheels, angle irons disposed within the wheels, the angle irons being equally spaced and equal in length to the width of the wheel rims, those flanges of the angle irons secured to the wheel rims being similar in formation to the inner surfaces of the wheel rims, the other flanges of the angle irons extending radially inward from the wheel rims, cutter bars extending from one wheel to the other and having their inner portions disposed within the wheels and secured to the radial flanges of the angle irons, an axle secured to the wheels, the axle being longer than the cutter bars and extending beyond the wheels, and a tongued frame mounted upon the extended ends of the axle.

2,324,093

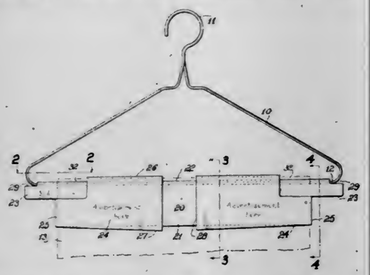
GARMENT HANGER

Walter D. Lhamon, Cleveland, Ohio

Application October 18, 1940, Serial No. 361,694
8 Claims. (Cl. 223—88)

1. A garment hanger, comprising in combina-

tion, a supporting frame including a hook portion and having a rail member, and a guard member having a longitudinally folded central portion engageable with the rail member forming depending panels on each side thereof, longitudinally folded and laterally folded side por-



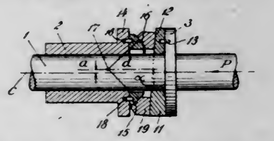
tions facing the depending panels and extending below the same, and bifurcated end portions extending outwardly of the central portion engaging the said frame and positioning the side portions on the said rail.

2,324,094
SHOE WITH LAMINAL WOOD SOLE
John Lewis, Brownville, Maine, assignor to U. S. Pegwood & Shank Company, Brownville, Maine, a corporation of Maine
Application October 14, 1942, Serial No. 462,055
4 Claims. (Cl. 36—30)



1. A shoe sole comprising a plurality of wood laminae cemented together at the heel and forepart portions and uncemented at the shank, to form a unit.

2,324,095
BEARING FOR TAKING AXIAL THRUSTS
Hans Lieberherr, Winterthur, Switzerland, assignor to Sulzer Frères, Société Anonyme, Winterthur, Switzerland
Application September 30, 1941, Serial No. 412,922
In Switzerland June 22, 1940
5 Claims. (Cl. 308—63)



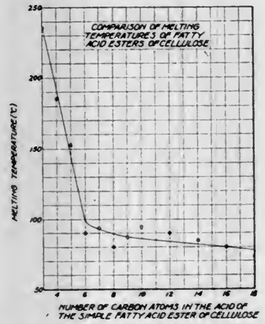
1. Apparatus for taking the axial thrust of a shaft which comprises a bearing in which the shaft is rotatable, means on the shaft providing a running surface inclined from a plane at right angles to the axis of the shaft, a spherical running surface on the bearing having its center of curvature displaced with respect to the shaft axis, and an intermediate member having a running surface in contact with the inclined running surface and a spherical running surface in contact with the spherical surface on the bearing.

2,324,096
WELL HOISTING DEVICE
Russell M. Lilly, Kermit, Tex.
Application June 5, 1941, Serial No. 396,735
5 Claims. (Cl. 214—1)



1. The combination with a well derrick having an inverted V-door of an auxiliary pressure fluid operated hoist secured to said derrick at the apex of said inverted V-door for lifting objects through said V-door.

2,324,097
ADHESIVE AND THE METHOD OF CAUSING ADHERENCE THEREWITH
Carl J. Malm and Gordon D. Hiatt, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application November 10, 1939, Serial No. 303,870
3 Claims. (Cl. 154—2)

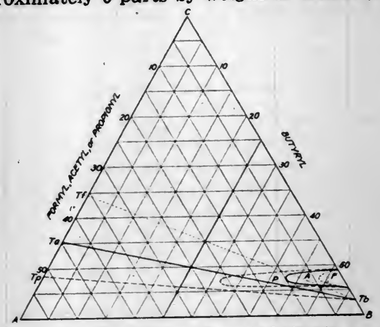


1. An adhesive sheet comprising a capric acid ester of cellulose.

2,324,098
DIPPING LACQUER
Carl J. Malm and Gerard J. Clarke, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application December 31, 1941, Serial No. 425,168
4 Claims. (Cl. 106—191)

1. A dipping lacquer comprising one part by weight of a hydrolyzed cellulose organic acid ester selected from the group consisting of cellulose butyrates containing from 51–55% butyryl, cellulose formate butyrates, cellulose acetate butyrates, cellulose propionate butyrates, in which the butyryl content is greater than 30% and the total acyl content is greater than 51%, said

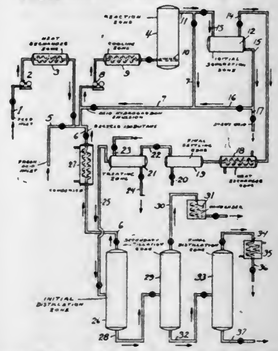
esters being hydrolyzed to at least approximately one free hydroxyl group per 12 hydroxyls of the cellulose unit, dissolved in approximately 4 to approximately 6 parts by weight of toluene, said



Area F—Cellulose formate butyrate
Area A—Cellulose acetate butyrate
Area P—Cellulose propionate butyrate

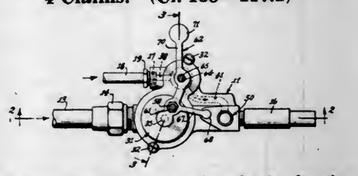
lacquer being capable of solidification by gelation while containing all or substantially all of the original solvent content when cooled to a temperature within the range of 10–50° C.

2,324,099
ALKYLATION PROCESS
Ralph Burgess Mason, Baton Rouge, La., assignor to Standard Oil Development Company, a corporation of Delaware
Application August 1, 1941, Serial No. 404,992
3 Claims. (Cl. 260—683.4)



1. Process for reacting tertiary isoparaffin hydrocarbons with olefins which comprises contacting the same in the presence of a catalyst comprising sulfuric acid and an alkyl metal compound.

2,324,100
GAS CONTROL MEANS
James Maynard, Los Angeles, Calif., assignor to Elgin R. Parker, Seal Beach, Calif.
Application August 26, 1940, Serial No. 354,197
4 Claims. (Cl. 158—117.1)

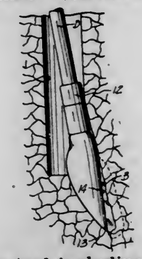


1. In combination, a valve body having two valve chambers and having inlet and outlet passages communicating with the respective chambers; a valve in each chamber; a valve stem associated with each valve; a pilot burner tube mounted in said valve body; a thermostatic element mounted on said pilot burner tube; an actuating lever engaging said valve stems and having an independent fulcrum; an operating rod connecting the thermostatic element and said lever, said rod bearing against the upper side of said lever at a point between said valve stems and nearer one than the other whereby one of said valves is actuated before the other.

2,324,101
STABILIZATION OF UNSATURATED KETONES
Edward M. McMahon, Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application May 14, 1941, Serial No. 393,417
5 Claims. (Cl. 260—593)

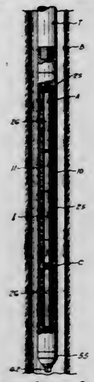
1. A composition of matter comprising one part of a polymerizable ketone and .02 part of potassium iodide.

2,324,102
MEANS FOR DIRECTIONAL DRILLING
Leonidas C. Miller and Ray F. Bolton, Dallas, Tex., assignors of one-half to Eastman Oil Well Survey Company, Dallas, Tex., a corporation of Delaware, and one-half to Eastman Oil Well Survey Corporation, Long Beach, Calif., a corporation of California
Application February 9, 1940, Serial No. 318,034
2 Claims. (Cl. 255—1.6)



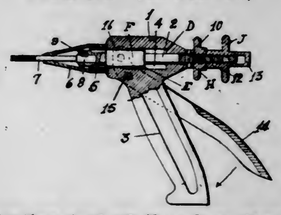
1. A deflecting tool including, a bit body having its lower portion inclined from the vertical axis of said body, a pair of elongate diametrically opposed cutting blades on the outer surface of the inclined portion of the body arranged to drill a bore when the bit body is rotated, said blades extending parallel to the axis of said inclined portion of the body and having their lower ends projecting in a plane below the body, said lower ends being sharpened to permit the bit to be spudded into the formation, the body having an axial bore in its upper portion with reduced inclined passageways extending from said bore to the lower end thereof, whereby a drilling fluid may be circulated through the body and around the cutting blades, the body also having a reduced passage leading from the upper end of the bore downwardly through the body to the lower end thereof, said passage having its discharge end disposed between and forwardly of the lower ends of the cutting blades, and a closure for closing the bore of the body above the drilling fluid passageways and below the upper end of the reduced passage, whereby a chemical pumped downwardly through the bore will be ejected through the reduced passage and into contact with the formation in advance of the bit body.

2,324,103
WELL SURVEY APPARATUS
Leonidas C. Miller, Dallas, Tex., assignor of one-half to Eastman Oil Well Survey Company, Dallas, Tex., a corporation of Delaware, and one-half to Eastman Oil Well Survey Corporation, Long Beach, Calif., a corporation of California
Application December 19, 1940, Serial No. 370,823
7 Claims. (Cl. 33—205)



1. A protective housing for well survey instruments including, an outer casing, an inner co-axial casing, a coupling element having the upper ends of said casings secured thereto, whereby said element closes said upper ends and also whereby the casings are suspended therefrom, heat insulating material between the casings, a cooling container insertable within the inner casing which casing is also adapted to receive the well survey instrument, a closure for closing the lower end of the inner casing, and a packing and closure element removably secured in the lower end of the outer casing for closing and sealing the same.

2,324,104
RIVETING TOOL
Clarence E. Moss, Wichita, Kans.
Application September 15, 1941, Serial No. 410,896
2 Claims. (Cl. 218—19)



1. A riveting tool of the class described, the tool comprising the combination of a body portion axially bored and a handle integrally joined to the body and laterally extending therefrom, a lever pivotally connected to the body and adapted to rock toward and from the handle, a plunger engaging in the bore and adapted to revolve and move longitudinally therein, the plunger being threaded from one end a spaced distance therealong, said threaded portion partially extending outward from its respective end of the body, a pair of wheel nuts threadedly engaging on said threaded portion of the plunger and adapted to contact each other as locking means for locking the nuts to the stem selectively therealong, one of said nuts as locked being adjacent the end of the body, the other nut having a hub extending from its outer end as spinning means for the plunger, the other end of the plunger being bored axially and extending outward from its respective end of the body as accessible means thereto, a threaded stem having a shank, said shank engaging in the bore of the plunger and means to secure the shank therein, a hollow conical cap and means to secure the large end thereof to the last said end of the body and being in axial alignment with the plunger with the stem thereof extending through the small end of the conical cap for threadedly receiving a rivet, and means actuated by the lever to move the plunger longitudinally, said means being a yoke comprised of a pair of legs to straddle the body and pivotally connected to the lever, the crotch of the yoke being apertured to slidably engage on the threaded end portion of the plunger to contact the first said nut to move the plunger when the lever is moved toward the handle.

2,324,105
SUBBING SOLUTION FOR PHOTOGRAPHIC FILMS
Gale F. Nadeau and Louis K. Eilers, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application September 25, 1940, Serial No. 358,275
11 Claims. (Cl. 117—164)

11. The method of subbing a photographic film support which comprises applying thereto an organic solvent solution of gelatin in which the gelatin is dispersed by means of a tetralkyl ammoniuim hydroxide, treating the film at a temperature at which the dispersing agent is decomposed into non-corrosive compounds and the solvents and volatile constituents are removed from the layer.

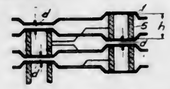
2,324,106
PROCESS OF ORNAMENTATION
Ralph E. Pettit, New Kensington, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application March 2, 1939, Serial No. 259,383
1 Claim. (Cl. 204—18)

A method of ornamenting an aluminum surface which consists in providing said surface with contrasting sand blasted and relatively smooth areas, anodically treating said surface in a brightening electrolyte to brighten said contrasting areas and thereafter applying to said surface a protective coating of aluminum oxide by anodic treatment.

2,324,107
METHOD FOR THE GEOCHEMICAL PROSPECTION OF HYDROCARBON DEPOSITS
Sylvain J. G. Pirson, State College, Pa., assignor to Geochemical Service Corporation, a corporation of Oklahoma
Application March 1, 1939, Serial No. 259,161
5 Claims. (Cl. 23—232)

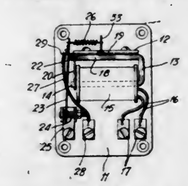
3. A method for detecting the presence of hydrocarbon deposits in the earth, comprising drilling a hole into the surface geological strata at a plurality of locations over an area to be explored, withdrawing from each hole a plurality of samples at different depths, at least one sample being collected at each of the different depths, selecting from the respective holes samples having substantially the same degree of acidity, and quantitatively analyzing the samples so selected for leakage products characteristically associated with the presence of the hydrocarbon deposits sought for whereby the leakage products determined in each sample may be correlated with the sample location in the area being prospected to provide data from which the location of the hydrocarbon deposits can be determined.

2,324,108
AUTOVALVE ARRESTER
Sven Christian Pyk, Ludvika, Sweden, assignor to Allmänna Svenska Elektriska Aktiebolaget, Vasteras, Sweden, a corporation of Sweden
Application March 30, 1940, Serial No. 326,991
In Sweden March 21, 1939
7 Claims. (Cl. 175—30)



1. An arc gap edvice, comprising a pile of metal plates, each formed with a plurality of concavo-convex portions arranged to face alternately in opposite directions to present series of opposed convex faces and series of opposed concave faces staggered along the axial length of the pile, and distance pieces of material of high ohmic resistance and also sensitive to the voltage between opposed concave faces, said pieces having such dimensions in the direction of the axis of the pile that suitable arc gaps are formed between the opposed convex faces in opposed plates.

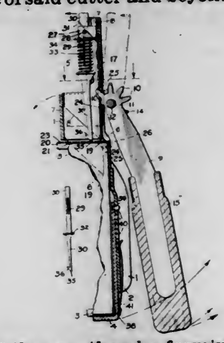
2,324,109
ELECTROMAGNETIC DEVICE
William A. Ray, Glendale, Calif.
Application February 12, 1940, Serial No. 318,520
1 Claim. (Cl. 175—336)



In a electromagnetic device, a U-shaped core member having a pair of spaced apart arms of substantially equal length, an armature fulcrumed on the end of one of said arms and having a portion cooperable with the end of the other of said arms, a coil surrounding a portion of said other arm, and a member made from a strip of non-magnetic material extending along a side of said one of said arms and secured thereto, said non-magnetic member having a portion extending beyond said fulcrum end and provided with an opening for guiding only the edges of said armature, said non-magnetic member also having a laterally extending portion provided adjacent its end with an opening for receiving the free end portion of the other of said arms to prevent relative movement of said arms.

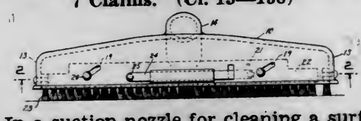
2,324,110
CAN OPENER
Gustaf L. Reenstierna, Union City, N. J., assignor of one-half to Remo Aiazzone, Union City, N. J.
Application May 23, 1942, Serial No. 444,168
8 Claims. (Cl. 30—10)

1. In a can opener, a frame, a lever operated cutter slidably mounted in said frame and a foot engaging the bottom of the can or the table upon which the can rests, vertical guiding means for said cutter and a projection on and beyond the outer surface of said cutter and beyond the normal



periphery of the can thereby forming a spout on said can, said projection forcing the top rim of the can outward beyond its normal periphery when moved down vertically in said guiding means.

2,324,111
SUCTION NOZZLE WITH AUTOMATICALLY RETRACTABLE SURFACE - CONTACTING ELEMENT
Adrian E. Ross, Stamford, Conn., assignor to Electrolux Corporation, Dover, Del., a corporation of Delaware
Application February 25, 1941, Serial No. 380,490
7 Claims. (Cl. 15—158)

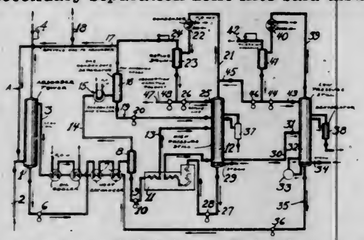


1. In a suction nozzle for cleaning a surface, a hollow body formed with a suction opening, a surface-contacting element movably carried by said body and normally depending therefrom along one side of said opening, means for guiding movement of said element in a direction having at least a component perpendicular to said surface, second means for moving said element away from said surface projecting forwardly in a horizontal direction from the exterior of said body and displaceable relative thereto in a horizontal direction by movement of the nozzle so as to bring said second means into engagement with a relatively fixed object extending above said surface, and third means acting upon release of said second means to move said element to its former position.

2,324,112
REFINING PROCESS
Walter H. Rupp, Elizabeth, and Kenneth E. Thorp, Union, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
Application April 18, 1940, Serial No. 330,240
6 Claims. (Cl. 196—8)

1. Process for the removal of absorbed hydrocarbon from absorption oil containing the same, comprising passing the absorption oil through a heating zone, introducing the heated oil into an initial separation zone under flash conditions to secure a separation between vapors and liquid, withdrawing the liquid from the initial separation zone and further heating the same, intro-

ducing said liquid at an intermediate point of a distillation tower, withdrawing the vapors from the initial separation zone, treating the same in a cooling zone and passing the same to a secondary separation zone, effecting a separation between vapors and condensate in said secondary separation zone, introducing the condensate from said secondary separation zone into said distilla-



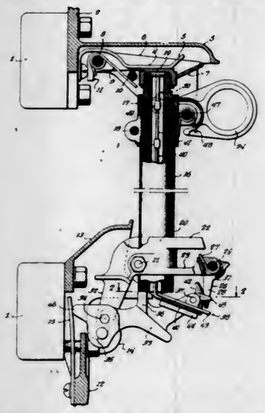
tion tower at a point intermediate the point at which said liquid is introduced and the top of the tower, removing absorbed hydrocarbons overhead from said distillation tower, substantially fully condensing said overhead, withdrawing a portion of said condensate as a recovered product, and returning a portion of the same to the top of said distillation tower as reflux.

2,324,113
METHOD OF MAKING DEXTROSE
Herman H. Schopmeyer, Hammond, Ind., and Wellbourne A. Mollison, Chicago, Ill., assignors to American Maize-Products Company, a corporation of Maine
No Drawing. Application July 1, 1941, Serial No. 400,690
4 Claims. (Cl. 127—34)

4. In making dextrose of higher rate of solution in water than alpha dextrose monohydrate, the method which comprises forming a concentrated aqueous solution consisting essentially of alpha dextrose of purity not substantially below 92.5 dissolved in water, preheating the solution to a temperature of at least approximately 200° F., and quickly evaporating water from the solution to a moisture content not substantially above 3%, the evaporation being effected below the temperature of preheating of the solution and at a temperature not substantially below 140° F. or above the melting point of the product.

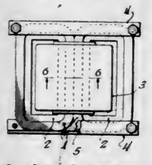
2,324,114
FUSE
William O. Schultz, South Milwaukee, and Alwin G. Steinmayer, Milwaukee, Wis., assignors to Line Material Company, South Milwaukee, Wis., a corporation of Delaware
Application July 20, 1939, Serial No. 285,474
39 Claims. (Cl. 200—114)

1. A drop-out fuse construction comprising a support having upper and lower stationary contacts, latch means adjacent the upper contact, a fuse tube normally positioned between said contacts and restrained by said latch means, said fuse tube having a closed upper end and a open lower end, a fuse link extending through said fuse tube and electrically joining said upper and lower stationary contacts, a main fuse link extracting lever pivoted to said lower stationary contact, an arm carried by said fuse tube and pivoted to said main lever and adapted to be displaced downwardly when said main lever rocks downwardly, and latching means including an auxiliary lever normally restraining the motion of said main lever, said fuse link being looped over said auxiliary lever, whereby when said fuse link is ruptured said main and auxiliary levers



will withdraw any remaining portion of the fuse link downwardly from said fuse tube and said fuse tube will move downwardly and outwardly.

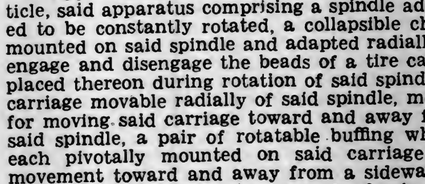
2,324,115
METHOD OF MAKING CORES FOR TRANSFORMERS OR THE LIKE
William O. Schultz, South Milwaukee, Wis., assignor to Line Material Company, South Milwaukee, Wis., a corporation of Delaware
Application June 7, 1940, Serial No. 339,257
3 Claims. (Cl. 148—12)



1. The method of making permanently shaped, closed, wound magnetic cores for transformers or the like free from any working after annealing, said method comprising forming a reverse bend in a flat ribbon of magnetic material, the reverse bend being in the opposite direction from that in which the ribbon is wound in forming the permanently shaped core, winding the reversely bent flat ribbon upon a form in a direction opposite that in which the reverse bend is formed thereby causing successive convolutions to lie tightly against each other, annealing the core while it is on the form to remove all strains including that of the reverse bend, and subsequently removing the core from the form to provide a permanently shaped, unstressed, closed core.

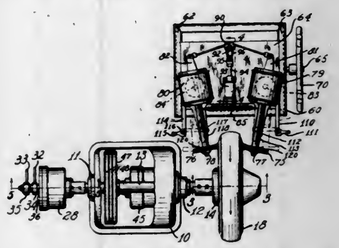
2,324,116
ROTARY OIL PUMP
Gudmund Sivertsen, Brooklyn, N. Y.
Application March 26, 1941, Serial No. 385,342
1 Claim. (Cl. 261—28)

A pumping unit for oil burners comprising a sectional casing, embodying a mixing chamber, a mixing pump located therein, an atomizing chamber, an atomizing pump therein, means for operating the two pumps in timed relation, an air inlet, including a vertical portion connectable to a source of air supply, and a horizontal portion communicating with said mixing chamber below the pump therein, an oil nozzle concentrically disposed within the horizontal portion of said inlet and extending therethrough into said mixing chamber, in proximity to said mixing pump, whereby the oil issuing from said nozzle will be subjected to the action of the surrounding stream of air in its introduction to said mixing chamber, a passage leading from the top of said mixing chamber, including a horizontal portion merging into a vertical portion, parallel with the vertical portion of said inlet, a second horizontal portion parallel to the base of the unit merging into a vertical portion opening into the atomizing



chamber beneath the atomizing pump, a vertically disposed discharge outlet leading from the top of the latter chamber and a fuel nozzle connected to said outlet, the defining surfaces of said passages to said mixing chamber and between the latter and the atomizing chamber, together with those of the two chambers and said discharge outlet, being uninterrupted and constituting a continuous closed conduit, wholly contained within said casing, to conduct the fluids through the casing for discharge therefrom into the fuel nozzle, in the ultimate combustible mixture, in a constant unidirectional movement from said inlet to said outlet.

2,324,117
APPARATUS FOR BUFFING TIRES
Walter J. Strong, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application July 11, 1940, Serial No. 344,926
3 Claims. (Cl. 51—42)



1. Apparatus for buffing an annular tire article, said apparatus comprising a spindle adapted to be constantly rotated, a collapsible chuck mounted on said spindle and adapted radially to engage and disengage the beads of a tire casing placed thereon during rotation of said spindle, a carriage movable radially of said spindle, means for moving said carriage toward and away from said spindle, a pair of rotatable buffing wheels each pivotally mounted on said carriage for movement toward and away from a sidewall of the tire, constant-pressure means for forcing the buffing wheels against the tire, and means for simultaneously withdrawing the buffing wheels radially from said casing against such constant pressure means.

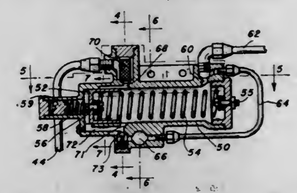
2,324,118
HIGH ANTIKNOCK MOTOR FUEL
William J. Sweeney, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application March 27, 1941, Serial No. 385,466
4 Claims. (Cl. 44—72)

1. High anti-knock motor fuel having an A. S. T. M. octane rating above 80 and comprising a major proportion of a hydrocarbon gasoline base stock having an octane rating of at least 65, about 3 cc. of tetraethyl lead per gallon, and about 5–20% of an iso-alkyl amine having 1 to 2 alkyl groups and having about 4 to 5 carbon atoms per alkyl group.

2,324,119
BONDED SILICON CARBIDE REFRACTORY
John P. Swentzel, Niagara Falls, N. Y., assignor to The Carborundum Company, Niagara Falls, N. Y., a corporation of Delaware
No Drawing. Application September 25, 1940, Serial No. 358,339
14 Claims. (Cl. 106—44)

1. A bonded silicon carbide refractory article comprising 0.5 to 10% of a barium salt distributed uniformly throughout the body of said article.

2,324,120
CONTROL DEVICE FOR BURNER NOZZLES
Oscar C. Taper and John G. Frost, Seattle, Wash., assignors to Ray Oil Burner Co., San Francisco, Calif., a corporation of Delaware
Original application September 7, 1939, Serial No. 293,830, now Patent No. 2,248,395, dated July 8, 1941. Divided and this application May 28, 1940, Serial No. 337,616
11 Claims. (Cl. 137—153)

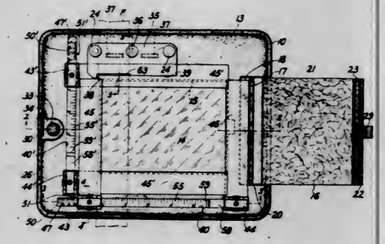


1. A control device for burner nozzles comprising a cylinder closed to the atmosphere and having an inlet port and an outlet port spaced apart axially of said cylinder, a piston-valve in said cylinder between said inlet and outlet ports and adapted to move past and open the outlet port upon the introduction of fluid fuel under pressure to said cylinder, a spring operable to move the piston-valve past the outlet port in an opposite direction to uncover the outlet port and re-position said piston-valve between the inlet and outlet ports upon the discontinuance of the inward flow of fluid fuel under pressure to thereby cause said piston-valve to withdraw fluid from said outlet port, and means for discharging from said cylinder the fluid fuel displaced by the repositioning of the piston valve.

2,324,121
PHOTOGRAPHIC PRINTING APPARATUS
Fordyce E. Tuttle and Joseph Stoiber, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application November 28, 1940, Serial No. 367,596
6 Claims. (Cl. 95—73)

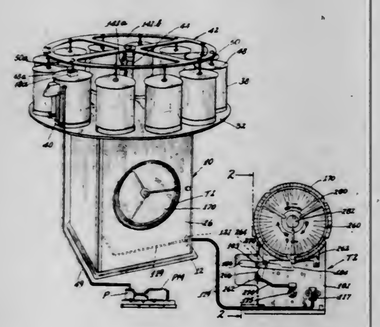
1. In a photoprinting machine the combination

of a paper support, a paper guide occupying a definite position on said support and including two perpendicular intersecting edges against which a corner of a light sensitive paper may be abutted to square the same on the support, a masking means for protecting the margins of said paper from a beam of light directed toward said paper, and including a marginal mask extending parallel to one edge of the paper guide, a second marginal mask extending parallel to the other guiding edge of said paper guide, each of said



masks slidably mounted on said paper support to move transversely of its length, two indices on said support, each one being located in a definite relation to a different guiding edge of said paper guide, and a margin scale connected to each of sad masks to move therewith and adapted to cooperate with one of said indices whereby said mask strips are adapted to be readily adjusted to cover a desired margin on two adjacent edges of a paper positioned by said paper guide.

2,324,122
AUTOMATIC IMMERSION APPARATUS
Edwin C. Weiskopf, New York, N. Y.
Application February 20, 1941, Serial No. 379,800
5 Claims. (Cl. 214—17)



1. In an automatic immersion apparatus, a plurality of receptacles, a movable carrier, intermittently operable means for moving said carrier into and out of said receptacles with intervening rest periods in said receptacles, timing means for controlling the operations of said carrier-moving means, said timing means including a motor, and means operable in response to the operation of said carrier-moving means for interrupting said motor during the periods of movements of said carrier.

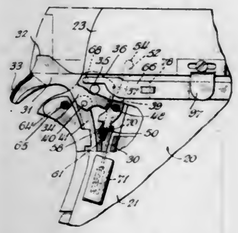
2,324,123
FOG INHIBITOR FOR PHOTOGRAPHIC DEVELOPERS
Arnold Weissberger, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application July 8, 1941, Serial No. 401,439
12 Claims. (Cl. 95—88)

1. A photographic developer containing a developing agent and as a fog inhibiting agent a nitro derivative of 2-aminobenzimidazole.

2,324,124
WATER-SOLUBLE BERYLLIUM-PHOSPHATE GLASS
Milton Williams, Houston, Tex., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application September 21, 1937, Serial No. 164,871
9 Claims. (Cl. 252—8.5)

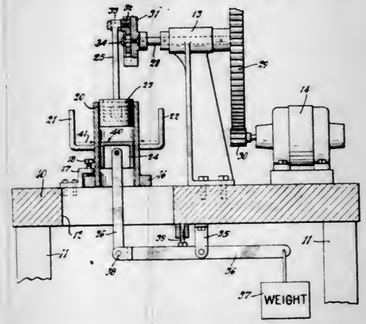
1. The method of improving a drilling mud which comprises adding thereto a water soluble glass comprising an alkali metal phosphate homogeneously associated with an oxygen-containing compound of beryllium.

2,324,125
FIREARM
Oertel F. Van Horn, New York, and John D. Whittaker, Babylon, N. Y., assignors to Automatic Appliance Corporation, New York, N. Y., a corporation of New Jersey
Application February 21, 1941, Serial No. 379,916
10 Claims. (Cl. 42—3)



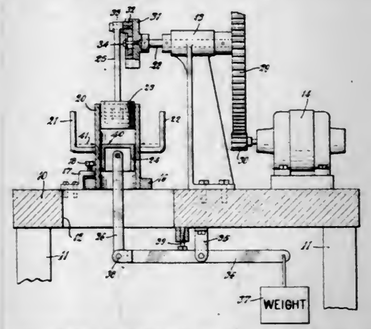
1. In a convertible fire-arm for intermittent and continuous firing, in combination, a sear having a locking portion, a movable hammer adapted to be locked by said portion of the sear, a reciprocable slide engaging and moving said hammer, a trigger portion movable from an inoperative position to a depressed position, means actuated by said trigger portion during its movement from said inoperative position to said depressed position to withdraw said portion of the sear from engagement with said hammer, a spring engaging said sear for returning said portion of the sear into engagement with said hammer during intermittent firing, a converter element movable from a continuous firing position to an intermittent firing position, and vice versa, and engaging said sear and said trigger portion in said continuous firing position to maintain said portion of the sear out of engagement with said hammer while said trigger is in the depressed position, and automatically operable means locking said hammer during a part of the reciprocatory movement of said slide and releasing said hammer to enable it to move relatively to said slide during continuous firing.

2,324,126
METHOD OF DETERMINING FRIABILITY
Herman Wilbur Anway, Cloquet, Minn., assignor to Wood Conversion Company, Cloquet, Minn., a corporation of Delaware
Application August 19, 1939, Serial No. 290,999
7 Claims. (Cl. 73—51)



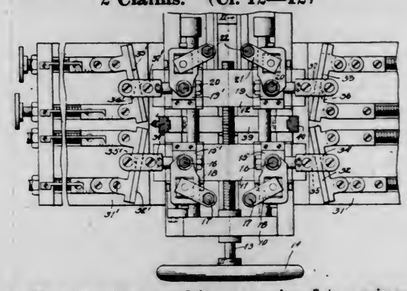
1. The method of determining an index of friability of friable material which comprises repeatedly pounding a standardized weight specimen of the material in a space of standardized area with a sequence of standardized impacts, determining the loss of weight of the specimen due to its friability at several intervals in the pounding, and from the data corresponding to a plot of the ratio: loss of weight to remnant, on one axis and sequence of impacts on the other axis, determining a value corresponding to the slope of the plotted line as the friability.

2,324,127
TESTING APPARATUS FOR FRIABILITY OF FRIABLE MATERIAL
Herman Wilbur Anway, Cloquet, Minn., assignor to Wood Conversion Company, Cloquet, Minn., a corporation of Delaware
Application June 9, 1941, Serial No. 397,189
7 Claims. (Cl. 73—51)



1. Apparatus comprising a vertical cylinder, two pistons movable in said cylinder with horizontal flat areas opposing each other, the bottom piston being movable downwardly from a maximum high position against a standardizable force by impact of the other upon a test specimen resting on the bottom piston, the upper piston being reciprocable over a standardizable range including the said maximum high position at a standardizable location within the limits of said range, and means to reciprocate said upper piston at a standardizable rate.

2,324,128
LASTING MACHINE WIPER STRUCTURE
Joseph W. Barna, Chicago, Ill., assignor, by direct and mesne assignments, of forty-nine one-hundredths to C. A. Laystrom, thirty-two one-hundredths to Mary Theresa Barna, five one-hundredths to Carl A. Laystrom, and fourteen one-hundredths to Valentine E. Hoffman, all of Chicago, Ill.
Application April 2, 1942, Serial No. 437,331
2 Claims. (Cl. 12—12)

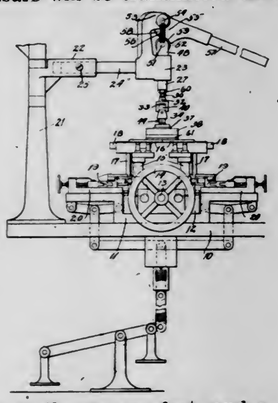


1. In a lasting machine, a pair of toe wipers, a pair of heel wipers, said pairs being movable bodily toward each other longitudinally of the machine, each of said toe wipers having a tongue integral therewith and extending rearwardly and inclined laterally outwardly, each of said heel wipers having a tongue integral therewith and extending forwardly therefrom and inclined laterally outwardly, a pair of side wipers and rigid supports therefor permitting movement thereof only widthwise of the machine, each side wiper having channels in its upper side laterally inclined to receive respectively the rearwardly and forwardly extending tongues on the corresponding toe and heel wipers whereby said side wipers support said tongues against downward pressure thereon, and means for simultaneously moving said toe and heel wiper pairs toward said other longitudinally of the machine whereby said inclined tongue and channel connections will effect lateral inward movement of said side wipers widthwise of the machine with the strain of such inward movement borne substantially equally by said toe and heel wipers.

2,324,129
PRESSER STRUCTURE FOR SHOE LASTING MACHINES
Joseph W. Barna, Chicago, Ill., assignor, by direct and mesne assignments, of forty-nine one-hundredths to C. A. Laystrom, thirty-two one-hundredths to Mary Theresa Barna, five one-hundredths to Carl A. Laystrom, and fourteen one-hundredths to Valentine E. Hoffman, all of Chicago, Ill.
Application April 2, 1942, Serial No. 437,332
4 Claims. (Cl. 12—7)

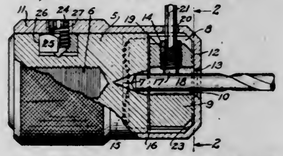
4. In a lasting and sole laying machine having a supporting base and a wiper assembly mounted thereon, a presser structure comprising a pedestal on the base, a presser body mounted on said pedestal for movement into position over the wiper assembly, said pressure body having a vertical bore, a bar shiftable in said bore, a cam on said body adapted for camming engagement with said bar to effect downward shift thereof, a stem extending downwardly from said bar, a presser foot, a coupling connecting said presser foot with the end of said stem, said bar and said stem and said coupling providing an axially unyielding connection between said cam and the presser foot,

said stem having adjustable connection with said bar for adjustment of the length of said connection whereby for each operation of said cam the same pressure will be transmitted through said



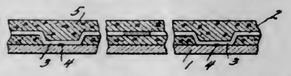
connection to the presser foot, and a yieldable pad on said presser foot for uniform distribution of the pressure to soles to be laid on uppers in the wiper assembly.

2,324,130
CHUCK
Wendell K. Beckwith, Whitewater, Wis., assignor to Milwaukee Electric Tool Corporation, Milwaukee, Wis., a corporation of Wisconsin
Application January 21, 1942, Serial No. 427,633
5 Claims. (Cl. 279—18)



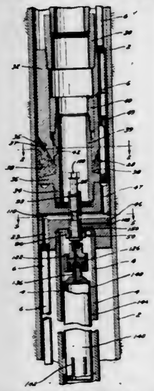
1. In a chuck, a driving member having one end formed for attachment to a support and its opposite end provided with a central tapered recess and spaced walls extending across the member on opposite sides of the open end of said recess, a block movable across the open end of said tapered recess between said walls and being pierced by a V-sided opening extending away from the recess, a collar secured to said driving member and having an end wall provided with a hole disposed in axial alinement with said recess but on the opposite side of the block, a clamping set screw carried by said block entirely within said collar, and resilient means for constantly urging said block away from said tapered recess and against said end wall of the collar.

2,324,131
SECURING REINFORCED COVERINGS TO STEEL SHIP DECKS
Felix T. Boylan, New York, N. Y.
Application April 28, 1942, Serial No. 440,841
2 Claims. (Cl. 114—85)



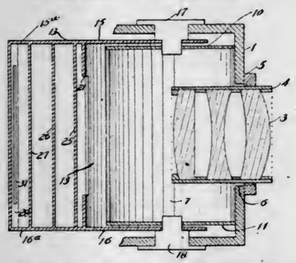
1. The combination with a steel ship's deck, of a protective covering of plastic material applied to the surface thereof, and a formation of expanded metal sheet embedded in such plastic material, such expanded metal having spaced apart laterally offset areas whereby a substantial portion of the expanded metal is held substantially spaced from the deck surface, and the portion lying against the steel deck surface spot welded thereto, said off-set areas being continuous at both ends thereof with the body of the expanded metal sheet, whereby a maximum of relative rigidity and assurance against a relative vibration is attained.

2,324,132
AUTOMATIC INTERMITTING UNIT
Walter Brauer, Oklahoma City, Okla.
Application February 10, 1941, Serial No. 378,284
14 Claims. (Cl. 103—260)



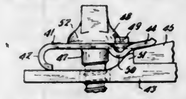
1. In a pressure fluid lifting apparatus comprising an eduction tubing disposed in a well, a valve collar arranged in the tubing, a movable inlet valve arranged therein controlling flow of motive fluid into the eduction tubing, open-ended means arranged in the eduction tubing and movable to sink and float in the liquid being lifted, said means operably cooperating with the valve whereby floating of the means will move the valve to discharge pressure fluid therethrough, and means for jetting the discharged pressure fluid in an upstream direction into the eduction tubing.

2,324,133
LIGHT CONTROL MEANS
Paul Burgess, Los Angeles, Calif.
Application May 22, 1940, Serial No. 336,557
5 Claims. (Cl. 88—57)



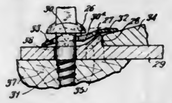
1. In a device of the character disclosed, a lens, a member provided with a pair of light tunnels through which refracted image bearing light is passed from the lens, said member provided with partitions adjacent the light tunnels, and adapted to confine the the image light refraction within the refrangible limits of the visible spectrum, and partitions bounding said light tunnels adapted to intercept and reject all light rays passed through said lens after striking the front surface thereof at an angle of 90° incident thereto.

2,323,134
RAIL CLAMP
William H. Chidester, Lakewood, Ohio, assignor of one-half to Jacob R. Snyder, Cleveland, Ohio
Application March 26, 1941, Serial No. 385,288
8 Claims. (Cl. 238—349)



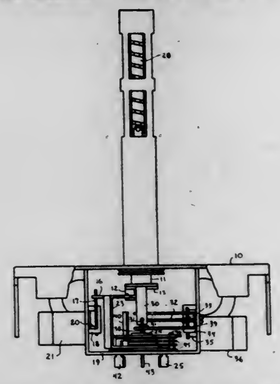
1. In a rail fastening, the combination with a tie and a tie-plate adapted to receive a rail thereon and having an upstanding shoulder adapted to be engaged by an edge of the rail flange, an elongated resilient clamp for holding the rail in place on said tie-plate and having a slot extending lengthwise thereof and opening toward the rail, and headed fastening means extending through said slot and into the tie for drawing the clamp toward the tie-plate, said clamp comprising a single-thickness metal plate having end bearing portions one of which bears against the tie-plate and the other of which bears against the rail flange, the clamp also having integral upstanding shoulder means on the upper side thereof and located adjacent the edges of said slot and at an intermediate point of the slotted length of the clamp so as to be engageable with the head of the fastening means for preventing endwise lateral displacement of the clamp from beneath said head, said clamp being also provided adjacent its side edges with depending integral shoulder means engageable with said upstanding shoulder of the tie plate to prevent turning movement of the clamp relative to the rail.

2,324,135
RAIL FASTENING
William H. Chidester, Lakewood, and Jacob Rush Snyder, Cleveland, Ohio
Application September 6, 1941, Serial No. 409,858
6 Claims. (Cl. 238—349)



1. In a rail fastening the combination of a tie plate adapted to receive a rail thereon, an opening in said tie plate, a resilient metal clamping member having end portions adapted to bear respectively on the rail flange and on the tie plate and also having an upwardly bowed intermediate portion provided with an opening located to overlie the opening of the tie plate, a headed fastening member extending through said openings and adapted to bear against said bowed portion for holding the clamping member in flexed condition for clamping the rail to said tie plate, and depending relatively pointed transverse integral rib means formed on said clamping member and providing relatively narrow stop means at a point below the lower surface of the clamping member, said stop means being located to lie beneath the head of said fastening member and being engageable with the tie plate for limiting the flexing of said clamping member by said fastening member.

2,324,136
COMBINATION SWITCH
Stephen Crum, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application February 19, 1941, Serial No. 379,563
21 Claims. (Cl. 200—139)



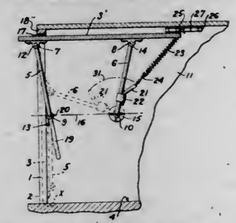
1. In combination, a member movable in accordance with the variations of a variable condition, a switch operable by said member, a strain release spring, and means including said spring operatively connecting said member with said switch so that the tension of said spring, and thereby the force opposing movement of said member in either direction remains substantially constant after actuation of said switch in a corresponding direction.

2,324,137
FOOD CONTAINER
Samuel C. Cunningham, Philadelphia, Pa.
Application May 28, 1938, Serial No. 210,703
12 Claims. (Cl. 53—6)



4. Means for cooking in deep fat and serving a food, comprising a cellulose ingredient permeated with a carbohydrate and a refractory ingredient.

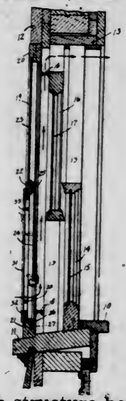
2,324,138
OVERHEAD GARAGE DOOR
Alexander C. D'Alfonso, Santa Barbara, Calif.
Application February 12, 1940, Serial No. 318,467
5 Claims. (Cl. 20—16)



1. In an overhead swinging garage door guided

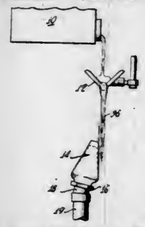
from vertical closed position to substantially horizontal overhead position on two pairs of pivoted arms, one pair pivoted on horizontal axes each at one to the lower part of the door, and at the other end to a fixed higher point on the garage structure, and the other pair similarly pivoted at one end each to the upper part of the door and at the opposite end to a point on the garage about midway in the height of the doorway, a coiled tension spring anchored at one end to a fixed point adjacent to the upper part of the garage and connected at its other end with one of the upper pair of arms at a point which is substantially on a line passing through said fixed point and the fixed pivot of the arm when the door is fully open.

2,324,139
SASH AND VENTILATOR
Latta O. Davis, Greenfield, Ind.
Application May 9, 1941, Serial No. 392,653
1 Claim. (Cl. 160—90)



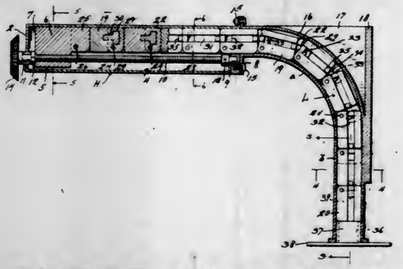
A singular sash structure having a rigid frame and adapted to be secured in a window casing in storm window relation, the window casing supporting guillotine type windows, a stationary glass plate secured in the upper half of said structure frame, a slidable and adjustable glass plate mounted in the lower half of the structure frame, a cross member below the upper glass and retaining same in the sash structure frame and forming a lower half opening therethrough, a sealing strip means carried by the cross member and constantly engaging the adjustable glass plate in all positions thereof for insuring direct or circuitous air circulation from the last mentioned opening through the guillotine window casing when the adjustable plate is appropriately elevated and at least one of the guillotine windows is appropriately opened, and as a completely sealed storm window when the adjustable plate is fully lowered to close the lower half opening, a framed screen removably seated in the lower half opening of the sash frame and in spaced relation to said adjustable glass plate and substantially co-planar with the stationary glass plate, said sash structure frame and screen frame being provided with a series of aligned openings extended horizontally and inwardly of the plane of the screen for receiving removable locking pins for removably securing within the sash structure frame said screen frame, said sash structure frame also being provided with another series of openings and in the lower half thereof and extending at right angles to the parallel planes of the glass plates and screen, and a U-shaped keeper pin having one shank end portion removably engageable in any one of said last mentioned right angle positioned openings and a second shank end portion at right angles to the pin's central portion and directed similar to and substantially parallel to the first shank end portion and provided with a cushion head extending into the plane of the said adjustable plate for engaging the bottom thereof to support said glass plate in one of the raised positions.

2,324,140
MINERAL WOOL FORMING APPARATUS
Nicholas Dobak, Manville, and Edward R. Powell, North Plainfield, N. J., assignors to Johns-Manville Corporation, New York, N. Y., a corporation of New York
Application May 21, 1941, Serial No. 394,506
10 Claims. (Cl. 83—91)



1. A nozzle for projecting a fluid jet against a stream of molten material, said nozzle comprising a hollow body including wings defining an open space therebetween, each of said wings including a forward face exposing an elongated fluid discharge orifice communicating with said hollow interior, said orifices diverging to form a substantially V-shaped port, a portion of each face interiorly of said V and contiguous to an orifice lying in a plane gradually inwardly diverging from the plane of the face portion on the opposite side of said orifice, said last-named divergence beginning at a point adjacent the lower end of said V.

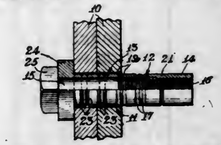
2,324,141
JACK
Clarence M. Donahoo, Detroit, Mich., assignor of one-fourth to Donald McElderry and one-fourth to Frank R. McElderry, both of Ottumwa, Iowa
Application April 19, 1941, Serial No. 389,425
3 Claims. (Cl. 254—1)



1. A jack including a housing having its opposite end portions angularly related and its intermediate portion arcuate, a flexible leg movable into and out of the housing through an end thereof, said leg comprising a plurality of links, each of the intermediate links being provided at one end with spaced arms and at its opposite end with a lug, the lug extending between the arms of an adjacent link, means for pivotally

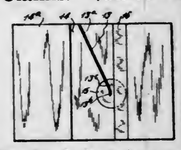
connecting the lug and arms of an adjacent link, a T slot disposed through the lug, one of the arms having an opening registering with the head of the T slot of the lug therebetween when adjacent links are substantially aligned, an elongated rigid member slidably mounted in the head of the T slot of the lug, the body of the link having a transverse groove therethrough which has communication with the leg of the T slot of the lug, a stem carried by the rigid member at an extremity thereof and freely received within the leg of the T slot, oppositely disposed arms extending laterally from the stem, the said arms of the stem having sliding engagement within the transverse groove in the body of the link, said arms of the stem being of such length to have one of said arms fully retracted within the body of the link when the other arm of the stem is extended therebeyond, the sliding member, stem and arms of the stem constituting a unit for recurrent movement transversely of the link, and means carried by the housing for contact with an extending arm of the stem for moving the sliding member in a direction to engage in the opening of one of the arms of a link to lock adjacent links against relative swinging movement or to release adjacent links for relative swinging movement.

2,324,142
RIVET AND METHOD OF MAKING SAME
Howard J. Eklund, Chicago, Ill., assignor to Rolyan Corporation, Chicago, Ill., a corporation of Illinois
Application April 3, 1941, Serial No. 386,654
15 Claims. (Cl. 10—27)



13. The method of making a rivet, which comprises providing a tubular member for insertion into the structure to be riveted and to extend beyond one side thereof, the extending portion being adapted to be bulbed outwardly, and forming a pair of slightly spaced external annular grooves in said member to cause the metal to bulb on both sides of said pair of grooves and to increase the amount of metal included in the bend connecting the bulbed portions.

2,324,143
METHOD OF MAKING THREAD ROLLING DIES
Harvey C. Erdman, Shaker Heights, Ohio, assignor to The National Screw & Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application January 28, 1943, Serial No. 473,780
3 Claims. (Cl. 76—107)



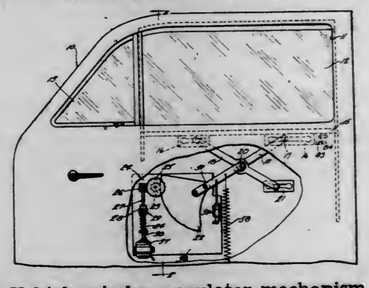
1. The method of forming a die for rolling threads on a scrivet with a thread portion or portions and a shoulder forming portion or portions spaced from the head of the scrivet, which comprises forming on the die parallel grooves, and stamping the shoulder forming portion as continuations of the parallel portions.

2,324,144
MULTIPLE CONNECTOR PLUG
Frank J. Faulkner, Chicago, Ill., assignor to G-M Laboratories, Inc., Chicago, Ill., a corporation of Illinois
Application April 3, 1941, Serial No. 386,673
15 Claims. (Cl. 173—328)



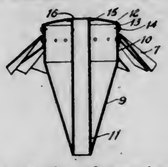
2. In a multiple connector of the character described, a plug member having a body portion and a plurality of pairs of contact members carried thereby, said contact members being regularly spaced and projecting uniformly from the body portion and comprising a main body portion and a lower portion at an angle thereto, and a jack portion comprising an insulating body member and contact members carried thereby with a portion spaced slightly from said body member, said body member provided with openings corresponding in position to the contact members on the plug member, and communicating with the contact members on the jack member, whereby said plug contact members may be extended into said openings and the plug and jack members moved relatively to each other in a straight line to wedge the lower angle portion of said plug contact members between said jack contact members and their supporting body.

2,324,145
REGULATOR MECHANISM FOR VEHICLE WINDOWS OR THE LIKE
Burton S. Floraday, Toledo, Ohio, assignor to Detroit Harvester Company, Detroit, Mich.. a corporation of Michigan
Application December 24, 1940, Serial No. 371,524
6 Claims. (Cl. 268—124)



1. Vehicle window regulator mechanism comprising a swinging arm device operatively connected to an edge portion of the window and including an actuating gear, a pinion at all times in mesh with said gear, an electric motor operatively connected to drive said pinion for actuating the window in one direction, a clutch interposed between said motor and pinion, a spring connected to said regulator arm device adapted to be placed under tension upon movement of the window by said motor, means for manually releasing said clutch to enable said spring to actuate the window, said releasing means including a member accessible from the inside of the vehicle operable to release said clutch upon actuation in one direction and energize said motor upon actuation in another direction.

2,324,146
CONTAINER HAVING RETARDING MEANS
Guernsey Frazer, Los Angeles, Calif.
Application July 19, 1940, Serial No. 346,336
1 Claim. (Cl. 244—138)



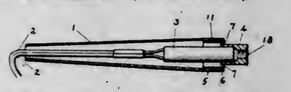
In a device of the character disclosed an inverted cone-shaped container, circumferentially arranged blades extending outwardly from said container and adapted to cause said container to rotate during descent of said container under gravity through a fluid medium and in turn oppose the rate of descent of said container under gravity, and a tube within and extending axially of the container forming a central fluid-way for said container for controlling drift of said container during movement thereof under influence of gravity.

2,324,147
BURNER NOZZLE
Napoleon J. Gendron, Seattle, Wash.
Application January 15, 1941, Serial No. 374,441
4 Claims. (Cl. 299—121)



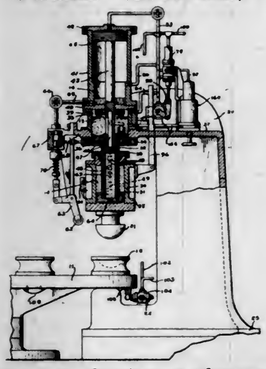
1. A nozzle, comprising: a hollow member having a flared and tapered end forming an elongated discharge opening, one of the lips of said opening extending forwardly of the other lip, said forwardly extending lip having edge dentations extending axially outward beyond the body of the nozzle whereby fluid passing through said nozzle flows over the forwardly extending lip and its dentations to the tips of the latter for atomizing purposes.

2,324,148
ELECTRICALLY HEATED SAFETY RAZOR
Moses M. Gravin, Rochester, N. Y.
Application January 30, 1942, Serial No. 428,883
5 Claims. (Cl. 219—21)



1. An electrically heated safety razor comprising a hollow handle of heat insulating material open at both ends thereof and tapering from the head end to the tail end thereof, a metallic sleeve having one end thereof detachably fitted in the open head end of said handle with the other end thereof protruding from said handle and provided with a threaded bore for receiving the threaded stud of a safety razor assembly, a cylindrical encased electrical heating element slidably mounted in said sleeve and extending from said first end of said sleeve coaxially with said threaded bore, thereby being in heat-conductive relation with said safety razor assembly while also being centrally spaced within said hollow handle, and apertures at the head end of the handle to induce a cooling thereof by the circulation of air between the ends thereof.

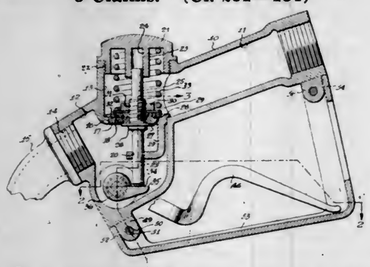
2,324,149
HYDROPNEUMATIC PRESS
David E. Gray, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a corporation of New York
Application August 27, 1940, Serial No. 354,450
7 Claims. (Cl. 60—54.5)



3. In a press mechanism, a plunger, fluid operated means for lowering and raising said plunger, other means for supplying fluid under pressure to said fluid operated means to lower said plunger, means responsive to pressure developed in lowering said plunger for removing pressure from the fluid operated means, means for thereafter operating said other means to effect raising of the plunger, and a timing device for delaying the raising operation of the plunger for a predetermined time period after pressure has been removed from the fluid.

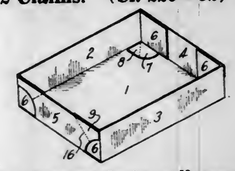
7. In a glass working machine a crosshead actuating assembly including a piston and cooperative cylinder, a reservoir in communication with said cylinder containing a liquid, a reservoir charged with compressed air, a compressed air supply line, a multiposition valve, means for operating said valve to bring said charged reservoir into communication with said first reservoir whereby the compressed air supplied by the charged reservoir will force liquid from said first reservoir into said cylinder and thus effect an actuation of the crosshead and means responsive to the actuation of the crosshead for operating said valve to establish direct communication between said air supply line and said second reservoir whereby more of the liquid in said first reservoir is forced into said cylinder to effect a further actuation of the crosshead.

2,324,150
LIQUID DISPENSING NOZZLE
Harry M. Groomes, Whitmore Lake, Mich.
Application October 21, 1940, Serial No. 362,014
5 Claims. (Cl. 251—134)



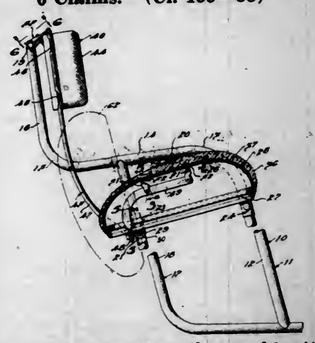
1. In a liquid dispensing nozzle, a nozzle casing structure having a valve chamber with a valve port therein, a valve stem reciprocable within said valve chamber, a valve mounted on said valve stem and engageable with said valve port, a cam shaft structure having a cam thereon engageable with said valve stem, a packing disposed between said cam shaft structure and said casing structure, and yielding means for urging said cam shaft structure against said packing at a substantially constant pressure, at least one of said structures having a ridge thereon projecting into said packing whereby to prevent leakage past said packing.

2,324,151
FOLDING BOX
Roderick W. Hoag, Melrose, Mass.
Application February 17, 1940, Serial No. 319,431
2 Claims. (Cl. 229—32)



1. A folding box made in collapsed condition, and when set up for use comprises, a bottom section, upright side walls and upright end walls, an end wall securing segment crease-hinged to each end edge of the end walls on a line radiating from the corresponding bottom corner of the box, a corner section at each corner of the box crease-hinged to an end edge of the side walls on a line radiating from the corresponding bottom corner of the box and being secured to and lying against the corresponding end wall securing segment, and a locking section crease-hinged to each corner section and lying against the bottom section, and a locking flap crease-hinged to each locking section on a line radiating from the corresponding bottom corner of the box and being secured to the bottom section of the box.

2,324,152
TRACTOR SEAT
Alfred H. Haberstump, Detroit, Mich., assignor to The Murray Corporation of America, Detroit, Mich., a corporation of Delaware
Application July 16, 1938, Serial No. 219,563
6 Claims. (Cl. 155—53)



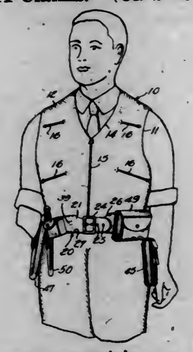
3. In a seat construction, the combination with a frame embodying side elements joined across the back at the top, a seat cushion, means releasably supporting the seat cushion for pivotal movement to the rear portion of the side elements, a back cushion, means releasably supporting the back cushion to the rear portion of the side elements which permits the vertical movement of the back cushion relative to the elements, and brackets extending inwardly from the front end of the side elements to support the seat cushion with the space between the frame open when the seat cushion is tilted upwardly, and means interconnecting said two cushions which are removable as a unit from said frame.

2,324,153
SCREW-HOLDING SCREW DRIVER
John Hagness, Los Angeles, Calif., assignor to Russell W. Edwards, Los Angeles, Calif.
Application January 21, 1941, Serial No. 375,170
1 Claim. (Cl. 145—50)



A tool as described comprising a tubular handle, a tubular shank axially slidable but non-rotatably mounted in said handle and having a screw slot engaging tip portion, a wedge pin member rotatably but non-slidably mounted in the bore of said shank and having a wedge tip portion co-terminal with said shank tip portion, and means to rotate said member substantially 90 degrees when said handle is moved with respect to said shank by pressure applied to said handle, said means comprising a cam groove in the bore of said handle and a lateral projection on said pin member adapted to engage said cam groove.

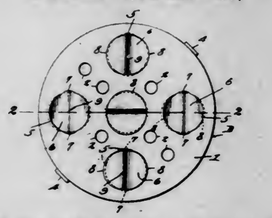
2,324,154
HUNTING GARMENT
Orlando C. Haney, Pendleton, Oreg.
Continuation of application Serial No. 348,956, July 31, 1940. This application November 3, 1941, Serial No. 417,691
11 Claims. (Cl. 2—94)



1. A garment comprising a jacket, a belt

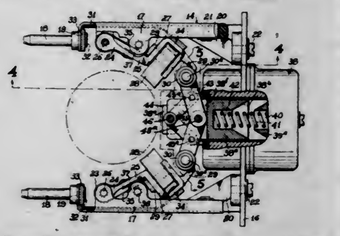
stitched throughout the greater portion of its length adjacent opposite edges thereof to said jacket approximately at the waist line thereof, the stitchings of the belt to the jacket being spaced apart a substantial distance to provide a tunnel between said belt and the adjacent portion of the jacket, said belt being provided between the stitchings thereof with transverse slits, and a load supporting strap threaded through said slits whereby portions of the strap lie within said tunnel and other portions of the strap are arranged outwardly of the outer face of the belt for the connection of articles thereto, said strap having one end secured with respect to said belt and arranged between said belt and the body of the garment to be protected by the belt.

2,324,155
OUTLET BOX
Robert Earl Haynes, San Francisco, Calif.
Application January 16, 1943, Serial No. 472,648
1 Claim. (Cl. 220—27)



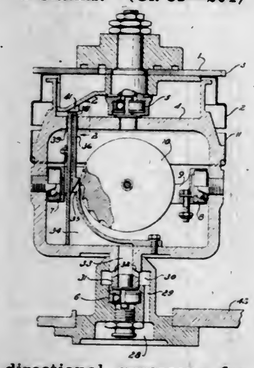
A knock-out disk for an electrical outlet box, the disk having its constituent material extended peripherally at oppositely-disposed places about the periphery to form outwardly-projecting lips and having its constituent material extended between the lips to form outwardly projecting wings, the disk being creased entirely across to form a tool seat, the crease passing across the lips, and the lips being of substantially less circumferential length than the wings to facilitate the aforesaid creasing, the creasing serving to form the disk into two parts disposed at such an angle to each other that the disk may pass through the opening in the outlet box which the disk is intended to close.

2,324,156
BRUSH LIFTING RELAY MECHANISM
Ralph M. Heintz, Shaker Heights, and Philip F. Scofield, Cleveland Heights, Ohio, assignors to Jack & Heintz, Inc., Cleveland, Ohio, a corporation of Ohio
Application July 11, 1941, Serial No. 402,022
14 Claims. (Cl. 171—324)



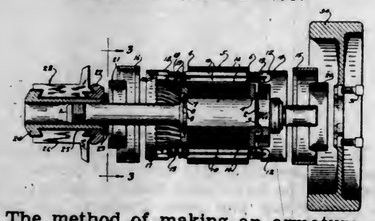
1. In brush operating mechanism of the class described, in combination, a commutator, a brush lifting and relay unit associated with the commutator and comprising a plurality of brush carrying members, means pivotally supporting said brush carrying members at corresponding ends thereof, brushes mounted on the brush carrying members to coact with the commutator, means normally tending to move said brush carrying members for effecting contact of the brushes with the commutator, retracting means for lifting the brushes away from the commutator, including a toggle unit comprising toggle levers engaging the brush carrying members, instrumentalities supporting the toggle levers, and means for actuating the toggle levers simultaneously for causing the portions thereof engaging the brush carrying members to simultaneously effect movement of the latter.

2,324,157
AIR JET GYRO DRIFT CONTROL
Ralph M. Heintz, Cleveland, Ohio, assignor to Jack & Heintz, Inc., Cleveland, Ohio
Application February 5, 1942, Serial No. 429,639
2 Claims. (Cl. 33—204)



1. In a directional gyroscope for aircraft, a frame member rotatable on a normally vertical axis, said frame member carrying an azimuth reference scale and being adapted to be turned to a selected fixed position with respect to said aircraft, a directional element comprising a vertical gimbal ring rotatable about said axis, an azimuth scale on said directional element adjacent said reference scale, a rotor bearing frame pivotally carried in said gimbal ring, upwardly directed air jet nozzle means carried by said gimbal ring, and vane means on said frame member adapted to cooperate with said nozzle means to resiliently maintain said gimbal ring in a predetermined orientation with respect to said frame member when air is flowing through said nozzle means, to prevent drifting of said directional element.

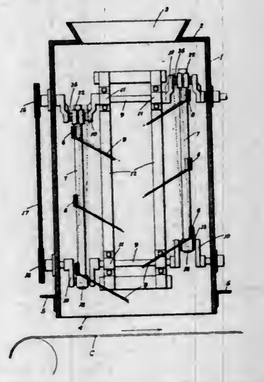
2,324,158
ARMATURE CONSTRUCTION
Ralph M. Heintz, Cleveland, Ohio, assignor to Jack & Heintz, Inc., Cleveland, Ohio
Application March 11, 1942, Serial No. 434,236
8 Claims. (Cl. 171—206)



1. The method of making an armature com-

prising the steps of inserting conductors in conductor slots in a prepared stack of armature laminations so as to leave a ring of end portions of said conductors protruding from said slots, applying a rigid annular band over said ring of end portions so that the tips of said end portions extend beyond said band for connection with commutator elements, and then pressing a rigid annular wedging member within said ring to wedge said end portions firmly against said band.

2,324,159
BALED HAY SEPARATOR
Eugene E. Higginbotham, Escalon, Calif.
Application January 2, 1942, Serial No. 425,485
9 Claims. (Cl. 146—160)



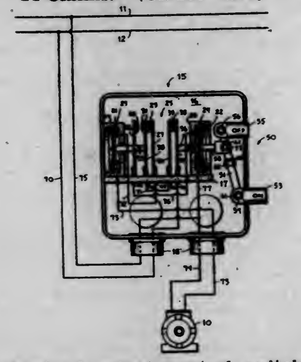
1. A baled hay separator comprising upstanding transversely spaced frames, means to feed hay between the frames from above the same, means mounting said frames for substantially parallel reciprocating movement, and a row of teeth projecting inwardly from each of said frames, said teeth extending from the frames at a downward slope whereby the hay resting on the teeth will tend to move downward and toward the outer end of the teeth.

2,324,160
CORE TAKING APPARATUS
John E. Hoffoss, Houston, Tex., assignor to Reed Roller Bit Company, Houston, Tex., a corporation of Texas
Application July 3, 1942, Serial No. 449,566
8 Claims. (Cl. 255—72)



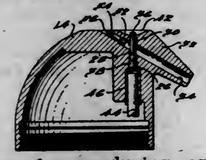
1. In a coring apparatus, a core drill, a core barrel within said core drill and having a circumferentially facing abutment on its exterior surface, and a driving finger carried by said core drill and extending inwardly in a direction substantially tangential with respect to said core barrel to engage the abutment on said core barrel and cause the same to rotate with said core drill.

2,324,161
CONTROL MEANS
Gifford I. Holmes, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application March 31, 1941, Serial No. 386,006
14 Claims. (Cl. 175—294)



3. An overload cutout control switch for an electric motor supplied with electricity by a plurality of conductors, comprising in combination, a first double pole switch, a first heat actuated means responsive to the quantity of current used by said motor for moving said first switch, said first switch being in circuit with said motor when in one of its positions, a second single pole switch, a time delayed second heat actuated means for moving said second switch, and a heater for said second heat actuated means, said heater being in circuit when said first switch is in the other of its positions because of the occurrence of an overload condition in said motor, said second switch being in circuit with said first switch for either of its positions and adapted to deenergize it to render said motor inoperative when the overload condition exists for a predetermined period of time.

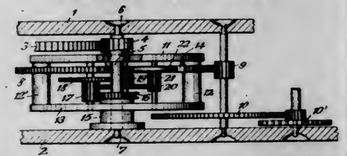
2,324,162
WHIPPED CREAM DISPENSER
Will W. Hubenet, Detroit, Mich.
Application May 27, 1940, Serial No. 337,364
1 Claim. (Cl. 221—74)



In a device for producing and dispensing whipped cream, a container including a bottom portion and a cap portion removably connected together for housing liquid cream and a gas under pressure, and discharge means formed in said cap through which said cream and gas flow, said discharge means including an upright passageway having smooth internal surfaces throughout, said passageway being divided into first, second, and third sections of progressively decreasing diameter toward the top thereof, the adjoining portions of said first and second sections forming a tapered valve seat, a discharge passageway intersecting said first named passageway at said second section, a valve plunger having an enlarged portion with a tapered shoulder adapted to seat against said valve seat, said valve plunger being slidably disposed within said first

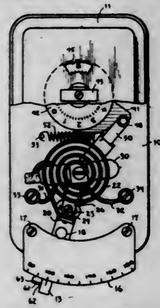
named passageway and, another passageway formed in said cap in alignment with said discharge passageway and forming a continuation thereof, and means closing said another passageway.

2,324,163
DRIVING MECHANISM
Philippe René Jaccard, Petit Lancy, Geneva, Switzerland
Application April 2, 1941, Serial No. 386,557
In Switzerland April 1, 1940
6 Claims. (Cl. 185—40)



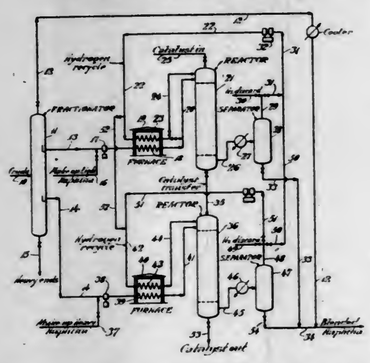
1. A driving mechanism for transmitting the driving force with constant torque from a driving member to a speed controlled driven member, said mechanism including a transmission unit adapted to be installed as a unit between the driving and driven members, said unit including a rotatable arbor adapted to be connected to the driving member, a supporting member mounted for rotation with said arbor, a wheel loosely carried by said arbor and adapted to be connected to said driven member, an auxiliary driving-spring interposed between the supporting member and said wheel, a stationary gear mounted coaxially with said arbor, a braking disc carried by the supporting member, a planetary gear carried by the supporting member and meshing with said stationary gear, a wheel train operatively connecting the planetary gear to said braking disc to impart rotation of the disc upon rotation of the supporting member, and means coacting with the braking disc for frictionally engaging the disc to prevent substantial relative movement between the supporting member and said loose wheel and to maintain said auxiliary spring at substantially uniform tension.

2,324,164
CONTROL DEVICE
Carl G. Kronmiller, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application November 6, 1940, Serial No. 364,525
19 Claims. (Cl. 200—139)



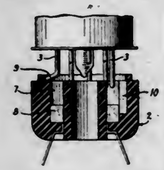
1. In a thermostat, in combination, a thermostatic element, control means operatively connected to said thermostatic element, manually positionable means for adjusting the temperature at which said thermostatic element actuates said control means, and time responsive means manually engageable and disengageable with said manually positionable means for moving said manually positionable means through a continuous timed program of adjustment.

2,324,165
DEHYDROAROMATIZATION
Edwin T. Layng, Jersey City, N. J., and Robert F. Marschner, Chicago, Ill., assignors of one-half to Standard Oil Company, a corporation of Indiana, and one-half to The M. W. Kellogg Company, a corporation of Delaware
Application September 13, 1939, Serial No. 294,782
17 Claims. (Cl. 196—50)



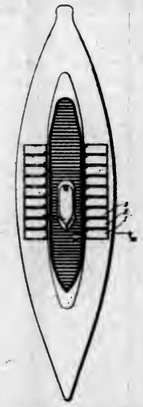
1. The method of converting low knock rating naphtha to high knock rating motor fuel in a dehydro-aromatization system which comprises fractionating the naphtha into a C_4—C_5 fraction, a C_6 to C_8 fraction and a C_8 to C_{12} fraction, aromatizing the C_6 to C_8 fraction under severe conditions with a dehydro-aromatization catalyst in the presence of hydrogen, separately aromatizing the C_8 to C_{12} fraction under milder conditions in the presence of the same catalyst, separating the hydrogen from the liquid reaction products of said treating steps, and combining said liquid reaction products with the C_4—C_5 fraction.

2,324,166
ELECTRICAL CONNECTOR
Kenneth M. McLaughlin, Summit, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application June 28, 1941, Serial No. 400,163
3 Claims. (Cl. 250—27.5)



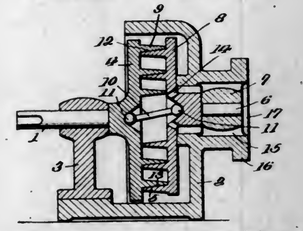
1. A male connector comprising a base, a plurality of parallel circularly arranged contact pins supported on said base, and an additional pin in the circle of pins, all of said pins being of uniform length, said additional pin being bent intermediate its outer end and said base to bring said end radially beyond the circle of said pins, and to bring the bend inwardly from the plane through the outer ends of said pins.

2,324,167
ESCAPE CONSTRUCTION FOR SUBMARINES
Merle K. Mead, Pasadena, Calif.
Application November 12, 1941, Serial No. 418,776
5 Claims. (Cl. 114—16.7)



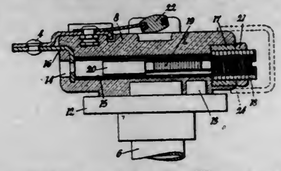
1. An escape construction for submarines comprising: a series of compartments formed in the outer wall of a submarine, each compartment including a slidable door means cooperating with a closable port adapted to place the compartment in communication with the interior of the submarine, said door means being adapted to seal the port when pressure within the compartment exceeds the pressure within the submarine, an outwardly movable door for placing each compartment in communication with the exterior of the submarine, a flask adapted to receive a human in each of said compartments, each flask being provided with a releasable closure in proximity to the closable port and a single means operable from within each flask for admitting fluid into its compartment and for releasing the outwardly movable door.

2,324,168
ROTARY COMPRESSOR OR MOTOR
Carl Oscar Josef Montelius, Stockholm, Sweden
Application April 30, 1941, Serial No. 391,175
In Sweden January 26, 1940
3 Claims. (Cl. 230—140)



1. A rotary compressor comprising a frame, said frame being provided with a fluid inlet opening, a first rotary element mounted in said frame, a second rotary element mounted in said frame eccentrically with respect to the axis of said first rotary element, means operatively connecting said rotary elements with each other, said elements being severally provided with radial surfaces, a radial surface of said first rotary element facing a radial surface of said second rotary element to provide opposed radial surfaces, spiral means projecting axially from each said opposed radial surface into engagement with the other opposed radial surface and each said spiral means having an inner and an outer spiral surface, the inner spiral surface of each said spiral means being in line contact with the outer spiral surface of the other said spiral means at spaced points, whereby spaced fluid working chambers which move during rotation of said rotary elements and which are alternately open and closed at each end of said spiral means are formed, the pitch of said spiral surfaces being greater for the outer than for the inner surfaces, means for rotating said rotary elements, and an outlet for compressed fluid near the center of the compressor.

2,324,169
DISTRIBUTOR IGNITION FOR INTERNAL COMBUSTION ENGINES
Martin Moran, Cambridge, England, assignor of one-half to Simms Motor Units Limited, London, England, a company of Great Britain
Application July 19, 1941, Serial No. 403,220
In Great Britain August 5, 1940
1 Claim. (Cl. 200—80)

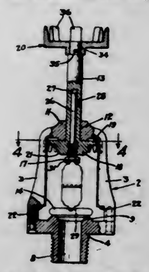


A centrifugal speed controlling means for an ignition system comprising a rotatable shaft, a rotor fixed on the shaft and having a transverse passage extending through the periphery thereof, a switch contact having one end embedded in the rotor and intersecting said passage and projecting through the periphery of the rotor, a wiper arm electrically connected to the projecting portion of said switch contact, a yieldable contact member carried by the wiper arm for coaction with the high tension lead-in contact of the distributor head, a device carried by the rotor and having adjustable connection in one end of said passage, an electrical conductor leading through the rotor to the rotor shaft, and a yieldably mounted contact member movably mounted in said passage and having supporting connection with said adjustable device and operable under the influence of centrifugal action incident to rotation of the rotor to engage the aforesaid switch contact upon the development of a predetermined speed to decrease the voltage through said high tension lead-in contact and ground it.

2,324,170
SPRINKLER HEAD
Edwin H. Ofstie, Minneapolis, Minn., assignor to Regents of the University of Minnesota, Minneapolis, Minn., a corporation of Minnesota
Application July 17, 1940, Serial No. 346,016
2 Claims. (Cl. 169—39)

2. A sprinkler head comprising a frame including spaced side members, a hub at the lower end of the frame provided with a fluid passage, a seat at the upper end of said hub, a guide at the upper end of the frame, a stem slidable in said guide, a water-spreading disk secured to one end of said stem within the frame, a supplemental valve carried by the disk and adapted to be moved into engagement with said seat by axial movement of the stem, thereby to shut off unnecessary flow from the sprinkler head, cooperating means on the disk and said side frame mem-

bers for preventing relative rotation of the disk in the frame, when the supplemental valve is out of engagement with said seat, abutment shoulders on said side frame members adapted to be engaged by said disk, when the supplemental valve is positioned on the valve seat and the disk is partially rotated in the frame by manipulation of



the valve stem, and an operating member secured to the upper end of the stem, exteriorly of the frame, and having a plurality of projections thereon whereby said head may readily be engaged by a conventional ceiling hook to facilitate operating the valve stem on a sprinkler positioned adjacent to a ceiling.

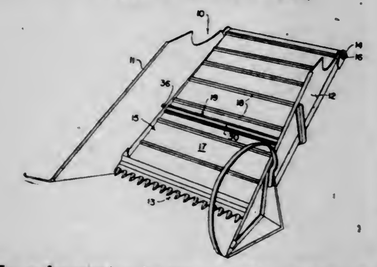
2,324,171

HARVESTER PLATFORM

Louis A. Paradise, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois

Original application April 29, 1940, Serial No. 332,290. Divided and this application September 24, 1941, Serial No. 412,133

1 Claim. (Cl. 198—184)



In a harvester having a pair of side walls, a draper movable between said walls, said draper comprising a flexible fabric having a pair of transverse edges normally joined during operation, and means for joining said edges together including means serving as beads along said edges and a transversely slidable bar member engageable with said beads to secure them together, one of said side walls having an aperture therein substantially in alignment with one flight of said draper, through which aperture said bar member is inserted during installation and removal of said draper.

2,324,172

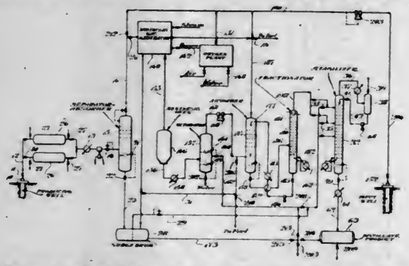
PROCESSING WELL FLUIDS

George L. Parkhurst, Chicago, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana

Application October 31, 1940, Serial No. 363,737

3 Claims. (Cl. 44—50)

1. A method of effecting maximum recovery from a high pressure petroleum reservoir and of preparing liquid hydrocarbons from high pressure well fluids recovered therefrom comprising the steps of simultaneously generating oxygen and a by-product gas of the oxygen generation at about the pressure of the high pressure reservoir, injecting said high pressure by-product gas into a high pressure petroleum reservoir to effect maximum recovery of high pressure well fluids, separating said well fluids at a high pressure into at least one fraction rich in normally gaseous hydro-



carbons and at least one fraction rich in distillate motor fuel hydrocarbons, generating a synthesis gas comprising carbon monoxide and hydrogen by treating said normally gaseous hydrocarbons at an elevated temperature in the presence of said generated oxygen, subjecting the said synthesis gas to an exothermic hydrocarbon synthesis step, fractionating the product from said hydrocarbon synthesis into at least one gas fraction and at least one liquid fraction, said liquid fraction being rich in motor fuel hydrocarbons.

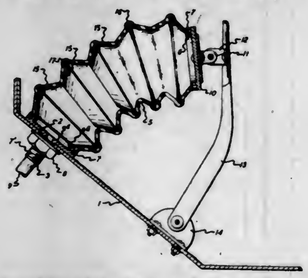
2,324,173

BELLOWS

Gilbert E. Porter, Mount Clemens, Mich.

Application December 3, 1941, Serial No. 421,447

4 Claims. (Cl. 137—156.5)



1. In combination with a bellows formed from flexible material to provide a series of corrugations arranged transversely thereof, means reinforcing said bellows against collapse comprising a rigid hollow frustoconical member positioned interiorly of said bellows and with the large end thereof received by the interior wall of the bellows at the high point of a corrugation therein.

2,324,174

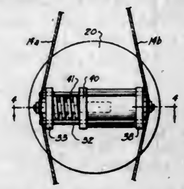
WEIGHT INDICATOR

Arthur L. Rodgers, Seagraves, Tex., assignor of one-half to Two States Drilling Company, Dallas, Tex., a corporation of Texas

Application May 3, 1940, Serial No. 333,079

3 Claims. (Cl. 265—1.6)

1. A device, of the character described including, a casing, a rotatable shaft mounted in the casing and having an indicating element mounted thereon, a fixed plate secured to the exterior of the casing, guide rods carried by the plate and casing, a cylinder slidable on said guide rods and movable toward and away from the fixed plate, resilient means for resisting the movement of the



cylinder, whereby a predetermined pressure must be applied to the end of the cylinder to effect a predetermined movement of the same, and means for rotating the indicating element in accordance with the movement of the cylinder.

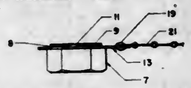
2,324,175

NONLOSABLE NUT

Eldon E. Simms, Towson, Md., assignor to The Glenn L. Martin Company, Middle River, Md., a corporation of Maryland

Application March 25, 1942, Serial No. 436,067

1 Claim. (Cl. 85—32)



A non-losable assembly comprising a threaded fastener having a cylindrical head portion, a neck portion adjacent said head portion forming a groove, an angularly disposed slot formed in the outer periphery of said head portion, a collar having an uninterrupted circular inner periphery, a flexible anchoring means for said collar, the internal diameter of said collar being less than the diameter of said head portion, but greater than the diameter of the neck portion plus the depth of the groove, whereby the collar may be threaded through the slot in the head portion onto the neck portion and retained thereon against accidental removal.

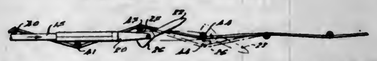
2,324,176

ROD THREADING DEVICE

Elmer Smith, Portland, Ind., assignor to Sheller Manufacturing Corporation, Portland, Ind., a corporation of Indiana

Application June 15, 1942, Serial No. 447,188

9 Claims. (Cl. 29—84)



1. A device for use in threading a relatively stiff rod-like element through the mesh of a more flexible net-like material in a direction of the plane of said material, comprising a body member of the size to pass through the mesh openings of the material, said member having at its rear end means for attachment to a rod-like element, a forwardly projecting finger carried by said member, the forward end of said finger being movable relative to the longitudinal axis of the body, and means operable as the rod-like element with said member at its forward end is pushed through mesh openings of the material in approximately the plane of the material for alternately moving the forward end of said finger above and below the path of movement of the rod so that the finger guides the body member and rod-like element alternately over and under strands of said material.

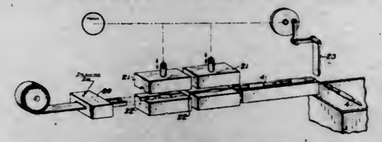
2,324,177

CATHODE SLEEVE

Newell R. Smith, Bloomfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application January 1, 1942, Serial No. 425,289

5 Claims. (Cl. 250—27.5)



1. A cathode comprising a sheet metal member wrapped to form a cylinder having a butt seam along its side, the cylinder being externally swaged on its outer surface to place permanent strains in the outer surface region of its wall tending to bring the edges of the sheet along the seam together and to close the sleeve, and an electron emission coating on the exterior surface of the cylinder.

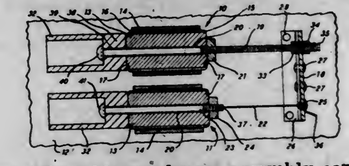
2,324,178

ELECTRICAL CONDENSER

Robert C. Sprague, Williamstown, and Frank W. Godsey, Jr., North Adams, Mass., assignors to Sprague Specialties Co., North Adams, Mass., a corporation of Massachusetts

Application May 23, 1940, Serial No. 336,822

11 Claims. (Cl. 175—41.5)



1. An adjustable condenser assembly comprising two condenser units, each of said units comprising two concentric cylindrical electrodes having cooperating surfaces free of irregularities, and a dielectric layer of uniform thickness and having a ground surface interposed between said electrodes and forming an integral coating on the inner electrode, an air gap .00025'' to .0005'' in average thickness interposed between the so-coated electrode and the outer electrode, said outer electrodes engaging said coated inner electrodes with a sliding fit, a common mounting member for said inner electrodes, and the outer electrodes mechanically interconnected, means to damp mechanical movement between the outer electrodes and the inner electrodes and to prevent microphonic action in said condenser assembly, said means comprising a resilient member securing one of said inner electrodes to the mounting member and biasing the coated inner electrodes against the outer electrodes.

10. In the manufacture of electrical condensers comprising as elements two electrodes and a dielectric layer interposed between same, the method of stabilizing the condenser against humidity effects which comprises, subjecting said elements to a treatment in hot distilled water.

2,324,179

MIXING MACHINE

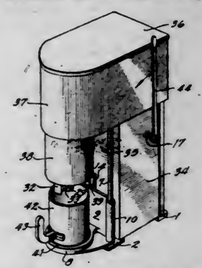
Michael Srob, Los Angeles, Calif.

Application March 16, 1942, Serial No. 434,807

3 Claims. (Cl. 259—108)

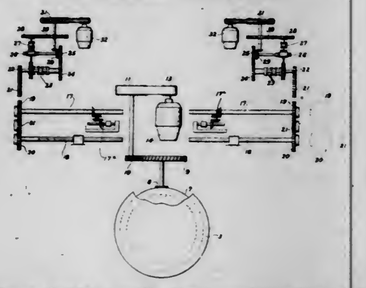
1. In construction of the character disclosed, a pair of spaced shafts, intermeshing gears carried by said shafts, a cam secured to one of said

shafts, a pair of contact arms, one of which is engaged by said cam to move said contact arm into engagement with the other arm when the cam is rotated, a shelf, an arm secured to the second of said shafts, and a link connection between said arm and said shelf; a motor connected with a source of electric supply through



said contact arms, an agitator to be rotated by said motor; rotation of the shaft carrying said cam rotating the second shaft to raise the said shelf to a position immediately adjacent the agitator, the switch arms being in contact to complete the electric circuit to said motor and cause rotation of the agitator.

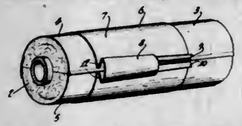
2,324,180
BORING MILL
Alfred Trosch, Brighton, N. Y., assignor to Consolidated Machine Tool Corporation, Rochester, N. Y., a corporation of Delaware
Application January 17, 1942, Serial No. 427,146
11 Claims. (Cl. 77—4)



1. In a boring mill, the combination with a work table rotatable in a horizontal plane about a vertical axis, a gear mounted on the work table, a pinion engaging said gear, an electric motor, speed reduction gearing connecting said electric motor with said pinion for driving the table at low speeds, a cross-rail, a tool head mounted on the cross-rail for movement thereon, and feeding means controlling the movement of the tool head, of a separate electric motor operatively connected to said feeding means and effecting the feed movement of the tool head, said last mentioned motor being independent of the first mentioned motor connected to the work table whereby the tool head may be fed at a rate of movement independent of the table speed.

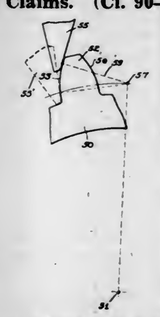
2,324,181
PIPE COVERING
Ture S. Tulien, Beverly Hills, Calif., assignor to Johns-Manville Corporation, New York, N. Y., a corporation of New York
Application September 11, 1940, Serial No. 356,264
1 Claim. (Cl. 154—44)

An insulated covering assembly for a pipe, said assembly comprising insulation surrounding the pipe, a casing surrounding said insulation and including hingedly connected semi-cylindrical sections having free overlapping edges, the hinge connecting said sections extending longitudinally of the pipe, and a coupling member for said casing, the coupling member comprising a split sleeve having its longitudinal edges at the split retroverted to form outwardly turned flanges, the



free edges of which gradually diverge, said flanges lying adjacent to and on opposite sides of said hinge, and an attaching clamp comprising an elongated channeled member engaged over said flanges and having an interior width which gradually diverges in correspondence with the divergence of said flanges whereby said flanges are drawn toward one another as said channeled member is moved longitudinally on said casing into attaching position.

2,324,182
METHOD OF PRODUCING GEARS
Ernest Wildhaber, Brighton, N. Y., assignor to Gleason Works, Rochester, N. Y., a corporation of New York
Original application December 31, 1937, Serial No. 182,837, now Patent No. 2,230,418, dated February 4, 1941. Divided and this application February 3, 1939, Serial No. 254,453
16 Claims. (Cl. 90—6)



1. The method of cutting a gear which comprises reciprocating a tool, which has a side cutting edge of concave circular arcuate shape, along the length of a tooth surface of a gear blank while holding the blank stationary on its axis and while effecting a relative circular depthwise feed movement between the tool and blank about a relatively fixed axis other than the axis of the blank, that extends in a direction generally longitudinal of the tooth surface being cut, to cut a tooth surface whose profile is curved about said fixed axis.

2,324,183
PRISONER'S HARNESS
Earl R. Wilson, Montgomery, Ala., assignor of thirty-five one-hundredths to Luther L. Jones
Application January 15, 1942, Serial No. 426,931
10 Claims. (Cl. 70—16)

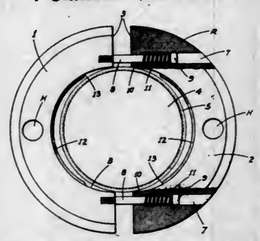
1. Prisoners' harness comprising a waist belt, a neck yoke, a strap having one of its ends secured to the back of the neck yoke, said strap encircling the back of the belt and having means

to adjust the length of the strap for limiting movement of the neck yoke toward and away from the belt, the front of the waist belt and



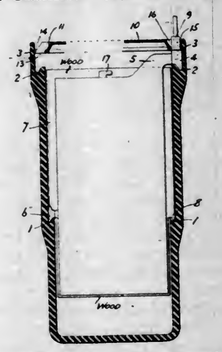
the front of the neck yoke being free to move away from one another without restraint.

2,324,184
SHELL CASING SUPPORTING AND PROTECTOR RING
Floyd H. Wyman, Toccoa, Ga., assignor to R. G. Le Tourneau, Inc., a corporation
Application April 11, 1942, Serial No. 438,556
7 Claims. (Cl. 91—60)



1. A supporting shield for a cylindrical object, comprising a ring having an internal diameter substantially the same as the portion of the object to be engaged, said ring being segmental, means yieldably urging the ring segments into closed symmetrical engagement, each segment being a half circle, and said means comprising parallel guide elements secured to one segment at the ends and projecting into the other segment in slidable relation thereto, and a spring between each element and said other segment urging the latter into engagement with said one segment.

2,324,185
ELECTRIC STORAGE BATTERY
Cornelius Ambruster, Roslyn, Pa., assignor to The Electric Storage Battery Company, Philadelphia, Pa., a corporation of New Jersey
Application November 25, 1940, Serial No. 367,026
6 Claims. (Cl. 136—80)

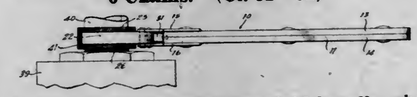


3. In a storage battery, the combination of, a jar, a conducting bus bar inset in one side wall of the jar and flush with the face thereof, a plate attached to and suspended from the bus bar, an integral shelf on the opposite side wall of the jar below its center of height, and a hook on the plate engaging the last-mentioned shelf.

2,324,186
TREATMENT OF RUBBER
Robert T. Armstrong, Radburn, and Edwin J. Hart, Nutley, N. J., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application January 16, 1941, Serial No. 374,702
12 Claims. (Cl. 260—810)

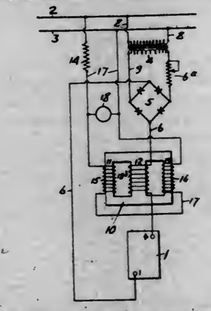
1. A method of retarding the deterioration of rubber due to flexing which comprises incorporating in a vulcanizable rubber composition a dihydroxy substituted biphenyl wherein both hydroxyl groups are attached to the same phenyl nucleus.

2,324,187
WRENCH
Robert L. Arthur, Coronado, Calif.
Application April 5, 1941, Serial No. 387,021
6 Claims. (Cl. 81—91)



1. A wrench, comprising a rigid handle, object embracing means including a pair of rigid jaws having a laterally open throat and embracing more than one-half of the circumference of an object to be gripped, said jaws engaging the object near the ends of the jaws, means articulately mounting said embracing means at one end of the handle for movement in the normal pressure plane of the wrench, a gripping dog disposed between said jaws and centrally pivoted upon a fixed pivot on the handle, whereby relative movement between the handle and the embracing member will force the gripping dog toward the object being gripped and will cooperate with the gripping ends of the fixed jaws in gripping and rotating the same and yieldable means tending to hold the parts in a non-gripping position.

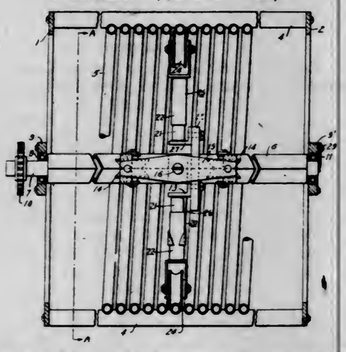
2,324,188
SIGNAL MEANS FOR BATTERY CHARGING CIRCUITS
Frank G. Beetem, Philadelphia, Pa., assignor to The Electric Storage Battery Company, Philadelphia, Pa., a corporation of New Jersey
Application March 6, 1940, Serial No. 322,430
8 Claims. (Cl. 177—311)



1. For battery-charging means including a battery-charging circuit and its transformer and

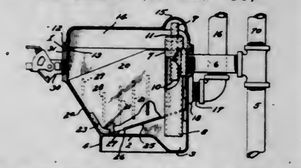
rectifier connected across an alternating current line, signalling provisions indicating an interruption of current in the charging circuit and comprising, a signal lamp having terminals, an impedance element, a saturable core reactor having reactance coils and having a saturating coil in the battery charging circuit, and other circuit means relating the lamp terminals, the impedance, and the reactance coils to each other to effect the result that interruption of the charging current causes variation of the voltage at the lamp terminal.

2,324,189
ELECTRICAL TUNING DEVICE
Ashley P. Bock, Catonsville, Md., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 29, 1941, Serial No. 421,081
7 Claims. (Cl. 171—242)



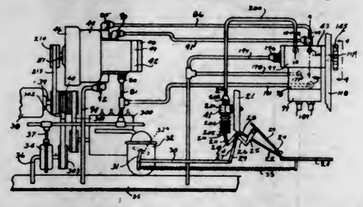
1. A variable inductance coil comprising a helically wound conductor, a rotatable shaft of polygonal cross-section positioned coaxially within said coil, a sliding member surrounding said shaft including a plurality of grooved contact wheels, said wheels being so disposed with respect to said shaft that the angle formed by said grooves substantially coincides with the angle formed by adjacent sides of said shaft guiding said wheels longitudinally along the edges formed by said sides but preventing rotation of said sliding member around said shaft, means carried by said sliding member for maintaining said wheels in engagement with said shaft, a pair of radially extending contactors carried by said sliding member, said contactors, terminating in contact wheels engaging said conductor, and means for rotating said shaft.

2,324,190
GREASE INTERCEPTOR
Edward W. N. Boosey, Detroit, Mich.
Application December 27, 1940, Serial No. 371,908
8 Claims. (Cl. 210—56)



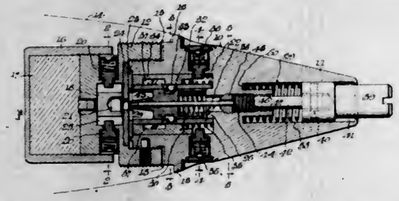
1. In a grease interceptor, a chambered body having an inlet opening thereto below the normal liquid level therein, an element within the body providing a secondary chamber into which the inlet directly discharges, said secondary chamber having a downwardly inclined bottom wall provided with an opening to the body opposite the inlet opening, an outlet connected with the body and positioned to determine the normal liquid level therein, a manifold within the body comprising a conduit open at its lower end to adjacent the bottom of the body and opening above its lower end to the outlet, a vent tube in the upper end of the manifold opening to the space in the body above the liquid level therein and extending into the manifold to below the liquid level in the body, the upper end of the conduit being otherwise closed to the body.

2,324,191
SPEED CONTROL MECHANISM
Harold A. Bowers, Cincinnati, Ohio
Application October 2, 1941, Serial No. 413,284
16 Claims. (Cl. 123—103)



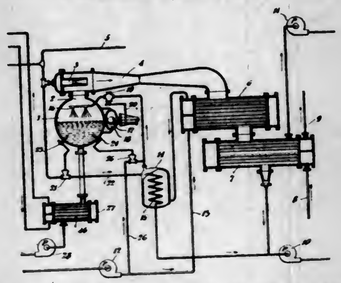
1. In a mechanism of the class described the combination with an engine, a fuel supply mechanism, and a manually operable member for controlling the operation of the fuel supply mechanism operable through a given path of movement from a point indicating minimum rate of movement of the vehicle to a point indicating maximum rate of movement of a vehicle, of a hydraulically operated stop for limiting the operation of the manually operable member when the vehicle speed reaches a predetermined maximum.

2,324,192
COMBINATION INSTANTANEOUS AND DELAY FUSE
Harold M. Brayton, Dover, N. J., assignor to American Armament Corporation, New York, N. Y., a corporation of Delaware
Application November 12, 1940, Serial No. 365,355
4 Claims. (Cl. 102—74)



1. In a combination instantaneous and delayed-action fuse, a body having a central socket which opens through its rear end, a fixed sleeve in said socket and spaced from the side wall thereof, a transverse plate secured to the rear end of said body and abutting the rear end of said sleeve, said plate having a central opening and said sleeve being provided with openings from its inner to its outer side, a piston-like delayed-action firing pin slidable in said sleeve and having an axial bore, an instantaneous firing pin slidable in said bore and projecting rearwardly from said piston-like firing pin, the rear end of the latter having rearwardly projecting firing prongs spaced around said instantaneous-action firing pin, the periphery of said piston-like firing pin being provided with a groove registering with said openings of said sleeve, a spring in said socket for forcing said piston-like firing pin rearwardly, balls seated in said registering groove and openings and normally preventing rearward movement of said piston-like firing pin, an outer sleeve slidably surrounding said fixed sleeve and normally holding said balls in said openings thereof, said outer sleeve contacting slidably with the wall of said socket and being forwardly slidable to release said balls when the projectile is suddenly decelerated, and centrifugally released means for normally holding said outer sleeve against forward movement.

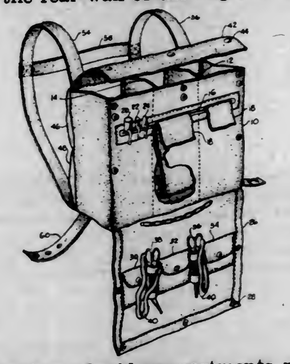
2,324,193
AIR CONDITIONING
Richard Brunel, Somerville, N. J.
Application June 21, 1940, Serial No. 341,645
2 Claims. (Cl. 261—3)



1. In air-conditioning apparatus in combination means for exposing air of atmospheric temperature and relative humidity to the drying and cooling effects of a hygroscopic chemical solution, a chamber, means comprising a steam condenser for creating a sub-atmospheric pressure in said chamber, means for further heating the used solution comprising means for exchanging heat between the condensing steam and the used solution, means for exposing the used solution to the evaporating effect of said sub-atmospheric pressure, means for chilling the concentrated solution and means for returning the solution concentrated by said evaporation to the first mentioned means.

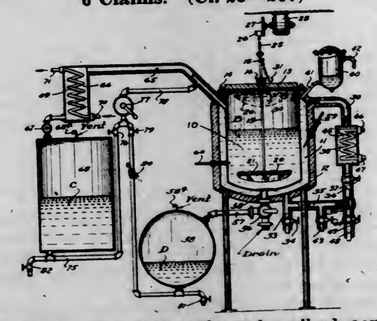
2,324,194
FIRST-AID KIT
Clementine F. Campiglia, Santa Monica, Calif., assignor to Douglas Aircraft Company, Incorporated, Santa Monica, Calif.
Application May 18, 1942, Serial No. 443,446
2 Claims. (Cl. 224—5)

1. In a kit for emergency first aid equipment, the combination of: a rectangular bag of moderate thickness; strap means attached to the bag for hanging the bag flat against a person's chest; a front flap overlying the front wall of the bag and fixed to the bottom thereof in the manner of a hinge so as to be capable of being dropped quickly to a depending position with the inner face thereof away from the wearer, the strap means, bag and flap being dimensioned, shaped and related to dispose the flap supportedly against the lower portion of the body of the wearer when the flap is in open position and the wearer is in the bended-knee position of administering first aid to a patient; means for securing the outer edge of the flap to the front wall of the bag; holding means on the inner face of the flap for first aid articles for readily removably holding them against accidental downward displacement when the flap depends; partitions forming upwardly opening compartments extending between the front and rear walls of the bag; a top flap hinged to the rear wall of the bag and overlying



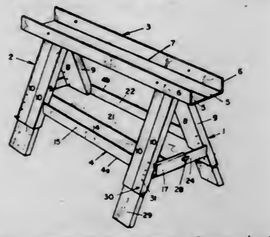
the top openings of said compartments, means for securing said top flap to the front wall of the bag above said means for securing the front flap; a free flange on said top flap which overlaps the upper edge of the front flap in a manner permitting dropping the front flap without unfastening the top flap, and the front wall of said bag being provided with access means leading into at least some of said compartments.

2,324,195
APPARATUS FOR TREATING CHEMICALS
Walter A. Carlson and Paul W. Salo, Minneapolis, Minn., assignors to General Mills, Inc., a corporation of Delaware
Application August 3, 1940, Serial No. 351,020
6 Claims. (Cl. 23—267)



3. Apparatus of the class described comprising a kettle having a jacket for holding a heat exchange medium, a closure for the kettle, a porous container constructed to hold a substance to be treated within the kettle, supporting means for the container extending through the closure, driving means connected to the supporting means for reciprocating the container through a predetermined path within the kettle, means associated with the supporting means for lifting and maintaining the container above said path, piping connecting the top and bottom portions of the kettle jacket, and valve means in said piping for controlling the flow of the heat exchange medium therethrough.

2,324,196
SAWHORSE
Scott J. Crozier, Cleveland Heights, Ohio
Application July 5, 1941, Serial No. 401,155
4 Claims. (Cl. 304—5)



1. A trestle comprising two elongated angle-form sheet metal members hingedly connected at opposed lengthwise edges, two spaced tubular sheet metal legs integrally connected to each of said members, wooden foot members telescopically inserted in the lower ends of each of said legs, means for locking each of said foot members at desired degrees of extension, sheet metal tray members hingedly attached to the said respective legs of said angle-form members, said tray members being adapted for telescopic movement relative to each other to permit hinged movement of said angle-form members with consequent spacing or approach of said leg members, and means for locking said tray members to hold said legs in spaced relationship.

2,324,197
PREPARATION OF SENSITIZED LITHOGRAPHIC PLATES, ETC.
James P. Danehy, Cleveland Heights, Ohio, assignor to Harris-Seybold-Potter Company, Cleveland, Ohio, a corporation of Ohio
No Drawing. Application July 2, 1941, Serial No. 400,793
20 Claims. (Cl. 95—8)

1. A material adapted to form a light sensitive coating for use in preparing lithographic and other printing plates, which comprises a sensitized water-containing solution of the product of casein heated with a glycol to degredation of the casein to about the extent as by bringing the temperature of the mixture up to about 165° C. in about 90 minutes and then being separated from the glycol.

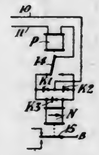
2,324,198
LITHOGRAPHIC PLATE PREPARATION
James P. Danehy, Cleveland Heights, and John H. Newland, Athens, Ohio, assignors to Harris-Seybold-Potter Company, Cleveland, Ohio, a corporation of Ohio
No Drawing. Application July 2, 1941, Serial No. 400,794
18 Claims. (Cl. 95—5.4)

1. A process of making lithographic plates, which comprises counter-etching the plate, washing, pre-etching the plate by a solution of gum arabic and mono-ammonium phosphate and ammonium nitrate, washing, providing a coating of light sensitized product of casein heated with a glycol to degradation of the casein to about the extent as by bringing the temperature of the mixture up to about 165° C. in about ninety minutes and then being separated from the glycol, such product being soluble in 70–85 per cent aqueous alcohol or acetone, exposing, developing, treating with an alkalin solution, and etching.

2,324,199
PREPARATION OF AMMONIUM AND AMINE SALTS OF ACIDIC ORGANIC COMPOUNDS
Richard C. Datin, Petersburg, Va., and Dwight C. Bardwell, Syracuse, N. Y., assignors to The Solvay Process Company, New York, N. Y., a corporation of New York
No Drawing. Application August 14, 1939, Serial No. 290,108
5 Claims. (Cl. 260—401)

5. In the process for the preparation of the ammonium salt of the alpha sulfonic acid derivative of stearic acid prepared by sulfonating stearic acid in a sulfonation mixture containing liquid sulfur dioxide as the solvent medium, and removing the bulk of the liquid sulfur dioxide to yield an alpha sulfonic acid derivative of stearic acid in solid form containing admixed therewith a substantial proportion of sulfur dioxide, the improvement which comprises agitating the solid alpha sulfonic acid derivative containing the sulful dioxide while introducing into contact therewith gaseous ammonia at a rate such that the temperature of the reaction mixture does not rise above 50° C. until the formation of the ammonium salt is substantially complete, and then controlling the temperature of the reaction mixture so that a final temperature of about 120° C. is reached.

2,324,200
ELECTRICAL CONTROL APPARATUS
Arthur E. Dodd, Edgewood, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application December 23, 1941, Serial No. 424,151
16 Claims. (Cl. 246—219)

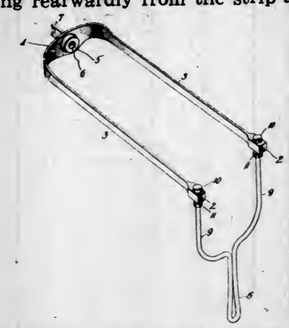


1. Apparatus for selectively responding to the polarity of current supplied to a circuit including a pair of conductors and comprising a polar relay connected in series in said circuit, an auxiliary relay, and means for connecting said auxiliary relay across said conductors including a contact of said polar relay for connecting one of said conductors with one or the other of the terminals of the auxiliary relay according as the polar relay is operated to one position or the other, and a pair of rectifiers having unlike terminals connected with the other of said conductors and the free terminals of said rectifiers connected with the terminals respectively of said auxiliary relay.

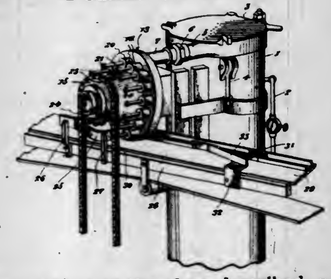
2,324,201
SLINGSHOT, BEANSHOOTER, OR BEANIE
Werner G. Donaldson, Independence, Mo.
Application August 7, 1941, Serial No. 405,833
1 Claim. (Cl. 124—20)

A sling-shot, comprising a forked handle, a doubled elastic strip secured at its ends to the upper ends of the prongs of the handle, and provided midway its length and at the side facing toward the handle, with a forwardly-projecting boss of soft rubber, having a cylindrical longitudinally-extending socket of diameter substantially corresponding to that of an object to

be held within said socket, and a vertical tab, projecting rearwardly from the strip and standing in a vertical plane coincident with the longitudinal center of the socket.



2,324,202
MACHINE FOR MANUFACTURING MEAT BALLS
Willard B. Felton, Pueblo, Colo., assignor to Nuckolls Packing Company, Pueblo, Colo., a corporation of Colorado
Application August 16, 1939, Serial No. 290,526
1 Claim. (Cl. 17—32)



In a machine of the class described, a storage tank, a nozzle connected therewith and receiving a supply of material from the storage tank under pressure, said nozzle having a discharge opening, a disk, cylinder members carried by the disk and being adapted to aline successively and selectively with the nozzle, said cylinder members being adapted to receive material from the nozzle and for forming said material into a predetermined shape, discharge means in each of the cylinder members, a frame beneath the disk, a bar carried by the frame and having a cam face, a conveyer belt carried by the frame beneath the disk, pans carried by the conveyer belt beneath the disk, said discharge means for the material being urged to operate position by pressure of the material from the nozzle and said cam face shifting said discharge means, upon rotation of the disk, for discharging the material to drop in certain of the pans, and a guide tongue mounted adjacent the conveyer belt and selectively engageable with the pans for guiding said pans to a position beneath the disk.

2,324,203
MULTIPLE FLOUR BLEACHING PROCESS
Charles G. Ferrari, Minneapolis, and Willis S. Hutchinson, St. Paul, Minn., assignors to General Mills, Inc., a corporation of Delaware
Application August 16, 1940, Serial No. 352,910
4 Claims. (Cl. 99—232)

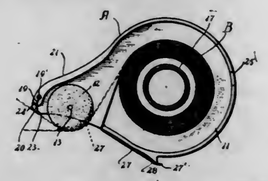
1. A process of bleaching flour products and other finely divided milled cereal products which comprises contacting said product, while agitated in a finely divided state, with a gaseous bleaching agent for a time sufficient to bleach said product partially, and then contacting the thus partly bleached product, while agitated in a finely divided state, with a further quantity of said gaseous bleaching agent for a time sufficient to bleach said product further.

2. A process of bleaching flour products and other finely divided milled cereal products which comprises contacting said product, while agitated in a finely divided state, with a gaseous bleaching agent included in the following list:

Chlorine
Hypochlorous acid
Chlorine dioxide
Nitrogen trichloride

for a time sufficient to bleach said product partially, and then contacting the thus partly treated product, while agitated in a finely divided state, with a gaseous bleaching agent included in the above list but appearing lower in the list than said first-mentioned gaseous agent, to bleach said product further.

2,324,204
TAPE DISPENSER
Howard L. Fischer, St. Paul, Minn.
Application August 19, 1940, Serial No. 353,241
8 Claims. (Cl. 216—33)

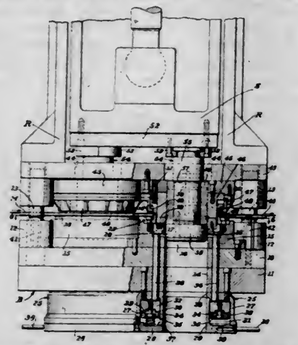


1. An adhesive tape dispenser comprising a casing having somewhat circular parallel side walls, tubular core means projecting inwardly from said side walls adapted to telescopically fit together to hold the side walls in closed position and adapted to support a roll of tape, transverse wall means in said core means which when pressed against, causes said side walls to be separated, a peripheral wall having a recess, a tape pressing roller positioned in said recess in said peripheral wall, and a tape cutter positioned forwardly of said roller.

2,324,205
CUPPING PRESS
Wiltie I. Gladfelter and Joseph Prochazka, Philadelphia, Pa., assignors to Crown Cork & Seal Company, Inc., Baltimore, Md., a corporation of New York
Application December 17, 1940, Serial No. 370,546
5 Claims. (Cl. 113—46)

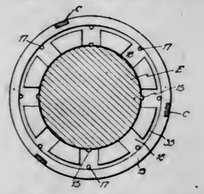
1. A press comprising a bolster, a draw ring and a drawing punch reciprocable above said bolster, a drawing die cooperative with said ring and punch, retaining means on said bolster for said die permitting the die to adjust itself to accommodate irregularities of the marginal portion of a blank engaged between said die and ring, means defining a piston chamber below said die, a piston vertically movable in and slightly universally tiltable in said chamber, a number of spaced pins slidable in said bolster and

constituting thrust transmitting means between said piston and said die, said pins supporting



said die and directly contacting said piston and an inlet for pressure fluid below said piston.

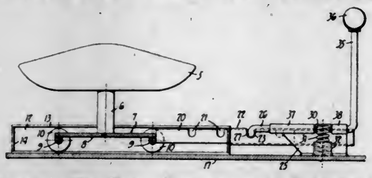
2,324,206
STUFFING BOX SEALING DEVICE
Sigurd Golten, New York, N. Y.
Application November 30, 1940, Serial No. 367,872
In Norway January 1940
3 Claims. (Cl. 286—27)



1. A sealing device attachment for attachment to the lower end of a stuffing box comprising an end ring plate having an annular collecting groove on the inner face thereof and a drain opening leading from said groove, a disk plate fitting against the inner side of the end ring plate having spaced openings communicating with said groove, compression rings fitting against the disk plate, a second disk plate fitting against the other side of the compression rings, said ring plate and disk plates having concentric openings therein for the passage of a piston rod, a spacer collar spaced from and surrounding the compression rings and interposed between said disk plates, the space between said disk plates, the space between said collar and the compression rings constituting an annular passage, the second mentioned disk plate having radial passages in the underside thereof extending outwardly from its inner periphery to the annular passage and spaced passages extending therethrough in communication with the radial passages and the annular passage whereby said passages establish communication between the collecting groove and the inner side of the compression rings substantially as and for the purpose specified.

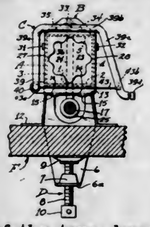
2,324,207
ADJUSTABLE SEAT FOR VEHICLES
Herman Gsell, San Francisco, Calif.
Application July 21, 1941, Serial No. 403,247
1 Claim. (Cl. 155—14)

A seat mounting for a vehicle having an adjustable seat, comprising transversely spaced channel guides mounted on the vehicle frame and constraining said seat to movement along a predetermined line, a seat-supporting dolly having rollers disposed in said channel guides, a notched member fixed to said dolly and extending in the direction of movement thereof, a movable locking finger mounted on means on the vehicle frame and engageable with the notches in said member to hold said dolly in any of a series of positions along said line of movement to which it may be adjusted, a handle pivotally mounted on means on the vehicle frame at one side of



said seat in the line of movement of the seat and engageable by an occupant of said seat as a purchase for rolling said seat and dolly from one position to another, a shaft connecting said handle with said finger for moving said finger out of engagement with said notches upon movement of said handle transversely with respect to said predetermined line of movement of said seat, and spring means for reengaging said finger in one of said notches upon release of said handle.

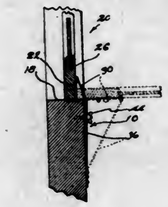
2,324,208
DEVICE FOR FORMING AND SLICING BUTTER AND THE LIKE
Charles L. Hayman and William M. Fountain, Oakland, Calif.
Application December 27, 1940, Serial No. 371,864
2 Claims. (Cl. 31—14)



1. In a device of the type described, a casing having an open front end and a platform projecting in front of the casing, said platform having a die-receiving groove therein with lug-receiving openings, a die for extending across the casing front and having its lower edge receivable in the groove, lugs integral with the die and removably receivable in the openings, and cooperating means carried by the die and casing for removably securing the die to the casing when the lower edge of the die is received in the groove and the lugs are received in the openings, said means allowing the free removal of the die from the casing when the die is moved away from the platform.

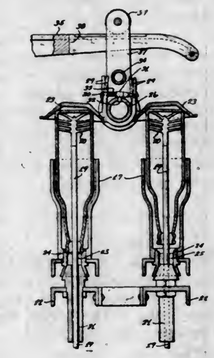
2,324,209
HINGE
Helgi Helgason, Los Angeles, Calif.
Application November 26, 1941, Serial No. 420,482
3 Claims. (Cl. 16—138)

1. A hinge comprising a plural number of leaves pivotally joined one to another, one of said leaves being adapted to be secured to a support, another of said leaves being adapted to be secured to a swingable element, whereby said element may be swung with respect to said support, a third leaf, said third leaf forming a brace and having converging sides whereby the same is of greater width at one end than the other, a fourth leaf, said fourth leaf being adapted to anchor one of the ends of said brace-forming leaf to said support, and a fifth leaf, said last mentioned leaf



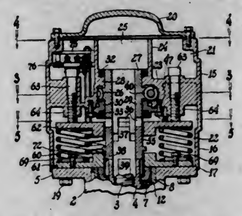
being positioned between the leaf secured to said swingable element and said brace-forming leaf, whereby the swingable leaf may be positioned in a plane substantially parallel with said brace-forming leaf when in one of its several assumeable positions.

2,324,210
BOTTLE-CLEANING MACHINE
James L. Herold, St. Louis, Mo., assignor to Barry-Wehmiller Machinery Company, St. Louis, Mo., a corporation of Missouri
Application May 18, 1940, Serial No. 335,980
9 Claims. (Cl. 15—60)



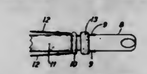
1. A bottle-cleaning device comprising a traveling conveyor provided with bottle holders wherein the bottles are loosely supported, the lower portion of each bottle holder having a seat for the bottle, rotary brushing devices movable into and out of the bottle holders to brush the inner faces of the bottles in said holders, and a centering device comprising caps to engage the upper ends of the bottles in said holders, pivotal supports for said caps including U-shaped members secured to said caps and an elongated pivot member embraced by said U-shaped members, spring seats on said elongated pivot member, a carrier to which said elongated pivot member is secured, springs between each of said spring seats and an arm of each one of said U-shaped members tending to move each of said caps independently of the other caps about the axis of said pivot member in a direction toward said bottle holders, and means for moving said carrier toward and away from the path of said bottle holders.

2,324,211
DRIVE FOR VALVES AND THE LIKE
Howard E. Hodgson and Clarence W. Kuhn, Wauwatosa, and William C. Stevens, Milwaukee, Wis., assignors to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application April 10, 1939, Serial No. 267,142
15 Claims. (Cl. 192—150)



1. In a drive for a valve or the like operable through the medium of an axially movable stem and a rotating nut threaded on said stem and limited in axial movement in one direction, in combination, yielding means to take the thrust of said nut in a reverse direction, a drive mechanism for said nut and a supporting structure supporting both said mechanism and said yielding thrust taking means to form a unit which in an assembled state may be mounted on the device to be driven, bringing both said mechanism and said thrust taking means into operative relation to said nut and which may be removed in an assembled state while said nut remains on the device to be driven.

2,324,212
ELECTRIC LAMP
Norman Insley, Nanuet, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 1, 1941, Serial No. 391,316
6 Claims. (Cl. 176—24)

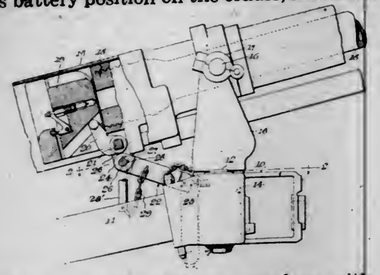


2. An electric lamp comprising an evacuated bulb, a single filament therein, mount wires for supporting said filament, and a resistor element having a high negative temperature coefficient of resistance connected between said mount wires in shunt with said filament and adapted to receive heat therefrom to control materially the variation in intensity of the current flow through said filament upon variations in operating voltage thereacross.

2,324,213
ORDNANCE TRAVELING LOCK
Bryan P. Joyce, East Orange, N. J., assignor to American Armament Corporation, New York, N. Y., a corporation of Delaware
Application October 10, 1940, Serial No. 360,674
14 Claims. (Cl. 89—40)

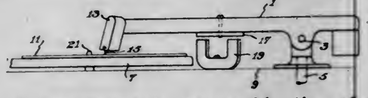
1. In an ordnance mechanism, a bottom carriage, a top carriage pivoted on a vertical axis to said bottom carriage, a cradle pivoted to said top carriage on a transverse horizontal axis, a gun reciprocably mounted on said cradle, and locking means for rigidly connecting said gun with said bottom carriage without moving said gun from battery position, said locking means comprising one member rigidly secured to the gun, a second member movably mounted on said bottom carriage for movement into operative re-

lation with said one member while the gun occupies battery position on the cradle, and means for



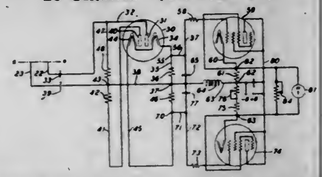
rigidly connecting said two members with each other.

2,324,214
PHONOGRAPH APPARATUS
Edward W. Kellogg, Moorestown, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application January 31, 1940, Serial No. 316,642
8 Claims. (Cl. 274—1)



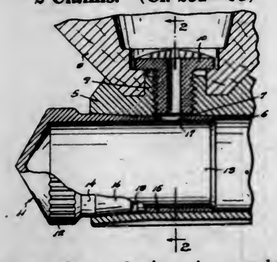
4. In a phonograph, the combination of a record support, a sound translating device including a needle adapted to cooperate with a record on said support, a pivotally mounted arm carrying said device, said arm being mounted to swing in an arc over said record, and means effective over a portion of said arc to constrain said arm toward said record whereby to effect a relatively great pressure between said needle and said record, said means comprising a magnet extending over only a portion of said arc and an armature on said arm adapted to be attracted by said magnet.

2,324,215
MEASURING APPARATUS
Boris J. Kinsburg, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application April 25, 1941, Serial No. 390,303
15 Claims. (Cl. 171—95)



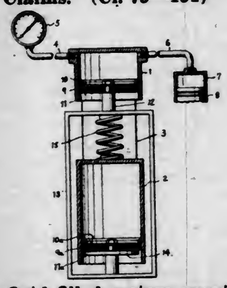
1. Apparatus for measuring the magnitude of an electrical quantity, comprising means to detect the electrical quantity, said detecting means including two vacuum tubes connected in a balanced relation with respect to ground potential such that one tube is responsive to the electrical quantity to be measured and the other tube is unresponsive thereto, each tube embodying a control grid and a cathode, a resistor individual to each cathode and responsive to the space current in the respective tubes to apply an effective biasing potential to the control grids associated therewith, and means applied between a corresponding point on each of said cathode resistors to indicate the difference voltage to ground between said corresponding points as representative of the magnitude of the electrical quantity to be measured.

2,324,216
TOBACCO PIPE
Kurt F. J. Kirsten, Seattle, Wash.
Application May 6, 1940, Serial No. 333,475
2 Claims. (Cl. 251—95)



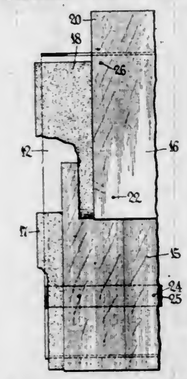
1. In a smoking device, in combination: a barrel member formed with a smoke chamber therein and having a bore leading to said chamber and functioning as a seat for the reception of a removable plug-valve, said bore being substantially cylindrical at its inner end and having a tapered part at its outer end and, in the wall of said cylindrical part, providing a port for the admission of smoke to the chamber of the barrel; and a removable plug-valve arranged to seat in said bore, having its inner and outer parts produced to angularities corresponding with the inner cylindrical and the outer tapered parts of the seat and, between said inner cylindrical and outer tapered parts, being circumferentially grooved to provide a reverse fillet functioning in the seated position of the valve to lap the point describing a meeting of the plane of the inner cylindrical part of the bore with the plane of the outer tapered part of the bore, said inner cylindrical part providing means acting by rotation of the seated valve to open and close the smoke port in relation to the chamber.

2,324,217
TEMPERATURE COMPENSATOR
Walter T. Knauth, Houston, Tex., assignor to The Milwhite Company Inc., a corporation
Application April 20, 1942, Serial No. 439,705
3 Claims. (Cl. 73—151)



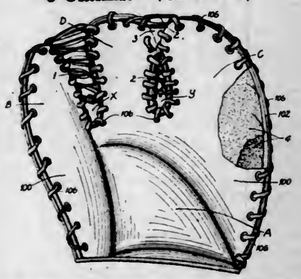
1. A closed fluid filled system provided with a temperature compensator, said temperature compensator comprising two fixed cylinders having pistons therein and each being closed at one end with fluid filling the cylinders between the closed end and the pistons, a frame connecting the two pistons whereby they are reciprocable in unison, a resilient element biasing the frame to urge the pistons against the fluids in the cylinders, one of said cylinders being connected to said closed fluid filled system and the fluid contained in the cylinder not connected to the closed system having a temperature co-efficient of expansion so that changes in ambient temperature will cause movement of the two pistons to change the volumetric capacity of the cylinder connected to the closed system substantially equal to the change in volume of the fluid contained in the closed system and the cylinder connected thereto due to corresponding changes in ambient temperature.

2,324,218
BUILDING CONSTRUCTION
Clarence W. Kraus, Buffalo, N. Y.
Application July 30, 1942, Serial No. 452,835
8 Claims. (Cl. 20—5)



1. A building construction unit comprising a base sheet and a plurality of horizontal courses of shingles secured thereto, the tips of the uppermost course of shingles projecting substantially beyond the top of said base sheet, and a horizontal furring strip secured between the lowermost course of shingles and the base sheet, said furring strip being spaced upwardly from the bottoms of said base sheet and said lower course of shingles a distance sufficient to provide a pocket for receiving the projecting tips of an upper course of shingles of a lower contiguous unit.

2,324,219
BASEBALL MITT
Harry B. Latina, East St. Louis, Ill., assignor to Rawlings Manufacturing Company, St. Louis, Mo., a corporation of Missouri
Application November 15, 1941, Serial No. 419,245
5 Claims. (Cl. 2—19)



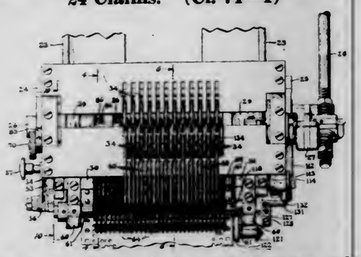
1. A baseball mitt having a padded front part that comprises a palm section and a thumb portion that has a substantially hinge action with said palm section, said palm section being provided at a point some distance inwardly from its outer edge with an opening that is located between a portion of said section that is adapted to receive all the fingers of the user's hand and a portion of said section that constitutes the back stop of the ball pocket of the mitt, and means whereby the force or pressure exerted by a caught ball on the back stop portion of the palm section, tends to draw said thumb portion and finger portion into snug engagement with the ball.

2,324,220
LOOM REED THREADING DEVICE
Victor Lobl and Eugene L. McCormack, Spindale, N. C.
Application August 7, 1941, Serial No. 405,852
1 Claim. (Cl. 28—44)



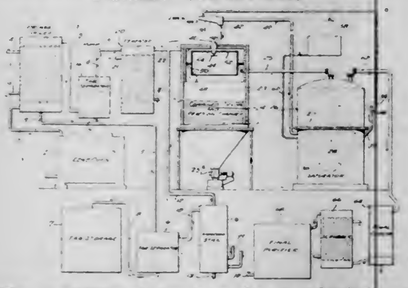
In combination, a reed hook proper comprising an elongated main blade provided at its inner end with a handle and inwardly of its outer end with a thread engaging drawing-in hook, the outer end of said blade being sharpened and beveled on one side, and a feeding device removably applied to the outer end portion of said main blade and including a reed selector blade and a back blade normally tensioned to spring toward each other into interlocking engagement with the main blade of the reed hook proper, the bevel of said tip of the main reed hook blade being toward said selector blade, and the inner end of said selector blade being beveled outwardly, whereby a reed will be selected upon downward movement of the device for passage upwardly between the selector blade and the main reed hook blade, and the selected reed will be caused to pass between the main reed hook blade and the back blade of the feeding device upon upward movement of the reed threading device, said means for connecting the feeding device with the main blade of the drawing-in hook comprising elongated diamond-shaped members applied to opposite sides of the main blade and having inturned beveled ends facilitating passage of a selected reed past the same, the selector and back blade of the feeding device having diamond-shaped openings normally receiving the diamond-shaped members, said back blade being extended inwardly beyond the selector blade and having an inturned end provided with a rounded terminal, the main blade having an opening for normally receiving said terminal to assist in maintaining the feeding device in assembled relation to the main blade.

2,324,221
COUNTING AND CONTROL MECHANISM
Hans P. Luhn, North Tarrytown, N. Y., assignor, by mesne assignments, to International Business Machines Corporation, a corporation of New York
Application September 21, 1939, Serial No. 295,892
24 Claims. (Cl. 74—1)



1. In a counter selector mechanism adapted to actuate the control elements of a controlled machine in predetermined sequence and for predetermined intervals, in combination, a record having a plurality of lines of record element positions, all elements being identical, means for simultaneously and effectively sensing the presence or absence of elements in all positions of a single line, a movable carriage on which said record and said sensing means are mounted, a driving element mounted on said carriage, pivotally mounted control levers, and interposing means responsive to said sensing means to cause said drive element to actuate said control levers.

2,324,222
AMMONIUM SULPHATE RECOVERY PROCESS
Leonard Maleson, Philadelphia, Pa.
Application March 19, 1941, Serial No. 384,088
1 Claim. (Cl. 23—119)

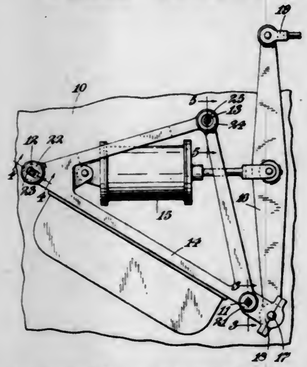


The continuous process for producing ammonium sulphate crystals which comprises passing gas containing ammonia in a continuous stream through a reaction chamber, then passing the gas through a saturator containing sulphuric acid solution, contacting the ammonia with the solution whereby the ammonia combines with the acid to form ammonium sulphate crystals which are precipitated in said solution, continuously removing a sludge of ammonium sulphate crystals and mother liquor from said saturator, draining a major portion of said mother liquor from said crystals, contacting the crystals and remaining mother liquor with the ammonia-containing gas in said reaction chamber in such a manner that the mother liquor is dispersed therein in finely divided form and maintaining such contact in said reaction chamber at a temperature above the vaporizing temperature of the mother liquor contained on said crystals and for a period of time sufficient to neutralize and dry the ammonium sulphate crystals and to form small ammonium sulphate crystals from the mother liquor, which crystals pass with the gas into the saturator, and removing dry, acid-free ammonium sulphate crystals from said reaction chamber.

2,324,223
ROSIN REFINING
Robert W. Martin, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 8, 1940, Serial No. 364,795
10 Claims. (Cl. 260—111)

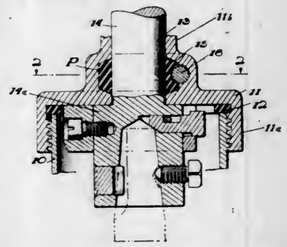
1. The method of producing light-colored rosin from crude, dark-colored rosin which consists in treating one part by weight of impure rosin in from about 1 to about 10 parts by weight of a normally liquid readily evaporated petroleum hydrocarbon solvent comprising a preponderance of hexane, said solvent containing in excess of 50% hexane and being sufficiently free of aromatic, unsaturated and naphthenic constituents to have an aniline point above 60° C., separating undissolved constituents from the solution, and evaporating the solvent from the solution to recover the dissolved rosin.

2,324,224
LOCATING AND FASTENING MEANS
Frederick William Meredith, Cricklewood, London, England, assignor to S. Smith & Sons (Motor Accessories) Limited, Cricklewood, London, England, a British company
Application May 31, 1941, Serial No. 396,130
In Great Britain May 16, 1940
3 Claims. (Cl. 248—14)



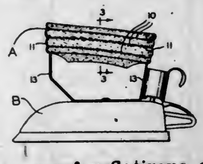
1. In an aircraft or watercraft the combination with a mounting for a servomotor unit and an interchangeable servomotor unit carried by said mounting, of a locating bolt projecting from said mounting and engaging in a properly positioned and accurately fitting hole in said servomotor unit and preventing movement of the servomotor unit on the mounting except rotation about said bolt, a second locating bolt projecting from the mounting spaced laterally from the first said locating bolt and engaging in a slot in said servomotor unit, said slot extending in line with said hole so as to provide clearance for said second locating bolt along said line and said slot having a width accurately fitting said second locating bolt so as to prevent rotation of said servomotor unit about the first said locating bolt, a third bolt projecting from said mounting and spaced from the other locating bolts and engaging in a hole in the servomotor unit with appreciable clearance, and means comprising said bolts for clamping the servomotor unit on the mounting.

2,324,225
DRILLING APPARATUS
Frank H. Mueller and Walter J. Bowan, Decatur, Ill., assignors to Mueller Co., Decatur, Ill., a corporation of Illinois
Original application July 17, 1940, Serial No. 346,052. Divided and this application December 12, 1941, Serial No. 422,772
1 Claim. (Cl. 77—38)



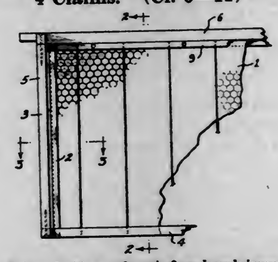
In a drilling machine, a barrel cap having a top and a depending annular skirt provided with means for disengageably engaging a barrel, said top including a neck portion projecting oppositely from the skirt coaxially with the latter, said top having a bore extending through said neck coaxially with the skirt, a boring bar rotatable and slidable in said bore and having a lower end enlargement which in the uppermost position of the bar directly abuts the undersurface of the cap substantially on a level with the top of the inner wall of the skirt, said neck having an annular groove therein surrounding said bar, packing material in said groove, said neck being provided with a bore intersecting said groove substantially tangentially to said bar, and a member in the last-named bore accessible from the upper side of the top to be forced into the packing material to compress the same.

2,324,226
HAND GRIP FOR ELECTRIC IRONS
Bernard J. Murphy, St. Paul, Minn.
Application July 5, 1941, Serial No. 401,229
1 Claim. (Cl. 38—95)



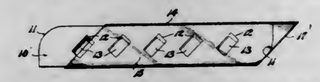
A hand grip cover for flatirons comprising a corrugated rubber body closed excepting for the bottom and open along the bottom, said opening adapting the cover to be forced over the handle to grip the handle at the closed ends thereof, and a pair of flaps extending freely from the side edges of the open-bottomed body portion, said flaps being unconnected at their ends and adapted to be brought into surrounding relation to the handle by the hand of the operator gripping the body of the cover.

2,324,227
WAX BEEHIVE FOUNDATION
Clifford F. Muth, Cincinnati, Ohio
Application May 17, 1939, Serial No. 274,207
4 Claims. (Cl. 6—11)



1. In a foundation sheet for beehives, the combination of a honeycombed sheet formed of beeswax or the like, and metal binding firmly secured at both faces of the lateral edges of the sheet, the other edges being left free for tacking to the sheet frame, said foundation sheet from binding edge to binding edge being of slightly less width than the inner dimensions of the frame to which the sheet is to be attached by the said free edges, for the purpose described, said foundation sheet being an article of commerce apart from the frame to which it is to be attached.

2,324,228
COMBINATION PACKAGE AND DISPENSER
Ben Nash, Short Hills, N. J., assignor to Rogers Imports Inc., New York, N. Y., a corporation of New York
Application July 11, 1942, Serial No. 450,597
6 Claims. (Cl. 206—42)

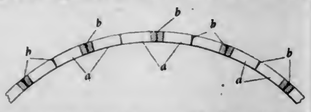


1. A relatively long, narrow, flat combination small article package and dispenser comprising a realtively long, narrow, pocketed planular member having rounded portions at diagonally opposed corners, the pockets within the planular member being generally rectangular in shape and having a major axis disposed at an angle less than 90° to the axis of said member, a relatively long narrow cover cooperating in slidable relation with respect to said member, the two remote ends of said cover being formed at an angle generally parallel to the axis of the pockets in said member, said member being longer than said cover, the two rounded portions of said member protruding from said cover when said member is disposed centrally of said cover, the first of said pockets in said member being so located therewithin that when one of the rounded corners is pushed against one of said remote ends of said cover less than the major portion of said first pocket is exposed at the opposite end of said member.

2,324,229
LATTICE STRUCTURE
Edgar Walter Neale, Birmingham, England
Application April 10, 1942, Serial No. 438,513
In Great Britain April 1, 1941
1 Claim. (Cl. 20—91)

A transversely curved lattice structure comprising in combination a plurality of strips of structural material arranged side by side, each strip being similarly shaped to a wavy form, means

for securing the contiguous strips together at crests of the waves, and wedge-shaped filling pieces arranged in correspondingly shaped gaps formed between the crests of the waves as a result



to the transverse curvature of the structure, the said filling pieces being secured in position by the means employed for securing the strips together.

2,324,230

PROCESS OF PREPARING WOOD PULP

Fredrich Olsen, Soldon Feldman, and Lyle Melvin Sheldon, East Alton, Ill., assignors to The Cellulose Research Corporation, East Alton, Ill., a corporation of Delaware

No Drawing. Application January 30, 1939, Serial No. 253,598

6 Claims. (Cl. 92—11)

1. The process of preparing wood pulp comprising the steps of digesting wood with a bisulfite solution by uniformly applying the said chemical and heat to each of the woody subdivisions until a pulp is formed with all the fibers having a bleachability of less than about 15% and terminating the said digestion before the cellulose viscosity has been reduced to less than the order of 10 centipoises, forming a water slurry of said pulp and chlorinating said pulp by uniformly and rapidly adding to said water slurry at room temperature an amount of gaseous chlorine expressed in pounds per 100 pounds of pulp equal to not less than 20% of its bleachability and causing said chlorine to penetrate and react with the chlorinatable content of the pulp prior to any substantial oxidation of the cellulosic components of said pulp, continuing said treatment until the bleach value of said pulp is reduced to not greater than about 1% and terminating said treatment before exhaustion of said chlorine.

2,324,231

VACUUM CLEANER DUST BAG

Ragnar Konstantin Österdahl, Stora Essingen, Sweden

Application October 25, 1941, Serial No. 416,473

In Sweden March 1, 1939

2 Claims. (Cl. 183—74)



1. In a vacuum cleaner dust bag, an outer jacket member, a lining of filtering material supported within said jacket, said jacket being formed with a plurality of apertures, and tongues integral at one end with said jacket at the edges of said apertures, said tongues being turned away from said apertures at angles greater than 90° to thereby space said filtering material from the inner side of said jacket.

2,324,232

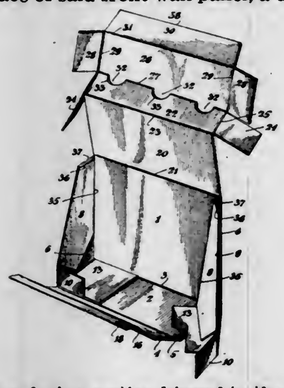
DISPLAY CONTAINER

Vincent R. Pantalone, Hamden, Conn., assignor to National Folding Box Company, New Haven, Conn., a corporation of New Jersey

Application May 17, 1941, Serial No. 393,891

13 Claims. (Cl. 206—45)

1. An improved display container formed from a single blank of paperboard material having a rear wall panel, a bottom wall panel hinged to said rear wall panel, a front wall panel hinged to said bottom wall panel, end wall panels hinged to the side edges of said rear wall panel, a bottom flap hinged to the lower edge of each of said end wall panels adapted to overlie said bottom wall panel, an inturned tab hinged to each of said end wall panels adapted to lie adjacent the inside face of said front wall panel, a downwardly



extending facing section hinged to the upper edge of said rear wall panel, a shelf section hinged to said rear wall facing section, a skirt section hinged to said shelf section, and frictionally interengaging portions associated with said front wall panel, end wall panels and skirt section for retaining said container in erect assembled position, said end wall panels having portions thereof rising above the ends of said shelf section to provide retaining walls for the merchandise placed on said shelf section.

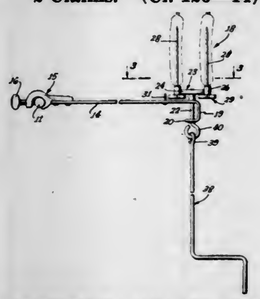
2,324,233

FRANKFURTER ROASTER

Bruce M. Parsons, San Gabriel, Calif.

Application July 21, 1941, Serial No. 403,248

2 Claims. (Cl. 126—14)



1. In combination: an arm adapted to be mounted on an upright support or the like, said arm having means at one end thereof for rotatably supporting a shaft; a shaft rotatably mounted in said last mentioned means; a spider bracket secured to said shaft; a plurality of spindles rotatably mounted on said bracket, said spindles each being adapted to support an article of food impaled thereon; means for yieldably resisting rotative movement of the individual spindles; an elongate crank detachably connected to said shaft for rotating the same from a distance; star wheels having spaced radial projections on each spindle; a projection on said arm in position to be successively engaged by a projection of each of the individual star wheels during rotation of the bracket for imparting limited rotative movement to the individual spindles about their own axes.

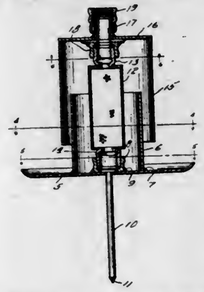
2,324,234

IRRIGATOR

Otho Andrew Peters, Deer Park, Wash., assignor of one-eighth to Walter M. Leuthold, one-eighth to Nellie H. Peters, one-eighth to Genora E. Follevaag, all of Deer Park, Wash., and one-eighth to George W. Peters, Spokane, Wash.

Application October 7, 1942, Serial No. 461,163

2 Claims. (Cl. 299—76)



1. An irrigator comprising a base plate, a shell rising from the plate, a perforated barrel rising from the plate within the confines of the shell, a second shell of larger diameter overlapping the first-mentioned shell and being spaced from the plate, and a water supply line connection at the top of the last-mentioned shell.

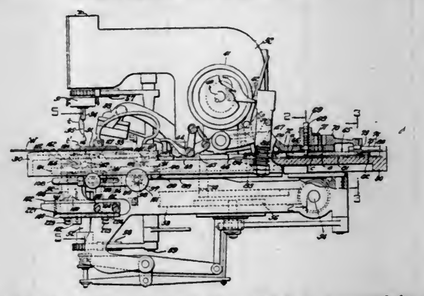
2,324,235

BUTTONHOLE SEWING MACHINE

Joseph H. Pikul, West Newton, Mass.

Application January 31, 1941, Serial No. 376,716

42 Claims. (Cl. 112—71)



5. A buttonhole sewing machine comprising, in combination, stitching mechanism and work-holding means, said stitching mechanism including, in part, a rotary turret and stitch-forming instrumentalities carried thereby, means for causing relative movement of said stitching mechanism and work-holding means lengthwise of the buttonhole, first in one direction and then in the other, means for changing the angular position of said turret with respect to the other parts of said stitching mechanism when the direction of said relative movement is reversed, trimming instrumentalities carried by said turret, actuating means for said trimming instrumentalities associated with said other parts of the stitching mechanism, said trimming instrumentalities and actuating means being disconnected when said turret is in its angular position during said relative movement in the first direction but being operatively connected when said angular position is changed during the reversal of said movement, and a cam associated with said work-holding means and engaged by said actuating means, to operate the latter, at a predetermined time during said relative movement.

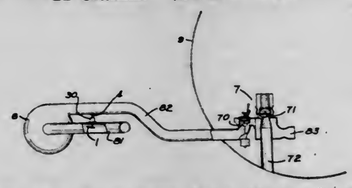
2,324,236

BLOWER AUTOMATIC THROTTLE

Nathan C. Price, Seattle, Wash., assignor, by mesne assignments, to Boeing Aircraft Company, Seattle, Wash., a corporation of Washington

Application June 10, 1939, Serial No. 278,523

11 Claims. (Cl. 128—204)



1. Control mechanism for a blower having an intake thereto and a discharge duct therefrom, comprising means to control the amount of air admitted to the blower, means in the discharge duct operable to reduce the velocity of air flowing out through it and consequently tending to increase the static pressure therein, and means operable automatically under the influence of an increase in pressure in the discharge duct caused by such decrease in flow velocity therethrough to operate said control means to lessen the amount of air admitted to the blower, thereby in turn to reduce the degree of static pressure increase in the discharge duct from that which would normally be induced by such decrease in flow velocity.

2,324,237

CONTAINER

John Reichel, Wynnewood, Pa.

Application March 19, 1941, Serial No. 384,179

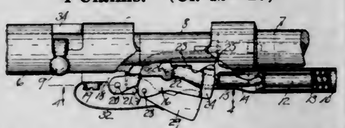
2 Claims. (Cl. 215—32)



1. A sealed and stoppered container comprising a body portion; a sealed, breakable portion; a neck having an inwardly-extending flange therein, said neck extending between said body portion and said sealed, breakable portion; and a cap stopper of substantially uniform diameter positioned within said container and including a cap portion and a plug portion, said stopper having a preformed annular groove on the outer surface thereof adjacent the juncture between said cap and plug portions to provide a preformed annular shoulder on the outer surface of said stopper, said cap portion being disposed within the sealed, breakable portion, and said plug portion being

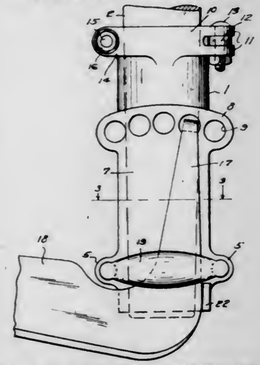
disposed within said neck with the preformed shoulder on the stopper engaged beneath the flange within said neck to assist in retaining said stopper in position.

2,324,238
LOADING MECHANISM FOR FIREARMS
Eugene G. Reising, Hartford, Conn.
Application March 20, 1939, Serial No. 262,874
4 Claims. (Cl. 42—17)



1. In a firearm having a receiver and a breech bolt slidably mounted in said receiver to open and close it, the combination of a loading mechanism including a slotted and chambered carrier pivotally supported at its rear end by the receiver, a lifter of substantially the length of the carrier pivotally attached to the carrier to lift the cartridges within the carrier, means for applying power to the lifter to raise it, and means engaged with said lifter to transmit partial movement thereof to the carrier to effect simultaneous movement of the latter at a slower speed than that of the lifter to cause the latter to raise the cartridges into the path of the breech bolt.

2,324,239
SNATH
Gustave Robichaud, Glens Falls, N. Y.
Application May 14, 1942, Serial No. 442,990
1 Claim. (Cl. 306—1.3)

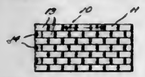


A scythe comprising a metallic bar of arcuate cross section for mounting longitudinally on one end portion of a handle, an eye on one end of the bar for the reception of the handle, a substantially U-shaped clamp pivotally connected, at one end, to the other end of the bar, coacting means on the bar and the clamp for adjustably securing the other end of said clamp to said bar, the clamp being engageable around the handle for detachably securing said other end of the bar thereon, said bar including an integral, raised flat plate extending longitudinally on said bar from said one end thereof to an intermediate point, an arcuate head integral with one end of the plate and spaced from said other end of the bar, said head having a series of sockets therein for the reception of a lug on a blade tang, and a U bolt mounted on the bar for clamping the tang thereon.

2,324,240
PROCESS FOR DEHYDRATION
Albert Schaafsma, Amsterdam, Netherlands, assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application April 4, 1940, Serial No. 327,931. In the Netherlands June 1, 1939
9 Claims. (Cl. 196—13)

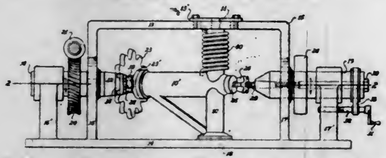
9. In a process for removing water from salts of metals of the right hand column of the fifth group of the periodic table, said salts boiling above but relatively close to the boiling point of water, being substantially unreacted by small percentages of water but decomposable when the water content exceeds a certain maximum, the steps of commingling said metal salt containing small quantities of water with an auxiliary agent boiling between the boiling points of water and of the metal salt, said agent being inert to the action of said salt, miscible therewith, but immiscible with water, and distilling said mixture thereby separately recovering the substantially anhydrous metal salt and an overhead fraction comprising the water and the auxiliary agent.

2,324,241
BASKET WEAVE BRACELET
Adolf O. Schoeninger, Irvington, N. J., assignor to Forstner Chain Corporation, a corporation of New Jersey
Application October 29, 1941, Serial No. 416,971
2 Claims. (Cl. 63—4)



1. A basket weave bracelet, comprising a plurality of interlocked links, each link having a body portion, an odd number of bar sections extending laterally from each side of the body portion, the bar sections on one side being alternately long and short and the aligned bar sections on the other side being alternately short and long, the long and short bar sections at one side of the body portion being bent to overlie the aligned short and long bar sections at the other side with the ends thereof in spaced longitudinal relation, the ends of the long bar sections being bent to interlock with the short bar sections of the adjacent links.

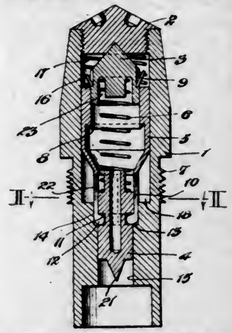
2,324,242
MACHINE FOR CUTTING GEAR TEETH
Ferdinand W. Seeck, Lebanon, Oreg.
Application October 21, 1939, Serial No. 300,568
8 Claims. (Cl. 90—2)



1. In a gear-cutting machine, a pair of rotatable shafts, the gear blank secured to one of said shafts, the cutter secured to the other of said shafts, a template gear mounted on one of said shafts, said template gear having a perimeter containing regularly-spaced teeth, the number of teeth being twice the number desired in the gear to be cut, a rotor, means on said rotor for intermittently engaging every second tooth in said template to produce rotation of said template and alternate change of position of the axis of said

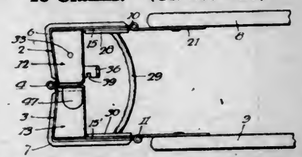
template, and an element on said rotor for holding said template to the proper pitch line when a tooth on said template is not being engaged by said means.

2,324,243
IMPACT DETONATOR
Leopold S. Serog, Woodside, Long Island, N. Y.
Application April 8, 1941, Serial No. 387,527
2 Claims. (Cl. 102—75)



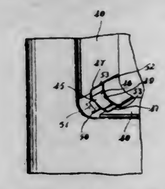
1. A detonator for a projectile comprising, a tubular body member, a cap on said body member, a needle slidable in the body member to a rear detonating position, a sleeve slidably mounted in the body member, rearwardly extending fingers carried by said sleeve and terminating in hook-shaped ends, said needle having an annular recess therein for receiving said hook-shaped ends, an annular shoulder carried by said body member engaged by the ends of said fingers and preventing rearward movement of said fingers, an inertia member mounted for sliding movement within said sleeve and adapted to move rearwardly upon discharge of the projectile, a spring between the needle and the inertia member adapted to be compressed by the rearward movement of the inertia member upon sudden forward movement of the projectile, yieldable projections carried by the inertia member for engaging the sleeve in the rearward position of the inertia member, another spring between the sleeve and the cap for normally maintaining the sleeve in a retracted position but adapted to be compressed when the sleeve and the inertia member are moved forwardly upon sudden deceleration of the projectile so that the hooked ends of said fingers are disengaged from said needle and the first mentioned spring then forces the needle rearwardly to a detonating position.

2,324,244
LOOSE-LEAF BINDER
Charles V. St. Louis, Chicago, Ill., assignor to Wilson-Jones Company, Chicago, Ill., a corporation of Massachusetts
Application December 12, 1938, Serial No. 245,141
18 Claims. (Cl. 129—17)



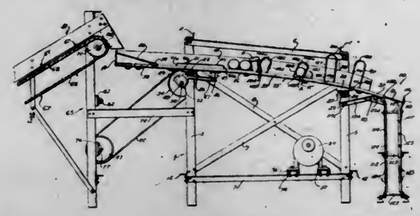
9. In a loose leaf binder, a back section hinged along one longitudinal edge to another back section and along its other longitudinal edge to a cover member, a box member slidably mounted on said hinges, and releasable means to prevent sliding of said box member on said hinges.

2,324,245
REFRIGERATOR SPACER CONSTRUCTION
Enoch Swedman, St. Paul, Minn., assignor to Seeger Refrigerator Company, St. Paul, Minn., a corporation of Minnesota
Application November 20, 1940, Serial No. 366,393
6 Claims. (Cl. 220—15)



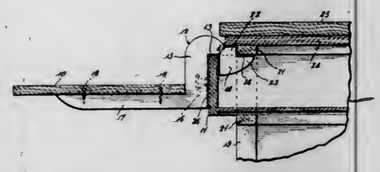
2. A refrigerator construction comprising an outer metallic covering having a substantially rectangular door opening therein, an inner liner having a similar opening therein, a corner connecting spacer comprising a pair of spacing strips and an intermediate connecting strip, one end of each of said spacing strips being secured to said outer covering member along two adjacent edges of said rectangular opening to said outer covering, insulation means interposed between the other ends of said connecting strips and said liner, securing means securing said other ends to said liner, breaker strips overlying the edges of said inner liner and said outer covering, and clamping means overlying the ends of said breaker strip and secured to said connecting strip, and trough-shaped trim means overlying said clamping means, and inturned substantially parallel edges on said trim means slidably engaging the opposed edges of said clamping means.

2,324,246
CAN ALIGNER
Albert R. Thompson, Los Gatos, Calif., and Edward G. Bauer, Hoopeston, Ill., assignors to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Application May 21, 1941, Serial No. 394,500
21 Claims. (Cl. 198—30)



1. A can aligning machine comprising a downwardly curved can table provided with a plurality of guide channels, means for reciprocating said table for advancing the cans deposited thereon over said table, and can aligning means adjacent said guide channels for arranging said cans with their axes parallel to said channels and for depositing the same therein, the curvature of said table being of substantially progressively increasing slope such that the advancement of the cans over the table is progressively accelerated to thereby separate the cans with respect to each other.

2,324,247
PORTABLE TABLE
Henry K. Ullman, Washington, D. C.
Application April 27, 1942, Serial No. 440,693
4 Claims. (Cl. 45—90)



1. A typewriter support for attachment to a desk or like article of furniture having a top and a drawer slidable thereunder comprising, means defining a table surface of a size to accommodate a typewriter or the like, a plurality of hooks, each hook including a portion adapted to bridge the top edge of the front panel of a drawer and integral inner and outer depending shanks for snugly receiving the front panel of a drawer therebetween, each outer shank having an integral portion extending outwardly therefrom attached to, underlying, and supporting the means defining a table surface, each inner shank having a portion adapted to engage compressively the underside of the top and a portion adapted to engage at least one other structural element of the furniture, whereby the outer shank of each hook is held rigid with the drawer by the engagement of the integral depending shanks with its front panel and the drawer is held rigid with the piece of furniture as a whole by the compressive engagement of a portion of the inner shank with the underside of the top thereof.

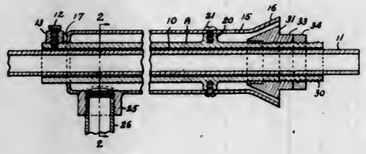
2,324,248
CATALYTIC HALO-SUBSTITUTION OF SATURATED ORGANIC COMPOUNDS
William E. Vaughan and Frederick F. Rust, Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application September 1, 1942, Serial No. 456,958
13 Claims. (Cl. 260—662)

13. A process for the halogenation, via substitution, of a saturated organic compound which comprises reacting said compound with a halogen selected from the group consisting of chlorine, bromine and iodine in the presence of an organic peroxide which yields free radicals under the operating conditions.

2,324,249
HALO-SUBSTITUTION OF SATURATED ORGANIC COMPOUNDS
William E. Vaughan and Frederick F. Rust, Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application September 1, 1942, Serial No. 456,959
13 Claims. (Cl. 260—662)

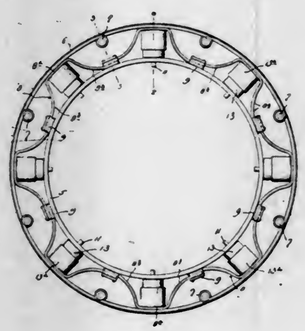
13. A process for the halogenation, via substitution, of a saturated organic compound which comprises reacting said compound with a halogen selected from the group consisting of chlorine, bromine and iodine, in the presence of an azo-compound which yields free radicals under the operating conditions.

2,324,250
SAND BLASTING
John Nicholas Voerge, Westmount, Quebec, Canada
Application December 26, 1941, Serial No. 424,511
5 Claims. (Cl. 51—11)



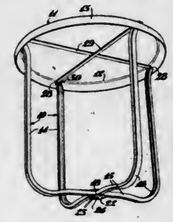
1. A sandblast apparatus, comprising, a body having an inlet end and an outlet end and a passage extending therebetween, a liner adapted for carrying sand and air removably mounted in said passage, a water jacket surrounding at least a portion of said body and having a flared portion adjacent said outlet forming a conical mouth, a frustro-conical plug connected to said body for axial movement in relation thereto, said plug being adapted to form with the flared mouth of said jacket a frustro-conical water discharge nozzle of adjustable width, a water communication to said jacket, and a communication to said liner for sand and air.

2,324,251
RESILIENT WHEEL
Peter R. von Schneeweiss and Hans F. Klaholz, Cleveland, Ohio
Application April 23, 1942, Serial No. 440,226
3 Claims. (Cl. 152—38)



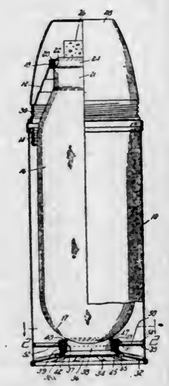
1. A resilient vehicle wheel comprising a rigid continuous inner rim, a flexible outer rim embodying a plurality of similar relatively long hingedly connected sections, and a system of springs between said rims including a series of leaf springs disposed centrally between the side edges of said rims and having similar relatively long inwardly curved end portions connected by relatively short arcuate intermediate portions, said inwardly curved end portions being longitudinally slidable relative to and connected to the inner rim at points radially opposed to the hinged connections between the sections of the outer rim, and means rigidly connecting the relatively short arcuate intermediate portions of said leaf springs with the outer rim sections intermediate the ends of the latter.

2,324,252
METAL TABLE
Frank C. Woelfer, Cincinnati, Ohio, assignor to The Cincinnati Ball Crank Company, Cincinnati, Ohio, a corporation of Ohio, and The Shott Manufacturing Company, Cincinnati, Ohio, a corporation of Ohio
Application May 29, 1941, Serial No. 395,843
8 Claims. (Cl. 311—1)



1. A metal table, comprising a top having a downwardly turned flange around its edge, said flange turned inwardly sufficiently to provide a hook, legs adapted to support said top, said legs including outwardly turned upper ends engaged in the flange of the top, and snap strips disposed diametrically across the underside of the top and having formed ends, said formed ends engaging and holding the upper ends of the legs in locked engagement with the flange of the top.

2,324,253
VACUUM BOTTLE SUPPORT
Oscar M. Anderson, New Britain, Conn., assignor to Landers, Frary & Clark, New Britain, Conn., a corporation of Connecticut
Application February 19, 1941, Serial No. 379,582
4 Claims. (Cl. 215—13)



4. A vacuum bottle including a casing, a container of fragile material located within said casing, said container having a hemispherical bottom, and cushioning means between the vessel bottom and the bottom of said casing, said means comprising a cylindrical rubber ring generated by a rhomboid having its upper acute vertex located inwardly toward the generating axis of the ring.

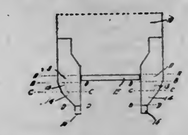
2,324,254
METHOD OF REMOVING MUD BARRIERS FROM OIL WELLS
Theodore A. Bertness, Whittier, Norris Johnston, Alhambra, and Daniel O. Newton, La Habra Heights, Calif., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application March 11, 1941, Serial No. 382,758
1 Claim. (Cl. 166—24)

The method of removing mud barriers from oil wells which comprises: removing the drilling fluid from the well; filling a desired portion of the well bore with a highly concentrated calcium chloride brine; allowing said brine to stand in contact with said barrier until the mud thereof is at least partially dehydrated and disintegrated; and removing from the well said brine and the earthy matter disintegrated thereby.

2,324,255
SEPARATION OF KETONES AND MONOHYDRIC ALCOHOLS FROM MIXTURES THEREOF
Edgar C. Britton, Howard S. Nutting, and Lee H. Horsley, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application April 17, 1940, Serial No. 330,206
12 Claims. (Cl. 202—42)

1. In a method for separating one compound from a mixture of an alcohol and a ketone which is azeotropic when distilled at approximately atmospheric pressure, the step of fractionally distilling the mixture at a pressure sufficiently remote from atmospheric pressure so that there is obtained a first fraction of distillate having a composition substantially different from that of the initial mixture and so that a substantial portion of one of the components of the mixture is separated as a relatively pure compound.

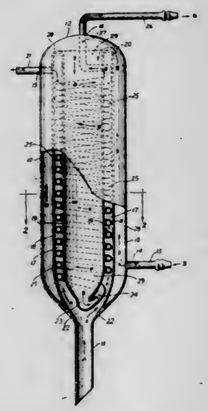
2,324,256
STOCKING
Albert X. Desmonds, Indianapolis, Ind., assignor to Real Silk Hosiery Mills, Inc., Indianapolis, Ind., a corporation of Illinois
Application January 18, 1941, Serial No. 374,983
1 Claim. (Cl. 66—187)



A full-fashioned knit stocking blank, comprising a leg portion and a foot portion, said leg portion including heel-tabs each of which is narrowed toward its lower end by the inward transfer of outer wales to leave a row of fashion marks terminating at a point spaced outwardly from the inner marginal wale of the heel-tab, to leave between the lowermost fashion mark and the inner marginal wale of the heel-tab a plurality of intervening wales free from fashion marks, said line of fashion marks having an upper part and a lower part, the lower part being more oblique than the upper part, the stitches of the first course in said foot portion being interlooped with the stitches of one of such intervening wales in each heel-tab, with the stitches of the last course of the center portion of the leg portion between

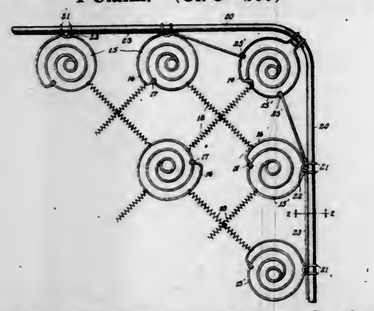
the heel-tabs, and with the stitches of the last course of each heel-tab, said blank including inwardly from each said row of fashion marks one or more wales which extend continuously without a fashion mark through the heel tab and into said foot portion.

2,324,257
CONDENSING AND DISTILLING DEVICE
Werner Ekert, Long Island City, N. Y.
Application July 2, 1942, Serial No. 449,526
1 Claim. (Cl. 257—216)



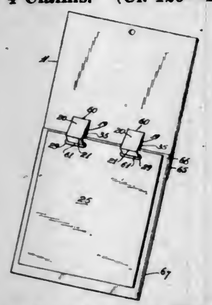
A condensing and distilling device comprising an outer casing closed at the top, said casing having an opening in the upper portion of the side thereof, an opening in the top portion thereof and an opening in the bottom portion thereof, the lower portion of said casing being extended downwardly into a restricted portion having an opening therein; an annular intermediate chamber within said casing closed at the upper portion and open at the bottom portion within said casing and spaced from the sides thereof, the lower portion of the outer wall of which is integral with the lower portion of said casing forming an outer chamber therewith, the inner wall of said intermediate chamber forming an inner chamber open at the top thereof, the bottom portion of said inner chamber having an opening connecting it with the interior of said intermediate chamber; a pipe extending from the upper portion of said intermediate chamber outwardly of said casing through said upper opening therein and a coiled pipe within said intermediate chamber opening into the bottom portion of said inner chamber and extending upwardly through said intermediate chamber and outwardly through said opening in the top member of said casing; said device being adapted to allow of the passage of a fluid through the restricted end of said casing, thence through said intermediate chamber and thence outwardly through the opening in the upper side portion of said casing; said device being further adapted to allow of the simultaneous passage of a fluid through said opening in the lower portion of said casing into said outer chamber, thence downwardly through said inner chamber, thence upwardly through said coiled pipe and outwardly through the opening in the top member of said casing.

2,324,258
SPRING MATTRESS STRUCTURE
Fred Hampton, Bellerose, N. Y., assignor to Zimets Bed Spring Corporation, Brooklyn, N. Y.
Application March 14, 1942, Serial No. 434,758
1 Claim. (Cl. 5—260)



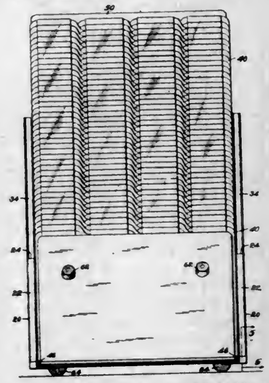
A spring structure comprising a plurality of helically coiled frusto-conical springs anchored at their lower ends in spaced axial relation, a free-floating rigid frame circum-ambient the upper ends of the outer springs, a hook loop formed integrally with the upper coil of each of the outer springs bent to tightly encircle the adjacent portion of said floating frame, and wires adjacently parallel the inner surface of the ends and sides of said frame said wires having undulations to engage in each of said loops thereby to retain the outer springs in spaced relation, said wires being radially connected with the springs at the corners of the structure at equally spaced distances from the loops of the corner springs.

2,324,259
LOOSE-LEAF CONSTRUCTION
Victor Havel, Chicago, Ill., assignor to L. L. Paper Products, Inc., Chicago, Ill., a corporation of Illinois
Application September 7, 1942, Serial No. 457,627
4 Claims. (Cl. 129—1)



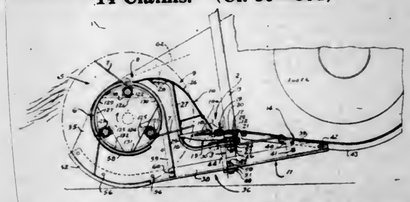
3. A loose leaf construction comprising a sheet having at least one pair of spaced cuts to form a strap, and an opening therebeneath, said sheet having a slit extending from opposite edges of said sheet to and between each opening provided to form upper and lower tongues on said sheet, each strap provided having scores at its upper and lower junctures with said sheet and bent inwardly thereon, said upper and lower tongues at least partially overlapped for extending each strap provided diagonally upwardly for the reception, withdrawal and turning thereon of sheets, and a back, said sheet attached to said back.

2,324,260
PAPER FILE
John Arthur Johnson, Jamestown, N. Y., assignor to Art Metal Construction Company, Jamestown, N. Y., a corporation of Massachusetts
Application November 6, 1942, Serial No. 464,698
17 Claims. (Cl. 129—16)



10. In a paper file, the combination of an inclined panel, a series of exposed sheets carried by and normally outstanding upwardly and rearwardly from said panel and having exposed indexes at their upper edges, a base having an inclined seat upon which said panel is seated and slidable lengthwise, lateral guides for said panel, and means limiting descent of said panel along said guides.

2,324,261
PICKUP DEVICE
Norman R. Krause, Racine, Wis., assignor to J. I. Case Company, Racine, Wis., a corporation
Application July 17, 1939, Serial No. 284,832
14 Claims. (Cl. 56—364)



1. In a combination harvester-thresher the combination of a header, a sickle structure having a moving cutting element, a pick-up unit, and means for attaching the pick-up unit to the header, said means being adapted to support the pick-up in position to cooperate with the sickle, the parts being arranged to so locate the pick-up near enough to the sickle so that material caught on the pick-up and tending to wind thereon will be carried into and cut by the sickle for clearing the pick-up.

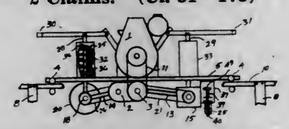
2,324,262
MAGNETIC CONTACT
Anthony H. Lamb, Elizabeth, N. J., assignor to Weston Electrical Instrument Corporation, Newark, N. J., a corporation of New Jersey
Application March 1, 1941, Serial No. 381,326
5 Claims. (Cl. 200—166)

1. A contact assembly for cooperation with a magnetic material contact of a sensitive relay, said assembly comprising an element of magnetic material, and a contact tip of non-magnetic material adjustably mounted on and extending



beyond said element toward the cooperating contact.

2,324,263
COMBINATION CUTTING AND SURFACING GRINDER
Paul E. Lowe, Scranton, Pa., assignor to The Rails Company, New Haven, Conn., a corporation of Connecticut
Application December 31, 1941, Serial No. 425,093
2 Claims. (Cl. 51—178)

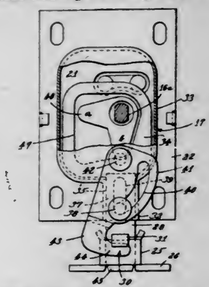


1. A combination cutting and surfacing grinder for railway rails including a carriage which comprises a frame extending across both rails when said carriage is positioned, a platform which is movably mounted on said frame so constructed and arranged that it may be positioned above the rail to be ground, and a grinding mechanism supported by said platform including a pair of inter-geared parallel shafts below said platform, an arm pivoted on one of said shafts carrying a gear mechanism comprising a gear member and a driven pulley mounted on a sub-shaft parallel to said pair of shafts, a gear member and a grinding wheel mounted on another sub-shaft at right angles to said first mentioned sub-shaft, a guard for said grinding wheel supported by said pivoted arm, a stop affixed to said guard constructed and arranged to contact the rail to be ground and thus limit the downward movement of said pivoted arm, a driving pulley fixed on the same shaft on which said arm is pivoted and belted to said driven pulley, a handle above said platform connected to said pivoted arm constructed and arranged to depress said arm when said handle is depressed and thus force said grinding wheel and stop downwardly and spring means adapted to raise said pivoted arm and thus raise said grinding wheel when said handle is released.

2,324,264
AUTOMOBILE TRUNK LOCK
Walter R. Lustig, Rockford, Ill., assignor to The Atwood Vacuum Machine Company, Rockford, Ill., a copartnership composed of Seth B. Atwood and James T. Atwood
Application September 11, 1940, Serial No. 356,256
5 Claims. (Cl. 292—8)

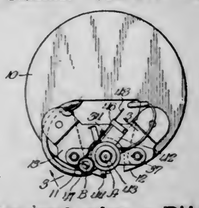
1. In a lock for the lid of a rear luggage compartment or other receptacle wherein there is a keeper providing a bolt recess and an eye for a hook in inwardly spaced relation thereto, the combination of a lock case, a bolt slidable in the lock case having a wedge-shaped end arranged to be extended from said case into wedging engagement in the recess in the keeper, a hook pivoted relative to the lock case to swing outwardly therefrom in a plane parallel to the plane of movement of the bolt for cooperation with the eye of the keeper, means operatively

connecting the hook with the bolt, whereby the hook is arranged to be swung toward and away from the eye in the reciprocatory movement of the bolt in a predetermined timed relation to the movement of the bolt, the hook being moved toward operating engagement with the eye after predetermined movement of the bolt into the recess has caused the lock case to be positioned so that the hook is in coplanar relation to the eye, and means for operating the bolt, said means



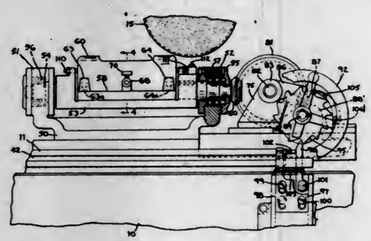
operatively connecting the hook with the bolt comprising a pin on the bolt slidable in a slot provided in the hook, said slot being shaped so that the hook is operated in retarded relation to the bolt in the advancement of the bolt and hook to operative position but is operated in the opposite direction in the initial retracting movement of the bolt, substantially as and for the purpose described.

2,324,265
D'ARSONVAL RELAY
Archie J. McMaster, Highland Park, Ill., assignor to G-M Laboratories, Inc., Chicago, Ill., a corporation of Illinois
Application July 19, 1940, Serial No. 346,272
12 Claims. (Cl. 200—110)



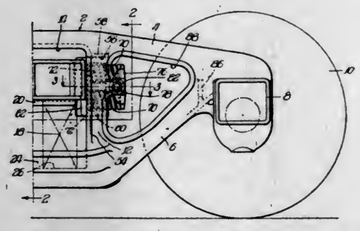
1. In a D'Arsonval relay, a D'Arsonval meter apparatus including a coil assembly rotatable about a vertical axis, a movable contact member carried by the coil assembly comprising a wire of relatively small cross section disposed in a plane substantially parallel to the axis of the coil assembly, but spaced therefrom, and a normally stationary contact member in the form of a wire disposed in the path of said movable contact member and lying in a plane at right angles thereto so that said contact members engage each other in point to point relation, said normally stationary contact member being supported at a point spaced from a line drawn at any point through the axis of rotation of the coil assembly, and being so constructed and arranged as to flex between the point of its support and the point of engagement by the movable contact member, the angle formed by drawing two lines, one from said axis and one from the point of support of the normally stationary contact member, each line extending to the point of initial engagement between the contact members, being not less than about 25 degrees nor more than about 75 degrees.

2,324,266
GRINDING MACHINE
George T. Muskovin, Worcester, and John I. Garside, West Boylston, Mass., assignors to Norton Company, Worcester, Mass., a corporation of Massachusetts
Application November 12, 1941, Serial No. 418,766
6 Claims. (Cl. 51—92)



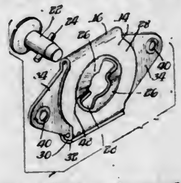
1. In a grinding machine having a base, a longitudinally reciprocable table, a wheel slide thereon, a rotatable grinding wheel on said slide having a concave operative face and having its axis arranged normal to the reciprocatory movement of said table, means to reciprocate said table, an oscillatable work support pivotally mounted on said table having its axis arranged parallel to the movement of said table, means to support a work piece thereon having a partial cylindrical surface to be ground, and an indexing mechanism for said work support including a cam actuated gear mechanism which is actuated by and in timed relation with the table movement rotarily to index said work piece to index the work piece by an amount substantially equal to the width of the grinding wheel.

2,324,267
TRUCK
Alfred H. Oelkers, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application December 20, 1940, Serial No. 370,949
21 Claims. (Cl. 105—197)



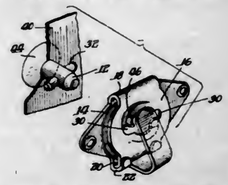
4. In a four wheel railway car truck, a truss side frame having tension and compression members and spaced columns forming a bolster opening, said columns having centrally thereof rectangular openings aligned longitudinally of the frame, a bolster guide block resiliently mounted in each of said openings for sliding movement longitudinally of the frame, a bolster end extending into said bolster opening in interlocking engagement with said guide blocks, said interlocking engagement comprising vertical slots in the side walls of said bolster with friction surfaces engaging complementary friction faces on said blocks, and means resiliently restraining said blocks against lateral movement in said columns.

2,324,268
FASTENING DEVICE
Ougljesa Jules Poupitch, Chicago, Ill., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois
Application January 30, 1942, Serial No. 428,807
12 Claims. (Cl. 24—221)



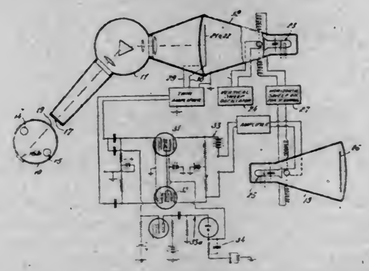
12. A fastening device formed from metallic sheet material comprising a base plate centrally apertured to receive and encircle a rotary fastening stud of the type equipped with a lateral lug, a stud locking section forming an integral extension of a margin of said plate, said locking section including a resilient locking plate superimposing said base plate and including an integral connecting and spacing member extending between adjacent margins of said plates, another spacing member extending between and connected only to one of said plates in the vicinity of the opposite adjacent margins thereof, said locking plate being centrally apertured coaxially with respect to the aperture in the base plate and arranged to receive and encircle said stud, a section on said locking plate adapted to be engaged by the lateral lug of said stud so as to cause said locking plate to yield toward the base plate when said stud is rotated in a given direction, and means for securing said base plate in a fixed position upon the surface of a work piece.

2,324,269
FASTENING DEVICE
Ougljesa Jules Poupitch, Chicago, Ill., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois
Application April 8, 1942, Serial No. 438,204
8 Claims. (Cl. 24—221)



1. A sheet metal fastening device having a base portion adapted to be secured to a supporting surface, a locking member carried by said base portion and normally spaced from the plane defined by said base portion, said locking member being adapted to accommodate a rotary stud equipped with a lateral cam engaging surface and carried by a work member adapted to be detachably associated with said support, a cam associated with the locking member adapted to be engaged by the cam engaging surface of the stud, and abutment means positioned beneath said cam and adapted to be engaged by the underside thereof for limiting the extent to which said cam may be shifted under the influence of a lateral cam engaging surface of a stud, said abutment means in the vicinity of the high point of said cam being spaced from the plane of the base portion and positioned in relatively close proximity with respect to the underside of the cam in the aforesaid vicinity.

2,324,270
MEANS FOR COMPARATIVE SPECTRAL ANALYSIS
Carleton H. Schlesman, Camden, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
Application August 28, 1940, Serial No. 354,476
1 Claim. (Cl. 88—14)



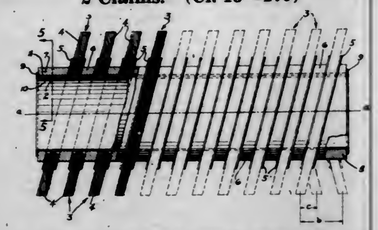
In a comparison colorimeter or the like, the combination of an electronic iconograph, an electronic iconoscope, means for producing two comparison spectra in the iconoscope, means for producing contemporaneous transverse scanning of the two spectra in the iconoscope, means for producing simultaneous longitudinal scanning in the iconoscope and the iconograph, a resistance bridge, amplifying means and circuit connections for conducting, to the terminals of the bridge, opposed voltages from the iconoscope corresponding, respectively, to the point-to-point densities of the two spectra, means, including output connections from the bridge terminals, for imparting energy to the transverse scanning means of the iconograph, and means, in series with said output connections and the bridge, for producing a constant biasing voltage equal to the imbalance between the said opposing voltages attributable to the maximum possible point-to-point contrast between the two spectra.

2,324,271
ARTIFICIAL EYELASH ELONGATION
Elizabeth Adler, New York, N. Y.
Application March 24, 1943, Serial No. 480,379
3 Claims. (Cl. 132—1)



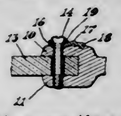
1. The method of artificially elongating eyelashes which comprises treating thin fibers with pigmenting and plasticizing agents and working said agents into the fibers until they are covered with the agents forming an elongated hair-like body having the general appearance of an eyelash when cut to length, cutting the hair-like body into eyelash elongations of suitable length, and attaching said elongations to natural eyelashes by their inherent adhesiveness.

2,324,272
WIRE BRUSH ABRADING DEVICE
Wilford A. Anderson, Minneapolis, Minn., assignor to G. H. Tennant Company, Minneapolis, Minn., a corporation of Minnesota
Application March 28, 1941, Serial No. 385,765
2 Claims. (Cl. 15—179)



1. A rotary abrading brush comprising a supporting member, a series of disk-like brush sections each composed of a plurality of radially disposed twisted cable-like tufts of relatively stiff wire bristles, means for spacing apart said sections on the support and whereby they are disposed at an angle to the axis of the supporting member, whereby when the abrading roll is in operation, a scrubbing and cleaning action is imparted to the floor or surface being treated, the entire length of the brush, and suitable wedge-shaped annular weights being secured to said support in diametrically opposed relation for dynamically balancing the brush, when operated at high speed.

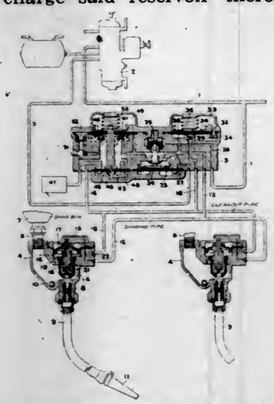
2,324,273
OPHTHALMIC MOUNTING
Elton H. Rimington, Beverly, Mass.
Application December 6, 1941, Serial No. 421,945
6 Claims. (Cl. 88—47)



1. An ophthalmic mounting comprising a strap having a countersunk screw hole and a recess in its outer surface spaced from the screw hole, a screw inserted in said hole, a locking member having a portion convexed to fill the countersink in the strap and perforated for the passage of the screw and also a projecting shank having an intermediate arch and a detent shaped to enter the said recess and hold the member in place without tension, the arrangement of said convexed portion, detent and recess with respect to the countersink being such that said locking member may be fitted into its interlocking position by substantially straight line movement, and a soldered connection between the screw head and said locking member.

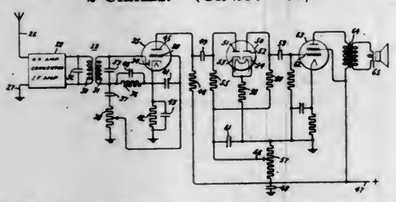
2,324,274
TRACK SANDER
Wayne A. Baldwin, Watertown, N. Y., assignor to The New York Air Brake Company, a corporation of New Jersey
Application October 5, 1942, Serial No. 460,878
7 Claims. (Cl. 291—3)

1. The combination of a sanding trap having a sanding air connection and a cleanout air connection; an impulse valve rendered effective by development of pressure in the sanding air connection to deliver a timed pressure impulse therefrom to the cleanout air connection; a local reservoir; and a second valve mechanism subject to pressure in the sanding air connection and serving when the sanding connection is under pressure to charge said reservoir therefrom, and



serving in response to dissipation of such pressure to connect said reservoir with the cleanout air connection.

2,324,275
ELECTRIC TRANSLATING CIRCUIT
Stewart Becker, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application June 23, 1938, Serial No. 215,427
2 Claims. (Cl. 250—20)



1. A static eliminator having, in combination with a receiving system, a condenser connected with the receiving system, a tube having a cathode and an anode and connected with the condenser so that signals received by the receiving system shall be transmitted through the condenser and the tube in the direction from the cathode towards the anode for a positive half wave and from the anode towards the cathode for a negative half wave, a potentiometer, means for connecting the positive terminal of the potentiometer to the anode, means for connecting the negative terminal of the potentiometer to the cathode, and means for adjusting the potentiometer to maintain the anode positive with respect to the cathode to a degree less than the voltage corresponding to the static to be eliminated from the signals.

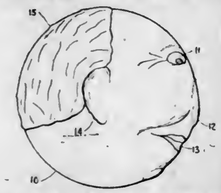
2,324,276
MATCH BOOK HOLDER
Benjamin L. Brooks, Lynchburg, Va.
Application April 17, 1940, Serial No. 330,178
2 Claims. (Cl. 206—29)

1. Match book holder comprising a flat back member having a forwardly extending channel for supporting the base of a match book, a forwardly extending band adapted to encompass the match book above said base supporting channel, said band having a forwardly extending flange functioning as a fire guard, the front of said holder being formed with an opening between said base supporting channel and said encompassing band adapted to register with the striking surface of the match book, said opening being characterized by the absence of structure



at its ends in the plane of the striking surface of the match book, which might impede the freedom of the striking stroke of the match, said back member being provided with forwardly extending penetrating lugs near its top adapted to impale the match book and inhibit tilting movement of the same.

2,324,277
PLAYING BALL
Thomas W. Casey, Fairlawn, and Albert E. Sidnell, Akron, Ohio, assignors to Seiberling Latex Products Company, Barberton, Ohio, a corporation of Ohio
Application May 9, 1939, Serial No. 272,572
1 Claim. (Cl. 273—58)

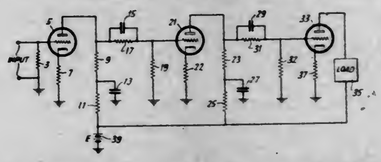


A playing ball of the character described, comprising a hollow tightly inflated sphere of flexible vulcanized rubber or the like, the walls of said sphere having irregular design features projecting slightly therefrom in accordance with any predetermined irregular design, said design features merging smoothly with the general contour of said sphere, and the walls of said sphere being relatively thin but of substantially uniform thickness throughout, the projecting features of the design being capable of flexing and flattening out within the area of contact of the rubber wall of the ball when it strikes a surface, as when bounced, so that the rebound of the ball will be substantially that of a true sphere.

2,324,278
RUBBER HYDROCHLORIDE COMPOSITION
James P. Chittum and George E. Hulse, Passaic, N. J., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application January 24, 1940, Serial No. 315,328
10 Claims. (Cl. 260—735)

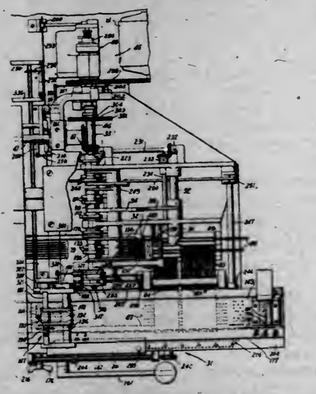
1. A pellicle comprising a rubber hydrochloride composition containing a C-alkyl substituted piperazine, in which the alkyl radical contains from 1 to 2 carbon atoms, and in a small amount sufficient to retard the photochemical disintegration of the rubber hydrochloride.

2,324,279
AMPLIFIER
Robert W. Clark, Teaneck, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application November 29, 1941, Serial No. 420,961
7 Claims. (Cl. 179—171)



1. An amplifier comprising a plurality of thermionic tubes, each tube having at least a cathode, a control electrode and an anode, a single source of direct current potential, two serially connected resistors connected between the anode of one of said tubes and the positive terminal of said source, a condenser connected between the junction point of said serially connected resistors and a common point of potential with respect to said positive terminal, a parallelly connected resistor and condenser coupling the said anode to the grid of another of said plurality of tubes, means including a resistor connected between the negative terminal of said source of potential and said grid to maintain proper bias on said grid, a resistor connected between said common point and the cathode of said other tube, an anode circuit connected between said positive terminal and the anode of said other tube and means to supply signals to the grid-cathode circuit of said first-named tube.

2,324,280
CONTROL STRIP COMPOSING MACHINE
Howard D. Colman, Rockford, Ill., assignor to Barber-Colman Company, Rockford, Ill., a corporation of Illinois
Application January 15, 1940, Serial No. 313,851
81 Claims. (Cl. 164—112)



1. In a tabulating mechanism for use in control form composing machines, in combination, a series of elements adapted to be set in different permutational combinations, tabulating apparatus operable to set said elements in a combination effective to designate a predetermined position in a line of composition, and means controlled by said elements for recording a signal on the control form corresponding to the setting of said elements.

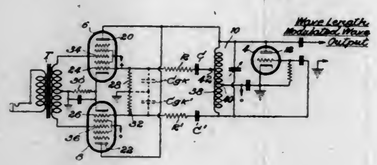
2,324,281
SHOCK ABSORBER STRUT OR OLEO LEG FOR AIRCRAFT
Leonard Eugene Cowey, Kew Gardens, England
Application January 24, 1941, Serial No. 375,730
In Great Britain July 22, 1940
3 Claims. (Cl. 267—64)



1. An aircraft oleo-pneumatic shock absorber strut comprising a compression cylinder for containing oil and air, a fixed piston like member dividing said cylinder into upper and lower compartments, a valve mounted in said fixed piston controlling the flow of oil from one compartment to the other, a piston slidably mounted within the lower compartment, a tubular piston rod pivotally attached to said piston, a valve located within the lower end of said tubular piston rod for the introduction of oil and air to the upper compartment and a tube carrying said oil and air admission valve extending longitudinally of said piston rod and through said sliding and fixed pistons into said upper compartment, said tube being open at its upper end and carried by said sliding piston.

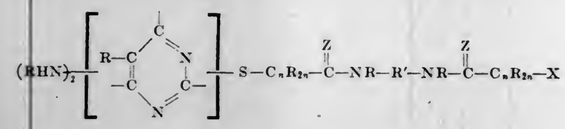
2,324,282
WAVE LENGTH MODULATION
Murray G. Crosby, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application May 8, 1941, Serial No. 392,421
2 Claims. (Cl. 179—171.5)

1. In a wave length modulation system, a tuned circuit including inductance wherein high frequency wave energy the wave length of which is to be modulated flows, a pair of tubes each having an anode, a cathode and a control grid electrode, means coupling the anodes of said tubes to one end of said inductance, a connection between the cathodes of said tubes and a point on said inductance, phase shifting elements coupling the control grid of one of said tubes to a point intermediate the ends of said inductance, similar phase shifting elements coupling the control grid of the other of said tubes to one end of said inductance, and means for modulating the impedances of said tubes in phase opposition in accordance with signal.



2,324,283
DIAZINE DERIVATIVES
Gaetano F. D'Alelio, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
No Drawing. Application February 28, 1942, Serial No. 432,895
16 Claims. (Cl. 260—251)

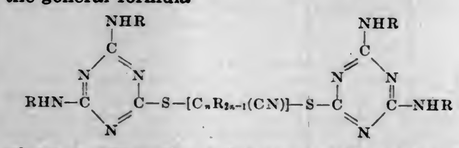
1. Chemical compounds corresponding to the general formula



where n represents an integer and is at least 1 and not more than 2, Z represents a member of the class consisting of oxygen and sulfur, R represents a member of the class consisting of hydrogen and monovalent hydrocarbon and halohydrocarbon radicals, R′ represents a member of the class consisting of divalent hydrocarbon and halo-hydrocarbon radicals, and X represents a halogen atom.

2,324,284
REACTION PRODUCT OF ALDEHYDES AND BIS-(DIAMINO TRIAZINYL) CYANOALKYLENE DISULPHIDES
Gaetano F. D'Alelio and James W. Underwood, Pittsfield, Mass., assignors to General Electric Company, a corporation of New York
No Drawing. Application March 17, 1942, Serial No. 435,040
20 Claims. (Cl. 260—42)

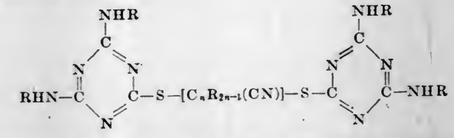
1. A composition of matter comprising the reaction product of ingredients comprising (1) an aldehyde and (2) a compound corresponding to the general formula



where n represents an integer and is at least 1 and not more than 2, and R represents a member of the class consisting of hydrogen and monovalent hydrocarbon and halohydrocarbon radicals.

2,324,285
TRIAZINE DERIVATIVES
Gaetano F. D'Alelio and James W. Underwood, Pittsfield, Mass., assignors to General Electric Company, a corporation of New York
No Drawing. Application March 17, 1942, Serial No. 435,041
11 Claims. (Cl. 260—248)

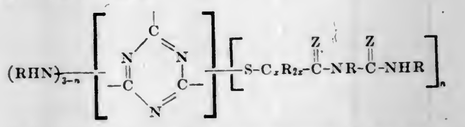
1. Chemical compounds corresponding to the general formula



where n is an integer and is at least 1 and not more than 2, and R represents a member of the class consisting of hydrogen and monovalent hydrocarbon and halo-hydrocarbon radicals.

2,324,286
TRIAZINE DERIVATIVES
Gaetano F. D'Alelio, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
No Drawing. Application March 31, 1942, Serial No. 436,955
15 Claims. (Cl. 260—248)

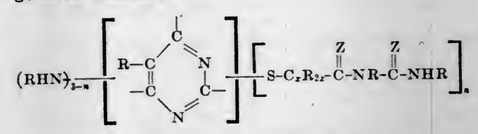
1. Chemical compounds corresponding to the general formula



where n represents an integer and is at least 1 and not more than 3, x is an integer and is at least 1 and not more than 2, Z represents a member of the class consisting of oxygen and sulfur, and R represents a member of the class consisting of hydrogen and monovalent hydrocarbon and halo-hydrocarbon radicals.

2,324,287
DIAZINE DERIVATIVES
Gaetano F. D'Alelio, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
No Drawing. Application April 7, 1942, Serial No. 437,943
16 Claims. (Cl. 260—251)

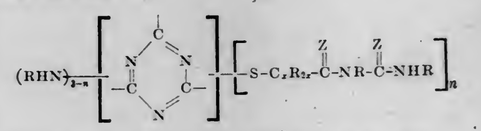
1. Chemical compounds corresponding to the general formula



where n represents an integer and is at least 1 and not more than 3, x is an integer and is at least 1 and not more than 2, Z represents a member of the class consisting of oxygen and sulfur, and R represents a member of the class consisting of hydrogen and monovalent hydrocarbon and halo-hydrocarbon radicals.

2,324,288
REACTION PRODUCT OF ALDEHYDES AND TRIAZINE DERIVATIVES
Gaetano F. D'Alelio, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
No Drawing. Application April 17, 1942, Serial No. 439,390
20 Claims. (Cl. 260—42)

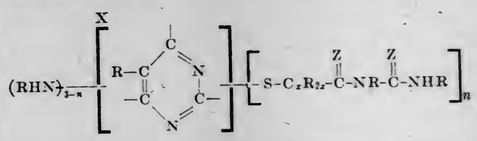
1. A composition of matter comprising the reaction product of ingredients comprising an aldehyde and a compound corresponding to the general formula



where n represents an integer and is at least 1 and not more than 3, x is an integer and is at least 1 and not more than 2, Z represents a member of the class consisting of oxygen and sulfur, and R represents a member of the class consisting of hydrogen and monovalent hydrocarbon and halo-hydrocarbon radicals.

2,324,289
REACTION PRODUCT OF ALDEHYDES AND DIAZINE DERIVATIVES
Gaetano F. D'Alelio, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
No Drawing. Application May 1, 1942, Serial No. 441,372
20 Claims. (Cl. 260—42)

1. A composition of matter comprising the reaction product of ingredients comprising an aldehyde and a compound corresponding to the general formula

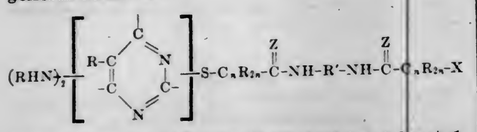


where n represents an integer and is at least 1 and not more than 3, x is an integer and is at least 1 and not more than 2, Z represents a member of the class consisting of oxygen and sulfur, and R represents a member of the class consisting of hydrogen and monovalent hydrocarbon and halo-hydrocarbon radicals.

2,324,290
REACTION PRODUCT OF ALDEHYDES AND DIAZINE DERIVATIVES
Gaetano F. D'Alelio, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
No Drawing. Application August 5, 1942, Serial No. 453,717
20 Claims. (Cl. 260—42)

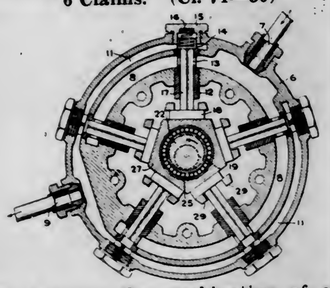
1. A composition of matter comprising the product of reaction of ingredients comprising an

aldehyde and a compound corresponding to the general formula



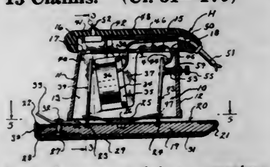
where n represents an integer and is at least 1 and not more than 2, Z represents a member of the class consisting of oxygen and sulfur, R represents a member of the class consisting of hydrogen and monovalent hydrocarbon and halo-hydrocarbon radicals, R′ represents a member of the class consisting of divalent hydrocarbon and halo-hydrocarbon radicals, and X represents a halogen atom.

2,324,291
PUMP
Parker Dodge, Chevy Chase, Md., assignor to Hydraulic Controls, Inc., a corporation of Illinois
Application June 15, 1942, Serial No. 447,143
6 Claims. (Cl. 74—50)



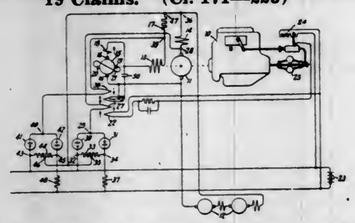
1. In a pump, the combination of a rotary shaft; an eccentric on said shaft; a block swiveled on the eccentric and having a plane thrust face parallel with the axis of the shaft; a cylinder mounted with its axis substantially radial to said shaft; a plunger working in said cylinder and having a thrust head on its end in coactive relation with the plane surface on said block; means for maintaining the plunger and block in coactive relation; and means independent of the plunger for holding the block against rotation while permiting it to revolve about the axis of the shaft.

2,324,292
HAND SANDER
Albert J. Dremel, Racine, Wis.
Application September 22, 1941, Serial No. 411,875
15 Claims. (Cl. 51—170)



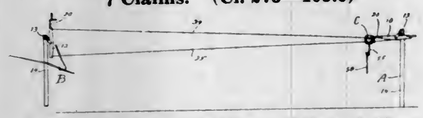
1. A hand sander comprising a casing, a sanding block mounted below the casing, a pair of spaced swinging plates arranged in the casing, said block having seats for the lower ends of the plates, spring means connecting the upper ends of the plates to the casing, at least one of said plates constituting an armature, and an alternating electro-magnet arranged in the casing for attracting said mentioned plate, said magnet having its front face disposed at an acute angle to the normal inactive position of said last mentioned plate and at an acute angle to the block.

2,324,293
POWER SYSTEM
Martin A. Edwards, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application March 26, 1942, Serial No. 436,259
19 Claims. (Cl. 171—223)



1. An excitation system for a dynamo-electric machine in a power system including a field exciting winding, dynamo-electric means arranged to energize said field exciting winding, and means for varying the energization provided by said dynamo-electric means to regulate the power output of the dynamo-electric machine to a value such that said power output together with the losses of said power system and said machine is a substantially constant value within a given range of current and voltage variations below a predetermined electric current, said dynamo-electric means including means for varying the energization of said dynamo-electric machine field exciting winding for limiting the electric current of said dynamo-electric machine to a predetermined maximum value.

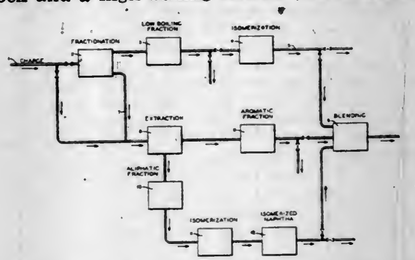
2,324,294
TARGET APPARATUS
Sherman W. Frazier and James B. Hendrix, Washington, D. C.
Application April 3, 1941, Serial No. 386,736
7 Claims. (Cl. 273—105.6)



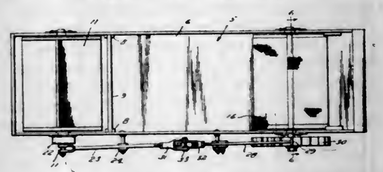
1. In a target apparatus, a firing station, and a target station, a vertically swinging lever at each station, a pair of track wires connecting like ends of the levers to extend in diverging relation from one lever to the other upon swinging of the levers, a carrier movable along the track wires, and buffer means on each lever and each buffer means embodying a slotted stop arm embracing the track wires when the carrier engages the stop arm for preventing lateral swaying of the carrier.

2,324,295
MANUFACTURE OF ANTIKNOCK MOTOR FUELS
Arthur R. Goldsby and Eugene E. Sensel, Beacon, N. Y., assignors, by mesne assignments, to The Texas Company, New York, N. Y., a corporation of Delaware
Application December 28, 1939, Serial No. 311,304
11 Claims. (Cl. 196—78)

1. A process involving catalytic isomerization, for improving the antiknock properties of naphtha of relatively low antiknock value and normally containing constituents of the class of unsaturates and aromatics which cause deterioration of the catalyst, which comprises separating the naphtha into a low boiling fraction having an end point below the boiling range of at least the major portion of the aromatics in the stock and a high boiling fraction, solvent refining the high boiling fraction to remove constituents which cause deterioration of an aluminum chloride isomerization catalyst, subjecting the treated high boiling fraction under isomerizing conditions with said isomerization catalyst and blending the isomerized high boiling fraction with the low boiling fraction.



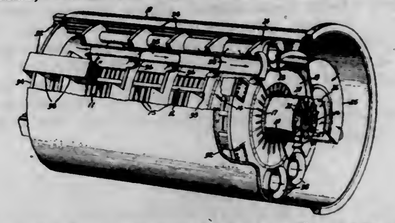
2,324,296
FISH SCREEN
Calvin N. Greer, Payson, Ariz.
Application December 10, 1941, Serial No. 422,448
1 Claim. (Cl. 210—173)



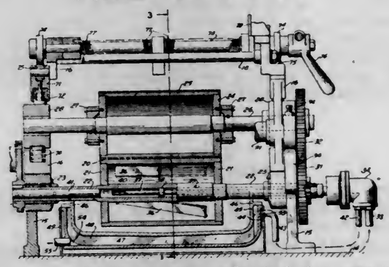
A fish screen of the character described comprising a trough-like structure, a paddle wheel mounted in one end of the trough-like structure, a rotary screen mounted in the other end portion of the trough-like structure, an overflow wall in the trough-like structure adjacent the paddle wheel and inwardly thereof to establish a high overflow level in the trough, and operative connections between the paddle wheel and the rotary screen comprising a ratchet wheel fast on one end of said screen, a driving pawl for the ratchet wheel, a crank fast on one end of said paddle wheel, and rod connections between said crank and said pawl.

2,324,297
DYNAMOELECTRIC MACHINE
Lloyd P. Grobel, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application January 29, 1942, Serial No. 428,732
11 Claims. (Cl. 171—252)

1. An enclosed dynamo-electric machine having a stationary member with a core and a rotatable member, outwardly extending ventilating passages through said stationary member core, means adjacent an end of said machine for circulating ventilating medium through said ventilating passages, means including a plurality of circumferentially extending walls for forming a plurality of adjacent ventilating mediums chambers arranged about said stationary member core into which the ventilating medium passes, means arranged between adjacent pairs of said walls for providing for the passage of ventilating medium therebetween at a substantially uniform pressure therethrough.

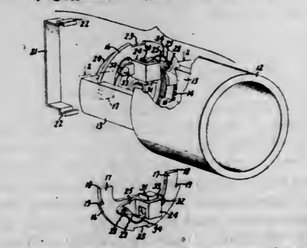


2,324,298
PRINTING PRESS
William F. Grupe, Lyndhurst, N. J., assignor, by mesne assignments, to Interchemical Corporation, New York, N. Y., a corporation of Ohio
Original application December 10, 1938, Serial No. 244,888. Divided and this application October 29, 1941, Serial No. 416,947
2 Claims. (Cl. 101—157)



1. In a printing press adapted for use with marking materials which are liquid when heated and solid when cooled, the combination of a hollow cylinder, a hollow shaft extending into and axially through said cylinder, a tube disposed concentrically within said hollow shaft, means sealing said shaft around said tube at a point spaced from the ends of said cylinder, and apertures in said shaft on both sides of such sealing means, whereby a liquid circulating path into and out of said cylinder is provided.

2,324,299
BRUSH RIGGING
Leroy Haifley and Lawrence F. Hemphill, Fort Wayne, Ind., assignors to General Electric Company, a corporation of New York
Application October 14, 1942, Serial No. 461,963
7 Claims. (Cl. 171—324)



1. A dynamo-electric machine member support-

ing structure including a pair of mounting elements having arcuate grooves therein with the outer ends of the pair of grooves formed on a shorter chord than other points thereon, and a slightly flexible supporting member having arcuate end portions arranged in engagement with said grooves and constructed complementary to a portion of said arcuate grooves with the outer ends of said arcuate end portions formed on a longer chord than the chord between the outer ends of said grooves.

2,324,300

SULPHONATION PROCESS

Mortimer T. Harvey, East Orange, N. J., assignor to The Harvel Corporation, a corporation of New Jersey

No Drawing. Application September 1, 1939, Serial No. 293,057

2 Claims. (Cl. 260—512)

2. The method of making a sulphonic acid from a phenol having an unsaturated hydrocarbon substituent on the nucleus thereof which said phenol has the characteristic of polymerizing in the presence of sulphuric acid by interaction at the hydroxyl group of one molecule and at the unsaturated bond of the hydrocarbon substituent of another molecule, which comprises first rendering one of said positions unreactive to polymerization in the presence of sulphuric acid by satisfying said unsaturated bond with material selected from the group consisting of hydrogen and phenols having no unsaturated substituents on the nucleus, and then sulphonating.

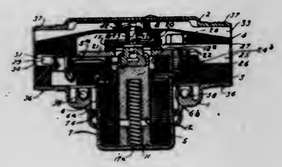
2,324,301

SHIELDED RELAY

Ralph M. Heintz, Cleveland, Ohio, assignor to Jack & Heintz, Inc., Bedford, Ohio, a corporation of Ohio

Application June 5, 1942, Serial No. 445,993

8 Claims. (Cl. 200—87)



1. In a shielded relay, an electromagnetic operating mechanism associated with fixed and movable contacts, an insulating body carrying said mechanism and contacts, a metallic housing shell enclosing said body, a complementary insulating body adapted for union with said first body to cover said mechanism and contacts, and a complementary metallic housing shell enclosing said complementary insulating body and adapted for union with said first mentioned housing shell, each of said insulating bodies having semi-cylindrical extensions thereon forming cylindrical extensions when said bodies are united, terminal connections on the extensions of said first insulating body, and said housing shells having complementary semi-cylindrical threaded extensions thereon enclosing said cylindrical extensions and providing means of attachment for conduit ends carrying cables to said terminals.

2,324,302

STABLE-COLORED CRYSTALLINE ALKALI METAL HYPOCHLORITE - CONTAINING COMPOSITION

Harry H. Hull, Chicago Heights, Ill., assignor to The Diversey Corporation, a corporation of Illinois

No Drawing. Application May 31, 1940, Serial No. 338,232

4 Claims. (Cl. 252—99)

2. The method of coloring a trisodium phosphate-sodium hypochlorite complex which comprises introducing a small amount of an alkali metal permanganate into an aqueous solution consisting essentially of water, trisodium phosphate and sodium hypochlorite in proportions to form a trisodium phosphate-sodium hypochlorite compound containing not more than approximately 5% available chlorine, and crystallizing the complex from such solution.

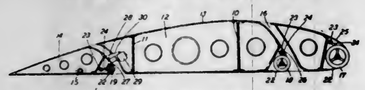
2,324,303

AIRPLANE ANTIICING CONSTRUCTION

Clarence L. Johnson, Encino, Calif., assignor to Lockheed Aircraft Corporation, Burbank, Calif.

Application February 25, 1941, Serial No. 380,520

8 Claims. (Cl. 244—134)



1. Anti-icing means for the leading edge of aerofoils, including slots therein, comprising a drum having a portion of its periphery exposed as a component of the surface defining said leading edge, means for rotating said drum to continuously expose fresh surfaces thereof to the air flow over said leading edge, a scraper blade forming part of the surface of said leading edge, said blade being arranged to scrape accumulated ice and slush from the surface of said drum, and means adapted to supply anti-icing fluid to the surface of said drum to facilitate the removal of ice therefrom.

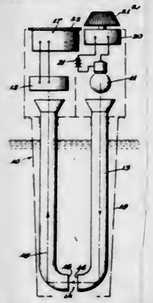
2,324,304

TURBIDITY METER

Jacob Katzman, New York, N. Y.

Application August 24, 1939, Serial No. 291,695

2 Claims. (Cl. 88—14)



1. A turbidity meter for testing the turbidity of a liquid, said meter comprising a light sensitive medium and a light source; a light conducting member having one end adjacent said light source and the other end immersible in said liquid for guiding the light emitted therefrom through a predetermined amount of a liquid while said liquid remains in a container, and a similar member spaced by said predetermined amount from said first member for guiding the said light from said liquid to said light sensitive medium; said members being substantially parallel to and co-extensive with each other; said light source and said light sensitive medium being disposed at corresponding ends of said members; the ends of said members defining said predetermined amount of liquid being remote from said light source and said light sensitive medium, and being insertable into said liquid while said light source and light sensitive medium remain above the level of said liquid; and means operable by said light sensitive medium for determining the intensity of the emerging light; said last mentioned means being arranged to directly indicate the turbidity of said liquid.

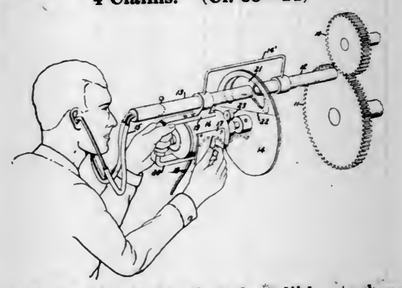
2,324,305

SOUND STROBOSCOPE

Lowell M. Kurtz, Scotia, N. Y., assignor to General Electric Company, a corporation of New York

Application January 30, 1941, Serial No. 376,605

4 Claims. (Cl. 88—14)



1. A combined visual and audible stroboscope apparatus comprising a sound communicating channel and a visual communicating channel adapted for simultaneous audible and visual investigation of the same object, and means for simultaneously and intermittently interrupting both of said channels, the periods of interruption being large as compared to the periods of non-interruption and means for varying the rate of such simultaneous interruptions.

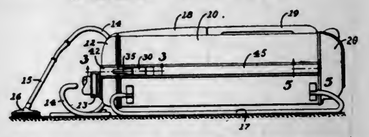
2,324,306

VACUUM CLEANER

Robert C. Lampe, Springdale, Conn., assignor to Electrolux Corporation, Dover, Del., a corporation of Delaware

Application July 25, 1941, Serial No. 403,970

2 Claims. (Cl. 15—16)



1. A vacuum cleaner housing adapted to be pulled around on the floor, said housing comprising a hollow member having an opening therein, a removable cover member therefor, bumper means attached to the side of the housing and formed with a recess adjacent to said opening, and a toggle latch mounted on one of said members and adapted to engage a catch member on the other of said members, said latch being so mounted on said one of said members that when locked it lies substantially entirely within the recess formed in said bumper means.

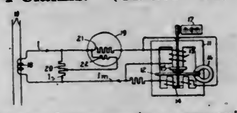
2,324,307

AMPERE-HOUR METER

Edward E. Lynch, Easthampton, Mass., assignor to General Electric Company, a corporation of New York

Application October 23, 1942, Serial No. 463,025

4 Claims. (Cl. 171—34)



1. An ampere hour meter comprising an induction meter having a rotatable armature of conducting material, a pair of electromagnets producing out-of-phase fluxes in said armature and a torque thereon proportional to the product of the fluxes of said electromagnets, connections for energizing said electromagnets from an alternating current circuit, a resistance means connected across said connections for shunting current from said meter and regulating means responsive to the amount of current flowing in the alternating current circuit for varying the relative current distribution between said meter and resistance means, such that the product of the fluxes of said electromagnets is proportional to the first power of the current of the alternating current circuit.

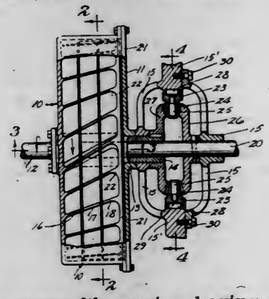
2,324,308

HYDRAULIC TRANSMISSION MECHANISM

Oscar V. Malmquist, Minneapolis, Minn.

Application March 20, 1941, Serial No. 384,308

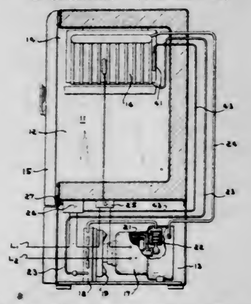
1 Claim. (Cl. 74—189.5)



A rotary drum-like casing having circumferentially spaced blades acting as a primary impeller wheel, a second blade-equipped wheel rotatively mounted in said casing and operating as a turbine wheel proper, and a third blade-equipped wheel mounted in said casing for independent rotation and operative as a reaction wheel, said three wheels being co-axially mounted, side by side, and having approximately the same diameter and having their blades all oblique in the same direction in respect to their respective planes of rotation, the blades of said wheels having a lateral fluid impelling action in a direction at right angles to the axis of rotation, a differential gear mechanism connected between said reaction wheel and said turbine wheel, a power delivery shaft connected to said casing for rotating the same and its impeller acting blades, a power take-off shaft connected to said turbine wheel proper and extended axially from said casing, said reaction wheel having a sleeve-like hub rotatively mounted on said power take-off shaft and extended from said casing, a differential gear mechanism including reversely facing bevel gears and an interposed

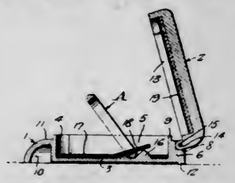
pinion-equipped brake ring, one of said bevel gears being connected to said power take-off shaft and the other to the hub of said reaction wheel, a fixed annular bearing in which said pinion-equipped ring is rotatively mounted, and means interposed between said ring and its annular bearing constructed and operating to permit free rotation of said pinion-equipped ring in one direction only.

2,324,309
REFRIGERATION APPARATUS
Graham S. McCloy, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 6, 1942, Serial No. 453,763
5 Claims. (Cl. 62—4)



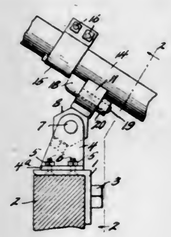
1. In refrigeration apparatus, the combination of a refrigerator cabinet having a food-storage compartment provided with an access opening therein, a door movable for opening and closing the access opening, a cooling element for refrigerating the air in said food-storage compartment, refrigerating apparatus for normally maintaining said cooling element at an average temperature below the freezing point of water, at which temperature it collects frost from the moisture in said air and means responsive to the opening and closing of said door a predetermined plurality of times to modify the operation of said refrigerating apparatus to permit the temperature of said cooling element to rise above the freezing point of water.

2,324,310
JEWELRY CASE
Henry P. McGovern, Marlboro, Mass., assignor to Dennison Manufacturing Company, Framingham, Mass., a corporation of Massachusetts
Application March 4, 1941, Serial No. 381,720
3 Claims. (Cl. 206—76)



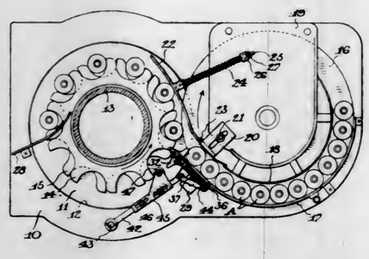
1. A case comprising a body, a cover for the body, cam faced bearing means within the body, spring means including a face cooperating with the cam faced bearing means to receive a ring like article between to set up a gripping engagement at spaced points on the ring's perimeter to urge the article to a raised display position, said cam faced bearing means and spring means acting to hold the article in its display position when the cover is open, and said article in its display position being arranged in the path of the cover for the latter to move said article to a lowered position against the action of said spring means when the cover is closed, whereby upon opening the cover the article is automatically raised to its display position.

2,324,311
OARLOCK FOR SCULLING
Garland McKelvey, Annapolis, Md.
Application April 20, 1942, Serial No. 439,752
6 Claims. (Cl. 9—26)



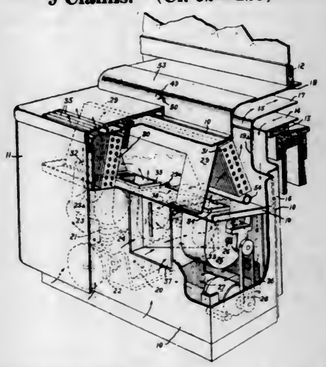
1. An oarlock for sculling comprising an oar rest mounted for universal movement, said oar rest having a hole therein, and a pin detachably mounted upon an oar and extending substantially parallel thereto, said pin being oscillatable within the hole in the oar rest.

2,324,312
BOTTLE FEEDING MECHANISM
George J. Meyer, Charles Steckling, Jr., and Joseph F. Classen, Milwaukee, Wis., assignors to Geo. J. Meyer Manufacturing Company, Cudahy, Wis., a corporation of Wisconsin
Application February 20, 1941, Serial No. 379,806
7 Claims. (Cl. 198—22)



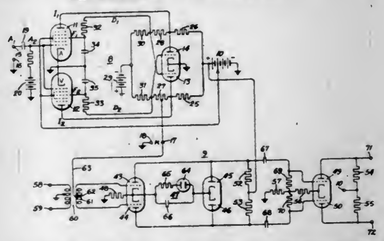
1. Article feeding apparatus comprising means for conducting a succession of articles in a path, a rotatable star wheel arranged adjacent to said path and having article-engaging arms extending successively into said path, means for intermittently restraining the rotation of said star wheel, driving means for intermittently rotating said star wheel in feeding direction to impel the successive articles, and reciprocatory actuating means for said restraining and driving means and including a return spring for rotating said star wheel in article-impelling direction and for limiting the impelling pressure on the articles.

2,324,313
AIR CONDITIONING APPARATUS
Robert H. Meyerhans, West Caldwell, N. J., assignor to General Electric Company, a corporation of New York
Application August 14, 1940, Serial No. 352,535
9 Claims. (Cl. 62—129)



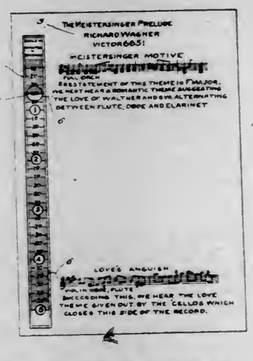
1. An apparatus for conditioning the air within a room comprising a casing having two inlets one for fresh air and the other for room air and two outlets one for discharging air into the room and the other for discharging air to the outside, said casing having a chamber therein provided with two air inlets and two air outlets, means for connecting said inlets and said outlets of said chamber respectively with said inlets and said outlets of said casing, means for producing a circulation of air from said inlets of said casing through said chamber to said outlets of said casing, and damper means arranged in said chamber for selectively connecting said inlets thereof to said outlets thereof to vary from substantially all fresh air to substantially all recirculated air, the proportions of fresh and recirculated air discharged into the room through said one outlet of said casing.

2,324,314
ELECTRONIC SWITCH
Philip C. Michel, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application November 13, 1941, Serial No. 419,035
11 Claims. (Cl. 250—27)



1. An electronic switch with negligible switching transients comprising a pair of electric discharge devices each having an anode, a cathode and a control electrode connected in push-pull relationship, a cathode degenerative resistor, a regulated voltage impedance, a pair of rectifying devices, load circuit connections for energizing the anode-cathode circuits of the discharge devices and connections for applying a variable control bias to the control electrodes of the discharge devices and for applying input signal voltage to the control electrodes with opposite polarities, the regulated voltage impedance being connected in series with one of the rectifying devices between the anode and cathode of one of the electric discharge devices and being connected in series with the other of said rectifying devices between the anode and cathode of the other of said electric discharge devices, the regulated voltage impedance being selected to have such a voltage in combination with the voltage drop of the rectifying devices as to hold the potential of the cathodes of the discharge devices up to a point just above that required for non-conduction in the discharge devices with the control bias maintained at its lowermost potential value.

2,324,315
THEME FINDER
William Otto Miessner, Lawrence, Kans.
Original application November 26, 1938, Serial No. 242,467. Divided and this application February 12, 1941, Serial No. 378,586
2 Claims. (Cl. 283—1)

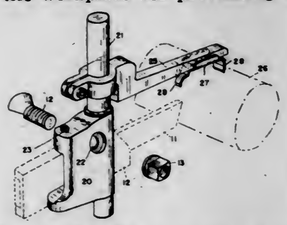


1. As a new article of manufacture, a chart operable when simultaneously and selectively subjected to the effect of front illumination and of rear illumination constituted of sheet material sufficiently opaque to render matter appearing thereon readily discernible when subjected to front illumination but being sufficiently translucent to indicate the presence of an indicating light beam projected onto the back side thereof on a portion of other matter appearing thereon, said last-named matter including a substantially vertical scale on one of the marginal portions of said chart, and said first-named matter including legible intelligence pertaining to a sound record and lead lines correlating portions of said intelligence to portions of said scale whereby the rear-illuminated matter will automatically indicate portions of the front-illuminated matter pertaining thereto.

2,324,316
CUTTING-OFF TOOL
Theodore A. Milutin, Dearborn, Mich.
Application August 1, 1941, Serial No. 405,065
2 Claims. (Cl. 82—35)

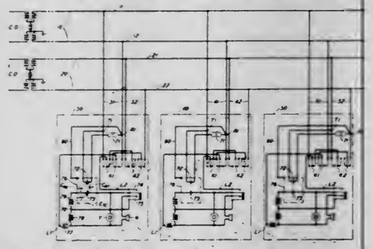
1. In combination with a cutting-off tool, means adapted to be fixed thereto and consisting of a body portion provided with a recess for receiving a portion of said tool, said body having an arm arranged to extend in fixed parallel relation to the tool and to extend over and bear upon

the workpiece, means interposed between said arm and the workpiece for preventing the pas-



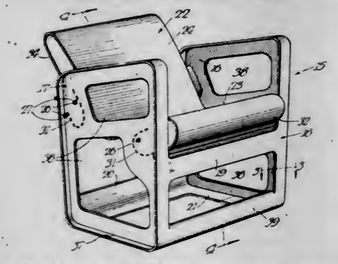
sage of chips under said arm, and means to fix said arm against movement relative to the tool.

2,324,317
TELEPHONE SYSTEM
Charles M. Morris, East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application March 27, 1942, Serial No. 436,440
6 Claims. (Cl. 179—31)



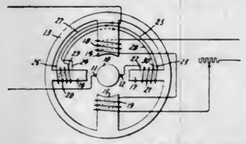
1. A subscriber's telephone set comprising, in combination, a speech transmitting and receiving circuit and a signal circuit, a metal container, a condenser included in said speech circuit and housed in said container, a condenser included in said signal circuit and housed in said container, said condensers being so separated from each other and from the container that the capacity between said first condenser and said container equals the direct capacity between the condensers, and a connection from said container to a terminal of said signal circuit whereby the internal capacity between said second condenser and said container is effectively connected across the terminals of the signaling circuit.

2,324,318
ARTICLE FORMED FROM RELATIVELY THIN RESILIENT SHEETS
Charles William Niedringhaus, Chicago, Ill., assignor to School of Design, Chicago, Ill., a corporation of Illinois
Application May 13, 1940, Serial No. 334,867
5 Claims. (Cl. 155—119)



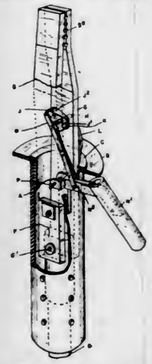
1. In a chair, a supporting frame, a relatively thin, stiff sheet of flexible material supported on the frame and bent to form the seat and back of the chair, the sheet at the top of the back folding back on itself and extending downwardly in parallel spaced relationship and terminating substantially midway between the seat and the top of the back, means for mounting the free end of the sheet at the back of the chair and substantially midway between the seat and the top of the back, the back being adapted to pivot forward and backward about the mounting means, and means for mounting the front portion of the sheet on the frame adjacent to the front of the chair, the seat having vertical movement when the back is pivoting forward and backward.

2,324,319
DYNAMOELECTRIC MACHINE
Harry S. Page, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application August 13, 1942, Serial No. 454,633
7 Claims. (Cl. 171—312)



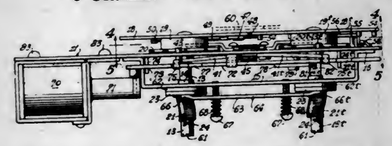
1. A dynamo-electric machine having a rotatable member and a stationary member, main pole pieces on said stationary member, commutating pole pieces arranged intermediate said main pole pieces, commutating field exciting windings on said commutating pole pieces, means including conductors for connecting said commutating field exciting windings together and to a source of electrical power supply extending about both transverse sides of said main pole pieces with a conductor connecting together portions of said commutating field exciting windings on different pole pieces and arranged about one of the transverse sides of said main pole pieces for providing a net part-turn component of series excitation to said main pole pieces.

2,324,320
ELECTRODE HOLDER
Morton A. Pelton, Detroit, Mich.
Application November 29, 1941, Serial No. 420,985
5 Claims. (Cl. 219—8)



5. In an electrode holder, in combination with a laterally apertured tubular sleeve member of non-conducting material, means located therewithin for effecting the anchorage of an inserted cable end, a manually operable trigger member pivotally anchored at one end within said sleeve member with its manually engageable handle portion located externally of said aperture in initial position of non-parallelism to the longitudinal axis of said tubular sleeve, a pair of electrode-engaging jaws located in substantially parallel relation partly within and partly externally of said sleeve member said jaws being pivotally and electrically connected at their inner ends with said cable anchorage means, spring means for normally urging the free ends of said jaw members into contact with one another at their outer ends, a tapered angle lever positioned between said jaw members and adapted to force the same away from one another for the insertion of an electrode between them, and a link member operatively connecting said operating trigger member and said tapered angle lever.

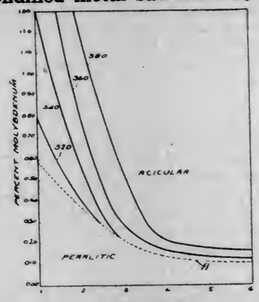
2,324,321
REGISTER RESETTING MECHANISM
William G. Peters, Chicago, Ill., assignor to Richard Groetchen, doing business as Groetchen Tool & Mfg. Co., Chicago, Ill.
Application May 24, 1941, Serial No. 395,066
6 Claims. (Cl. 235—144)



1. In a step-up mechanism comprising a base plate, a rotatable unit mounted on the plate and including a disc having equally spaced detents in the region of its circumferential edge, stop means adapted to limit rotative movement of said unit in one direction, means for advancing said unit in steps in an opposite direction, latch means engageable with said unit to latch the same in advanced position, the combination of an adjustable return means for said unit and including a coil spring and a floating anchor for the same, means for tensioning said anchor in a relatively stationary position with respect to said unit, said spring arranged with its free end attached to said unit and adapted to be tensioned by the stepping action of the unit, said floating anchor being arranged to move when the tensile strength of said spring is greater than the action of the tensioning means, and escapement means pivotally arranged on said plate in the region of said equally spaced pins on said disc, spring means arranged to dispose the escapement in an initial position with a portion thereof in the path of movement of said detent means, and a segmental section of said escapement adapted to assume a blocking position in the path of movement of said detents when one of the latter engages the aforementioned portion of the escapement.

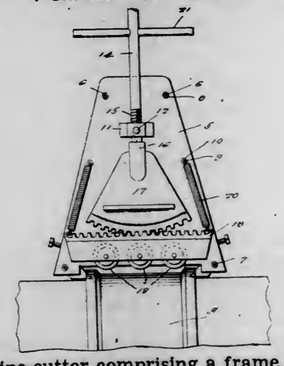
2,324,322
HIGH QUALITY CAST IRON
Donald James Reese, Elizabeth, N. J., and Richard Aloysius Flinn, Jr., Cambridge, Mass., assignors to The International Nickel Company, Inc., New York, N. Y., a corporation of Delaware
Application June 17, 1940, Serial No. 340,882
In Canada May 30, 1940
12 Claims. (Cl. 148—3)

1. In the method of producing high quality cast iron comprising 1.5% to 3.4% total carbon, of which 0.4% to 1% is in the non-graphitic form, 1% to 4.75% silicon, 6% to 1% nickel, 1.5% to 0.2% molybdenum, and the balance substantially all iron, the step which comprises subjecting the solidified metal substantially in the "as



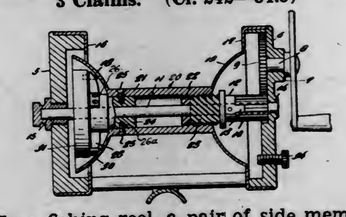
cast" condition to a low temperature heat treatment within the range of about 800° F. to 350° F. for about 1 to 100 hours, whereby austenite in the microstructure is transformed to an acicular constituent, thereby imparting improved strength to the cast iron.

2,324,323
PIPE COUPLING CUTTER
Irenius C. Reynolds, Oak Grove, La.
Application October 14, 1942, Serial No. 462,038
7 Claims. (Cl. 30—92)



1. A pipe cutter comprising a frame, a reciprocatory cutter, a rockable member for actuating the cutter, and hand means for actuating the rockable member.

2,324,324
CASTING REEL
Frank I. Rutledge, Pittsburgh, Pa.
Application June 19, 1941, Serial No. 398,820
3 Claims. (Cl. 242—84.5)



1. In a fishing reel, a pair of side members, a

shaft supported at its ends by the side members, a spool rotatably mounted on the shaft, a worm on the shaft, said spool being internally threaded for mesh with the worm, a brake element, and spring means between the spool and the shaft arranged to rotate the spool when not under the effect of a line pull in a direction to cause the spool to ride the worm and move into contact with the brake element to have its action snubbed by friction with the brake element.

2,324,325

SURFACED CEMENT FIBER PRODUCT

Charles H. Schuh, Ridgewood, N. Y., assignor, by mesne assignments, to Carbide and Carbon Chemicals Corporation, New York, N. Y., a corporation of New York

Application April 29, 1939, Serial No. 270,798
10 Claims. (Cl. 154—45.9)



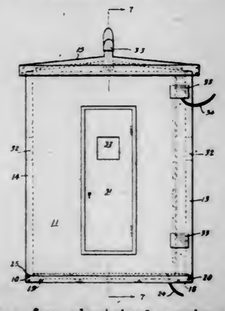
1. A compressed stratiform product comprising three superposed adjacently different functional strata; one of said strata being of greater thickness and of lower density than either of the other two and having a moisture absorption of less than about 25% by weight when immersed in water for twenty-four hours; at least two of said strata comprising cement particles and water-repellent substance; one of said cementitious strata having the greatest thickness and including fiber in an amount more than about 20% but not exceeding about 23% by weight and water-repellent substance in an amount not exceeding about 4% by weight of the composition of said stratum, the balance being substantially cementitious material; and the other of said cementitious strata being immediately adjacent said stratum of greatest thickness and including fiber in an amount not exceeding about 5% and water-repellent substance in an amount more than about 4% but not exceeding about 6% by weight, the balance substantially being cementitious material.

2,324,326

SECTIONALIZED CONCRETE HOUSE

Bernard J. Schwendt, Fort Thomas, Ky.

Application October 12, 1939, Serial No. 299,122
2 Claims. (Cl. 72—1)



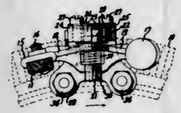
2. A house for electrical equipment comprising, in combination, pre-cast concrete base enclosing means, pre-cast concrete wall enclosing means, said concrete enclosing means being made of "low slump" concrete and vibrated to produce a dense concrete which materially avoids the absorption of water and reduces the dampness upon the electrical equipment, means for securing and sealing the concrete enclosure means together, and top enclosing means for enclosing the concrete enclosing means.

2,324,327

DYNAMOELECTRIC MACHINE BRUSH RIGGING

Paul B. Shaffer, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York

Application October 23, 1942, Serial No. 463,089
11 Claims. (Cl. 171—323)



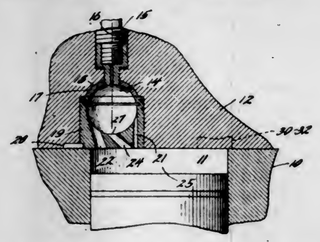
2. A brush rigging for an electrical contact member of a bodily rotatable dynamo-electric machine including a brush holder having two arms extending substantially transversely of the axis of rotation of said machine, one of said arms being formed to hold an electrical contact brush element, and a pivot support having an axis substantially at right angles to the axis of rotation of said dynamo-electric machine and to said arms and being arranged to support said brush holder arms with substantially equal moments for each of said arms about a point substantially on the axis of said support due to centrifugal force acting on said arms by the rotation of said machine.

2,324,328

COMBUSTION CHAMBER

Richard H. Sheppard, Hanover, Pa.

Application November 1, 1941, Serial No. 417,532
5 Claims. (Cl. 123—32)



2. An insert element for a Diesel engine consisting of a one-piece body having: a fuel receiving chamber therein, two end surfaces adapted to engage the engine block and the cylinder head respectively whereby expansion by the body when heated tends to force the head and block apart, and a relief groove generally parallel to the plane of engagement of the engine block and cylinder head; such construction permitting the body to be made exactly the same length as the hole into which it fits so as to avoid the building up of carbon deposits which occurs if allowance for expansion is made.

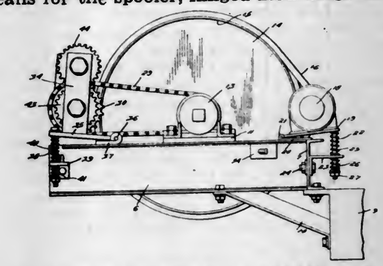
2,324,329

MOTOR DRIVEN CABLE REEL

John R. Shoffner, Kittanning, Pa.

Application January 22, 1941, Serial No. 375,493
11 Claims. (Cl. 242—158)

1. A motor driven cable reel comprising a support for the reel, a motor, drive means between the motor and reel for rotating the reel to wind a cable thereon, a spooler for the cable, drive means for the spooler, hinged mountings for the



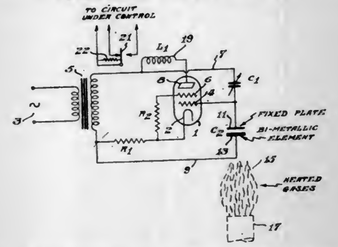
motor and the spooler and yieldable supporting means for the mountings.

2,324,330

FIRE CONTROL APPARATUS

Perry C. Smith, Brookline, Mass., assignor to Radio Corporation of America, a corporation of Delaware

Application July 20, 1940, Serial No. 346,484
10 Claims. (Cl. 158—28)



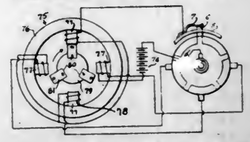
1. In flame responsive apparatus, the combination of an amplifier comprising an electron discharge device including a pair of bridge arms in the input circuit thereof, variable means in one of said arms associated with the flame and responsive to temperature changes induced thereby, and a relay in the output circuit of said device associated with the fuel supply to said flame for controlling the supply of fuel to said flame, a predetermined temperature change resulting from said flame causing a variation in said variable means sufficient to alter the balance of said bridge arms whereby to actuate said relay to alter the fuel supply to said flame.

2,324,331

REMOTE CONTROL APPARATUS

Edward M. Sorensen, Dayton, Ohio, assignor to The Soren Corporation, Dayton, Ohio, a corporation of Delaware

Application December 20, 1940, Serial No. 370,986
1 Claim. (Cl. 172—239)



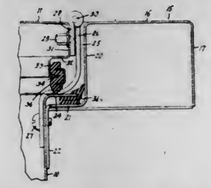
A remote control system comprising transmitting and receiving positions, a circuit including a source of electromotive force at the transmitting position, a rotary switch for making and breaking said circuit and for transmitting to the receiving position impulses in synchronism with the rotation of the switch, said switch having rotatable and stationary members, said stationary members including a ring and a plurality of spring pressed radially movable contacts equidistantly spaced around said ring, each of said members being provided with equi-distantly spaced terminals which are adapted to contact one another, the number of terminals on the rotatable member being different from the number of terminals on the stationary member whereby the terminals contact in sequence as the rotatable member is rotated, a plurality of electromagnets at the receiving position, said electromagnets being connected respectively to said stationary contact members at the transmitting position, a multi-pole rotor rotatably mounted with respect to said electromagnets, the number of electromagnets and the number of terminals on said stationary member being the same, and the number of poles of said rotor and the terminals of the rotatable member both being of a different number than the number of said electromagnets, and a source of electromotive force at the transmitting position for energizing said rotary switch whereby current impulses are transmitted to the electromagnets in a sequence depending on the direction of rotation of the rotary switch at the transmitting station and whereby the rotor at the receiving station is caused to rotate.

2,324,332

SEALING MEANS

Edgar S. Stoddard, Berwyn, Ill., assignor to Edison General Electric Appliance Company, Inc., Chicago, Ill., a corporation of New York

Application July 23, 1942, Serial No. 452,008
3 Claims. (Cl. 220—81)



1. In apparatus comprising a vat having an upright wall and a flange extending therefrom, a support for said vat having a supporting wall and a flange extending at an angle thereto and also positioned opposite said first flange, and means for sealing said flanges comprising a sealing member provided with a body portion fitted to the outer edge of said flange on said vat, a resilient portion attached to said body portion having flexible arms defining a normally open V-shaped section, the arms of said section however being interposed between and compressed together by the two flanges, and said sealing member further being provided with a resilient arm joined to said body portion and having its outer edge yieldingly compressed against said supporting wall.

2,324,333

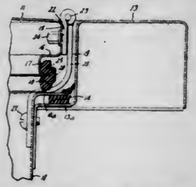
COVER SEALING MEANS

Edgar S. Stoddard, Berwyn, Ill., assignor to Edison General Electric Appliance Company, Inc., Chicago, Ill., a corporation of New York

Application August 4, 1942, Serial No. 453,538
5 Claims. (Cl. 220—46)

1. Washing apparatus and the like comprising a vat provided with an opening therein, a cover

for said opening provided with a peripheral flange, a sealing member having a body portion that is grooved to receive said flange, and is further provided with spaced-apart grooves opposite said first-named groove and said flange, a relatively rigid retainer provided with sections en-



tering said spaced-apart grooves to secure said body portion to said flange, and said body portion having a resilient section engaging a part of said vat adjacent said opening when the cover is closed so as to effect a substantially fluid-tight seal between said cover and vat.

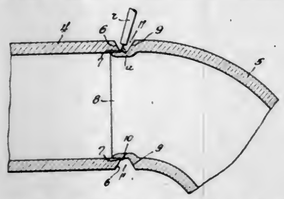
2,324,334
PERSONAL HEIGHT GAUGE
John C. Sutton, Rockford, Ill., assignor to The Brearley Company, Rockford, Ill., a corporation of Illinois
Application November 26, 1941, Serial No. 420,447
8 Claims. (Cl. 33—169)



1. A personal height measuring device comprising, in combination, an elongated support disposed substantially vertically on a wall or other support and having two rows of height graduations vertically arranged thereon, one row of graduations being in a lower height range and the other row of graduations being in a higher height range, and a slidable member on said support slidable vertically with respect thereto up or down with respect to the floor or other support on which the person to be measured will stand and having an outwardly extending feeler for contact with the head of the person being measured, and also having two vertically spaced means movable with the slidable member relative to the graduations to indicate directly the height of the person measured, the lower one of said means cooperating with the higher height range of graduations, and the upper one of said means cooperating with the lower height range of graduations.

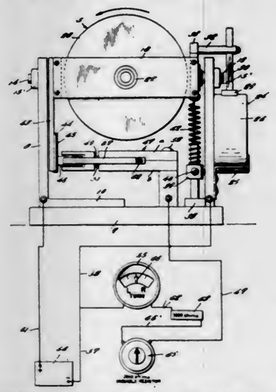
2,324,335
PIPE JOINT
Edward Hall Taylor, Chicago, Ill.
Application December 20, 1940, Serial No. 370,999
1 Claim. (Cl. 285—111)

As a new article of manufacture, a pipe fitting comprising a tubular wall presenting an annular end surface adapted to be joined by welding with the end of a conventional pipe of uniform interior diameter having at its end an annular welding surface complementary to said annular welding surface of said fitting, the end of said fitting being provided with an annular lip offset inwardly relative to said wall a distance equal to the thickness thereof, said lip being of uniform exterior diameter substantially the same as the interior diameter of the pipe and being adapted for insertion into the pipe end while remaining free therefrom for independent expansion and contraction during the welding operation, said lip having an exterior circumferential bead of



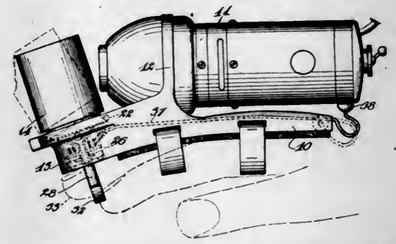
relatively slight mass at about its midlength spaced from the inner edge of said annular welding surface and from the outer end of said lip, the latter and said bead cooperating with the pipe end to position said fitting relative to the pipe end and to space the inner edge of the end welding surface of said fitting from the inner edge of the complementary end welding surface of the pipe end a distance materially greater than the thickness of said bead, thereby providing a wide-bottomed welding trough between the end welding surfaces of the pipe end and the fitting during the welding operation and providing a dam for preventing entrance of welding material into the interior of the joined fitting and pipe end.

2,324,336
INDICATING APPARATUS
George A. Thompson, Dravosburg, Pa.
Application February 17, 1940, Serial No. 319,531
3 Claims. (Cl. 201—48)



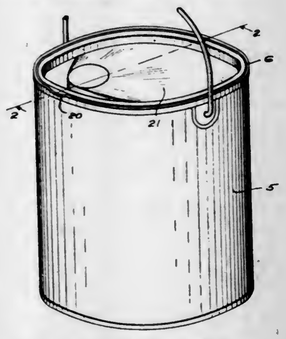
1. A resistor comprising a support, a carrier, pivotal connecting means between the carrier and the supporting means, a resistance element disposed on the carrier and means for damping the action of the carrier, a contactor in wiping relation with the resistance, said damping means consisting of a container having an open top, a paddle depending into the receptacle, a volume of fluid in the receptacle into which a portion of the paddle is disposed, and an arm responsive to the action of the carrier and to which the paddle is secured.

2,324,337
MASSAGING APPLIANCE
Eli H. Tjomsland, Ridgefield Park, N. J.
Application May 29, 1941, Serial No. 395,871
2 Claims. (Cl. 128—65)



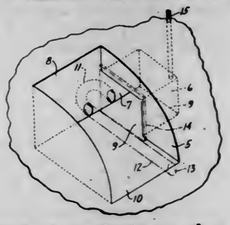
1. The combination with a massage appliance adapted for support on the operator's hand and having an inverted liquid container detachably connected to said appliance; of dispensing means for said container comprising a top for the container, a crown spacedly surmounting said stop, the latter and the crown having registering perforations, a valve having a limited play between the perforations and seating one or the other according to the inverted or upright position of the container, a downward conduit from the perforated portion of the crown, and a flexible delivery tube extending from the conduit to a position between the fingers of the hand, the delivery tube terminating with receptacles for said fingers.

2,324,338
POURING CAN
Newell R. Tripp, Joplin, Mo.
Application July 31, 1941, Serial No. 404,899
4 Claims. (Cl. 221—11)



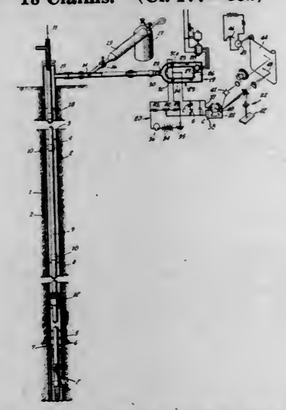
1. A pouring can adapted for containing viscous substances, said can comprising a baffle plate secured therein at its open end, and having a flat raised area adjacent one edge of the can, and a partially severed tongue in the surface of the raised area adapted to be bent upwardly into an inclined position with respect to said surface to provide a restricted opening therein and having a substantially straight free edge adapted to utilize surface tension in its contact with the substance when the latter is poured outwardly through the opening.

2,324,339
HOME FOR WILD LIFE
Sheen Mayor Vanbussum, Henderson, Ky.
Application February 20, 1943, Serial No. 476,521
1 Claim. (Cl. 119—15)



The method of producing a den for wild life comprising the steps of making an excavation of substantially rectangular outline in an inclining or sloping portion of the earth's surface, such as the bank of a stream, a mound or a hillside, excavating a cave-like chamber in one wall of the first excavation, forming a U-shaped tunnel to connect the back walls of the two excavations, closing the opening between the two excavations with any suitable material, such as wood, brick, stone or concrete to enclose the chamber, extending the U-shaped tunnel through the first excavation and beyond the sloping surface to form an entrance and a passageway to the chamber, and then filling in the first excavation with earth so as to enclose everything except the entrance to the tunnel.

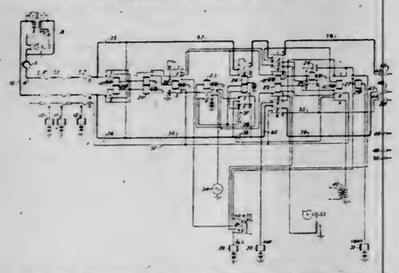
2,324,340
DETECTOR FOR PRESSURE WAVE TRANSLATION SYSTEMS
Cranford P. Walker, San Marino, and Edward E. Simmons, Pasadena, Calif.; said Simmons assignor to said Walker
Application February 8, 1941, Serial No. 377,978
18 Claims. (Cl. 177—352)



7. In a system for detecting and observing echoes of a pressure impulse from various obstructions in an oil well, a pair of devices responsive to fluid velocity for translating changes in velocity to changes in electric current, an annular chamber having an opening exposed to the gas pressure in the casing of the well, said velocity responsive devices being disposed in said annular chamber in spaced relation to each other about the annulus and on opposite sides of the opening to the well gas, a blower in said annular chamber for creating a circulating velocity of

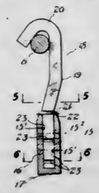
said gas past said devices at a velocity in excess of the velocity change imparted to the gas by the pressure waves to be observed, an electric motor disposed wholly within said chamber for driving said blower, means coupled to said devices and responsive to the sum of the current changes produced by each of said devices for observably registering the same.

2,324,341
TELEPHONE SYSTEM
Lee R. Waller, Montreal, Quebec, Canada, assignor to Western Electric Company, Incorporated, New York, N. Y. a corporation of New York
Application August 30, 1941, Serial No. 408,911
9 Claims. (Cl. 179—18)



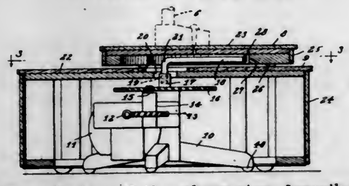
1. In an automatic switching telephone office, subscribers' stations having dials therein connected by lines to said office, a switching system connected to said lines including connector switches, means including switching and transmission circuits in said connector switches for selecting switchbank line terminals responsive to dial pulses from a calling subscriber station, a code signaling circuit for a subscriber station connected to said switchbank line terminals, means in said connector circuit and said code signaling circuit responsive to the selection of terminals connected to said code signaling circuit to form a circuit in said connector and code signaling circuit for causing the flow of alternating current responsive to further manipulation of the dial in the calling subscriber's station, and means in said code signaling circuit responsive to said flow of alternating current for ringing the bell in the associated subscriber's station in any code created by the operations of said dial.

2,324,342
ANODE
Holley G. Wellman, East Cleveland, Ohio, assignor to The Wellman Bronze and Aluminum Company, Cleveland, Ohio, a corporation of Ohio
Application January 6, 1941, Serial No. 373,202
2 Claims. (Cl. 204—286)



1. An anode for electroplating comprising a supporting member and a body member depending therefrom, said members being comprised of different alloys and having cooperatinig portions secured together and forming a joint therebetween, the alloys of which the members are comprised being such as, in combination with the plating bath, to maintain deleterious electrolytic action at the joint tending to weaken the supporting member, and means for preventing plating bath drip from above the joint contacting the latter consisting of an imperforate collar surrounding said joint and overhanging the body member at the joint, said collar having a downwardly sloped upper surface whose drip edge is extended throughout its periphery exteriorly of and free from contact with the portions of said members forming said joint, and said collar inwardly of its drip edge having sealing engagement in an unbroken and endless band with said supporting and body members.

2,324,343
ADVERTISING OR DISPLAY DEVICE
Russell F. Wharton, Rockford, Ill.
Application May 26, 1941, Serial No. 395,141
15 Claims. (Cl. 40—126)

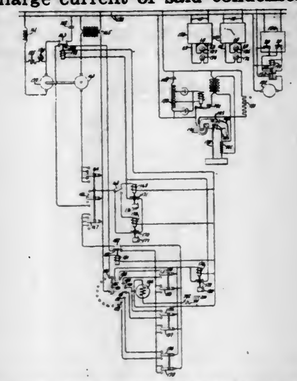


1. In a device of the character described, the combination of a flat topped support, a platform resting upon the support and movable freely on the top surface thereof in any direction, means providing a cam-shaped recess on the under side of said platform, drive means under said support, and a platform actuating arm revolved thereby above the support in a plane substantially parallel to the top surface thereof, said arm being disposed for substantially its full radial length within the cam-shaped recess and adapted to have sliding contact with first one side and then another of the recess at various points in circumferentially spaced relation with respect thereto, whereby to move the platform intermittently and in an irregular manner, the platform being gradually turned about its own axis in the course of its intermittent movements.

2,324,344
CARRIER CURRENT APPARATUS
John L. Woodworth, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application November 28, 1941, Serial No. 420,851
15 Claims. (Cl. 172—239)

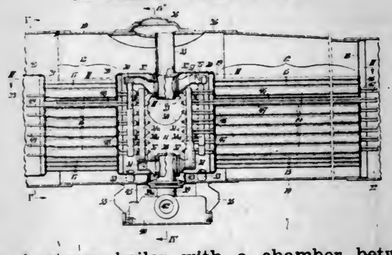
10. In combination, an inductive device operable by alternating current of predetermined frequency, two condensers serially connected across said device, each of said condensers being resonant at said predetermined frequency with the inductance of said device, a source of alternating voltage of said predetermined frequency, means for impressing alternating voltage from said source across one of said condensers, means for impressing across said second condenser alternating voltage from said source of opposite phase to that impressed across said first condenser, said two voltage impressing means being effective when separately operated to impress voltage across one of said condensers and to energize said device in series resonance with the other condenser, and effective when simultaneously operated to deenergize said device, and means for

protecting said voltage impressing means from the discharge current of said condensers which



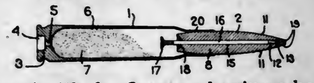
flows through said means when both said means are operated.

2,324,345
STEAM BOILER
Charles D. Young, Haverford, and Frederick W. Hankins, Philadelphia, Pa.
Application September 22, 1941, Serial No. 411,774
14 Claims. (Cl. 122—461)



1. A steam boiler with a chamber between separate fire tube sections; and with a duplex superheater including an inflow header and an outflow header both disposed within the chamber aforesaid in the path of the combustion gases and respectively having an inlet for the wet steam from the boiler and an outlet for the superheated dry steam, and return bend steam tubes extendng in different directions into individual fire tubes of the respective separate sections of the boiler with their ends connected to said inflow and outflow headers for divided flow of the steam through the superheater.

2,324,346
PROJECTILE FOR FIREARMS
George Norman Albree, Winchester, Mass.
Application September 5, 1941, Serial No. 409,648
14 Claims. (Cl. 102—50)



11. A projectile for firearms having a body provided with an axial bore extending therethrough, a stem having a pointed end slidable in said bore and free to move from a retracted position in which its pointed end is located within said bore and is thus protected to an operative position in which said pointed end projects beyond the body and forms the tip portion of the projectile nose, the rear end of the stem being exposed to receive the pressure developed within the gun when the latter is fired.

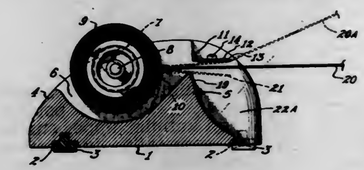
2,324,347
PRESERVATION OF PERFUMES
Carl N. Andersen, Wellesley, Mass., assignor to Lever Brothers Company, a corporation of Maine
No Drawing. Application July 9, 1942, Serial No. 450,293
2 Claims. (Cl. 167—94)

2. A perfume composition comprising essentially perfume and a relatively small amount of a substantially pure solid compound added thereto for inhibiting undesirable changes in odor and loss of fragrance in perfume, said compound being selected from the group consisting of aliphatic and alicyclic compounds composed of carbon, hydrogen and oxygen and containing an ene-diol group.

2,324,348
PRESERVATION OF SOAPS AND PERFUMES
Carl N. Andersen, Wellesley Hills, Mass., assignor to Lever Brothers Company, a corporation of Maine
No Drawing. Application May 28, 1938, Serial No. 210,779
1 Claim. (Cl. 252—367)

In a process for manufacturing perfumed toilet and laundry soaps in solid form, the steps which comprise adding a small amount of pure crystalline ascorbic acid to perfume subject to deterioration by oxidation, and intimately admixing the ascorbic acid treated perfume with a solid soap to be perfumed, whereby the original character of the perfume in the soap is preserved for a long time and the development of undesirable odors in the soap and the perfume is inhibited.

2,324,349
TAPE DISPENSER
Walter W. Atkins, Erlanger, Ky., assignor to The Gummed Products Company, Troy, Ohio, a corporation of Ohio
Application May 11, 1942, Serial No. 442,483
1 Claim. (Cl. 164—84.5)

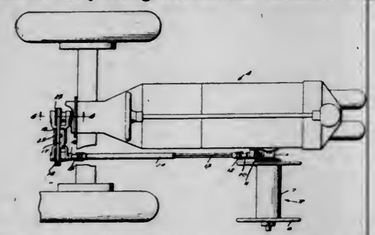


A pressure-sensitive tape dispenser comprising means for supporting a roll of tape to be dispensed, constructed and arranged so that tape from a roll may be withdrawn in a substantially horizontal plane, a cut-off knife mounted above the plane of withdrawal of tape, and a support extending below the plane of withdrawal of the tape, the support being positioned intermediate the cut-off knife and the roll of tape, said cut-off knife provided with guarding means to prevent contact of the fingers with the sharpened edge of the knife.

2,324,350
WIRE WINDING AND UNWINDING ATTACHMENT FOR TRACTORS
Melvin H. Baal, Ellsworth, Minn.
Application February 10, 1941, Serial No. 378,280
2 Claims. (Cl. 254—166)

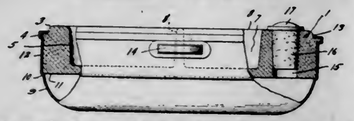
1. An attachment for a tractor comprising a take-off shaft extending from its rear end, a sleeve fitting over the take-off shaft and having

a hole therein, a pulley on the sleeve, a bolt passing through the pulley and through the hole and engaging the take-off shaft, a member having a fork at one end, the prongs of which have bearing openings therein through which the sleeve passes with the pulley arranged between the prongs, a second member having prongs at one end thereof, a stub shaft journaled in the prongs of the second member, a pulley carried by the stub shaft, a belt passing over the pulleys, means for adjusting the second member longitu-



dinally on the first member to tension the belt, a bracket connected to a side part of the tractor, an outwardly extending horizontally arranged shaft carried by the bracket, a reel rotatably arranged on the shaft, a bevel gear rotatably arranged on the shaft for driving the reel, a second stub shaft rotatably supported by the bracket, a bevel pinion on the front end of the second stub shaft engaging with the gear, a telescoping shaft and universal joints connecting the ends of the telescoping shaft with the stub shafts.

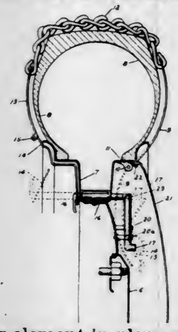
2,324,351
PLATE FOR CONTROLLING TEMPERATURE OF FOOD AND SERVING SAME
Kenneth E. Baker, Fremont, Mich., assignor to Gerber Products Company, Fremont, Mich.
Application November 25, 1938, Serial No. 242,409
2 Claims. (Cl. 65—15)



2. A dish for maintaining food at a desired temperature comprising a body of pottery or like material having an annular upper surface, a side wall and a base, a metallic fluid container attached to the pottery body to form a fluid retaining cavity, an annular ridge on the outside of the pottery body below the upper surface, the upper edge of said metallic fluid container being crimped over the annular ridge so that it lies below the upper surface and forms a tight fit with the pottery body out of normal contact with food during use and serving to maintain the container and pottery body in assembled position, said annular upper surface of the body having a filling opening therethrough adapted to be closed in use.

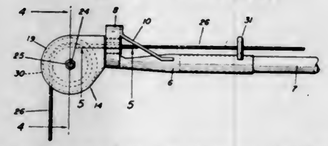
2,324,352
ANTISKID DEVICE
Francis A. Berner, Allison Park, Pa.
Application April 16, 1942, Serial No. 439,172
8 Claims. (Cl. 152—237)

1. The combination with a vehicle wheel, of an antiskid device comprising a holding element having connection with one face of the wheel, an antiskid element connected at one end to said holding element and adapted to lie across the tread of the wheel, a second holding element connected to the other end of the antiskid element, means carried by the wheel and operable from the first-named face of the wheel, for making engagement with and releasably fastening the



second holding element in place at the other face of the wheel, and means on the first-named wheel face for supporting the said three elements grouped in inoperative position at said wheel face.

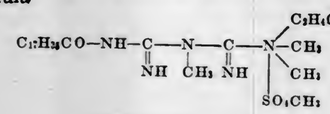
2,324,353
ROLLER TIP FOR FISHING RODS
Calvin W. Berry, San Diego, Calif.
Application February 16, 1942, Serial No. 431,023
5 Claims. (Cl. 43—24)



1. In an apparatus for fishing, the combination of a fishing rod, a housing having an opening therethrough and being secured to the end of said rod, ball bearings mounted within the opening of said housing, a fish line roller casing aligned with said opening, and a hollow shaft forming a fish line passageway and being connected with said casing and journalled within said bearings and operating to revolve therein.

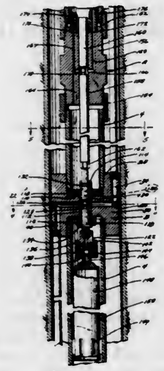
2,324,354
WATER-SOLUBLE HIGH MOLECULAR ACYL-BIGUANIDE
Jakob Bindler and Hans Schläpfer, Basel, Switzerland, assignors to the firm of J. R. Geigy A. G., Basel, Switzerland
No Drawing. Application January 2, 1941, Serial No. 372,904. In Switzerland December 21, 1939
6 Claims. (Cl. 260—401)

4. The high molecular acyl-biguanide of the formula



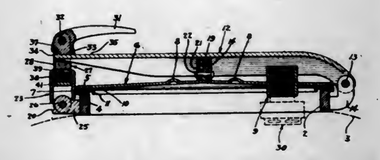
2,324,355
DUAL AUTOMATIC INTERMITTING UNIT
Walter Brauer, Oklahoma City, Okla.
Application June 2, 1941, Serial No. 396,263
10 Claims. (Cl. 103—260)

1. In a pressure fluid lifting apparatus disposed in the eduction tubing of a well, a valve collar interposed in the tubing, a movable inlet valve arranged therein, open ended means movable to sink and float in the liquid being lifted, said means operably cooperating with the valve whereby floating of the means will move the



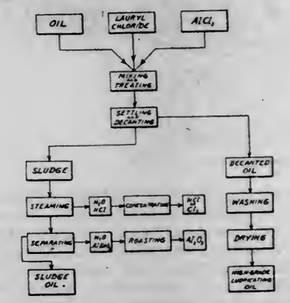
valve to flow inlet pressure fluid therethrough into the eduction tubing for displacing the liquid, and means precluding the flow of liquid from the well until flowing of pressure fluid through the inlet valve.

2,324,356
COVER STRUCTURE
Walter V. Brown, Minneapolis, Minn., assignor to Brown Steel Tank Company, Minneapolis, Minn., a corporation of Minnesota
Application July 11, 1941, Serial No. 402,034
5 Claims. (Cl. 220—55)



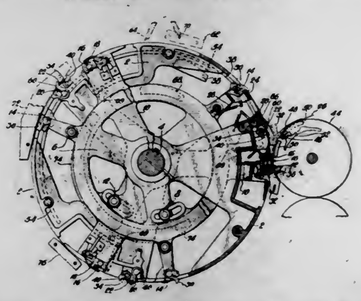
1. A cover structure comprising an annular upright collar adapted to be secured to a tank or other structure to provide an opening therefor, a cover member engageable with the upper portion of said collar for closing the opening therein, an arm having one end pivoted to the collar and overlying the cover, means pivotally connecting the intermediate portion of the arm to the cover whereby the cover may be operated by manipulation of the arm, yieldable means for securing the opposite end of the arm to the collar, thereby to secure the cover in closing engagement with the collar, a box-like member pivoted to the collar and having an upper wall provided with spaced slots, a U-shaped member received in the box-like member and having its legs extending through said slots, a resilient element interposed between said members within the box-like member, and a cam lever pivoted to the projecting ends of the U-shaped member and adapted to engage said arm and thereby force the cover into closing engagement with its seat.

2,324,357
METHOD OF IMPROVING LUBRICATING OIL
Johannes H. Bruun, Swarthmore, and Gilbert E. Goheen, Prospect Park, Pa., assignors to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey
Application August 7, 1942, Serial No. 454,039
6 Claims. (Cl. 196—44)



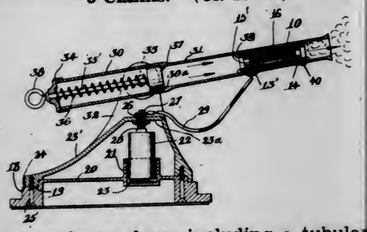
1. The method of improving lubricating oil which comprises adding to the oil to be improved a relatively small amount of a lauryl halide and condensing the resulting mixture in the presence of a catalyst of the Friedel-Crafts type.

2,324,358
BAG MAKING MACHINE
Edwin E. Burroughs, Rockaway Beach, N. Y., assignor to Potdevin Machine Company, Brooklyn, N. Y., a corporation of New York
Application January 21, 1941, Serial No. 375,105
2 Claims. (Cl. 93—14)



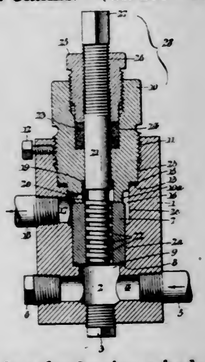
2. In a bag making machine, the combination of a bottoming drum, a shaft therefor, a pair of spiders free on said shaft and attached to said drum by slot and bolt connections whereby the spiders may be adjusted circumferentially of said drum, center grippers carried by said spiders, a second pair of spiders free on said shaft and attached to said drum by a slot and bolt connection whereby they may be adjusted circumferentially of said drum, a pair of opposed rods extending across the face of said drum carried by the last mentioned spiders, side grippers cooperable with said said center grippers, and clamping means for clamping said side grippers to said rods for lateral adjustment along said rods, said center grippers clamping the leading end of bag blanks successively to said drum, the said side grippers clamping the sides of successive bag blanks to the drum, the said adjustability of said center grippers and side grippers accommodating the machine to bag blanks of different bottom lengths and different bottom widths.

2,324,359
ELECTRICALLY OPERATED SMOKE PRODUCER
Edward A. Callan, New York, N. Y.
Application March 19, 1942, Serial No. 435,307
3 Claims. (Cl. 46—9)



1. A smoke producer including a tubular section having insulated inner walls, a heating element disposed concentrically within and along said tubular section, terminal conductors for said heating element penetrating said tubular section for connection to a battery, a porous filler between said heating element and the inner walls of said tubular section to receive fuel for smoking purposes when the heating element is energized, the tubular section being provided with a draft opening to cause the smoke to issue from one end.

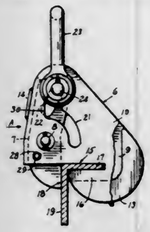
2,324,360
THROTTLE VALVE
Louis A. Camerota, Burlington, N. J., assignor to Florence Pipe Foundry & Machine Company, Florence, N. J., a corporation of New Jersey
Application March 17, 1942, Serial No. 435,050
4 Claims. (Cl. 138—43)



3. A throttle valve having a body with an axial bore extending part way therethrough, and an inlet and an outlet communicating laterally with the bore in spaced transverse planes; a stem having a helix at its inner end to form with the bore in the interval between said inlet and outlet, a spiral throttling passage; and a stuffing box element in which the stem is threadedly engaged for axial adjustment to vary the throttling effect of the valve, said stuffing box closing the open end of the bore and being detachably secured for convenience of removal as a unit with the stem to enable cleaning of the valve without attendant disturbance of the stem adjustment.

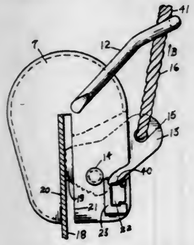
2,324,361
ANGLE IRON CLAMP
Tommie B. Chandler, Compton, Calif.
Application June 13, 1942, Serial No. 446,968
3 Claims. (Cl. 294—104)

3. A lifting device comprising a body having in its lower portion fixed upper and lower jaws at one side of its perpendicular axis defining between them as inwardly opening throat normal to said perpendicular axis for receiving a portion of flanged work, a locking member pivoted intermediate its ends on said body at the opposite side of the perpendicular axis of the latter, and swingable on its said pivot to project its lower portion, in the closed position, normal to the said body jaws and spaced from the throat opening,



the upper portions of said locking member and said body having non-aligned generally upright slots and the slot of the body having a lower angular portion arranged to be crossed by the slot of the locking member during swinging movement of the latter between open and closed positions, and a bail at the upper portion of the body having a pin extending through the slots of the body and locking member.

2,324,362
PLATE CLAMP
Tommie B. Chandler, Compton, Calif.
Application June 13, 1942, Serial No. 446,969
6 Claims. (Cl. 294—104)

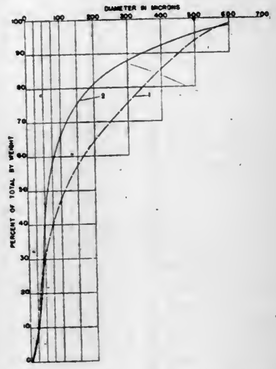


1. A lifting device comprising jaws to be placed at either side of an element to be lifted, a cam pivoted on the device and movable into the space between the jaws to engage work therebetween, and wedging means arranged to maintain contact with the cam and hold the cam in any locked position, within the limits of effective work engaging range of movement of the cam.

2,324,363
AMMONIUM NITRATE EXPLOSIVE
William M. Cobb, Jr., Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
Application April 11, 1939, Serial No. 267,324
18 Claims. (Cl. 52—11)

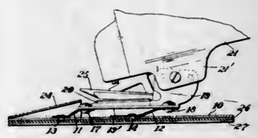
1. A cap sensitive ammonium nitrate blasting explosive of the safety type including as the principal explosive ingredient an intimate admixture comprising essentially ammonium nitrate and a non-explosive carbonaceous sensitizer, the said intimate admixture comprised of particles a major portion of which have a diameter less than

200 microns and characterized by a sensitiveness such that, when unconfined and at a density



greater than 1.1 gm./cc., it may be detonated with a No. 10 blasting cap.

2,324,364
SUPPORTING BASE FOR ELECTRIC SCISSORS
William M. Collins, Santa Monica, Calif., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application February 9, 1942, Serial No. 430,113
5 Claims. (Cl. 30—231)



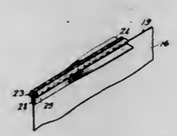
1. A supporting base member for a pair of electric scissors having an upper and lower blade comprising a flat base adapted to rest flat upon a supporting surface and having an upwardly inclined toe-piece which is adapted to receive the front end of the lower blade of said scissors and direct the material to be cut between the blades.

2,324,365
WINDSHIELD SWIPE
Edwin Coutts, Penryn, Calif.
Application January 3, 1942, Serial No. 425,535
1 Claim. (Cl. 15—250)



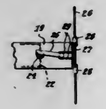
In a device of the character described, a swipe formed from a blank of resilient sheet metal folded longitudinally to provide a bridge and side walls extending from opposite sides of the bridge and constituting blades, said blades having portions extending from the bridge at substantially right angles thereto and merging into transversely arcuate portions terminating at free side edges of the blades, and rubber shoes mounted upon the blades in covering relation to the free edge portions thereof, the free side edges of the shoes being beveled from their inner and outer faces to provide sharpened edges for the shoes.

2,324,366
EDGING FOR HAT SUPPORTS
Louis Creper, Philadelphia, Pa.
Application March 8, 1943, Serial No. 478,361
6 Claims. (Cl. 206—9)



1. In a hat support, a paper sheet having a pair of substantially parallel flaps joined by an integral fold, a strand of substantially parallel fibers covering the fold and in outward spaced relation to the flaps, and a line of stitching passing through the strand and the fold, said stitching perforating the fold and compressing the strand and pivotally securing the strand to the sheet.

2,324,367
ELECTRON DISCHARGE DEVICE
Hampton Jennings Dailey, Bloomfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 30, 1941, Serial No. 412,985
7 Claims. (Cl. 250—27.5)

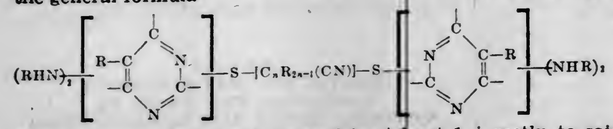


1. An electron discharge device comprising an evacuated envelope having a reentrant stem, a pair of electrode spacers transverse to and above said stem, a pair of supports between opposite parts of each spacer, an anode carried by said supports, a cathode and a grid within the anode and carried by the spacers, and standards attached to said stem and lower spacer, said standards being angularly displaced from the said supports at their respective places of attachment to the said lower spacer, and said standards being electrically insulated from said anode, and from said supports.

2,324,368
REACTION PRODUCT OF ALDEHYDES AND BIS-(DIAMINO DIAZINYL) CYANOALKYLENE DISULPHIDES
Gaetano F. D'Alelio and James W. Underwood, Pittsfield, Mass., assignors to General Electric Company, a corporation of New York
No Drawing. Application March 26, 1942, Serial No. 436,248
20 Claims. (Cl. 260—42)

1. A composition of matter comprising the re-

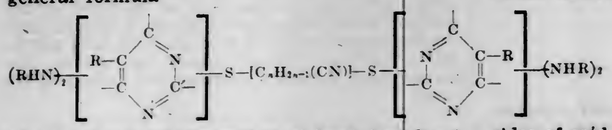
action product of ingredients comprising (1) an aldehyde and (2) a compound corresponding to the general formula



where n represents an integer and is at least 1 and not more than 2, and R represents a member of the class consisting of hydrogen and monovalent hydrocarbon and halohydrocarbon radicals.

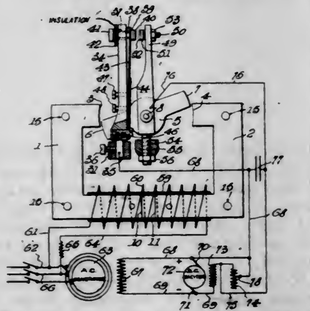
2,324,369
DIAZINE DERIVATIVES
Gaetano F. D'Alelio and James W. Underwood, Pittsfield, Mass., assignors to General Electric Company, a corporation of New York
No Drawing. Application March 26, 1942, Serial No. 436,249
12 Claims. (Cl. 260—251)

1. Chemical compounds corresponding to the general formula



where n is an integer and is at least 1 and not more than 2, and R represents a member of the class consisting of hydrogen and monovalent hydrocarbon and halo-hydrocarbon radicals.

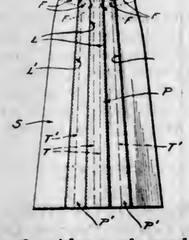
2,324,370
VOLTAGE REGULATOR
Michael Debrey, East Moline, Ill.
Application November 30, 1939, Serial No. 306,961
7 Claims. (Cl. 200—91)



1. In a voltage regulator, the combination of a pivoted member so constructed and mounted as to be oscillated when an alternating magnetic flux is applied directly thereto, an oscillating contact movable with said member and spaced radially outward from its pivot, said member and its contact being dynamically balanced, a relatively stationary but vibratory contact to coact with said oscillatory contact, said contacts being engageable in a vibratory manner, a spring for urging said vibratory contact toward said oscillatory contact, means for limiting the movement of said vibratory contact toward said oscillatory contact under the action of said spring, means to tune said contacts by adjusting said spring, spring means for biasing said member to cause it to assume a definite position for a given flux acting thereon, means to vary the period during which said contacts remain engaged by adjusting said spring means, and means for applying directly to said member an alternating magnetic flux corresponding to that produced by the voltage to be regulated.

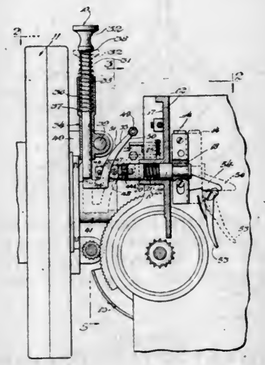
2,324,371
MATERNITY DRESS
Cleo B. Delchert, Beverly Hills, Calif.
Application December 13, 1940, Serial No. 369,934
3 Claims. (Cl. 2—76)

2. A maternity dress comprising a bodice, a skirt connected to the bodice, a center panel at the front of the bodice and skirt coextensive in length therewith, side panels at the front of the bodice and skirt at opposite sides of said center panel, plaits arranged between opposite sides of said front panel and the adjacent parts of the dress, and other plaits arranged between opposite sides of said side panels, and the adjacent parts of the dress, all of said panels and plaits decreasing in width from the bottom of the skirt upwardly to the bodice, whereby enlarging adjustments may be effected and yet the skirt maintained at uniform height at its bottom, and all of said panels and plaits decreasing in width from the bottom of the bodice to the neck thereof, whereby enlarging adjustments of the bust area of the bodice can be made in a reduced ratio to enlarging adjustments of the skirt, and means for securing said plaits in various positions of adjustment while maintaining the panels in the dress.

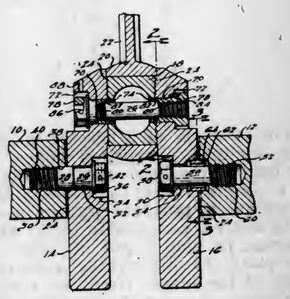


2,324,372
MOTION PICTURE PROJECTOR APPARATUS
Carl Dodegge, Maywood, Ill., assignor to Fred J. Wenzel, Chicago, Ill.
Application May 3, 1941, Serial No. 391,765
18 Claims. (Cl. 88—17)

1. In a motion picture projector, in combination, a head, a supporting member slidably mounted in the said head and adapted to carry a film trap door forwardly of the said head, and means for moving the said supporting member and the said film trap door carried thereby relative to the said head and into open position, said moving means including a manually operable member slidably mounted on the said projector, said manually operable member being manually slidable in a direction substantially perpendicular to the sliding movement of said supporting member to effect operation of said moving means and thereby move said film trap door into open position.

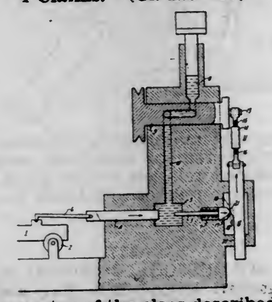


2,324,373
CRANKSHAFT
Julius Dusevoir, Dearborn, Mich., assignor to Century Motors Corporation, Dearborn, Mich., a corporation of Michigan
Application September 1, 1942, Serial No. 456,843
14 Claims. (Cl. 74—598)



1. In a crankshaft, in combination, a pair of main journals, a throw associated with each of said journals, a crank pin of substantially constant diameter throughout interconnecting said throws, each of said throws and its cooperating journal having abutting faces arranged in a plane substantially perpendicular to the axes of said journals, a multiplicity of complemental and interfitted serrations provided on said abutting faces, and removable means securing said throws against axial separation with respect to said journals, said serrations being parallel and extending across said faces from one side thereof to another whereby upon removal of said means said throws may be slid laterally out of engagement with said journals.

2,324,374
APPARATUS FOR DRILLING DIAMONDS AND LIKE PURPOSES
Christopher G. Eden, Rickmansworth, England, assignor to General Electric Company, a corporation of New York
Application March 12, 1942, Serial No. 434,446
In Great Britain March 19, 1941
4 Claims. (Cl. 125—30)



1. In apparatus of the class described, the combination of a driven member, driver mechanism for urging said driven member forward in a given direction and periodically retracting it a short distance, and hydraulic link mechanism connecting said driven member to said driver mechanism and providing means for periodically supplying a constant pressure to the fluid in said link mechanism only when the driven member is in its forward position and the said driver mechanism is at rest so that the driven member is then urged forward by a force determined by the said constant pressure means.

2,324,375
SWIMMING GLOVE
Harry D. Eslick, San Francisco, Calif.
Application September 8, 1942, Serial No. 457,647
2 Claims. (Cl. 9—21)

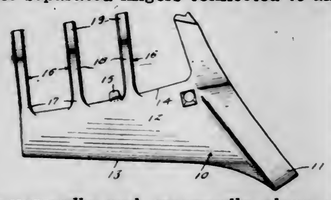


2. In a swimming glove, a palm portion having short finger extensions and a back portion formed without fingers and having one margin thereof tangent with the ends of the finger portions of the palm section and a connecting strip sewed between said palm and said back portion and forming fingers and pockets therebetween.

2,324,376
PEANUT HARVESTER PLOW
Charles A. Finleyson, Rochelle, Ga.
Application March 19, 1942, Serial No. 435,405
1 Claim. (Cl. 55—54)

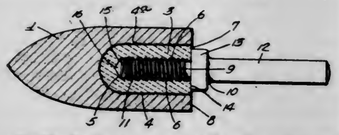
A plowshare for use in harvesting peanuts, the share having a substantially horizontally dis-

posed blade portion, said blade portion at the point side having an upper concave rearwardly extending surface higher than the remainder of the upper surface of the blade portion, a plurality of separated fingers connected to and pro-



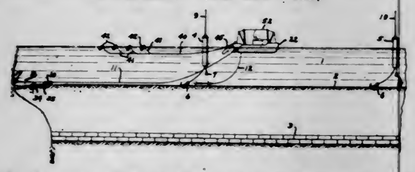
jecting upwardly and rearwardly along reverse curves from the rear of said blade portion, and a foot in spaced relation to the point side depending from the rear of said blade portion.

2,324,377
PORCELAIN BUSHED GRINDING WHEEL
John F. Fischer, Drexel Hill, Pa., assignor to Abrasive Company, Philadelphia, Pa., a corporation of Pennsylvania
Application July 23, 1942, Serial No. 452,041
5 Claims. (Cl. 51—206)



1. A vitrified abrasive grinding implement, and a prefired ceramic insert embedded therein prior to firing of said implement and fused therewith by subsequent firing of said implement.

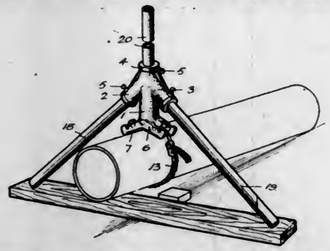
2,324,378
SUBMARINE PROSPECTING
John W. Flude, Houston, Tex.
Application October 20, 1941, Serial No. 415,755
8 Claims. (Cl. 181—0.5)



1. A surveying system for submerged areas comprising signal means for transmitting signals in response to a vibratory disturbance in spaced relation with such means, said signal means being positioned at known locations in the submerging medium, means translatable along a predetermined course in the submerging medium, said last mentioned means including means for creating disturbances in the submerging medium, and means for recording the seismic waves and the waves transmitted from said signal means.

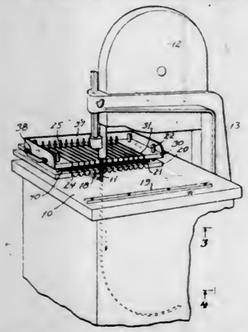
2,324,379
PORTABLE PIPE VISE
Arthur Sydney Foster, Stourport-on-Severn, England
Application September 4, 1940, Serial No. 355,395
In Great Britain September 16, 1939
4 Claims. (Cl. 81—41)

4. A pipe holding and supporting appliance comprising in combination a body part having oppositely and downwardly inclined sockets for receiving legs, a part projecting downwardly from the fork between said sockets, a downwardly-facing saddle on the lower end of said part,



and spaced twin bars extending laterally from said part at each side of the saddle and having means formed on the upper faces thereof to which the opposite ends of a chain girth clamp may be attached.

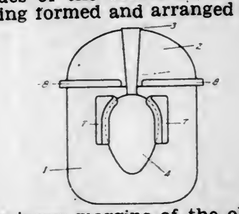
2,324,380
APPARATUS FOR SLITTING PAPER
John Frei, Jr., Chicago, Ill., assignor to The W. S. Gilkey Printing Company, Cleveland, Ohio, a corporation of Ohio
Application April 6, 1942, Serial No. 437,759
10 Claims. (Cl. 164—35)



5. The combination of a slitting blade having teeth with inclined sharpened edges, a table, means for moving the blade downwardly through the table, a guiding rib on the table in alignment with the blade, a portable jig for a stack of sheets to be slitted, comprising upper and under plates adapted to hold a pile of sheets between them, said plates having parallel slots extending transversely of the plates from one edge thereof and terminating short of the opposite edge, mutually coacting means on said plates located beyond the opposite ends of the slotted region for maintaining the slots of one plate in registration with those of the other, and a series of grooves in the underside of the under plate extending in registration with the slots and wider than the slots and adapted to receive the guiding rib on the table, whereby any pair of upper and lower slots may be selected and guided across the blade.

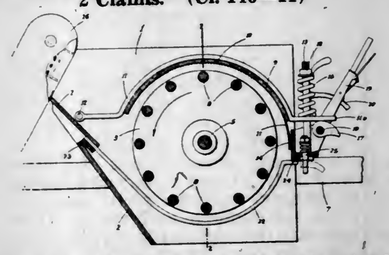
2,324,381
CONTAINER FOR LUNCH KITS
Warren W. Gonder, Washington, D. C., and Robert C. Gonder, Sheridan, Wyo.
Application January 10, 1941, Serial No. 373,860
3 Claims. (Cl. 206—4)

1. In a device of the kind described, a container, a lid for the container having a raised portion thereon, an integrally formed, elongated and resilient locking element of spoon-like shape and including at one end a flat and inwardly tapered portion and at the opposite end a laterally spread, oblong portion having its major axis aligned with the longitudinal axis of the locking element as a whole, the said locking element being adapted to bend down over the lid and the raised portion thereof as mounted on the container and partially down over the opposite sides of the container, a pair of laterally spaced and inwardly flanged catches on each of the said opposite sides of the container, the catches at one side being formed and arranged complemen-



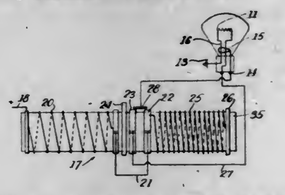
tally to the inner margins of the oblong end of the locking element and adapted to engage the same by slidably passing this end of the locking element upwardly between the catches, and the catches at the opposite side being formed and arranged complementally to the margins of the tapered portion of the opposite end of the locking element and adapted to engage the same by slidably passing this end of the locking element upwardly between said catches, the locking element being long enough to allow a sufficient clearance for the described operation and the resiliency of the locking element serving to draw the two ends thereof securely up within the catches at each side.

2,324,382
NUT CRACKER AND SHELLER
Alfred D. Goodwin, Manteca, Calif.
Application December 27, 1940, Serial No. 371,863
2 Claims. (Cl. 146—11)



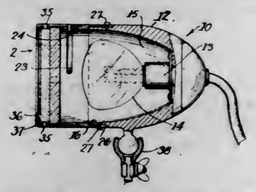
1. In a nut sheller, a horizontal axis rotor having cracking elements disposed in a circular path concentric with its axis, a curved cracking plate extending about a portion of the rotor in spaced relation thereto, spaced straps rigid with and extending about the plate adjacent its side edges and projecting from one end thereof in a direction away from the rotor, means pivotally mounting the straps at their outer end, said straps projecting from the other end of the plate to form ears disposed substantially radial of the plate, fixed rods slidably projecting through the ears, adjustable springs on the rods engaging the ears in a direction to force the plate radially inward of the rotor, and stop means engaging the other side of the ears and limiting inward radial movement of the plate; said stop means comprising rotary cams and control means to rotate the cams.

2,324,383
RHEOSTAT
Warren G. Grimes, Urbana, Ohio
Application June 19, 1941, Serial No. 398,838
5 Claims. (Cl. 201—48)



1. A rheostat comprising a fixed electrical resistance element, a conductor means connected to said fixed resistance element, a second conductor means spaced from said first conductor means, a rheostat brush, means for forcibly moving said rheostat brush to a position bridging both conductor means, means yieldably resisting the movement of the rheostat brush to the bridging position in contact with both conductors and restoring said brush to a position in contact with the first-mentioned conductor when the force is released, a conductor connected to said brush, and a second conductor connected to said second conductor means whereby when said brush is forcibly held in bridging position in contact with both conductor means current may flow through both conductors and, when the force holding the brush is released, current will flow only through the conductor connected to said brush, a second electrical resistance element connected to said first conductor means, said brush being movable over said second electrical resistance element to decrease the current passing through the conductor connected thereto.

2,324,384
ULTRAVIOLET SCREEN FOR FLUORESCENT LAMPS
Warren G. Grimes, Urbana, Ohio
Application June 30, 1941, Serial No. 400,469
7 Claims. (Cl. 240—8.16)



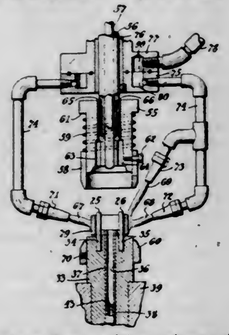
1. An ultra-violet light comprising a fixture body adapted to receive an ultra-violet and visible light producting lamp therein and a screen through which the beams from the lamp may pass, said screen being capable of optionally transmitting either visible light or ultra-violet light without any visible light, said screen comprising a pair of substantially identical circular solid disc unit, each of said units having visible light transmitting sector shaped openings therethrough, said openings occupying less than one-half of the area of each unit, and means for mounting said units in said fixture body face to face whereby one of said units may be peripherally rotated relative to the other of said units to bring the openings in each unit either into alignment to transmit visible light or out of alignment to block off visible light whereby only ultra-violet light may pass therethrough.

2,324,385

METHOD AND MACHINE FOR MAKING MOLDED STEMS FOR ELECTRICAL DEVICES

Daniel S. Gustin and Henry K. Richardson, Bloomfield, N. J., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application December 1, 1938, Serial No. 243,356
8 Claims. (Cl. 49—66)



1. A machine for making stems for electrical devices, comprising a lower mold element with cavities for receiving the lower portions of rigid lead-in conductors, an upper mold element having downwardly opening cavities for receiving the upper portions of said conductors, and a plunger operating in said upper mold element, in order to provide for stripping the formed stems therefrom.

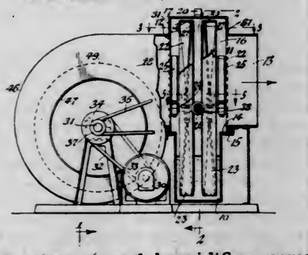
7. The method of making a stem for an electrical device comprising positioning the lower portions of lead-in conductors in a lower mold element, depositing a desired quantity of softened glass around said conductors, forming said glass by the descent of an upper mold element pocketed to receive the upper portions of said conductors, causing relative movement between said upper mold element and a plunger operating therein to strip formed stems from said upper mold element, and raising the formed stems from said lower mold element by a plunger operating in the latter.

2,324,386

AIR CLEANER AND HUMIDIFIER

Eugene Gusy, Buffalo, N. Y.

Application February 3, 1941, Serial No. 377,125
4 Claims. (Cl. 261—92)



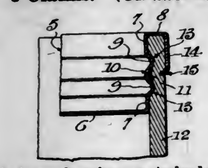
1. An air cleaner and humidifier, comprising a tank adapted to contain a liquid, a conduit which extends above the tank and through which air is propelled, and two rotary wheels arranged side by side and having their lower parts dipping into the liquid in said tank and their upper parts projecting into the path of the air in said conduit, and each of said wheels having blades and a peripheral driving rim, a rotatable driving wheel, and means for moving said driving wheel into and out of engagement with said driving rims.

2,324,387

CONTAINER AND END CLOSURE THEREFOR

John Haycock, Larchmont, N. Y., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York

Application September 20, 1940, Serial No. 357,634
5 Claims. (Cl. 229—5.5)



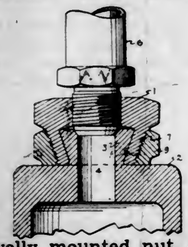
1. A container having a tubular body of fiber or equivalent deformable material, and a metallic end closure, said end closure being formed to include an annular channel defined by heel wall and skirt portions between which the end of said body is tightly clamped, said heel wall having two longitudinally spaced annular ribs formed therein and indented in said body, and said skirt being indented in said body between said ribs, and a sealing compound confined between the heel wall and the body between said annular ribs.

2,324,388

SWIVELLY MOUNTED NUT

Patrick J. Healy, Detroit, Mich.

Application February 13, 1942, Serial No. 430,751
2 Claims. (Cl. 285—97.7)



1. In a swivelly mounted nut, the combination with a body, having a projecting nipple reduced in external diameter at its inner end, of an annulus surrounding and spaced from the nipple and rotative about the nipple, and having its interior face progressively reduced in diameter toward said body, and a nut formed with a set of tongues inserted between said nipple and annulus and bent by engagement with the interior face of the annulus to substantially conform to the reduced portion of the nipple, said tongues and annulus having screw threads interengaged to effect said insertion of the tongues, whereby the annulus is fixed upon the nut and the nut is swivelly retained upon the nipple.

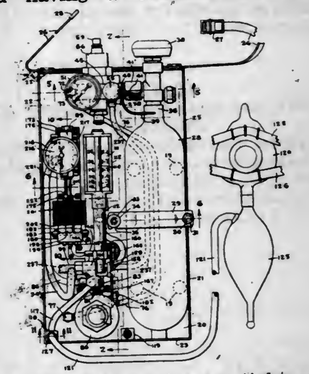
2,324,389

PORTABLE OXYGEN AVIATION UNIT

Jay A. Heidbrink, Minneapolis, Minn., assignor to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York

Application March 17, 1941, Serial No. 383,713
6 Claims. (Cl. 128—142)

1. In a portable oxygen aviation unit an oxygen tank and means for supporting it, a mask and means for conveying oxygen from the tank to the mask including an aneroid and a variable flow gauge, a valve adapted to cooperate with said aneroid comprising two chambers separated by a web having a valve opening therethrough connecting the chambers, a valve rod carried through one of said chambers and said opening and having a circumferential diameter



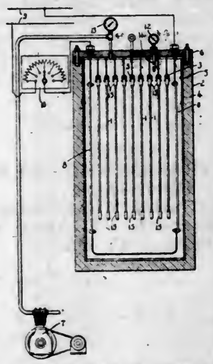
adapted to seal said opening gas-tight, said valve rod being progressively cut away from zero to a maximum depth along one side thereof, so that expansion of the aneroid will move the rod through said opening and first produce a minimum flow opening which will then be progressively and uniformly increased as the aneroid expands from going into higher elevations and lower pressures.

2,324,390

METHOD AND APPARATUS FOR RECLAIMING ULTRAVIOLET LAMPS

Eugene R. Heiliger, Tulsa, Okla.

Application February 27, 1943, Serial No. 477,360
12 Claims. (Cl. 176—3)



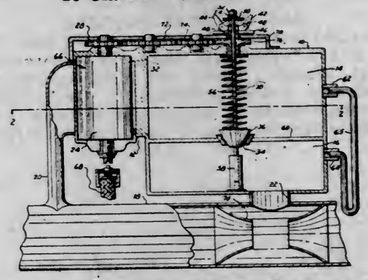
11. The method of reclaiming ultraviolet generating lamp tubes by removing the smudge formed upon the inner surface of the tubes during use which consists in placing the tubes in a container, creating a vacuum in the container about the tubes approximately equal to the vacuum in the tubes, applying heat to the exterior of the tubes, said heat being of sufficient thermal degree to dissolve the smudge, removing the tubes from the container, passing an electrical current of higher voltage than the voltage required for normal use in the tubes through the tubes for a predetermined time then reducing the voltage to the normal voltage required for operating the tubes.

2,324,391

DENSITY MEASURING DEVICE

Donald S. Hersey, West Hartford, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware

Application December 27, 1939, Serial No. 311,153
16 Claims. (Cl. 265—44)



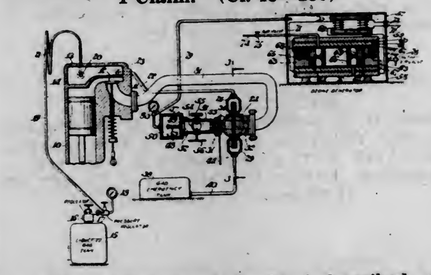
1. In combination, a rotatable fluid measuring device having a definite volumetric capacity for each operating speed, a fluid duct connected with said measuring device, an orifice in said duct for establishing a pressure differential proportional to the fluid density, means for varying the area of said orfice in accordance with the speed of said measuring device, and a device pneumatically connected with the spaces at opposite sides of said orifice and having a part movable in accordance with variations in the pressure difference across said orifice.

2,324,392

MEANS FOR FEEDING LIQUEFIED GAS-OZONE FUEL TO INTERNAL COMBUSTION ENGINES

Alva K. Hinchman, Bryn Mawr, Pa., assignor to Ozone Gas Combustion Co., Inc., a corporation of Delaware

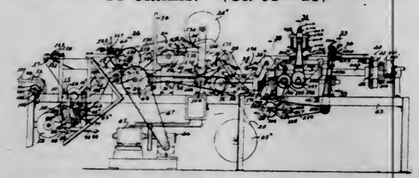
Application June 12, 1941, Serial No. 397,674
1 Claim. (Cl. 48—180)



In an apparatus of the kind described, of a valve unit including a mixing valve housing having a throttle valve chamber with an inlet and an outlet, a throttle in said chamber and having a wedge shaped notch in its inner end to provide a variable passageway from the inlet to the outlet, said mixing valve housing having an expansion chamber and feed duct leading therefrom to a cross duct all offset to the throttle valve chamber with which said cross duct communicates at the end of the notch in the throttle, a needle valve to control the outlet duct, another needle valve to control the cross duct, a two compartment controlling valve housing connected to

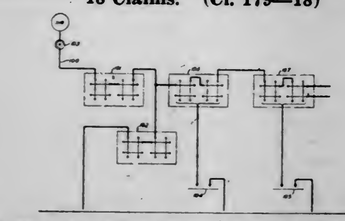
the inlet of the throttle valve chamber, a damper valve in the inner compartment, a poppet valve controlling a communication between said compartments, an ozone generator, means for conveying ozone from the generator to the outer compartment of the ozone controlling valve housing, a source of liquefied gas, and means for conveying gas from its source to the expansion chamber of the mixing valve housing.

2,324,393
BAG MAKING MACHINE
John Hohl and Olav Bjering, Toledo, Ohio, Eino E. Lakso, Fitchburg, Mass., and Clarence W. Vogt, Weston, Conn.; said Hohl, said Bjering, and said Lakso assignors to Owens-Illinois Glass Company, a corporation of Ohio
Application September 13, 1939, Serial No. 294,734
44 Claims. (Cl. 93—18)



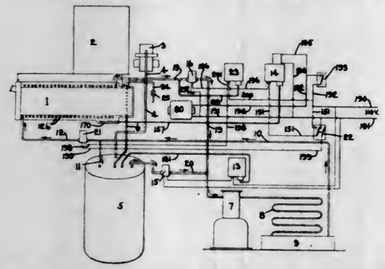
1. Apparatus for forming bags comprising means for continuously advancing a film of flexible heat plastic material from a roll of said material, means for folding the film to tubular form with its edges overlapping as the film advances, means for continuously heat sealing together the overlapped edges of the advancing film and thereby forming a continuously advancing tube, means for infolding the advancing tube along opposite sides thereof and simultaneously collapsing the tube, cross-sealing mechanism comprising means for periodically clamping the collapsed tube at intervals lengthwise of the tube and simultaneously applying heat by which the material is heat sealed, a severing device positioned forwardly beyond said cross-sealing mechanism, means for periodically actuating said severing device and thereby severing the tube into individual bags, and a supplemental cross sealing device positioned forwardly beyond the severing device and operable to effect a supplemental cross-sealing operation on each bag.

2,324,394
SIGNALING SYSTEM
William H. T. Holden, Woodside, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 17, 1940, Serial No. 361,536
18 Claims. (Cl. 179—18)



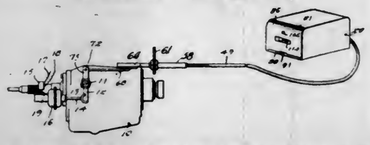
1. In a signaling system, a signal transmitting conductor, a plurality of sources of current of different phases, means for selectively connecting any one of said sources to said conductor to send thereover a signal current representing a signal character, a discharge device having a main electrode and a pair of control electrodes, means for applying potential of a given phase to one of said control electrodes, means responsive to the signal currents sent over said conductor for applying to the other of said control electrodes potentials having phases corresponding to said signal currents, said device being operative when the potentials on said control electrodes are of like phase, and means responsive to the operation of said discharge device for designating the character represented by the signal current transmitted.

2,324,395
BEVERAGE MAKING MACHINE AND PROCESS
Fred R. Hoop, Grand Rapids, Mich., assignor to Froid Laboratories, Inc., Grand Rapids, Mich., a corporation of Michigan
Application March 6, 1941, Serial No. 382,041
11 Claims. (Cl. 62—114)



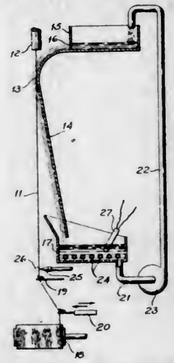
1. A machine of the class described comprising, a cooling chamber, means for mixing ingredients in and for delivering the finished product from said cooling chamber, power means for operating said mixing and delivering means, means for cooling said cooling chamber, control means for controlling the temperature of said cooling chamber including means for changing the temperature at which said cooling means will maintain the cooling chamber and a manually operated means controlling the said power means and said temperature control means, whereby the power means may be made to start or stop said mixing means and simultaneously the cooling means will be caused to raise or lower the temperature of said cooling chamber.

2,324,396
AUTOMOTIVE TRANSMISSION GEAR SHIFT-INDICATOR
Frederic B. Howell, Wilkes Barre, Pa.
Application September 8, 1941, Serial No. 410,116
6 Claims. (Cl. 116—4)



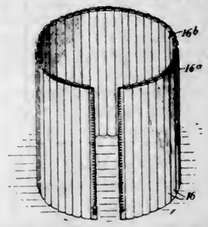
4. A gear shift indicator for connection with a transmission having a rockable speed changing shaft, said indicator comprising a base, a pair of upstanding bearings carried by said base, a shaft journalled in said bearings, a U-shaped signal frame fixed to said second shaft, an indicia bearing plate carried by said frame, a lever fixed at one end to said second shaft, a flexible operator fixed at one end to the opposite end of said lever, a flexible guide casing about said operator, means fixed to the opposite end of said operator for connection with said first shaft whereby rocking of said first shaft will effect simultaneous rocking of said second shaft, a housing carried by said base enclosing said signal frame and said second shaft, said housing having a window for exposing indicia on said plate positioned in registry with said window and means within said housing correlated with said second shaft for producing an audible signal upon rocking of said second shaft.

2,324,397
METHOD FOR PRODUCTION OF CONTINUOUS STRUCTURES
Donald R. Hull, Newport, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application June 4, 1941, Serial No. 396,524
9 Claims. (Cl. 18—54)



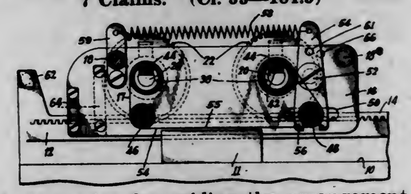
9. The method of quenching a hot structure extruded from a molten organic structure-forming composition which comprises passing said structure, after extrusion and while still having a temperature in proximity to its melting point, downwardly into a downwardly flowing continuous body of quenching liquid, said liquid being substantially chemically inert to said structure during the said quenching operation, and separating said structure from said liquid while maintaining the direction of travel of the structure substantially the same as its direction of travel during the contact with the liquid.

2,324,398
FLOOR SCREEN
Rudy Kahr, Hollywood, Calif.
Application April 11, 1941, Serial No. 388,071
1 Claim. (Cl. 160—231)



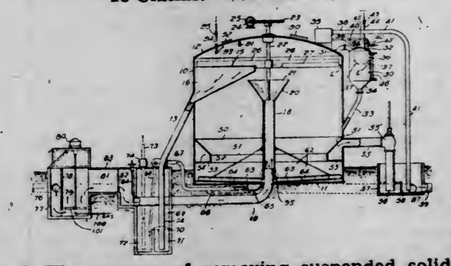
A floor screen, comprising; a body divided vertically along its length into sections, each of said sections comprising a sheet of flexible material, and slats of equal length secured in pairs to said sheet, with the slats of each pair disposed at opposite sides and points along the length of said sheet, and coextensive in height therewith, the pairs of slats being spaced transversely along the length of said sheet so that intervening portions of the latter form hinge connections between adjacent pairs of slats; and separable slide fasteners between adjacent sections of said body, each fastener having strips secured to the vertical and confronting edges of adjacent sections, and a head on one of the strips for sliding movement to engage and join both of the strips to connect adjacent body sections along their vertical edges and provide hinge connections between the sections.

2,324,399
APPARATUS FOR ALIGNING AND REGISTERING FORMS FOR MULTICOLORED PRINTING
Benjamin I. Kaye, New York, N. Y.
Application April 25, 1941, Serial No. 390,262
7 Claims. (Cl. 33—184.5)



1. Apparatus for guiding the arrangement of printing elements on an imposing table or the like comprising a pair of parallel tracks adapted to be disposed along the sides of the imposing table and carrying racks, a frame extending between the racks, a shaft extending between the frames and rotatably mounted therein, pinions carried by the ends of the shaft outwardly of the frame and adapted to mesh with the racks, rollers extending between the frame members, means to clamp the respective ends of a transparent sheet to the rollers whereby said transparent sheet may be rolled on the respective rollers and extend therebetween above the surface of the imposing table and means to take up slack in the reach of the sheet between the rollers.

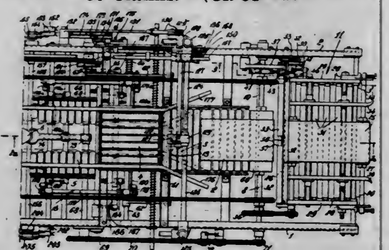
2,324,400
LIQUID CLARIFICATION
Earl M. Kelly and Arthur M. Kivari, Los Angeles, Calif., Robert P. Kite, Larchmont, N. Y., Elliott J. Roberts, Westport, Conn., and David B. Sutherland, Montclair, N. J., assignors to The Dorr Company, Inc., New York, N. Y., a corporation of Delaware
Application June 21, 1941, Serial No. 399,058
13 Claims. (Cl. 210—2)



1. The process of removing suspended solids from their carrying liquid which comprises maintaining an enclosed body of liquid being treated

whose liquid level is subject normally to vertical fluctuations, continually supplying gas-containing liquid to the liquid body and conducting such liquid to the region of the surface of the liquid body, continually sucking liquid through a pipe inlet disposed cooperatively within the limits of the fluctuating liquid lever alternately liquid when the liquid level rises thereabove and gas when the liquid level falls therebelow whereby to substantially minimize fluctuations of the level of the liquid body and whereby to continually maintain on the surface of the body sub-atmospheric pressure, continually removing floating matter from the surface of the body at a point functionally remote from the point of application of the suction, and continually removing from the body clarified liquid.

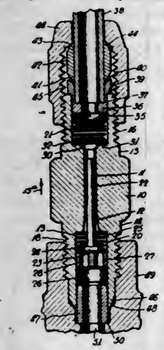
2,324,401
CASE SEALING MACHINE
Wallace D. Kimball, Jackson Heights, N. Y., assignor to Standard-Knapp Corporation, Portland, Conn., a corporation of New York
Application May 1, 1941, Serial No. 391,307
39 Claims. (Cl. 93—6)



1. In a machine of the class described, an elongated case support, mechanism for performing a sealing operation on the flaps of a case, a vertically movable carriage for supporting said mechanism above the case support to operate on the top flaps of a case on said support, power-operated mechanism for raising or lowering said carriage, means for moving a case along said support and beneath said carriage, control mechanism for said power operated mechanism, a gauging member movable vertically with respect to said support, mechanism for actuating said gauging member into engagement with the top of a case on said support, means associated with said gauging member for setting the control mechanism to correspond with the height of said case, and means for causing said control mechanism to effect the operation of the power operated mechanism to raise or lower the carriage to correspond to the height of the case prior to the passage of the case beneath the same.

2,324,402
LUBRICATION
Edward H. Kocher, Boonton, N. J., assignor to Auto Research Corporation, a corporation of Delaware
Application July 3, 1940, Serial No. 343,727
8 Claims. (Cl. 137—69)

1. For use in the outlets of a centralized lubricating installation having a central pump and reservoir and a branched conduit installation having a single inlet and a plurality of outlets to bearings to be lubricated; a high restriction flow metering device affording a tremendously greater obstructing effect to the flow of lubricant than the conduits or the bearings, said device consisting of a fitting with body having an inlet, an outlet and a central bore, a reciprocating pin fitting in and substantially completely filling said bore and leaving an annular crevice of one to several thousandths of an inch which causes said obstructing effect, said body having sockets posi-



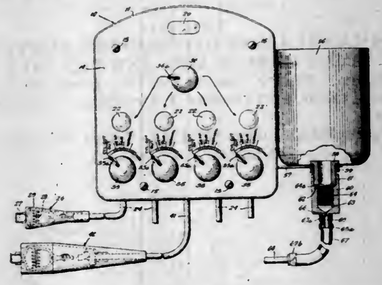
tioned at said inlet and said outlet, said outlet socket having a spring-seated check valve and said inlet socket having a cup member for causing reciprocation of said pin upon application or removal of pressure through said inlet.

2,324,403
EXTENSION STEM FOR VEHICLE HANDLE BARS
Ernst Karl Kühn, New York, N. Y.
Application March 30, 1942, Serial No. 436,861
5 Claims. (Cl. 74—551.2)

1. In a shock absorber for bicycle handlebars or the like, a pair of plates, one of said plates being connected to the handlebar clamp and the other to the steering post, means connecting said plates for yieldingly retaining them in predetermined spaced relation, said means including a pair of oppositely disposed bolts, and springs arranged upon said bolts upon opposite sides of said plates, the springs upon opposite plate sides being of different strengths.

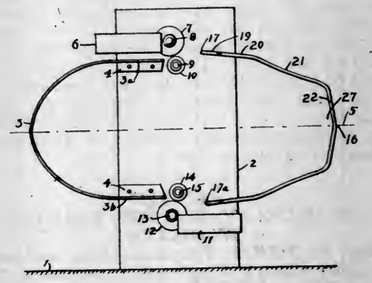
2,324,404
IGNITION TESTING AND ENGINE TREATING DEVICE
Herbert G. Lehmann, Bridgeport, Conn., assignor to Casco Products Corporation, Bridgeport, Conn., a corporation of Connecticut
Application November 14, 1940, Serial No. 365,587
16 Claims. (Cl. 175—183)

1. In an ignition testing device for internal combustion engines, a closed housing having a sight opening therein; a single luminous electric discharge tube mounted behind said sight opening; means for connecting one terminal of the said discharge tube directly to a ground; a plurality of contacts insulatedly carried within the housing; insulated means for connecting said contacts to the high tension terminals of the spark plugs in an internal combustion engine;



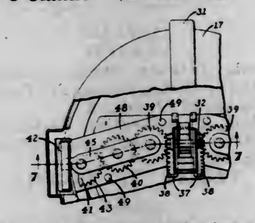
means within the casing for selectively connecting said contacts to the other terminal of said discharge tube; insulated means on the exterior of the casing for manually adjusting the position of said connecting means; a plurality of switches within the casing for connecting one or more of the contacts to the ground; and manual control means on the exterior of the casing for adjusting said switches individually in contact-grounding position.

2,324,405
CARTON SEALING DEVICE
James W. Lively, San Jose, Calif.
Application August 22, 1941, Serial No. 407,946
5 Claims. (Cl. 93—53)



1. A device for use in folding and sealing the bottom flaps of a carton as the carton is swung through an arc by the operator comprising, a pair of opposed and parallel glue applying devices disposed in spaced vertical relation to each other substantially equal to the spacing of the carton flaps to receive the glue and to apply the glue to the outer surfaces of said flaps, means disposed on one side of the glue applying devices having oppositely directed faces disposed to support and guide two opposite flaps of a carton into operative relation with the glue applying devices, and means disposed on the opposite side of the glue applying devices arcuate in form and disposed in concentric relation to the operator and constructed and arranged to receive the said flaps as they pass from the glue applying devices and fold them into closed relation to the bottom of the carton.

2,324,406
LATCHING MECHANISM
Gustaf Einar Lofgren, Riverside, and Clarence E. Stevens, Greenwich, Conn., assignors to Electrolux Corporation, New York, N. Y., a corporation of Delaware
Application January 23, 1941, Serial No. 375,610
5 Claims. (Cl. 292—51)

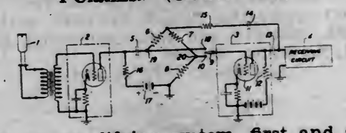


1. A latching mechanism including a plate having a central upstanding column, a handle pivotally mounted on said column on an axis parallel to said plate, two gear sectors secured to said handle and rotatable therewith, two gears engaging said sectors and rotatably mounted on said plate on axes perpendicular to said plate, two intermediate gears rotatably mounted on said plate and meshing with said last-named gears, locking fingers pivotally mounted on said plate having gear teeth engaging said intermediate gears, and a spring engaging said column and said handle.

2,324,407
PROCESS FOR COLORING FRUIT
Longfield Longfield-Smith, Babson Park, Fla., assignor, by direct and mesne assignments, to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
No Drawing. Application April 10, 1940, Serial No. 328,990
8 Claims. (Cl. 99—103)

1. In a process of coloring citrus fruits the steps comprising preparing a neutral dye concentrate comprising a water-insoluble, oil-soluble dye, a neutral dye dispersing agent, a water soluble organic dye solvent, a low volatile water insoluble organic dye solvent and water, each of said dye solvents being characterized by the insolubility of natural fruit wax therein, dispersing a minor proportion of said dye concentrate in an aqueous medium to form a stable neutral aqueous dispersion of said concentrate and thereafter contacting citrus fruits with said aqueous dispersion to color the fruit without removing the natural wax content thereof.

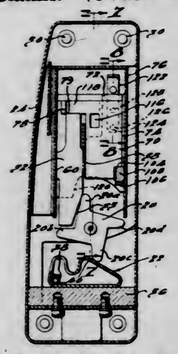
2,324,408
AMPLIFIER
Frank G. Marble, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application December 31, 1941, Serial No. 425,091
4 Claims. (Cl. 179—171)



1. In an amplifying system, first and second vacuum tubes connected in tandem, a negative feedback path around the second tube and means for changing the gain of the system without substantially affecting the feedback com-

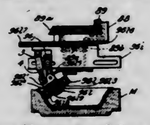
prising a shunt impedance connected between the tubes, an intermediate point of connection on the impedance for the feedback path, a grid in the second tube and means for selectively connecting the grid to the impedance at points of equal feedback potential on opposite sides of the intermediate point.

2,324,409
LATCH
Rollo Marple, Jackson, Mich., assignor to Hancock Manufacturing Company, Jackson, Mich., a corporation of Michigan
Continuation of application Serial No. 343,341, July 1, 1940. This application October 13, 1942, Serial No. 461,861
2 Claims. (Cl. 292—214)



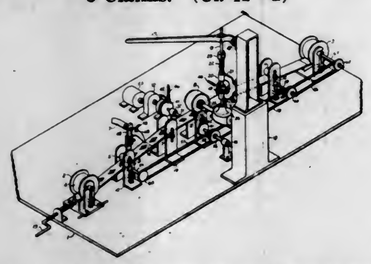
1. In a latch for association between two relatively movable parts, a bolt carried by one part, said bolt having a first position in which it cooperates with an associated keeper to restrain said parts in closed position and being movable from such position so as to enable it to clear said keeper and permit an opening movement of such parts, a holding member movably carried by said one part and operatively associated with said bolt in such relation as to enable it to prevent a said movement of said bolt, an operator actuable to retract said holding member out of cooperative relation to said bolt so as to enable a said movement of said bolt, locking means which normally occupies a retracted position out of cooperative relation to said bolt but is movable from such retracted position into a locking position in which it blocks a said movement of said bolt despite the movement of the holding member out of cooperative relation to the bolt caused by an actuation of the operator, and means operated as an incident to a closing movement of said parts for restoring said locking means to the unlocked position.

2,324,410
APPARATUS FOR DECORATING POTTERY WARE
William J. Miller, Swissvale, Pa.
Original application March 29, 1935, Serial No. 13,683. Divided and this application June 6, 1941, Serial No. 396,805
16 Claims. (Cl. 91—12)



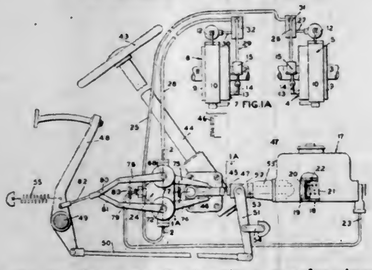
1. An ornamenting machine of the class described, comprising an intermittently movable work supporting means, means for actuating said movable work supporting means, an ornamenting station adjacent said work supporting means including a movably mounted applicator engageable with the work carried by the work supporting means when the work supporting means is stationary, and means controlled by the means actuating said work supporting means for actuating said movably mounted applicator.

2,324,411
APPARATUS FOR DECORATING POTTERY WARE, GLASSWARE, AND THE LIKE
William J. Miller, Swissvale, Pa., Lewis P. Reese, Scio, Ohio, and George J. Croninger, Swissvale, Pa.
Application March 11, 1941, Serial No. 382,718
5 Claims. (Cl. 41—1)



3. In apparatus for decorating the display surface of round pottery ware, glass ware and the like, a plurality of decorating stations having means for under supporting a continuous length of tape passing through both stations, said tape having transferable decoration thereon from which a number of impressions may be taken, a roll of said tape rotatably supported adjacent said decorating stations, means for progressing the tape through said decorating stations, means for rotatably supporting articles of ware in contact with the tape at the aforesaid decorating stations, means for synchronizing the speed of rotation of the articles of ware to the speed of travel of the tape, the decoration being transferred to the articles as they are rotated relative to the tape, and means for limiting the amount of rotation of the articles in contact with the tape to determine the amount of decoration to be applied to the articles.

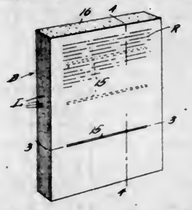
2,324,412
BRAKING SYSTEM FOR TRACTOR VEHICLES
Arthur N. Milster, Ferguson, Mo., assignor to Wagner Electric Corporation, St. Louis, Mo., a corporation of Delaware
Application September 3, 1940, Serial No. 355,147
15 Claims. (Cl. 180—17)



1. In braking and steering mechanism, two

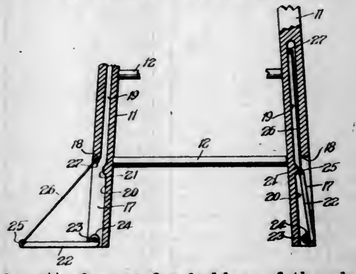
members adapted to be driven from a source of power, a clutch for disconnecting each member from its power source, a brake for each member, means for disengaging both clutches and for subsequently applying both brakes, a single manually-operated member for controlling said means, means for so conditioning the first named means that the clutch and brake associated with one member only will be caused to be respectively disengaged and applied, and means comprising a member operable independently of the single manually-operated member for operating the conditioning means and for also causing the clutch and brake of the one member to be respectively disengaged and applied.

2,324,413
BOOK, MAGAZINE, PAMPHLET, OR THE LIKE
Henry H. Moreton, East Orange, N. J.
Application December 9, 1941, Serial No. 422,275
4 Claims. (Cl. 281—18)



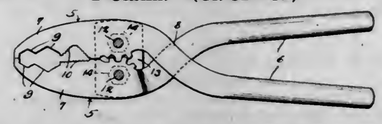
1. A book of the character described having in combination a plurality of leaves arranged in superimposed relation, each leaf having an elongated incision spaced inwardly from the marginal edges of the leaf and approximately parallel with one of said edges, so that the registering incisions extend entirely through the book, and means for permanently anchoring the edges of the incised portions of the leaves together whereby each exposed topmost leaf must be removed from the assembly of superimposed leaves before the underlying leaf may be exposed or examined.

2,324,414
LADDER ATTACHMENT
Claremont Robert Morris, New York, N. Y.
Application November 13, 1941, Serial No. 418,905
4 Claims. (Cl. 228—61)



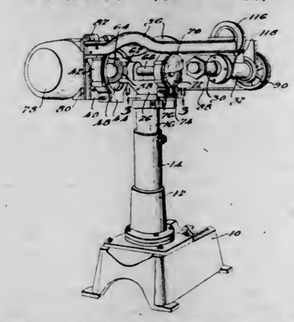
1. An attachment for ladders of the class described comprising a pivoted foot or plate adapted to be disposed in one position longitudinally of the side rail of the ladder and in its holding position projecting laterally from said side rail, a bracing rod pivoted at its lower end to the outer end of said foot and movable at its upper end longitudinally with respect to the said rail, said rail being provided with a longitudinal groove for the upper end of said rod and providing a pocket adjacent the bottom of said groove for receiving the said upper end of the rod and thereby brace the foot.

2,324,415
COMBINED WRENCH AND PLIERS
Jim H. Moss, Boise, Idaho
Application February 18, 1942, Serial No. 431,434
1 Claim. (Cl. 81—51)



In a combined wrench and pliers, a pair of handles, said handles crossing each other, jaws formed integral with the outer ends of the handles, a pair of plates engaging opposite sides of the jaws, a pivot bolt extending through each jaw and plates, pivotally connecting the jaws and plates, teeth formed on the adjacent edges of the jaws, and said teeth adapted to cooperate to move said jaws simultaneously in gripping an article when one of said handles is operated.

2,324,416
BUFFING OR POLISHING MACHINE
Ernest E. Murray, Detroit, Mich.
Application April 22, 1941, Serial No. 389,790
13 Claims. (Cl. 51—166)



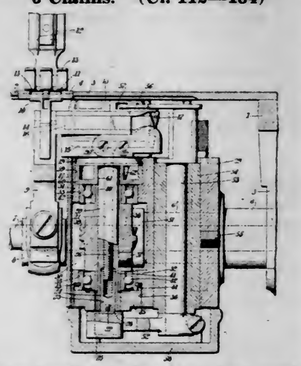
1. In polishing apparatus wherein an article having a longitudinal camber therein and having portions of the surface thereof disposed at an incline to the vertical transversely thereof is disposed longitudinally on a conveyor for line movement therewith, the combination of a polishing machine comprising a power driven spindle, a polishing wheel mounted thereon and driven thereby, and means mounting said spindle at an incline to the vertical for movement when said wheel engages said article along the camber thereof, said last named means including restricting means for controlling the movement of said spindle and the wheel thereon, said restricting means being so constructed that the point of tangency of said wheel with the article is caused to follow in a vertical plane parallel to the direction of travel of the article.

2,324,417
PREPARATION OF DERIVATIVES OF DIMETHYLOL UREA
John A. Murray and Andrew W. Kassay, Toledo, Ohio, assignors, by mesne assignments, to Libbey-Owens-Ford Glass Company, a corporation of Ohio
No Drawing. Application November 28, 1941, Serial No. 420,820
4 Claims. (Cl. 260—553)

1. A process for making ethers consisting of derivatives of dimethylol urea containing a plurality of alkoxy groups in the molecule which comprises reacting a dialkyl ether of dimethylol urea

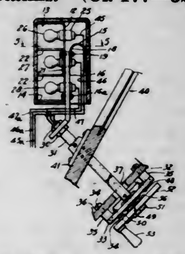
in which each of the alkyl radicals has less than six carbon atoms with an alcohol containing a larger number of carbon atoms than contained in at least one of the alcohol radicals of the ether, and removing during the reaction the liberated alcohol.

2,324,418
LOOP-TAKER MECHANISM FOR SEWING MACHINES
Walter Myers, Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application December 4, 1941, Serial No. 421,528
6 Claims. (Cl. 112—184)



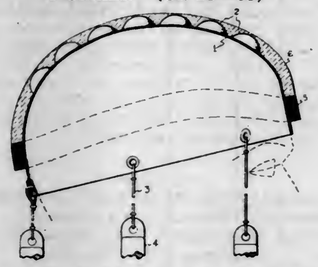
1. Rotary-hook mechanism for sewing machines, comprising, a supporting bracket having spaced walls providing therebetween a gear-clearance cavity, ball-bearings disposed in said walls of the bracket, a tubular sleeve rotatably journaled in said ball-bearings, a pinion-gear carried by said sleeve and disposed between said walls, a rotary-hook carrying shaft disposed within and detachably secured for rotation with said sleeve, and means including a driving gear in engagement with said pinion-gear for rotating said shaft.

2,324,419
ELECTRIC TRAFFIC SIGNAL
James M. Nelson, Los Angeles, Calif.
Application June 20, 1941, Serial No. 398,935
7 Claims. (Cl. 177—329)



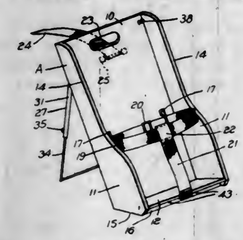
4. In a signal device of the kind described, a housing shaped and positioned as an inverted cup, there being a vertical wall portion of said housing having translucent signal portions and being provided with vertically extending oppositely disposed seats, a mounting plate within said housing with opposite edge portions in said seats, illuminating means mounted upon said plate to illuminate said signal portions, and a spring mounted between a face portion of said plate and a vertical wall portion of said housing to maintain the plate in a friction tight mounted position.

2,324,420
METHOD OF FORMING HELMETS
Elmer E. Oestrike, Detroit, Mich.
Original application February 6, 1940, Serial No. 317,483. Divided and this application January 6, 1942, Serial No. 425,741
6 Claims. (Cl. 18—55)



1. In a method of forming a scalp-treating helmet and individually fitting it to a patient, the steps of applying to the patient's scalp a tight-fitting flexible cap exteriorly carrying a plurality of spaced core-forming projections, applying to such cap a shell-forming coating of quick-setting plastic material substantially embedding the projections, separating the shell from the cap and projections, the interior face of the shell being formed with cavities by said projections, exteriorly applying to the shell a plurality of flexible elongated members freely extending into and interconnecting the cavities, applying to the shell a further coating of plastic material adequate to embed the interconnecting members, and withdrawing the interconnecting members through the cavities and thus rendering the cavities intercommunicating.

2,324,421
SUPPORTING STAND FOR INFANTS
Alfred J. Ouellette, St. Paul, Minn.
Application March 23, 1939, Serial No. 263,686
6 Claims. (Cl. 155—154)

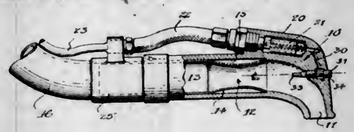


6. A supporting stand for an infant in combination with an upright support including a rigid back designed to rest in an inclined position upon the ground against the support, a base secured at substantially right angles to said back, means for securing the infant to said back, and flexible attaching means secured to said rigid back for attachment with said support for retaining said back at any desired angle with the vertical.

2,324,422
SUCTION CLEANER
William N. Patterson, Detroit, Mich., assignor, by mesne assignments, to The Sparks-Withington Company, Jackson, Mich., a corporation of Ohio
Application February 27, 1941, Serial No. 380,753
1 Claim. (Cl. 230—95)

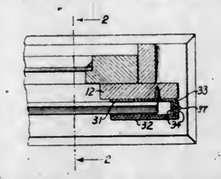
A device of the character described compris-

ing a cleaning nozzle in the form of an elongated member having a passageway therethrough, said nozzle having a gradually curved bend adjacent one end thereof, said bend resulting in said passageway having one end opening substantially laterally from said member to comprise an entrance nozzle and having the other end comprising a dirt outlet, a Venturi throat in said passageway, said nozzle having an integral head having an integral air inlet passage therein,



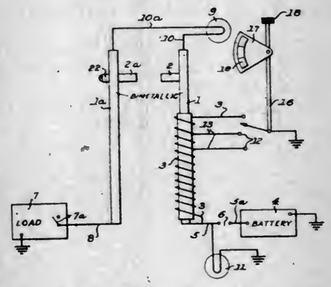
and a shaft threaded in said nozzle at said bend projecting within and along said passageway toward said Venturi throat, said shaft having an axial bore open at the end towards said throat and closed at the other end, said shaft having lateral passage means between its ends providing communication between said inlet and said bore, said other end of said shaft extending to the outside of said nozzle to present said other end in position to be readily adjusted.

2,324,423
WINDOW SHADE MOUNTING
Elmer F. Pidgeon, Spiceland, Ind.
Application January 8, 1942, Serial No. 426,073
1 Claim. (Cl. 160—267)



A channel member including an elongated strip having a flange projecting angularly from one longitudinal edge, a second strip having an angular slotted flange projecting from one longitudinal edge thereof for receiving the first mentioned flange, and fastenings for detachably connecting the flanges.

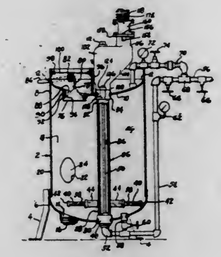
2,324,424
BATTERY PROTECTION AND INDICATING SYSTEM
Paul Pollack, Brooklyn, N. Y.
Application October 28, 1939, Serial No. 301,724
5 Claims. (Cl. 177—311)



1. In a switch and signal device, the combina-

tion of two bimetallic members, an electric resistance heating element in association with one of said members connected to the source and adapted to heat the said bimetallic member in response to a predetermined potential range of current from an electric source; the other bimetallic member being connected to the load; an electric bulb operably connected between said bimetallic members; a pair of contacts on said bimetallic members positioned to make contact and simultaneously short the said electric bulb when the current potential of the electric source is above a predetermined point; tap switch means whereby to vary the said predetermined point at which contact would be made, by reducing the resistance in the heating element; a conductor from one of the bimetallic members and heating element associated therewith; another conductor from the other bimetallic member; a switch position indicator and the said bulb positioned so as to illuminate the indicator.

2,324,425
SAND BLASTING MACHINE, EQUIPMENT, AND THE LIKE
James William Rasmussen, Los Angeles, Calif.
Application January 9, 1943, Serial No. 471,830
5 Claims. (Cl. 51—12)



1. A sand blasting apparatus of the class described comprising a tank, a central tubular passage means in said tank, a set of cross pipes connecting the bottom section of said central passage means, a mixing chamber connecting the upper end of said central passage means and disposed upon the top section of said tank, a high pressure air conduit tube passing through said central passage means and terminating within the intake end of said mixing chamber, and an air conduit pipes connecting said high pressure air conduit tube including said central passage means and said tank, for supporting the air flow therethrough and for drawing and for forcing a quantity of sand through said mixing chamber.

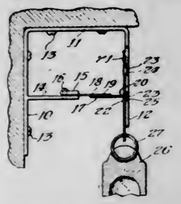
2,324,426
ABRASIVE PRODUCT
Norman P. Robie, Lewiston, N. Y., assignor to The Carborundum Company, Niagara Falls, N. Y., a corporation of Delaware
No Drawing. Original application August 17, 1940, Serial No. 353,065. Divided and this application April 29, 1942, Serial No. 441,019
5 Claims. (Cl. 51—298)

1. An abrasive article comprising abrasive grains and a binder therefor comprising the neutralization product of an alkali with a partial polyvinyl ester of a polybasic acid.

2,324,427
ABRASIVE PRODUCT
Norman P. Robie, Lewiston, N. Y., assignor to The Carborundum Company, Niagara Falls, N. Y., a corporation of Delaware
No Drawing. Original application August 17, 1940, Serial No. 353,065. Divided and this application April 29, 1942, Serial No. 441,020
6 Claims. (Cl. 51—298)

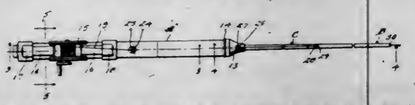
1. An abrasive article comprising abrasive grains and a binder therefor comprising the neutralization product of an alkali with a heteropolymer of an olefinic acid and a compound containing the vinyl group.

2,324,428
AUTOMATICALLY RELEASABLE RETAINING DEVICE
William L. Roessner, La Grange, Ill., assignor, by mesne assignments, to Adele de Berrie Heck, Elmhurst, Ill.
Application March 19, 1941, Serial No. 384,069
7 Claims. (Cl. 169—1)



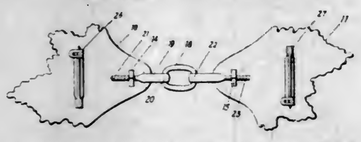
1. An automatically releasable suspending device, comprising a fixed support having a depending arm, a separate retained article suspending member having surface contact with said arm, a thermo-responsive member connected to the support, said thermo-responsive member bearing on said retained article suspending member and exerting pressure thereon, whereby said retained member frictionally engages said support arm, said thermo-responsive member when affected by heat operating to relieve said pressure and allowing the retained member to move both downwardly and horizontally relatively to said support arm, and cooperating means on said support arm and said retained article suspending member whereby part of the weight of the retained member is carried by the support arm while said retained member and the support arm are in frictional engagement.

2,324,429
FISHING POLE
Attilio Rondelli, Avoca, Pa.
Application June 26, 1942, Serial No. 448,619
3 Claims. (Cl. 43—18)



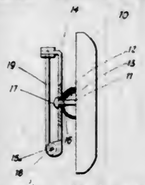
1. A fishing pole having spaced apart interior passages, each passage at both ends leading to the exterior of the pole, whereby the line may be threaded through said passages and between the same will be exterior of the pole for manual manipulation to provide slack, and eyelets at the terminals of said passages, the pole having a handle section in which one of the passages is provided, and means to mount a reel on said handle section.

2,324,430
DUAL PURPOSE BUCKLE
Joseph P. Schalet, Bronx, and Maurice D. Pollack, Brooklyn, N. Y.
Application January 20, 1942, Serial No. 427,498
1 Claim. (Cl. 24—225)



A buckle for attaching two pieces of fabric together, comprising two body sections, each lying in the plane of the fabric, and having a normally extending ear section provided with a threaded aperture, securing means for the body sections for attaching each body section to a piece of the fabric; and interlocking means for separably attaching the two body sections to each other, said interlocking means terminating in a pair of bolt-like portions extending in the plane of the fabric, and threaded for engagement with the threaded apertures of the body portions.

2,324,431
BUTTON
Joseph P. Schalet, Bronx, and Maurice D. Pollack, Brooklyn, N. Y.
Application January 20, 1942, Serial No. 427,499
1 Claim. (Cl. 24—103)



A button comprising a body portion a pin clasp securing means having a base section for detachably securing said button to a fabric and adapted to be withdrawn from said fabric without permanently defacing the same; a bell shaped washer with the peripheral portion of the washer in engagement with the back of said button; a shank positioned in said button and passing through an aperture in the central portion of the washer and mounted to said securing means, with the central portion of the washer in contact with the base section of the securing means; said button rotatably mounted with respect to said securing means.

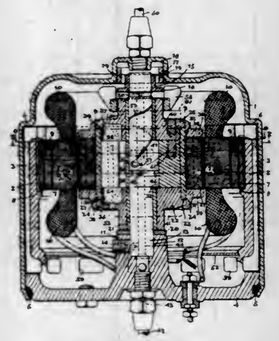
2,324,432
COATING COMPOSITION AND METHOD OF PRODUCTION
Jacob M. Schantz, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 30, 1942, Serial No. 436,842
7 Claims. (Cl. 106—222)

1. A coating composition characterized by low color, by high color stability, and by high alkali resistance, comprising a heat-bodied mixture of a drying oil and a polyhydric alcohol ester of a crystallized rosin acid having a neutral body content below about two per cent by weight and an acid number above about 181, formed by heating said mixture at a temperature between about 500° F. and about 600° F.

2,324,433
MULTICOLOR DECORATION OF VITREOUS OBJECTS
Henry F. Scheetz, Jr., Pittsburgh, Pa.
No Drawing. Application April 1, 1941, Serial No. 386,375
9 Claims. (Cl. 41—33)

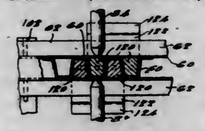
4. That method of multi-color decorating vitreous objects which comprises the steps of coating a transfer sheet with suitable sizing, imprinting thereon a multi-color design in the form of a multiplicity of spaced lines or dots, all those for each color being specifically angulated with respect to all for each other color and forming interstices therebetween, successively dusting different portions of the imprinted design separately with different ceramic coloring materials, transferring the coloring materials to a vitreous object, and subjecting the latter to a temperature sufficient to fuse the ceramic coloring materials with the object and expel sizing in the form of gas which passes off through the interstices between the color deposits.

2,324,434
REFRIGERANT COMPRESSOR
William E. Shore, West New Brighton, Staten Island, N. Y.
Application March 29, 1940, Serial No. 326,704
15 Claims. (Cl. 230—139)



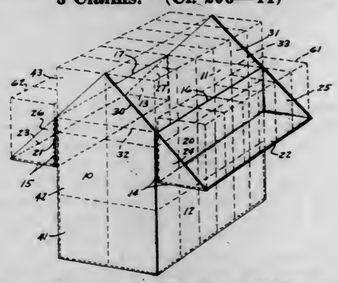
1. A refrigerant compressor comprising, a sealed casing enclosing an electrical stator and a shaft fixed from rotation in said casing, an electric motor rotor including a compressor cylinder rotatably mounted on said shaft and surrounded by said stator, a cylindrical rotary piston eccentrically mounted within said cylinder and having sealing contact therewith at one side thereof, a member having journal portions at each end thereof journalled in said cylinder at both ends thereof for oscillation about an axis permanently disposed within the periphery of said rotary piston and having blade portion intermediate said journal portions extending inwardly from the inner periphery of the cylinder and operatively engaging said eccentric piston to rotate same in unison with said cylinder, and said journal portions projecting beyond the piston to form a seal the cross sectional area of each of the journal portions of said member being substantially greater than the cross sectional area of said blade portion, means for directing the inflow of refrigerant to the cylinder at one side of said member, and means for controlling the outflow of the compressed refrigerant from said cylinder on the opposite side of said member.

2,324,435
METHOD OF MAKING FLANGED ELEMENTS
Frank M. Smith, Dearborn, Mich., assignor, by mesne assignments, to Consolidated Aircraft Corporation, San Diego, Calif.
Application September 15, 1941, Serial No. 410,858
1 Claim. (Cl. 219—10)



In the manufacture of a sheet metal structural element having a web corrugated completely across the width of the same transversely of its length and a flange, the steps of forming a sheet metal channel-like cap member of a channel width to receive a corrugated edge of said web member therein and provided with an outwardly directed flange along one edge thereof arranged substantially in the plane of said flange of said element, inserting said corrugated edge of said web within said cap member, temporarily bracing said corrugated edge against crushing in the direction of its thickness, pressing said cap member between a pair of electrodes and passing a welding current therethrough to fix said cap member to said web, and then securing an edge of said flange of said element in overlapping relation with respect to said flange of said cap member.

2,324,436
PACKING AND DISPLAY CASE
Donald J. Snyder, Chicago, Ill., assignor to General Mills, Inc., a corporation of Delaware
Application October 24, 1941, Serial No. 416,379
3 Claims. (Cl. 206—44)



1. A packing case for cartons having a bottom, ends, and sides, the ends terminating at the top in gables, and a shelf hinged to the top of each side and having a back, a tray and triangular ends at the same angle as the gable so that when the shelf is swung about the hinge through an angle of 180°, the triangular ends of the trays when swung up form with the gable ends of the case a rectangle and the trays meet at the top to serve as covers to complete the packing case, the bottom of the trays when swung outwardly forming horizontal shelves to hold cartons on display.

2,324,437
YARN PRODUCTION
Roy Soukup, Richmond, Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 10, 1942, Serial No. 446,529
2 Claims. (Cl. 18—54)

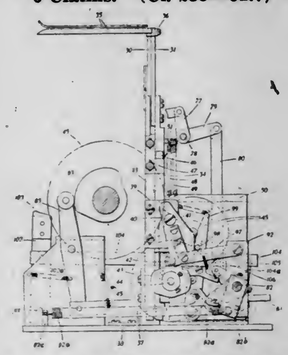
1. The process of spinning regenerated cellu-

lose filaments from viscose which comprises extruding viscose containing 3% to 5.5% caustic (calculated as NaOH) into a sulfuric acid coagulating and regenerating bath containing from 8% to 18% zinc sulfate, the sulfuric acid content of the bath being within plus or minus 0.6% of that determined by the equation:

$$A=0.75C-0.1S+3.8$$

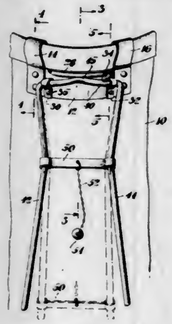
wherein A represents the percentage concentration by weight of the sulfuric acid, C represents the percentage concentration of the caustic (calculated as NaOH) in the viscose and S represents the percentage concentration by weight of the zinc sulfate.

2,324,438
STATISTICAL MACHINE
Arthur Thomas, Wallington, and Norman Geoffrey Holden, Carshalton, England, assignors to Powers Accounting Machines Limited, London, England, a company of Great Britain
Application December 30, 1938, Serial No. 248,500
In Great Britain January 5, 1938
6 Claims. (Cl. 235—61.7)



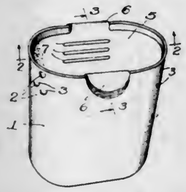
1. In a record card controlled statistical machine having card sensing means including a control sensing element positioned to sense a control hole in a card, the combination of a front card stop and a rear card stop, of which the front card stop is so disposed in relation to the sensing means as to arrest a card in position for sensing of holes punched therein in the normal hole positions thereon, while the rear card stop is disposed behind the front card stop by a distance equal to half the pitch of the hole positions along a card column, whereby said rear card stop, when projected alone into the card path arrests a card in position for sensing holes displaced from the normal hole positions by half the pitch of the said hole positions, continuously rotating feed rolls for feeding a card until said card is arrested by one or the other of the card stops, means normally operative to deliver a card to said feed rolls at each sensing operation, card stop actuating means normally operative to move both card stops into the card path at each sensing operation, means normally operative to withdraw both card stops after each sensing operation, a device for preventing the withdrawal of the rear card stop after the sensing operation during which a control hole is sensed whereby the card is advanced by the feed rolls until arrested by the rear card stop, a device for disabling the card stop actuating means during the sensing operation next following that in which a control hole is sensed, a device for rendering the card delivery means inoperative during the sensing operation next following that in which a control hole is sensed, normally inoperative actuating means for all said three devices, means operable by said control hole sensing element to render said actuating means operative, and means for restoring said actuating means to its normal inoperative condition after the sensing operation next following that in which a control hole is sensed.

2,324,439
GOLF BAG SUPPORT
George S. Thommen, New York, N. Y.
Application March 6, 1942, Serial No. 433,623
7 Claims. (Cl. 248—96)



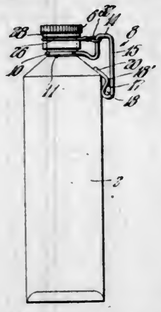
6. A golf bag support comprising a supporting leg, attachment means connected to said leg, said attachment means including a clamp consisting of strip material having a portion turned back to clamp against another portion thereof, one of the aforementioned clamp portions having a protuberance thereon and the other of the aforementioned clamp portions having an opening therein disposed in substantial alignment with said protuberance so that when the support is applied to a bag the protuberance will urge the material of the bag inwardly of said opening and thereby effect a tight grip.

2,324,440
WASTE CONTAINER
Blanche M. Tormohlen, Chicago, Ill.
Application October 21, 1941, Serial No. 415,920
1 Claim. (Cl. 220—65)



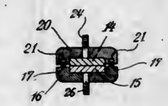
In a combination of a waste container and a plurality of liners for insertion therein, means for holding said liners in said waste container and permitting the withdrawal of one liner at a time, comprising a plurality of staggered projections near the top of said container, a plurality of horizontal and vertical grooves in said liners and overlapping flaps said horizontal grooves being adjacent said staggered projections to retain all the liners except the inner one in the receptacle when the inner liner is being removed.

2,324,441
DISPENSING DEVICE
Charles S. Van Brocklin, Portsmouth, N. H.
Application January 31, 1942, Serial No. 429,010
1 Claim. (Cl. 221—60)



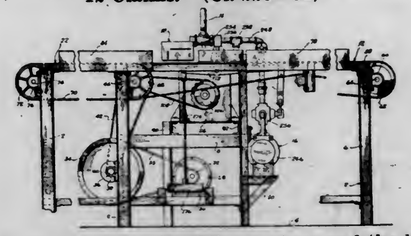
The combination of a container having a screw threaded circumferentially grooved neck extending from an upper end thereof and a screw cap for said neck having a circumferential groove with cap retaining means comprising, a support having an upper eye portion in the groove of the neck and a body part extending therefrom, a retriever having a loop in the groove of the cap and an eye slidable on the body part of the support, said body part of the support at the lower portion thereof being turned upon itself to provide a lower retriever eye abutting a side of the container spacing a main vertical portion thereof away from the container with the extremity of the lower portion of the body part extending towards the main vertical portion above the retriever eye and then away therefrom to provide with the main vertical portion a restricted passageway into said retriever eye and an end portion overlying the upper side of the container, the said main vertical portion of the body part at the upper end thereof extending towards said neck in a plane above that of said upper eye portion and then downwardly and inwardly towards said upper eye portion, the extremity of the lower portion of the body part and the main vertical portion providing the said restricted passageway being spaced to frictionally engage the eye of the retriever as it slides on the main vertical portion into and out of said lower retriever eye, all adapted and arranged whereby said cap may be screwed onto and off from said neck and the eye of the retriever slipped along said support through said restricted passageway into said retriever eye.

2,324,442
ELECTRIC RING FOR ROTARY KNITTING MACHINES
Michael Wachsman, Brooklyn, N. Y.
Application September 23, 1942, Serial No. 459,361
7 Claims. (Cl. 66—163)



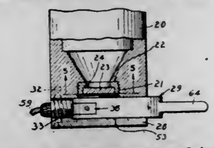
1. As a new article of manufacture an electric ring for rotary knitting machines consisting of two electric current conducting rings, one of which rotates upon the other in electric conducting contacting relation, an insulating ring member enclosing each of said rings annularly, the said two insulating ring members being in interlocked sealed relation whereby to completely enclose the said two conducting rings to prevent the entrance of dirt between them.

2,324,443
FILLING AND CLOSING MACHINE
Charles T. Walter, Chicago, Ill., assignor to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware
Application March 5, 1941, Serial No. 381,863
12 Claims. (Cl. 226—51)



1. In a machine for filling cartons and the like having inner liners, the combination of a continuously operable conveyor for feeding cartons and the like into the machine, a material delivery spout, control means associated with said conveyor and spout for positioning successively presented cartons and the like for receiving material discharged from said spout and for successively ejecting said filled cartons and the like laterally of said conveyor, and means driven from and associated with said control means for folding the front panel of the inner liner of said cartons and the like during the ejecting cycle.

2,324,444
OPTICAL INSTRUMENT
Frederick Charles Wappler, New York, N. Y.
Application April 16, 1941, Serial No. 388,721
11 Claims. (Cl. 240—37)

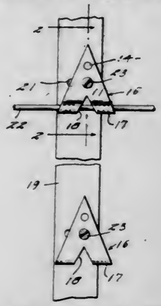


1. In an optical instrument which includes an electric lamp as a functional part thereof, a housing, a carrier for a plurality of lamps, said housing having a recess to accommodate said carrier and to support it for movement into predetermined different settings in each of which a different one of said lamps assumes an operative position within the housing, and said carrier being constructed as a separate removable unit adapted to be inserted into said recess from the exterior of the instrument, whereby said carrier may be instantly replaced when desired.

2,324,445
FENCE WIRE CLAMP
Bertha E. Waterman, Indianapolis, Ind.
Application January 2, 1942, Serial No. 425,464
3 Claims. (Cl. 256—54)

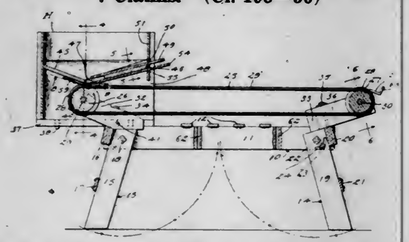
1. A fence wire clamp comprising an elongated plate of relatively resilient material, said plate having an elongated opening, disposed longitudinally of the plate and intermediate of its ends, the walls of the ends of said opening acutely dis-

posed, said plate being folded upon itself, intermediate of its ends, said opening forming a notch which opens outwardly of the folded part of the plate, said fold being adapted to have a strand of wire extending therethrough, the strand of wire



combining with the notch to form an opening adapted to receive a second strand of wire, said second strand of wire frictionally engaging edges of the notch and the first mentioned strand to frictionally retain the strands in the clamp.

2,324,446
HAND BEAN PICKER
Walter Burton Webb, New Gloucester, Maine
Application July 16, 1942, Serial No. 451,235
7 Claims. (Cl. 198—56)



1. An apparatus of the class described, comprising a frame, supporting means at one end thereof, means connecting said supporting means to the frame whereby it may be rigid with respect thereto or movable to folded position, a second support, means connecting the second support to the frame whereby it may be rigid with respect thereto or swung to and from a folded position, bearing members carried by the support and extending upwardly therefrom in diverging relation, rolls mounted by the bearing members, and a conveyor traversing said rolls.

2,324,447
WINDOW CONSTRUCTION
Charles B. Weedon, Detroit, Mich.
Application May 11, 1942, Serial No. 442,496
7 Claims. (Cl. 160—215)

1. The combination with a window construction of the sliding sash type, wherein the construction includes a casement having a sill and the usual outer and inner beading together with the parting strips to provide the parallel channel formations for the sliding sash, of means for applying storm window protection for such window construction, said means comprising a main unit composed of a pair of vertically alined members and mounted within the casement, said members having an overall vertical dimension less than the distance between the casement sill and the upper inner face of the casement and located outside of and in proximity to the outer face of the outer beading when in storm protection position with the top of the upper member substantially in contact with such upper inner face of the casement to thereby position the lower zone of the lower member of the unit as spaced from the casement sill, said unit members having their opposed meeting edges of complemental rabbet formation wherein the inner zone of the lower member edge is of male characteristic to the similar zone of the lower edge of the



upper member, means for supporting the members in such position with the two members free from securing relation with each other, and a closure strip of greater vertical dimension than the vertical distance between the planes of the lower edge of the lower member and the sill and with the strip mounted for vertical adjustment relative to the sill, said closure strip being mounted to co-operate with the sill and the rear face of the lower edge zone of the lower member of the unit to complete the protection closure of the casement interior with the closure external of the sliding sash.

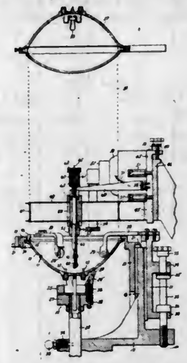
2,324,448
METHOD AND PRODUCT FOR PRODUCING A CLEANSING AND PRESERVING COATING ON FRUITS AND VEGETABLES
Gottlieb Wehrli, Basel, Switzerland
No Drawing. Application March 8, 1939, Serial No. 260,528
3 Claims. (Cl. 99—168)

1. A method of cleaning and coating fruits comprising admixing to an aqueous emulsion of a gum-resin at the boiling temperature and under continuous stirring a substance selected from the group consisting of aliphatic sulphonic acids and their salts and a fatty alcohol.

2,324,449
METHOD AND APPARATUS FOR ASCERTAINING THE FOCUS OF REFLECTORS
Einar John Westerlund, Warren, Ohio, assignor to General Electric Company, a corporation of New York
Application August 24, 1939, Serial No. 291,722
10 Claims. (Cl. 88—14)

10. Apparatus for ascertaining the focus of a concave reflector comprising means for supporting the reflector, means for directing into said reflector a light beam which is angularly similar

to the beam for which the reflector was designed but opposite in direction, focus locater means including light-sensitive means, electric current measuring means connected to said light-sensitive means, said locater means having a reference portion thereof of very small area, said locater means and said reflector supporting means being arranged for relative movement of said reference



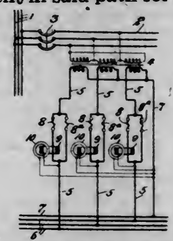
portion of the locater means along the axis of the reflector and through its focus, said reference portion of the locater means being arranged so that when properly positioned it is in the path of light converging at the focus of the reflector from points both ahead of and behind its focal plane so that a distinctive reading is obtained on said current measuring means.

2,324,450
MELAMINE PURIFICATION
Andrews C. Wintringham, Glen Ridge, and Victor L. King, Bound Brook, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application February 26, 1941, Serial No. 380,618
5 Claims. (Cl. 260—248)

1. A process for the manufacture of a substantially iron-free melamine suitable for lacquer manufacture which comprises heating a member of the group consisting of cyanamide and dicyandiamide in a solvent comprising liquid ammonia until a melamine containing intermediate conversion products has been formed, discharging the product into water having dissolved therein a small amount of an organic hydroxy compound capable of forming a complex water-soluble iron salt, and separating the melamine from the resulting solution.

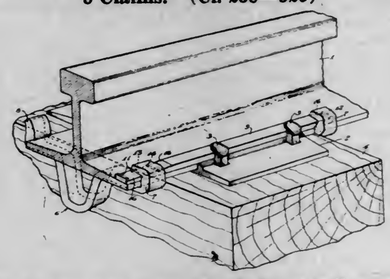
2,324,451
CURRENT PROTECTIVE MEANS
Joseph D. Wood, Bethlehem, Pa., assignor, by mesne assignments, to The Pennsylvania Company for Insurances on Lives and Granting Annuities, Philadelphia, Pa., a corporation of Pennsylvania
Application October 14, 1939, Serial No. 299,443
2 Claims. (Cl. 175—294)

1. Current protective means for a circuit comprising a division of the circuit in two parallel paths, overload circuit interrupting means in each of said paths, inductive means related to the circuit of one of said paths, said inductive means having a winding normally supplied with current acting cumulatively with the current in the circuit of said one of said paths and in opposition thereto upon reversal of the normal direction of current in said path for producing pro-



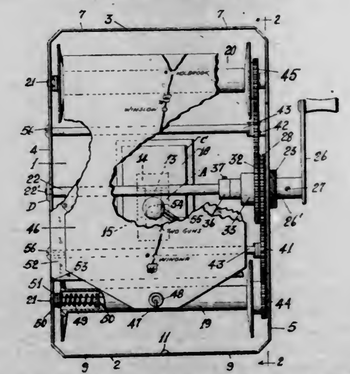
nounced unbalancing of the current in said two paths and thereby causing the successive opening of said interrupting means in each path.

2,324,452
TWO-WAY CREEP CHECK
Robert T. Woodings, Oakmont, Pa., assignor to Woodings-Verona Tool Works, Verona, Pa., a corporation of Pennsylvania
Application June 27, 1941, Serial No. 400,008
8 Claims. (Cl. 238—329)



1. A two-way creep check for a rail mounted on a cross tie, said creep check comprising a pair of rail anchors adapted to be fastened to the rail and formed for independently holding themselves thereon at both sides of the tie, and a separate bar provided at its ends with shoulders adapted to engage said anchors above the tie to hold them close to the sides of the tie.

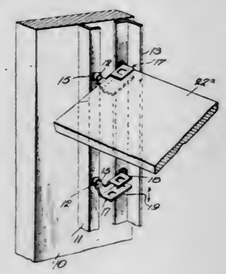
2,324,453
WINDING REEL FOR MAPS OR THE LIKE
Milo H. Albers, Wichita, Kans.
Application May 2, 1941, Serial No. 391,584
2 Claims. (Cl. 40—93)



1. In a winding reel for maps or the like of the

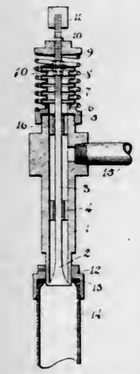
class described, the combination of a rectangular casing, the casing comprised of ends, one side and a bottom integrally joined, the other side removably secured to the bottom and ends, and a top having a centrally disposed rectangular opening therethrough, the top being removably secured to the sides and end walls, and a removable plate extending across the opening and being carried by the side walls a spaced distance inward from the top, said casing having a spool journalled in its side walls adjacent each end of the casing and the spools having a route map wound thereon to convey the map across the plate adjacent the opening in the top, a shaft centrally positioned in the casing and being journalled in the side walls, the journalled bearing in the removable side wall being a knurled bearing axially bored to receive the shaft, said bearing extending through said wall and secured therein by a nut threadedly engaging on the inner end of the bearing, the shaft having a collar secured thereto and rotatable therewith, said collar abutting the end of the bearing, said shaft having a crank on its outer end adjacent the knurled bearing, a pair of gears rotatably mounted on the shaft adjacent the knurled bearing, and gear means connecting each of first said gears to each of said spools respectively, one of first said gears having a hollow hub outwardly extending from its side opposite the other gear, said hub having radially disposed teeth inward of its outer end and spaced around the shaft, the other gear having similar teeth secured to its side adjacent the hub and extending slightly inward thereof, a circular clutch element axially bored to loosely engage on the shaft and move longitudinally thereon for engagement with the gears selectively, and means to cause rotation of the clutch element with the shaft and sliding movement thereon toward and from each gear selectively, said clutch element having a series of teeth on each end thereof to engage with their respective gears with respect to the turning direction of the shaft whereby said gear means are engaged selectively to turn their respective spools to convey the map across the plate in either direction in response to the directional turn of the shaft.

2,324,454
LOUVER PIVOT CLIP
Van E. Huff, Miami, Fla., assignor of one-half to Charles F. Miller, Miami, Fla.
Application June 4, 1940, Serial No. 338,799
5 Claims. (Cl. 20—62)



1. A pivot clip for louver slats comprising a pair of spaced substantially parallel flat side portions connected at one of their longitudinal edges by a connecting portion, a pivot receiving member comprising an extending portion of one of said side portions, said extended portion being adjacent one of said longitudinal edges and rolled over upon itself toward the other of said side portions to form a pivot receiving bore substantially perpendicular to the plane of said connecting portion and a second pivot receiving member, comprising an integral rolled over portion of one of said side portions extending from said clip at an end thereof remote from said first pivot receiving member and provided with a bore substantially parallel to said first pivot receiving member.

2,324,455
LAMP COATING APPARATUS
Christopher P. Keim, Danvers, and Bronald J. Vasalle, Salem, Mass., assignors to Sylvania Electric Products Inc., a corporation of Massachusetts
Application February 28, 1942, Serial No. 432,896
7 Claims. (Cl. 91—44)

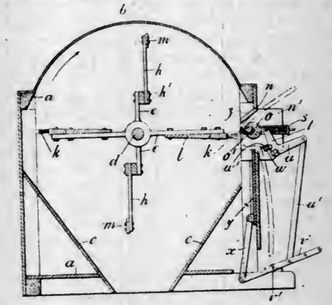


1. Apparatus for applying a coating of luminescent material solution to the walls of an elongated glass tube, said apparatus comprising: an elongated bonnet having a channel extending longitudinally therethrough; means through which said luminescent material solution may be introduced into the upper extremity of said channel; an elongated valve shaft concentric with said bonnet and extending longitudinally through said channel and moveable in a vertical reciprocating manner therein to open and close said valve, said shaft being flared out at its lower extremity to an angle of substantially between 30° to 35° above horizontal at that portion thereof which is flush with the lower end of said bonnet when said valve is closed; and means for centering said glass tube with respect to said bonnet.

2,324,456
CLEANING OF SACKS, BAGS, OR LIKE CONTAINERS
Claude Leonard King, London, England, assignor of one-half to James W. Cook & Company, Limited, London, England
Application June 9, 1941, Serial No. 397,309
In Great Britain May 10, 1940
7 Claims. (Cl. 15—6)

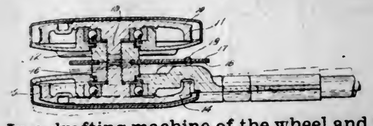
1. A machine for cleaning sacks and like articles comprising a casing having a slot therein for the introduction of a loop-like folded part of the article to be cleaned, guide means for said article located within the slot, means in said casing operable upon the exterior of said folded part to subject the latter to a cleaning action, and

means for releasably clamping one portion of said article in position adjacent one part of said



slot, the remaining portion of the article being freely movable through another part of said slot.

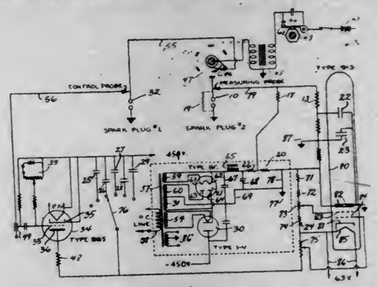
2,324,457
DRAFTING MACHINE
Charles Henry Little, Cleveland Heights, Ohio, assignor of one-tenth to Charles Hubbard Little, Cleveland Heights, Ohio
Application January 2, 1941, Serial No. 372,796
5 Claims. (Cl. 33—79)



1. In a drafting machine of the wheel and band type, the combination of: a parallel motion mechanism or arm comprising a plurality of sections or parallelograms normally lying in parallel planes; anchor means for connecting one end of said parallel motion arm to a drafting board or the like; each of said sections comprising a pair of wheels, a flexible band encircling said wheels and engaging the same for maintaining them in definite angular relationship with respect to each other, and a strut operatively connected to said wheels for holding the same in spaced relation; and flexible means for operatively connecting together the adjacent wheels of adjoining sections of the parallel motion arm for movement relative to each other about a line generally normal to a line connecting the centers of the wheels of the section remote from said anchor means and generally parallel to the plane of said section whereby relative movement may be effected between the sections as units.

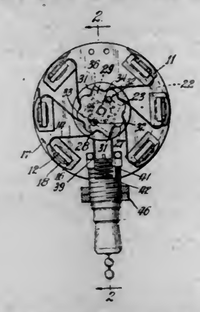
2,324,458
SPARK PLUG TESTER
Melville F. Peters, Beltsville, and John P. Boston, Garrett Park, Md., and Merlin Davis, Washington, D. C.
Application March 18, 1942, Serial No. 435,192
14 Claims. (Cl. 175—183)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In a system for determining the substantially instantaneous resistance of a spark plug installed in an operating internal combustion engine at a particular point in the operating cycle of its respective cylinder other than during ignition, combustion or exhaust, the combination including a grid controlled space discharge device, means utilizing the periodically developed ignition potential of another installed and operating spark plug of the same internal combustion engine for rendering said space discharge device conductive, a condenser connected across the terminals of said space discharge device, a first source of unidirectional current, a resistance element, circuit forming means connecting said first unidirectional current source to said condenser in series with said resistance element to charge said condenser, a cathode ray oscillograph, means responsive to the potential drop across at least a portion of said resistance element for initiating said cathode ray, a second source of substantially constant direct current potential, circuit means connecting said second source of direct current



potential to the spark gap of said test plug so that the cyclic change in the resistance of said gap will cause a corresponding cyclic change in the voltage drop across the spark gap of said test plug, and means utilizing the voltage drop across the spark gap of said test plug for deflecting the said cathode ray an amount proportional to the said voltage drop, whereby a rapidly recurring yet constantly deflected ray will indicate the substantially instantaneous resistance of the spark plug at the said particular point in the operating cycle of its cylinder.

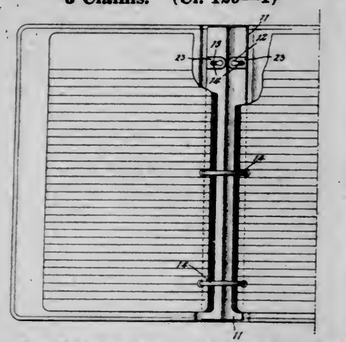
2,324,459
ELECTRIC SWITCH
Rudolf Popp and Marvin C. Carlson, Valparaiso, Ind., assignors to McGill Manufacturing Company, Valparaiso, Ind., a corporation of Indiana
Application November 5, 1941, Serial No. 417,912
5 Claims. (Cl. 200—6)



1. An electric switch including in combination an insulating frame, a metal member rotatably supported in said frame, an insulating contact disc having metal contacts thereon, supported adjacent each end of said metal member, a metal contact-bridging member on each of said contact discs spaced from said metal member, an insulating ratchet wheel mounted on said metal member intermediate said two contact discs, metal actuating means mounted on said frame and associated with said ratchet wheel to rotate

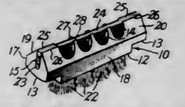
said metal member and said two contact discs therewith, and insulating means between said ratchet wheel and each of said contact discs, with said defined insulating parts insulating said metal actuating means from said metal member.

2,324,460
RING BINDER
Clarence D. Trussell, Poughkeepsie, N. Y., assignor to Trussell Manufacturing Company, Poughkeepsie, N. Y., a corporation of New York
Application November 11, 1942, Serial No. 465,289
3 Claims. (Cl. 129—1)



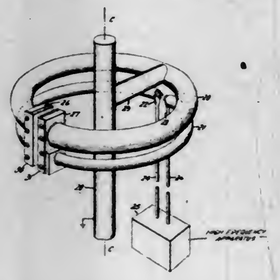
1. A ring binder, comprising a tubular back having inclined sides with ring receiving openings therein, said back having notches in the side edges of the same and folded reinforcements having lower layers passed through said notches to position at the undersurface of said inclined sides and upper layers overlying the upper surface of said inclined sides, said upper and lower layers of said reinforcements having openings therein, substantially corresponding to said openings in said inclined sides.

2,324,461
BRUSH STRUCTURE AND HOLDER
Raymond G. Anderson, West Orange, and William T. Jacobson, Clifton, N. J., assignors to The Roto Company, a corporation of New Jersey
Application March 15, 1941, Serial No. 383,536
7 Claims. (Cl. 15—183)



1. The method of forming a brush element which comprises the steps of drilling an elongated bar to provide a plurality of equally spaced apertures extending in a line coincident with the center line of said apertures to a depth corresponding substantially with the median line thereof to form a narrow kerf, then cutting away the inner parallel edges of the bar on an angle of substantially 45 degrees to provide in conjunction with the walls of said kerf, and said apertures, a plurality of separate pairs of apices spaced along the bar in pairs, then feeding tufts of looped bristles into each of said apertures from the external surface of the bar to a point where the interior loop of the tufts is spaced below the beforementioned median line of the bar, then passing a pin along the bottom of said kerf and through said loops, drawing said tufts of bristles outwardly into engagement with said last mentioned pin, laying a second pin in said kerf in overlying engagement with the outer loops of said bristles, and finally, peening the beforementioned apices formed between the walls of said kerf and the cut away edges of the bar to wedge of said last mentioned pin in said kerf.

2,324,462
HIGH FREQUENCY ANTENNA SYSTEM
Laurance M. Leeds, Rotterdam Junction, and Marvel W. Scheldorf, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York
Application November 15, 1941, Serial No. 419,234
12 Claims. (Cl. 250—11)



1. A high frequency antenna system comprising a plurality of closely spaced, separated conductors similarly oriented and connected together at their corresponding ends and forming a peripherally incomplete loop, the ends of said loop being closely spaced and terminating in means providing substantial capacity therebetween, one of said conductors being coupled to a transmission line for transfer of high frequency energy between said loop and said line, said system having an effective electrical length substantially equal to one-half wave length at said high frequency.

DESIGNS

JULY 13, 1943

135,956
DESIGN FOR A LITURGICAL FABRIC OR SIMILAR ARTICLE
Apollinaris Baumgartner, New York, N. Y.
Application May 22, 1943, Serial No. 110,260
Term of patent 7 years



The ornamental design for a liturgical fabric or similar article, substantially as shown.

135,957
DESIGN FOR A LITURGICAL FABRIC OR SIMILAR ARTICLE
Apollinaris Baumgartner, New York, N. Y.
Application May 22, 1943, Serial No. 110,261
Term of patent 7 years



The ornamental design for a liturgical fabric or similar article, substantially as shown.

135,958
DESIGN FOR AN ORPHREY OR SIMILAR ARTICLE
Apollinaris Baumgartner, New York, N. Y.
Application May 22, 1943, Serial No. 110,262
Term of patent 7 years



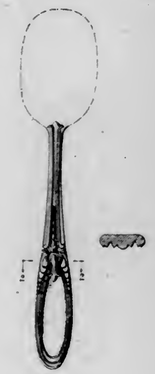
The ornamental design for an orphrey or similar article, substantially as shown.

135,959
DESIGN FOR AN ORPHREY OR SIMILAR ARTICLE
Apollinaris Baumgartner, New York, N. Y.
Application May 22, 1943, Serial No. 110,263
Term of patent 7 years



The ornamental design for an orphrey or similar article, substantially as shown.

135,960
DESIGN FOR A SPOON OR OTHER ARTICLE OF FLATWARE
Roy E. Berg, Great Neck, N. Y., assignor to Tech-Art Plastics Company, a corporation of New Jersey
Application January 29, 1943, Serial No. 109,356
Term of patent 3½ years



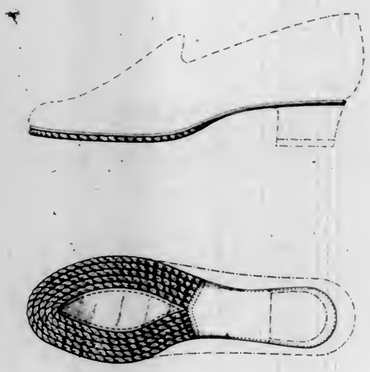
The ornamental design for a spoon or other article of flatware, as shown and described.

135,961
DESIGN FOR A SPOON OR OTHER ARTICLE OF FLATWARE
Roy E. Berg, Great Neck, N. Y., assignor to Tech-Art Plastics Company, a corporation of New Jersey
Application February 3, 1943, Serial No. 109,416
Term of patent 3½ years



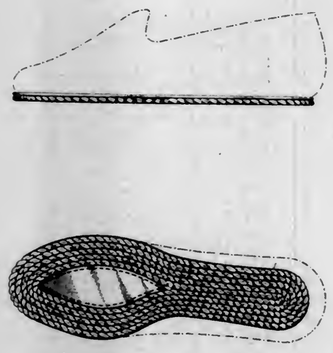
The ornamental design for a spoon or other article of flatware, as shown and described.

135,962
DESIGN FOR A SHOE OR THE LIKE
George Codish, New York, N. Y., assignor to Jonas A. Senter, Brooklyn, N. Y.
Application April 24, 1943, Serial No. 110,029
Term of patent 3½ years



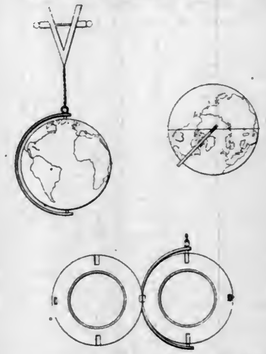
The ornamental design for a shoe or the like, as shown and described.

135,963
DESIGN FOR A SHOE
George Codish, New York, N. Y., assignor to Jonas A. Senter, Brooklyn, N. Y.
Application April 28, 1943, Serial No. 110,068
Term of patent 3½ years



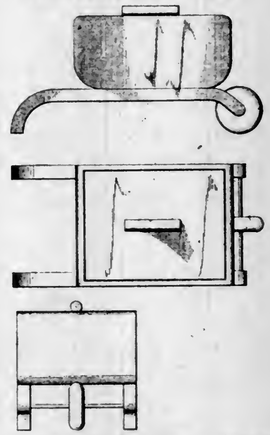
The ornamental design for a shoe, as shown and described.

135,964
DESIGN FOR A LOCKET BROOCH OR SIMILAR ARTICLE
Joseph Manuel de Aragon, New York, N. Y.
Application March 2, 1943, Serial No. 109,686
Term of patent 7 years



The ornamental design for a locket brooch or similar article as shown.

135,965
DESIGN FOR A CIGARETTE BOX
Hugh L. Gillmor, Glens Falls, N. Y.
Application February 18, 1943, Serial No. 109,572
Term of patent 7 years



The ornamental design for a cigarette box, as shown.

135,966
DESIGN FOR A NAPKIN HOLDER
Anton Gloetzner, Glendale, Calif.
Application May 24, 1943, Serial No. 110,275
Term of patent 7 years



The ornamental design for a napkin holder, as shown.

135,967
DESIGN FOR AN EMBROIDERED TRIMMING OR SIMILAR ARTICLE
Otto Hallbauer, Teaneck, N. J.
Application October 24, 1942, Serial No. 108,606
Term of patent 3½ years



The ornamental design for an emboidered trimming or similar article, as shown.

135,968
DESIGN FOR AN EMBROIDERED TRIMMING OR SIMILAR ARTICLE
Otto Hallbauer, Teaneck, N. J.
Application October 24, 1942, Serial No. 108,607
Term of patent 3½ years



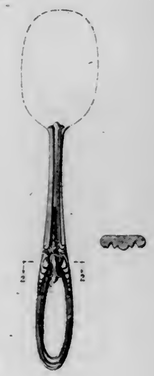
The ornamental design for an embroidered trimming or similar article, as shown.

135,969
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application June 14, 1943, Serial No. 110,448
Term of patent 3½ years



The ornamental design for a brooch or similar article, substantially as shown.

135,960
DESIGN FOR A SPOON OR OTHER ARTICLE OF FLATWARE
Roy E. Berg, Great Neck, N. Y., assignor to Tech-Art Plastics Company, a corporation of New Jersey
Application January 29, 1943, Serial No. 109,356
Term of patent 3½ years



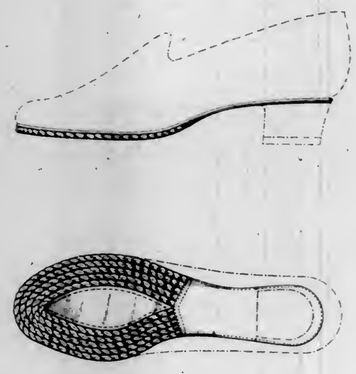
The ornamental design for a spoon or other article of flatware, as shown and described.

135,961
DESIGN FOR A SPOON OR OTHER ARTICLE OF FLATWARE
Roy E. Berg, Great Neck, N. Y., assignor to Tech-Art Plastics Company, a corporation of New Jersey
Application February 3, 1943, Serial No. 109,416
Term of patent 3½ years



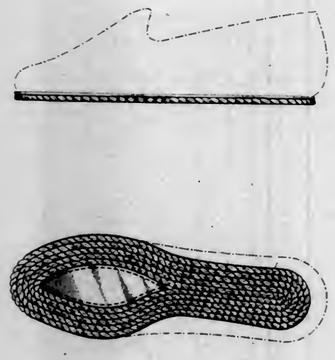
The ornamental design for a spoon or other article of flatware, as shown and described.

135,962
DESIGN FOR A SHOE OR THE LIKE
George Codish, New York, N. Y., assignor to Jonas A. Senter, Brooklyn, N. Y.
Application April 24, 1943, Serial No. 110,029
Term of patent 3½ years



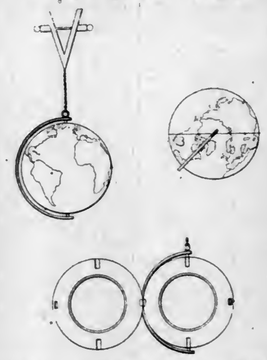
The ornamental design for a shoe or the like, as shown and described.

135,963
DESIGN FOR A SHOE
George Codish, New York, N. Y., assignor to Jonas A. Senter, Brooklyn, N. Y.
Application April 28, 1943, Serial No. 110,068
Term of patent 3½ years



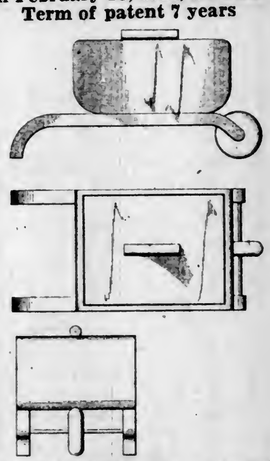
The ornamental design for a shoe, as shown and described.

135,964
DESIGN FOR A LOCKET BROOCH OR SIMILAR ARTICLE
Joseph Manuel de Aragon, New York, N. Y.
Application March 2, 1943, Serial No. 109,686
Term of patent 7 years



The ornamental design for a locket brooch or similar article as shown.

135,965
DESIGN FOR A CIGARETTE BOX
Hugh L. Gillmor, Glens Falls, N. Y.
Application February 18, 1943, Serial No. 109,572
Term of patent 7 years



The ornamental design for a cigarette box, as shown.

135,966
DESIGN FOR A NAPKIN HOLDER
Anton Gloetzner, Glendale, Calif.
Application May 24, 1943, Serial No. 110,275
Term of patent 7 years



The ornamental design for a napkin holder, as shown.

135,967
DESIGN FOR AN EMBROIDERED TRIMMING OR SIMILAR ARTICLE
Otto Hallbauer, Teaneck, N. J.
Application October 24, 1942, Serial No. 108,606
Term of patent 3½ years



The ornamental design for an emboidered trimming or similar article, as shown.

135,968
DESIGN FOR AN EMBROIDERED TRIMMING OR SIMILAR ARTICLE
Otto Hallbauer, Teaneck, N. J.
Application October 24, 1942, Serial No. 108,607
Term of patent 3½ years



The ornamental design for an embroidered trimming or similar article, as shown.

135,969
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application June 14, 1943, Serial No. 110,448
Term of patent 3½ years



The ornamental design for a brooch or similar article, substantially as shown.

135,970
DESIGN FOR A SEPARABLE BROOCH
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application June 14, 1943, Serial No. 110,449
Term of patent 3½ years



The ornamental design for a separable brooch, substantially as shown.

135,971
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application June 14, 1943, Serial No. 110,450
Term of patent 3½ years



The ornamental design for a brooch or similar article, substantially as shown.

135,972
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application June 14, 1943, Serial No. 110,451
Term of patent 3½ years



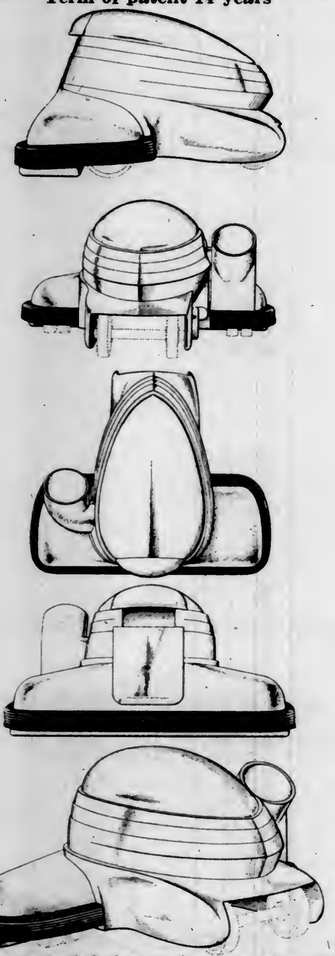
The ornamental design for a brooch or similar article, substantially as shown.

135,973
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application June 14, 1943, Serial No. 110,452
Term of patent 3½ years



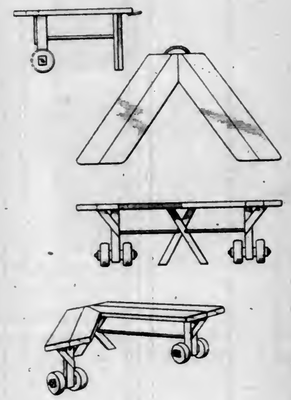
The ornamental design for a brooch or similar article, substantially as shown.

135,974
DESIGN FOR A SUCTION CLEANER CASING OR THE LIKE
Ralph E. Kruck, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania
Application August 11, 1942, Serial No. 107,881
Term of patent 14 years



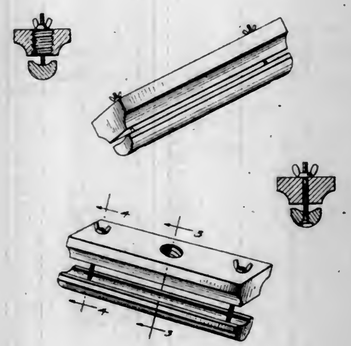
The ornamental design for a suction cleaner casing or the like, substantially as shown and described.

135,975
DESIGN FOR A BARBECUE TABLE
Norman P. Miller, West Los Angeles, Calif.
Application March 19, 1943, Serial No. 109,781
Term of patent 7 years



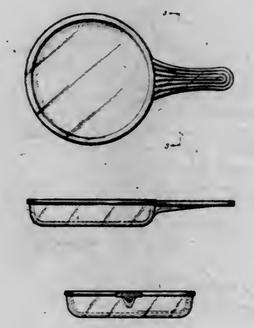
The ornamental design for a barbecue table, as shown.

135,976
DESIGN FOR A MOP SWAB HOLDER
Max Moskowitz, Bronx, N. Y.
Application April 21, 1943, Serial No. 110,042
Term of patent 7 years



The ornamental design for a mop swab holder, as shown.

135,977
DESIGN FOR A SKILLET
Louis Poglein, Jeannette, Pa., assignor to McKee Glass Company, Jeannette, Pa., a corporation of Pennsylvania
Application September 16, 1942, Serial No. 108,248
Term of patent 14 years



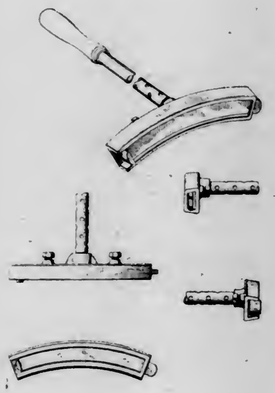
The ornamental design for a skillet, as shown and described.

135,978
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Ruth M. Reed, Hinton, Okla.
Application April 5, 1943, Serial No. 109,907
Term of patent 7 years



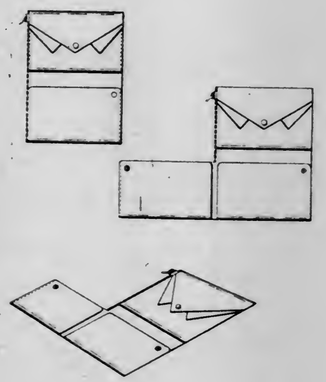
The ornamental design for a brooch or similar article, as shown.

135,979
DESIGN FOR A TIRE BRANDING IRON
Don C. Weyl, Wichita, Kans.
Application May 11, 1942, Serial No. 106,863
Term of patent 3½ years



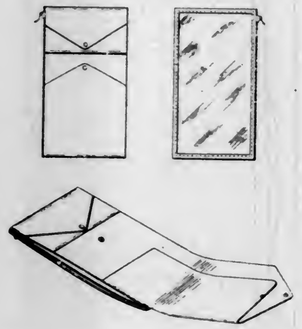
The ornamental design for a tire branding iron, as shown and described.

135,980
DESIGN FOR A COMBINATION WALLET, COSMETIC CONTAINER, AND CHANGE PURSE
Rita B. Bach, New York, N. Y.
Application May 31, 1943, Serial No. 110,331
Term of patent 14 years



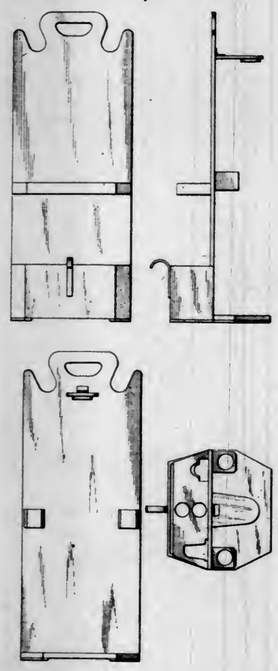
The ornamental design for a combination wallet, cosmetic container, and change purse, substantially as shown and described.

135,981
DESIGN FOR A COMBINATION WALLET, COSMETIC CONTAINER, CHANGE PURSE, AND TRANSPARENT POCKET
Rita B. Bach, New York, N. Y.
Application May 31, 1943, Serial No. 110,332
Term of patent 14 years



The ornamental design for a combination wallet, cosmetic container, change purse, and transparent pocket, substantially as shown.

135,982
DESIGN FOR A VACUUM CLEANER RACK
Hewitt S. Morris, Manhasset, N. Y.
Application May 22, 1943, Serial No. 110,258
Term of patent 7 years



The ornamental design for a vacuum cleaner rack, as shown.

135,983
DESIGN FOR A CROCHETED LADY'S HANDBAG
Lilly Kertész Rotkel, New York, N. Y.
Application May 28, 1943, Serial No. 110,321
Term of patent 7 years



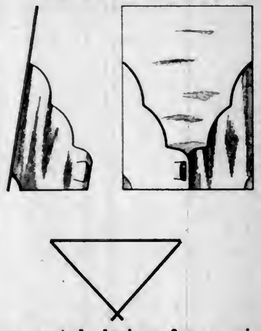
The ornamental design for a crocheted lady's handbag, as shown.

135,984
DESIGN FOR A COMBINED MANICURE IMPLEMENT AND NAIL FILE
Semmy S. Wechsler, New York, N. Y.
Application May 26, 1943, Serial No. 110,304
Term of patent 3½ years



The ornamental design for a combined manicure implement and nail file, substantially as shown.

135,985
DESIGN FOR A PICTURE FRAME HOLDER
Anna Di Bari, New York, N. Y.
Application May 15, 1943, Serial No. 110,216
Term of patent 7 years



The ornamental design for a picture frame holder, as shown and described.

135,986
DESIGN FOR AN APPLIQUÉ OR THE LIKE
Virgil F. Hubert, Coronado, Calif., assignor to Consolidated Vultee Aircraft Corporation, San Diego, Calif., a corporation of Delaware
Application May 5, 1943, Serial No. 110,127
Term of patent 7 years



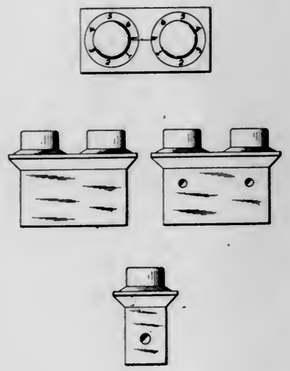
The ornamental design for an appliqué or the like, substantially as shown.

135,987
DESIGN FOR A STONE SETTING FOR RINGS
Jacob Karlan, Mount Vernon, N. Y.
Application January 25, 1943, Serial No. 109,342
Term of patent 3½ years



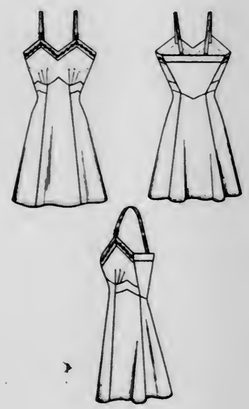
The ornamental design for a stone setting for rings, as shown.

135,988
DESIGN FOR A VALVE CASING
Clarence M. Sears, Ayer, and Eddie E. Anderson, Worcester, Mass.
Application December 16, 1942, Serial No. 109,046
Term of patent 7 years



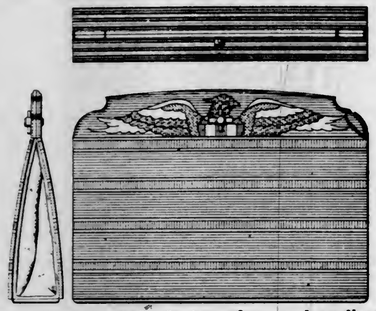
The ornamental design for a valve casing, as shown.

135,989
DESIGN FOR A SLIP
Semon Wolf, New York, N. Y.
Application June 4, 1943, Serial No. 110,364
Term of patent 14 years



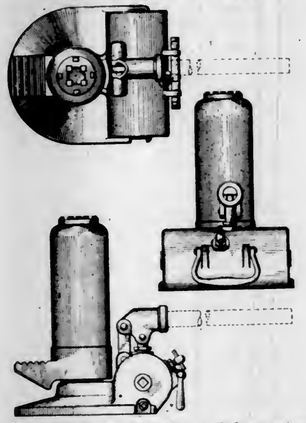
The ornamental design for a slip, substantially as shown.

135,990
DESIGN FOR A HANDBAG
Earl Gresh, St. Petersburg, Fla.
Application October 16, 1942, Serial No. 108,545
Term of patent 3½ years



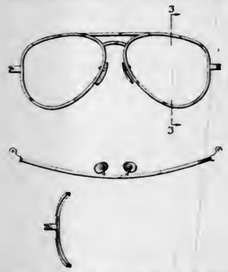
The ornamental design for a handbag, as shown and described.

135,991
DESIGN FOR A LIFTING JACK
Joseph J. Mueller, St. Joseph, Mich.
Application October 12, 1942, Serial No. 108,510
Term of patent 14 years



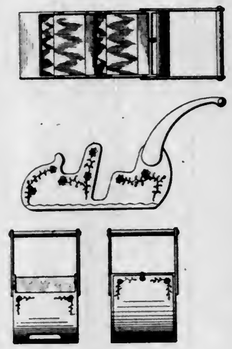
The ornamental design for a lifting jack, substantially as shown and described.

135,992
DESIGN FOR A SPECTACLE FRONT
Jacob J. Pomeranz, Brooklyn, N. Y.
Application November 18, 1942, Serial No. 108,811
Term of patent 14 years



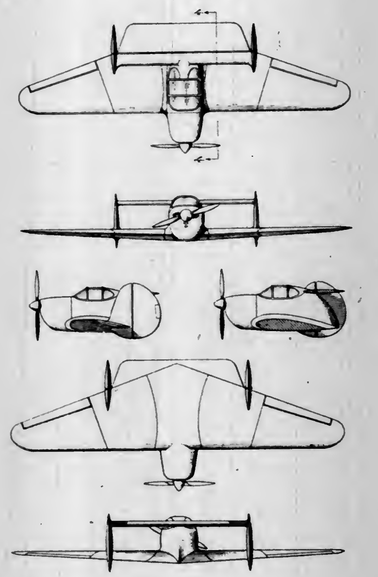
The ornamental design for a spectacle front, as shown.

135,993
DESIGN FOR A PERAMBULATOR BODY
Julian R. Spurling, Radburn, N. J.
Application November 30, 1942, Serial No. 108,906
Term of patent 7 years



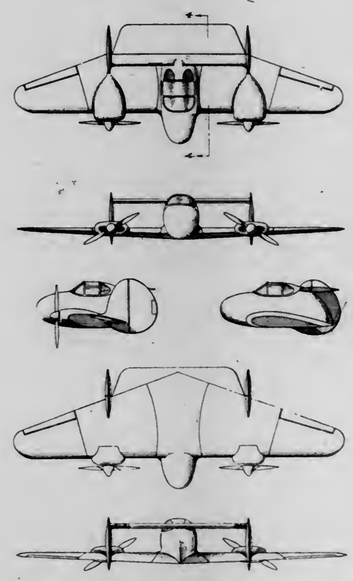
The ornamental design for a perambulator body, as shown.

135,994
DESIGN FOR AN AIRPLANE
Earl R. Floren, Antioch, Ill.
Application September 16, 1941, Serial No. 103,376
Term of patent 14 years



The ornamental design for an airplane, as shown.

135,995
DESIGN FOR AN AIRPLANE
Earl R. Floren, Antioch, Ill.
Application September 16, 1941, Serial No. 103,377
Term of patent 14 years



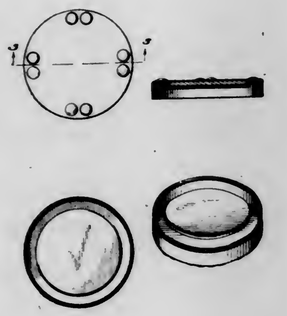
The ornamental design for an airplane, as shown.

135,996
DESIGN FOR A CAP
Max Gross, Buffalo, N. Y., assignor to Chic-Maid Hat Manufacturing Co., Inc., Buffalo, N. Y., a corporation of New York
Application June 1, 1943, Serial No. 110,340
Term of patent 3½ years



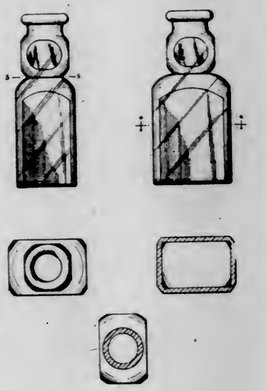
The ornamental design for a cap, as shown.

135,997
DESIGN FOR A FIBROUS CAP FOR CONTAINERS
George N. Mas, Washington, D. C.
Application May 6, 1943, Serial No. 110,183
Term of patent 14 years



The ornamental design for a fibrous cap for containers, as shown.

135,998
DESIGN FOR A BOTTLE
Samuel D. Schneier, Highland Park, N. J.
Application December 15, 1942, Serial No. 109,042
Term of patent 14 years



The ornamental design for a bottle, as shown.

135,999
DESIGN FOR A CONTAINER FOR FLAME COLORING MATERIAL
Florence J. De Coursey, Detroit, Mich.
Application April 26, 1943, Serial No. 110,051
Term of patent 7 years



The ornamental design for a container for flame coloring material, as shown.

136,000
DESIGN FOR A STOCKING
Jakob Leszczynski and Ruth Johanna Bouscher, New York, N. Y.
Application May 8, 1943, Serial No. 110,159
Term of patent 7 years



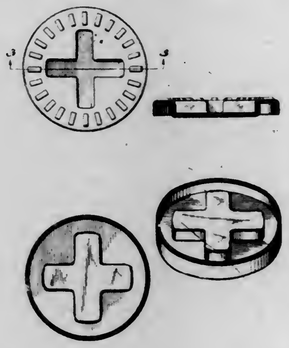
The ornamental design for a stocking, as shown.

136,001
DESIGN FOR A COMBINED BOUTONNIERE AND PERFUME CONTAINER
Paula de Pontrex, New York, N. Y., assignor to Pinaud Incorporated, New York, N. Y., a corporation of New York
Application May 3, 1943, Serial No. 110,099
Term of patent 7 years



The ornamental design for a combined boutonniere and perfume container, as shown.

136,002
DESIGN FOR A FIBROUS CAP FOR CONTAINERS
George N. Mas, Washington, D. C.
Application May 6, 1943, Serial No. 110,182
Term of patent 14 years



The ornamental design for a fibrous cap for containers, as shown.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Abbott Laboratories, North Chicago, Ill. Bacteriostatic agent. Serial No. 460,825; July 13. Class 6.

Aircraft Screw Products Company, Inc., Long Island City, N. Y. Magazine. Serial No. 459,821; July 13. Class 38.

Algonquin Mills, Inc., Hoboken, N. J. Yarn and thread. Serial No. 456,666; July 13. Class 43.

Amertype Recordgraph Corporation, New York, N. Y. Electrical recording and reproducing apparatus. Serial No. 458,301; July 13. Class 36.

Barcalo Manufacturing Company, Buffalo, N. Y. Wrenches, pliers, screwdrivers, etc. Serial No. 456,379; July 13. Class 23.

Barclay, Vernon, Limited, London, England. Wines. Serial No. 458,713; July 13. Class 47.

Barclay, Vernon, Limited, London, England. Whiskey, brandy, gin, etc. Serial No. 458,714; July 13. Class 49.

Bouthillette, George N., doing business as Everett Foot Cushion Company, Everett, Mass. Arch supports. Serial No. 460,646; July 13. Class 44.

Bryan, Joseph St. G., Richmond, Va. Liquid or salve for external application. Serial No. 459,589; July 13. Class 6.

Cartwright, W. B., Limited, Rawdon, near Leeds, England. Compressed tablets, lozenges and pastilles. Serial No. 459,159; July 13. Class 6.

Cartwright, W. B., Limited, Rawdon, near Leeds, England. Compressed tablets, lozenges and pastilles. Serial No. 459,161; July 13. Class 6.

Chalmers, Harvey & Son Inc., Amsterdam, N. Y. Pearl buttons. Serial No. 460,519; July 13. Class 40.

Commercial Plastics Company, Chicago, Ill. Ice cube trays. Serial No. 460,863; July 13. Class 31.

Continental Motors Corporation, Detroit and Muskegon, Mich. Internal combustion engines. Serial No. 460,042; July 13. Class 23.

Curtiss, Howard T., Utica, N. Y. Newspaper column. Serial No. 457,677; July 13. Class 38.

Durkee Marine Products Corporation, New York and Grasmere, Staten Island, N. Y. Flagpole eagles, mast balls, and name plates, etc. Serial No. 459,264; July 13. Class 50.

Enco Mfg. Co., Chicago, Ill. Tailstock turrets for lathes. Serial No. 460,866; July 13. Class 23.

Everett Foot Cushion Company. (See Bouthillette, George N.)

Expert Bedding Co., Chicago, Ill. Mattresses, pillows, box springs, etc. Serial No. 458,914; July 13. Class 32.

Fawcett Publications, Inc., Greenwich, Conn. Comic strip and a magazine or publication. Serial No. 453,382; July 13. Class 38.

Filtrol Corporation, Los Angeles, Calif. Adsorbents. Serial No. 460,471; July 13. Class 6.

Fuld Bros., Baltimore, Md. Disinfectants, germicides, and fungicides. Serial No. 460,522; July 13. Class 6.

Glascote Products, Inc., Cleveland, Ohio. Acid tanks, acid treating tanks, aging tanks, etc. Serial No. 456,597; July 13. Class 2.

Greenspan, Cantor, Co., Inc., doing business under the name of Labtex Fabrics, New York, N. Y. Rayon piece goods. Serial No. 455,323; July 13. Class 42.

Harrower Laboratory, Inc., The, Glendale, Calif. Combination of silver and pectin. Serial No. 454,336; July 13. Class 6.

Harrower Laboratory, Inc., The, Glendale, Calif. Combination of orally active adrenal cortex and thyroid extracts. Serial No. 454,337; July 13. Class 6.

Hollywood Rogue Sportswear, Inc., Hollywood, assignor to Hollwood Rogue Sportswear, Los Angeles, Calif. Men's sports shirts. Serial No. 457,742; July 13. Class 39.

Industrial Engineering Co. Inc., Minneapolis, Minn. Protractors. Serial No. 460,568; July 13. Class 26.

Jenkins Laboratories, Inc., Auburn, N. Y. Sedative and anondyne tablets. Serial No. 459,569. July 13. Class 6.

Kalich, M. L., & Co. (See Kalich, Rose.)

Kalich, Rose, doing business as M. L. Kalich & Co., Watsonville, Calif. Fresh vegetables. Serial No. 460,801; July 13. Class 46.

Ken Coats, Inc., New York, N. Y. Ladies' and misses' coats, suits, and coat and suit ensembles. Serial No. 460,617; July 13. Class 39.

Kidde, Walter, & Company, Inc., New York, N. Y., and Belleville, N. J. Machine gun chargers. Serial No. 460,028; July 13. Class 9.

Labtex Fabrics. (See Greenspan, Cantor Co., Inc.)

Leggett, Francis H., & Company, New York, N. Y. Vacuum packed whole kernel golden corn, sweet red and green peppers, sugar and salt added. Serial No. 459,880; July 13. Class 46.

Levy, Nat, New York, N. Y. Costume jewelry, not including watches. Serial No. 458,075; July 13. Class 28.

Luigi Lotorto, Stockton, Calif. Olive oil. Serial No. 460,374; July 13. Class 46.

Mallory, P. R. & Co., Inc., Indianapolis, Ind. Non-ferrous alloys and non-ferrous metal castings. Serial No. 457,609; July 13. Class 14.

McLaurin-Jones Co., Brookfield, Mass. Gummed paper. Serial No. 458,541; July 13. Class 37.

Morris, Morris, doing business as United Chemical Works, Chicago, Ill. Fur bleaches, fur dyes, fur glazes, etc. Serial Nos. 459,630–1; July 13. Class 6.

Murray Corporation of America, The, Detroit, Mich. Rivet delivering tool. Serial No. 460,805; July 13. Class 23.

Mylo Foods Co., Brooklyn, N. Y. Syrup. Serial No. 460,575; July 13. Class 45.

National Mattress Company, Huntington, W. Va. Mattresses. Serial No. 460,743; July 13. Class 32.

National Mineral Company, Chicago, Ill. Permanent hair waving solution and curling agent. Serial No. 452,864; July 13. Class 6.

Niagara Blower Company, Buffalo and New York, N. Y. Blower type evaporative heat exchangers. Serial No. 459,941; July 13. Class 34.

Nolde and Horst Company, The, Reading, Pa. Hosiery. Serial No. 460,268; July 13. Class 39.

Nyal Company, Detroit, Mich. Digestive enzyme. Serial No. 460,382; July 13. Class 6.

Nyal Company, Detroit, Mich. Vitamin preparation. Serial No. 460,551; July 13. Class 6.

Nyal Company, Detroit, Mich. Combined vitamin and mineral preparation. Serial No. 460,552; July 13. Class 6.

Ohio Ferro-Alloys Corporation, Canton, Ohio. Ferro-alloys. Serial No. 460,479; July 13. Class 14.

Pagani, Angela, doing business as A. Pagani, Glen Ellen, Calif. Grape brandy. Serial No. 460,386; July 13. Class 49.

Paola, Joseph, doing business as Topaz Bottling Company, Providence, R. I. Syrup. Serial No. 448,800; July 13. Class 45.

Permanente Metals Corporation, The, Oakland, Calif. Ferrosilicon. Serial No. 460,535; July 13. Class 1.

Pinaud, Incorporated, New York, N. Y. Toilet soap. Serial No. 460,451; July 13. Class 4.

Pinaud, Incorporated, New York, N. Y. Eau de cologne and face powder. Serial No. 460,452; July 13. Class 6.

Porcelain Enamel & Mfg. Co. of Baltimore, The, doing business as The Porcelain Enamel & Mfg. Co., Baltimore, Md. Composite electrical insulating material. Serial No. 458,019; July 13. Class 21.

Raybestos-Manhattan, Inc., Stratford, Conn. Synthetic rubber-like material. Serial No. 458,743; July 13. Class 1.

Reid, Murdoch & Co., Chicago, Ill. Soap chips and scouring soap. Serial No. 460,537; July 13. Class 4.

Reid, Murdoch & Co., Chicago, Ill. Ginger ale and root beer. Serial No. 460,538; July 13. Class 45.

Revere Copper and Brass Incorporated, New York, N. Y. Zinc base alloys. Serial No. 452,811; July 13. Class 14.

Revere Knitting Mills, Inc., Malden, Mass. Men's and boys' sportswear. Serial No. 459,765; July 13. Class 39.

Romanach, Jose A. P., Havana, Cuba. Deodorant powder, pomade tincture, and oils for the hair, etc. Serial No. 449,021; July 13. Class 6.

Sandoz Chemical Works, Inc., New York, N. Y. Medicinal preparation. Serial No. 460,556; July 13. Class 6.

Schmid, Julius, Inc., New York, N. Y. Nipples. Serial No. 461,008; July 13. Class 44.

Scholl Mfg Co., Inc., The, Chicago, Ill. Arch supports. Serial No. 458,898; July 13. Class 44.

Sears, Roebuck and Co., Chicago, Ill. Yarn. Serial No. 460,773; July 13. Class 43.

Shlansky, Philip, & Bro., Inc., New York, N. Y. Women's, misses', and girls' coats. Serial No. 460,659; July 13. Class 39.

Skyscope Company of New York, The, New York, N. Y. Astronomical telescopes. Serial No. 460,558; July 13. Class 26.

Stow Manufacturing Company, Inc., Binghamton, N. Y. Flexible shafts and accessories therefor. Serial No. 460,777; July 13. Class 23.

Student, Erich, Cleveland, Ohio. Photographic goods and supplies. Serial No. 458,233; July 13. Class 26.

Superior Macaroni Company, doing business as Superior Tasty Products Co., Los Angeles, Calif. Powder base. Serial No. 460,245; July 13. Class 45.

Superior Tasty Products Co. (See Superior Macaroni Company.)
Swift & Anderson, Inc., Boston, Mass. Illuminated magnifiers and readers. Serial No. 460,636; July 13. Class 26.
Techkote Co., The, Inglewood, Calif. Concrete curing compound. Serial No. 460,011–12; July 13. Class 12.
Templeton, Kenly & Co., Chicago, Ill. Tool in the nature of a jack. Serial No. 460,459; July 13. Class 23.
Thermopin Laboratories, Inc., New York, N. Y. Bubble bath, eau de cologne, and dusting powder. Serial No. 459,850; July 13. Class 6.
Topaz Bottling Company. (See Paola, Joseph.)
Tremco Manufacturing Company, The, Cleveland, Ohio. Treatment material. Serial No. 458,991; July 13. Class 12.
Trotti, Clayton H., Greenwood, S. C. Polish and cleaner. Serial No. 460,223; July 13. Class 16.
United Chemical Works. (See Morris, Morris.)
United States Department of Agriculture, Washington, D. C. Live poultry and eggs. Serial Nos. 455,033–4; July 13. Class 46.
Upjohn Company, The, Kalamazoo, Mich. Medicinal preparation. Serial No. 460,817; July 13. Class 6.
Worthington Pump and Machinery Corporation, Harrison, N. J. Sheaves and pulleys. Serial No. 456,760; July 13. Class 23.

LIST OF REGISTRANTS OF TRADE-MARKS

A. P. W. Paper Company, Inc. (See Albany Perforated Wrapping Paper Co.)
Abbott Laboratories, North Chicago, Ill. Antiseptic preparation. 402,289; July 13; Serial No. 457,569; published May 4, 1943. Class 6.
Abbott Laboratories, Chicago, to Abbott Laboratories, North Chicago, Ill. Preparation for the prevention and treatment of sunburn. 174,510; renewed Oct. 16, 1943.
Abbott Laboratoris, Chicago, to Abbott Laboratories, North Chicago, Ill. Butyl aminobenzoate (a local anaesthetic). 175,095; renewed Oct. 30, 1943.
Ace Hardware Manufacturing Corporation, Philadelphia, Pa., by change of name to Ace Manufacturing Corporation. Knife and edge-tool sharpening machines. 173,207; renewed Sept. 18, 1943.
Ace Manufacturing Corporation. (See Ace Hardware Manufacturing Corporation.)
Adam Hat Stores, Inc., New York, N. Y. Men's hats. 402,386; July 13. Class 39.
Adel Precision Products Corp., Burbank, Calif. Hydraulic control valves especially designed for use on aircraft. 402,318; July 13; Serial No. 458,422; published May 4, 1943. Class 13.
Aktiebolag, Halda, Svangata, Sweden. Typewriters, check protectors, book-keeping machines, etc., and parts and accessories therefor. 402,253; July 13; Serial No. 452,928; published May 4, 1943. Class 23.
Albany Perforated Wrapping Paper Co., Albany, N. Y., by change of name of A. P. W. Paper Company, Inc. Toilet paper and paper towels. 175,284; renewed Nov. 6, 1943.
Alpha Mills, Schuylkill Haven, Pa. Children's underwear, sweaters, and pants. 402,297; July 13; Serial No. 457,802; published May 4, 1943. Class 39.
American Lead Pencil Company, New York, N. Y., to American Lead Pencil Company, Hoboken, N. J. Erasers, lead pencils, refill leads, etc. 168,708; renewed May 29, 1943.
American Saw & Mfg. Company, Springfield, Mass. Hack saw blades. 402,359; July 13; Serial No. 459,101; published Apr. 27, 1943. Class 23.
Ansbacher Siegle Corporation, New York, N. Y. Insecticidal material. 402,236; July 13; Serial No. 422,849; published Nov. 21, 1939. Class 6.
Antiseptol Company, Inc., Chicago, Ill. Water pipeline dispensers of water softening and cleansing compounds. 402,272; July 13; Serial No. 456,411; published May 4, 1943. Class 13.
Arden, Elizabeth. (See Lewis, Florence N.)
Arden, Elizabeth, Sales Corporation. (See Lewis, Florence N., assignor.)
Arkansas Company, Inc., Newark, N. J. Protecting agents against fading used in the finishing of textile fabrics. 402,334; July 13; Serial No. 458,675; published Apr. 27, 1943. Class 6.
Atlantic Supply Company, The, Baltimore, Md. Feeds. 402,316; July 13. Serial No. 458,353; published Apr. 27, 1943. Class 46.
Atlas Asbestos Company, North Wales, Pa. Asbestos wicks for oil burning stoves and heaters. 402,336; July 13; Serial No. 458,700; published May 4, 1943. Class 34.
Attenborough, C. W., & Co. Limited, Leicester, England. Knitted outerwear and underwear garments. 402,322; July 13; Serial No. 458,452; published May 4, 1943. Class 39.
B-H Tool and Supply Co., The, Detroit, Mich. Highspeed metal cutting tools. 402,258; July 13; Serial No. 454,498; published Apr. 27, 1943. Class 23.
Bacmo Postman Corporation, New York, N. Y. Gloves. 402,302; July 13; Serial No. 457,889; published Apr. 20, 1943. Class 39.
Balboa, Mabel Whitesell, Woodside, N. Y. Gloves. 402,373–4; July 13. Class 39.
Barber Asphalt Company, The, Philadelphia, assignor, by mesne assignments, to Lancaster Iron Works, Inc., Lancaster, Pa. Fire wagons, surface heaters, stationary melting kettles, etc. 174,469; renewed Oct. 16, 1943.
Barium and Chemicals, Inc., Willoughby, Ohio. Mixture of argillaceous and carbonaceous materials for blanketing and insulating purposes in the risers of foundry molds. 402,308; July 13; Serial No. 458,218; published May 4, 1943. Class 1.
Barron, Anderson Company, Boston, Mass. Woolen and worsted piece goods. 402,380; July 13. Class 42.
Bausch & Lomb Optical Company, Rochester, N. Y. Spectacle and goggle lenses and lens blanks. 402,347–9; July 13; Serial Nos. 458,888–90; published May 4, 1943. Class 26.
Beech Aircraft Corporation, Wichita, Kans. 402,327; July 13; Serial No. 458,563; published May 4, 1943. Class 19.
Behrer & Company. (See Behrer, Martin.)
Behrer, Martin, doing business as Behrer & Company, assignor to Behrer-Mason Company, Inc., New York, N. Y. Shower and bathroom fixtures and accessories, etc. 175,809; renewed Nov. 13, 1943.
Behrer-Mason Company, Inc. (See Behrer, Martin, assignor.)
Bernstein, Isreal M., doing business as Boston Blouse Co., Boston, Mass. Misses' and women's blouses. 402,340; July 13; Serial No. 458,723; published May 4, 1943. Class 39.
Berry, Demoville & Co., Nashville, Tenn., assignor, by mesne assignments, to McKesson & Robbins, Incorporated, New York, N. Y. Castor oil. 176,227; renewed Nov. 20, 1943.
Bethlehem Steel Company, to Bethlehem Steel Company, Bethlehem, Pa., by merger. Metal valves for mains and pipes. 176,037; renewed Nov. 13, 1943.
Biltmore Industries, Inc. (See Grove Park Inn, Inc.)
Birtwistle, J. H., & Company, Limited, Lancashire, England. Piece goods, sheets, pillow cases, etc. 402,248; July 13; Serial No. 451,195; published Apr. 13, 1943. Class 42.
Blanchard, Fred H., Philadelphia, Pa. Ointment. 402,293; July 13; Serial No. 457,754; published May 4, 1943. Class 6.
Boston Blouse Co. (See Bernstein, Isreal M.)
Brener Electric Mfg Co., Chicago, Ill. Wooden mallets. 402,268; July 13; Serial No. 456,010; published Apr. 20, 1943. Class 23.
British Power Boat Company, Ltd., The, Hythe, England. Motor bonts. 402,298–9; July 13, Serial Nos. 457,804–5; published May 4, 1943. Class 19.
Brown, Rives S. (See Capcoss Co., Inc., The.)
Bruning, Charles, Company, Inc. (See New York Blue Print Paper Company.)
Campbell, A. S., Co., Inc., Boston and East Boston, Mass. Dolly trucks. 402,246; July 13; Serial No. 449,825; published May 4, 1943. Class 19.
Capcoss Co., Inc., The, to Rives S. Brown, Martinsville, Va., successor. Medicinal preparation. 175,133; renewed Oct. 30, 1943.
Cardone, Frank, Brooklyn, N. Y. Shoes of all types and moccasins. 402,270; July 13; Serial No. 456,176; published Apr. 27, 1943. Class 39.
Casablanca Co., Brooklyn, N. Y. Cosmetic preparation. 402,385; July 13, 1943. Class 6.
Celanese Corporation of America, New York, N. Y. Staple fibers. 402,281; July 13; Serial No. 457,166; published May 4, 1943. Class 1.
Charleston Milling Company, Charleston, W. Va. Wheat flour. 402,239; July 13; Serial No. 440,281; published May 4, 1943. Class 46.
Chicago Flexible Shaft Company, Chicago, Ill. Oil pumps. 402,360; July 13; Serial No. 459,107; published Apr. 27, 1943. Class 23.
Cluett, Peabody & Co., Inc., Troy, N. Y. Neckties. 402,341; July 13. Serial No. 458,751; published Apr. 27, 1943. Class 39.
Cohn-Hall-Marx Co., New York, N. Y. Cotton, rayon, and/or silk piece goods. 402,324; July 13; Serial No. 458,490; published Apr. 27, 1943. Class 42.
Cohn-Hall-Marx Co., New York, N. Y. Piece goods. 402,326; July 13, Serial No. 458,509; published Apr. 20, 1943. Class 42.
Consolidated Tea Company, Inc., New York, N. Y. Tea. 402,262; July 13; Serial No. 455,296; published May 4, 1943. Class 46.

Co-Operative Displays Inc., Cincinnati, Ohio. Silhouette models for instructional uses to identify actual aeroplanes and material in sets for making the models. 402,323; July 13; Serial No. 458,456; published May 4, 1943. Class 26.
Cordell Hosiery Corporation, Greensboro, N. C. Hosiery. 402,383; July 13. Class 42.
Cotter, R. E., Co., San Francisco, assignor to Monterey Canning Co., Monterey, Calif. Canned fish, fruits, and vegetables. 175,331; renewed Nov. 6, 1943.
Craddock-Terry Co., assignor to Craddock-Terry Shoe Corporation, Lynchburg, Va. Shoes. 176,274; renewed Nov. 20, 1943.
Craddock-Terry Shoe Corporation. (See Craddock-Terry Co., assignor.)
Crawford, Carol, Inc., New York, N. Y. Ladies' dresses. 402,333; July 13; Serial No. 458,646; published Apr. 27, 1943. Class 39.
Davey Tree Expert Company, The, Kent, Ohio. Chemical composition. 175,424; renewed Nov. 6, 1943.
Delete Distributors, Inc., New York, N. Y. Depilatory. 402,358; July 13; Serial No. 459,070; published Apr. 27, 1943. Class 6.
Delite Fabrics, Inc., Westerly, R. I. Woven fabric in the piece. 402,296; July 13; Serial No. 457,790; published Apr. 20, 1943. Class 42.
Dern Food Company, The, Colorado Springs, Colo., by change of name to The Dern Company. Coffee. 174,684; renewed Oct. 23, 1943.
Dern Company, The. (See Dern Food Company, The.)
Detrick, M. H., Company, Chicago, Ill. Refractory blocks and tile, metal holding and supporting castings, and heat insulation. 402,279–80; July 13; Serial Nos. 457,088–9; published Apr. 13, 1943. Class 12.
Devoto y Cauchaner, to Devoto & Cauchaner, Buenos Aires, Argentina, successor. Soaps, pastes, powders, etc. 171,072; renewed July 31, 1943.
Dewein, Victor C., Emery and Forsyth, Ill. Feeds for livestock and poultry. 402,273; July 13; Serial No. 456,682; published May 4, 1943. Class 46.
Dewein, Victor C., Emery and Forsyth, Ill. Feeds for livestock and poultry. 402,274; July 13; Serial No. 456,684; published May 4, 1943. Class 46.
Diamond Alkali Company, Pittsburgh, Pa. Laundry sours, laundry sodas, cleaners, and cleansers, etc. 402,350; July 13; Serial No. 458,935; published Apr. 27, 1943. Class 6.
Driver-Harris Company. (See Electrical Alloy Company, The, assignor.)
Drug Products Co. Inc., The, Long Island City, N. Y., assignor, by mesne assignments, to Yeast-Vite (U. S. A.) Inc., Bloomfield, N. J. Food tonic and general stimulant to cell metabolism. 176,199; renewed Nov. 20, 1943.
Dyestuffs & Chemicals, Incorporated, St. Louis, Mo. Coal-tar dyes, colors, and intermediates. 173,050; renewed Sept. 11, 1943.
Dyestuffs & Chemicals, Incorporated, St. Louis, Mo. Coloring matter for butter. 174,359; renewed Oct. 16, 1943.
Eagle Nest Hatchery Company. (See Little, Henry, & Sons, assignor.)
Eagle Nest Hatchery, The. (See Little, Henry, & Sons.)
Electrical Alloy Company, The, Morristown, assignor to Driver-Harris Company, Harrison, N. J. Electric resistance materials. 175,997; renewed Nov. 13, 1943.
Emery Industries, Inc., Cincinnati, Ohio. Textile oils and textile oil bases, chemicals, medicines, etc. 402,259; July 13; Serial No. 454,600; published Apr. 27, 1943. Class 6.
Everpoint Needle Company, New York, N. Y. Phonograph needles. 402,329; July 13; Serial No. 458,590; published May 4, 1943. Class 36.
Executone, Inc., New York, N. Y. Amplified voice type of intercommunicating equipment. 402,254; July 13; Serial No. 453,669; published May 4, 1943. Class 21.
Fairmoor Sportswear, Inc., New York, N. Y. Ladies' suits and coats. 402,286–7; July 13; Serial Nos. 457,466–7; published Apr. 27, 1943. Class 39.
Fisher Scientific Company, Pittsburgh, Pa. Laboratory reagent chemicals. 402,304; July 13; Serial No. 458,035; published Apr. 27, 1943. Class 6.
Fooks, B. T., Manufacturing Company, Camden, Ark. Soft drinks and fountain syrups. 402,357; July 13; Serial No. 459,046; published Apr. 27, 1943. Class 45.
Fooks, B. T., Manufacturing Company, Camden, Ark. Soft drinks and fountain syrups. 402,356; July 13; Serial No. 459,045; published Apr. 27, 1943. Class 45.
Foreman Fabrics Inc., New York, N. Y. Woven textiles in the piece. 402,381–2; July 13. Class 42.
Foster Machine Company, Westfield, Mass. Doublers, cheese winders, magazine creels, etc. 402,319; July 13; Serial No. 458,426; published Apr. 13, 1943. Class 23.
Fostoria Pressed Steel Corp., The, Fostoria, Ohio. Guards, brackets, assembly means therefor, and parts thereof. 402,306; July 13; Serial No. 458,096; published May 4, 1943. Class 23.
Fox Brothers & Company, Limited, Wellington, England. Serges and woollen and worsted piece goods. 402,252; July 13; Serial No. 452,924; published Apr. 6, 1943. Class 42.
Franc-Strohmenger & Cowan, Inc., New York, assignor to Franc-Strohmenger & Cowan, Inc., Troy, N. Y. Neckties, cravats, and scarfs. 176,136; renewed Nov. 20, 1943.
Friedlander, Percy, and Albert Solomon, to The Hosiery Mills Company, Chicago, Ill., successor. Hosiery. 174,347; renewed Oct. 16, 1943.
Friedman-Marks Clothing Company, Inc., Richmond, Va. Men's suits and coats. 402,242; July 13; Serial No. 445,930; published Apr. 27, 1943. Class 39.
Friedman-Marks Clothing Company, Inc., Richmond, Va. Men's suits and coats. 402,243; July 13; Serial No. 445,931; published May 4, 1943. Class 39.
Friend Brothers, assignor to Friend Brothers Inc., Melrose, Mass. Bread, cake, pies, etc. 172,747; renewed Sept. 11, 1943.
Frosst, Charles E., & Co., Montreal, Quebec, Canada, and Richmond, Va. Medicinal products. 402,266; July 13; Serial No. 455,653; published Apr. 27, 1943. Class 6.
Fuller, W. P., & Co., San Francisco, Calif. Metal paints. 402,337; July 13; Serial No. 458,704; published Apr. 13, 1943. Class 16.
General Properties Company, Inc., Toledo, Ohio. Atmosphere correcting gas converters for heat treating furnaces. 402,276; July 13; Serial No. 456,983; published May 4, 1943. Class 34.
Genesee Tool Company, Fenton, Mich. Metal cutting tools. 402,315; July 13; Serial No. 458,330; published May 4, 1943. Class 23.
Gleason Works, The, Rochester, N. Y. Clutches. 402,346; July 13; Serial No. 458,863; published May 4, 1943. Class 23.
Goodman, A., & Sons, Inc., New York, N. Y. Matzoths. 175,824; renewed Nov. 13, 1943.
Gossard, H. W., Co., The, Chicago, Ill. Corsets, girdles, combination corsets, etc. 402,342; July 13; Serial No. 458,782; published Apr. 27, 1943. Class 39.
Grammes, L. F., & Sons, Inc., Allentown, Pa. Base metal etched table hollow ware. 402,364; July 13. Class 13.
Grant, W. T., Company, Lynn, Mass., and New York, assignor to W. T. Grant Company, New York, N. Y. Men's dress, negligee, and work shirts. 176,255; renewed Nov. 20, 1943.
Greenberg, Ben & Brother, Chicago, Ill. Carpets and rugs. 402,261; July 13; Serial No. 455,071; published Apr. 20, 1943. Class 42.
Greenfield's, E., Sons, New York and Brooklyn, to Henry Heide, Incorporated, New York, N. Y., by merger. Chocolates and candies. 170,088; renewed July 10, 1943.
Greenfield's, E., Sons, New York and Brooklyn, to Henry Heide, Incorporated, New York, N. Y., by merger. Chocolates and candies. 170,495; renewed July 17, 1943.
Grove Park Inn., Inc., doing business as Biltmore Industries, Asheville, N. C., by change of name to Biltmore Industries, Inc. Woolen homespun textile fabrics in the piece. 173,020; renewed Sept. 11, 1943.
Hall, Thralls & Co. to Luna H. Thralls, doing business as Hall, Thralls & Co., Hymera, Ind., successor. Shampoo, scalp oil, dandruff ointment, etc. 174,368; renewed Oct. 16, 1943.
Heide, Henry, Incorporated. (See Greenfield's, E., Sons.)
Helm, Ray P., doing business as The Helm Company, Benton Harbor, Mich. Antacid neutralizing powder. 402,325; July 13; Serial No. 458,492; published May 4, 1943. Class 6.
Hess, Dr., & Clark, Inc., Ashland, Ohio. Disinfectant. 402,362; July 13; Serial No. 459,150; published May 4, 1943. Class 6.
Hill Clothes Dryer Co., Worcester, assignor to Moulton Ladder Manufacturing Co., Somerville, Mass. Clothes driers, balcony clothes driers, yard clothes driers, etc. 175,918; renewed Nov. 13, 1943.
Hosiery Mills Company, The. (See Friedlander, P., and Solomon.)
Hunt-Rankin Leather Co., Boston, Mass. Leather. 172,405; renewed Aug. 28, 1943.
Hydril Company, Los Angeles, Calif. Tool joint members. 402,365; July 13. Class 23.
Industrial Rayon Corporation, Cleveland, Ohio. Rayon yarn. 402,309; July 13; Serial No. 458,224; published Apr. 20, 1943. Class 43.
Interchemical Corporation. (See Queen City Printing Ink Company, The, assignor.)
International Shoe Co., St. Louis, Mo. Boots and shoes. 402,330–1; July 13; Serial Nos. 458,593–4; published Apr. 20, 1943. Class 39.
International Shoe Company. (See Plant, Thomas G., Company, assignor.)
Irving Subway Grating Co., Inc., Long Island City, N. Y. Metal gratings. 402,328; July 13; Serial No. 458,570; published May 4, 1943. Class 12.
Irvington Varnish & Insulator Co., Irvington, N. J. Extruded plastic tubing for electrical insulation. 402,320; July 13; Serial No. 458,428; published May 4, 1943. Class 21.
James Manufacturing Company, Fort Atkinson, Wis. Watering cups, pans, and troughs, etc. 402,251; July 13; Serial No. 451,934; published May 4, 1943. Class 2.

Jarrell, B. C., & Company, Humboldt, Tenn. Shopping baskets equipped with a handle and wheels. 402,285; July 13; Serial No. 457,438; published May 4, 1943. Class 2.

Jeffrey Manufacturing Company, The, Columbus, Ohio. Excavating, elevating, and conveying machinery. 175,366; renewed Nov. 6, 1943.

Juvenile Shoe Corporation of America, The, Carthage, to The Juvenile Shoe Corporation of America, Aurora and St. Louis, Mo. Boots and shoes. 174,110; renewed Oct. 2, 1943.

Keasbey & Mattison Company, Ambler, Pa. Asbestos boards, asbestos sheets, asbestos lumber, etc. 402,277; July 13; Serial No. 457,038; published May 4, 1943. Class 12.

Kedmont Manufacturing & Waterproofing Co. (See Van Wolf, A. F.)

Keeley Stove Company, The, Columbia, Pa. Coal, wood, and gas cooking and heating stoves and ranges, etc. 172,839; renewed Sept. 11, 1943.

Keeley Stove Company, The, Columbia, Pa. Coal, wood, and gas cooking and heating stoves, etc. 175,783; renewed Nov. 13, 1943.

Kelly, Douglas & Co., Limited, Vancouver, Canada. Tea. 174,732; renewed Oct. 23, 1943.

Klauber, Fred S., Inc., New York, N. Y. Handkerchiefs and kerchiefs. 402,379; July 13. Class 39.

Kline's Inc., St. Louis, Mo. Children's dresses, coats, and suits. 402,387; July 13. Class 39.

Lambert Pharmacal Company, Wilmington, Del. Creamed or semi-liquid tooth-paste. 402,344; July 13; Serial No. 458,842; published May 4, 1943. Class 6.

Lancaster Iron Works, Inc. (See Barber Asphalt Company, The, assignor.)

Lane Company, Inc., The, Altavista, Va. Cedar chests. 175,916; renewed Nov. 13, 1943.

Lee & Cady. (See Worden Grocer Company, assignor.)

Lelong, Lucien, Inc., Chicago, Ill. Lipstick. 402,335; July 13; Serial No. 458,687; published May 4, 1943. Class 6.

Lemos, Enrique, Buenos Aires, Argentina. Vaccines, serums and ferments. 402,247; July 13; Serial No. 450,836; published Apr. 27, 1943. Class 6.

Lewis, Florence N., doing business as Elizabeth Arden, assignor to Elizabeth Arden Sales Corporation, New York, N. Y. Rouge and powder. 172,732; renewed Sept. 11, 1943.

Lieberman, John P. & Co., Detroit, Mich. Smoking and chewing tobacco. 402,300; July 13; Serial No. 457,856; published May 4, 1943. Class 17.

Little, Henry, & Sons, doing business as The Eagle Nest Hatchery, assignor to The Eagle Nest Hatchery Company, Upper Sandusky, Ohio. Live chicks. 176,187; renewed Nov. 20, 1943.

Lowenstein, M. & Sons, Inc., New York, N. Y. Cotton and/or rayon piece goods. 402,305; July 13; Serial No. 458,041; published Apr. 20, 1943. Class 42.

Lucurell, John, Seattle, Wash. Ladies' trimmed hats. 402,284; July 13; Serial No. 457,395; published Apr. 27, 1943. Class 39.

Lustroil Co. (See Nicomede, Joe.)

Maas, A. R., Chemical Co., South Gate, Calif. Anhydrous trisodium phosphate. 402,264; July 13; Serial No. 455,512; published Apr. 27, 1943. Class 6.

Macy, R. H., & Co., Inc., New York, N. Y. Pin cushions. 402,307; July 13; Serial No. 458,180; published Apr. 20, 1943. Class 40.

Mandee Fabrics, Inc., New York, N. Y. Fabrics in the piece. 402,313; July 13; Serial No. 458,243; published Apr. 20, 1943. Class 42.

Marcus Bedspread & Drapery Corp., New York, N. Y. Bedspreads, dresser scarfs, piece goods, etc. 402,303; July 13; Serial No. 457,982; published Apr. 13, 1943. Class 42.

Marshall Field & Company, Chicago, Ill. Sheets and pillowcases. 169,991; renewed July 10, 1943.

Master Builders Company, The, Cleveland, Ohio. Preparations intended to be applied to mortar, cement, concrete, and the like. No. 174,470; renewed Oct. 16, 1943.

McKesson & Robbins, Incorporated. (See Berry, Demoville & Co., assignor.)

Menley & James, Limited, New York, N. Y. Pessaries for vaginal diseases and disorders, suppositories for rectal diseases, etc. 176,225; renewed Nov. 20, 1943.

Merit Clothing Company, Inc., Mayfield, Ky. Men's and students' outer suits. 402,370; July 13. Class 39.

Metal Products Engineering, Inc., Los Angeles, Calif. Fire extinguishing devices. 402,265; July 13; Serial No. 455,631; published May 4, 1943. Class 23.

Midland Flour Milling Co., Kansas City, to The Midland Flour Milling Co., North Kansas City, Mo. Wheat flour. 172,436; renewed Aug. 28, 1943.

Mills, James G., doing business as Saltersod Company, Electra, to J. G. Mills, Houston, Tex. Preparation for the treatment of influenza. 176,294; renewed Nov. 20, 1943.

Minneapolis Brewing Company, Minneapolis, Minn. Beer. 402,361; July 13; Serial No. 459,123; published May 4, 1943. Class 48.

Mixermobile Manufacturers, Portland, Oreg. Motor driven concrete batch hauling and placing vehicles. 402,260; July 13; Serial No. 454,809; published Apr. 20, 1943. Class 23.

Monterey Canning Co. (See Cotter, R. E., Co., assignor.)

Moran, Ralph Victor, doing business as Vic Moran, Bradford, Pa. Toy coin banks. 402,338–9; July 13; Serial Nos. 458,709–10; published May 4, 1943. Class 22.

Mosse, Incorporated, New York, N. Y. Bed sheets, pillowcases, bedspreads, etc. 176,201; renewed Nov. 20, 1943.

Moulton Ladder Manufacturing Co. (See Hill Clothes Dryer Co., assignor.)

Myers, F. E., The, & Bro. Co., Ashland, Ohio. Pumps. 171,764; renewed Aug. 14, 1943.

National Silver Company, New York, N. Y. Tableware and cutlery. 402,267; July 13; Serial No. 455,761; published Apr. 27, 1943. Class 23.

Nelkin, Frances-Walter, Co. (See Nelkin, Walter.)

Nelkin, Walter, doing business as Frances-Walter Nelkin Co., New York, N. Y. Ladies' hats. 402,369; July 13. Class 39.

New Method Equipment Company, Indianola, Iowa. Earth moving machine. 402,278; July 13; Serial No. 457,042; published Apr. 13, 1943. Class 23.

New Process Company, Warren, Pa. Rayon hosiery. 402,371; July 13. Class 39.

New York Blue Print Paper Company, New York, N. Y., by change of name to Charles Bruning Company, Inc. Sensitized blue-print paper. 167,248; renewed Apr. 24, 1943.

Nicholson File Company, Providence, R. I. Files and rasps. 175,290; renewed Nov. 6, 1943.

Nicomede Music Company. (See Nicomede, Joe.)

Nicomede, Joe, doing business as Lustroil Co., to Jos. Nicomede, trading as Nicomede Music Company, Altoona, Pa. Polish. 174,778; renewed Oct. 23, 1943.

North Packing and Provision Company, Boston, Mass., assignor, by mesne assignments, to Swift and Company, Chicago, Ill. Lard. 23,131; re-renewed May 30, 1943.

North Packing and Provision Company, Boston, Mass., assignor, by mesne assignments, to Swift and Company, Chicago, Ill. Lard. 23,258; re-renewed June 27, 1943.

Northen, Chas., Tampa, Fla. Concentrate of minerals and vitamins. 402,368; July 13. Class 6.

Omni Products Corporation, New York, N. Y. Hammers, axes, hatchets, etc. 402,255; July 13; Serial No. 453,827; published Apr. 20, 1943. Class 23.

One-Two-Three Company, Inc., New York, N. Y. Flavoring concentrate for beverages. 402,332; July 13; Serial No. 458,599; published May 4, 1943. Class 45.

Orange Knitting Mills, Incorporated, Orange, Va. Hosiery. 402,301; July 13; Serial No. 457,862; published Apr. 27, 1943. Class 39.

Padalino, Ralph, Elizabeth, N. J. Liquid medicine for the treatment of athlete's foot. 402,275; July 13; Serial No. 456,829; published Apr. 27, 1943. Class 6.

Parfums Massenet, Incorporated, New York, N. Y. Perfumes and toilet water. 402,294; July 13; Serial No. 457,776; published May 4, 1943. Class 6.

Paris Neckwear Company, Inc., New York, N .Y. Neckties. 402,317; July 13; Serial No. 458,359; published Apr. 27, 1943. Class 39.

Park & Tilford, New York, N. Y. Tooth brushes. 176,161; renewed Nov. 20, 1943.

Partola Distributing Company, New York, N. Y., to Partola Products Co., Chicago, Ill., successor. Antiseptic laxative. 168,322; renewed May 22, 1943.

Peerless Mfg. Company, The, Norristown, Pa., to The Peerless Paper Mills, Inc., Oaks, Pa., successor. Toilet paper. 174,207; renewed Oct. 9, 1943.

Peerless Paper Mills, Inc., The. (See Peerless Mfg. Company, The.)

Pelican Bay Lumber Company, Klamath Falls, Oreg. Lumber, laths, moldings, etc. 175,922; renewed Nov. 13, 1943.

Petermann Co., Union City, N. J. Ginger ale, cream soda, club soda, etc. 402,384; July 13. Class 45.

Pfeiffer Brewing Company, Detroit, Mich. Beer. 402,237; July 13; Serial No. 439,238; published Apr. 27, 1943. Class 48.

Phillips & Slack, Inc., Northfield, assignor to Rock of Ages Corporation, Barre, Vt. Monumental blocks of granite. 175,826; renewed Nov. 13, 1943.

Philtex Fabrics Inc., New York, N. Y. Piece goods of silk, wool, cotton, etc. 402,375; July 13. Class 39.

Pierce, S. S., Co., Boston, Mass. Cigars. 176,139; renewed Nov. 20, 1943.

Pittsburg and Midway Coal Mining Company, The, Kansas City, Mo. Coal. 402,238; July 13; Serial No. 440,132; published May 4, 1943. Class 1.

Pittsburgh Plate Glass Company, Pittsburgh, Pa. Zinc chromate compound extruded material in the form of a tape. 402,351; July 13; Serial No. 458,948; published May 4, 1943. Class 12.

Plant, Thomas G., Company, Boston, Mass., assignor, by mesne assignments, to International Shoe Company, St. Louis, Mo. Boots, shoes, and slippers. 176,124; renewed Nov. 20, 1943.

Plunkett, W. C., & Sons Company, Inc., New York, N. Y. Cotton yarn. 402,343; July 13; Serial No. 458,790; published Apr. 20, 1943. Class 43.

Polygon Products Co., Boston, Mass. Cement packing for joints. 172,144; renewed Aug. 21, 1943.

Polygon Products Co., Boston, Mass. Preparation for cleaning fabric, leather, and woodwork. 173,754; renewed Oct. 2, 1943.

Powermatic Ventilator Company. (See Shaver, James B.)

President Suspender Company, assignor to President Suspender Company (of 1936), Shirley, Mass. Garters. 173,602; renewed Oct. 2, 1943.

Pressman-Gutman Co., Philadelphia, Pa. Piece goods. 402,283; July 13; Serial No. 457,252; published Apr. 27, 1943. Class 42.

Promotions, Inc., Youngstown, Ohio. Dinnerware pieces or dinnerware sets. 402,288; July 13; Serial No. 457,511; published May 4, 1943. Class 30.

Puritan Chemical Company, Atlanta, Ga. Device containing chemicals for use in absorbing moisture and as a deodorizer. 402,295; July 13; Serial No. 457,777; published Apr. 27, 1943. Class 6.

Queen City Printing Ink Company, The, Cincinnati, Ohio, assignor to Interchemical Corporation, New York, N. Y. Printing inks. 172,272; renewed Aug. 28, 1943.

Queen City Printing Ink Company, The, Cincinnati, Ohio, assignor to Interchemical Corporation, New York, N. Y. Printing inks. 172,294–5; renewed Aug. 28, 1943.

Quinlan, Kathleen Mary, assignor to Kathleen Mary Quinlan, Inc., New York, N. Y. Toilet creams and astringents. 175,571; renewed Nov. 6, 1943.

Raybestos-Manhattan, Inc., Passaic, N. J. Insulating tape. 402,345; July 13; Serial No. 458,849; published May 4, 1943. Class 35.

Reardon, W. G., Laboratories, Inc., Port Chester, N. Y. Preparation for exterminating rodents. 402,355; July 13; Serial No. 459,029; published Apr. 27, 1943. Class 6.

Rein, F. Charles, & Son, America, Inc., New York, N. Y. Instruments for aiding the hearing. 175,879; renewed Nov. 13, 1943.

Richmond Hosiery Mills, Rossville, Ga. Hosiery. 176,245; renewed Nov. 20, 1943.

Rock of Ages Corporation. (See Phillips & Slack, Inc., assignor.)

Roper Bros., Inc., Winter Garden, Fla. Canned fruits and vegetables. 402,363; July 13; Serial No. 459,206; published May 4, 1943. Class 46.

Ross, Justin E., doing business as Ross Manufacturing Company, Kansas City, Mo. Safety razors. 402,244; July 13; Serial No. 446,530; published May 4, 1943. Class 23.

Royall, John A., East Boothbay, Maine. Razor blade sharpeners. 402,271; July 13; Serial No. 456,346; published Apr. 27, 1943. Class 23.

Sachs, Morris B., Chicago, Ill. Men's and boys' suits and overcoats and ladies' coats, suits, dresses, etc. 402,241; July 13; Serial No. 445,617; published May 4, 1943. Class 39.

Safe Drug Store. (See Stopelli, Caesar A.)

Saks & Company, New York, N. Y. Misses' and women's shoes. 402,290–1; July 13; Serial Nos. 457,641–2; published Apr. 20, 1943. Class 39.

Salfair Hats, New York, N. Y. Ladies' and children's hats. 402,269; July 13; Serial No. 456,083; published Apr. 27, 1943. Class 39.

Saltersod Company. (See Mills, James G.)

San Francisco Sulphur Co., assignor to Stauffer Chemical Company, San Francisco, Calif. Special prepared agricultural sulphur. 168,348; renewed May 22, 1943.

Santa Paula Citrous Fruit Association, Santa Paula, Calif. Fresh lemons. 176,115; renewed Nov. 20, 1943.

Seiberling Latex Products Co., The, Barberton, Ohio. Baby pants of rubber. 402,240; July 13; Serial No. 445,396; published May 4, 1943. Class 39.

Selig Company, Inc., The, Atlanta, Ga. Deodorizing fluid. 176,290; renewed Nov. 20, 1943.

Selig Company, Inc., The, Atlanta, Ga. Disinfectant. 176,291; renewed Nov. 20, 1943.

Selig Company, Inc., The, Atlanta, Ga. Disinfectant. 176,296; renewed Nov. 20, 1943.

Selig Company, Inc., The, Atlanta, Ga. Disinfectant. 176,322; renewed Nov. 20, 1943.

Shaver, James B., doing business as Powermatic Ventilator Company, Cleveland, Ohio. Gravity and forced draft roof ventilators. 402,257; July 13; Serial No. 454,380; published May 4, 1943. Class 34.

Sheenglo Products Company, San Francisco, Calif. Hair dressing. 402,377; July 13. Class 6.

Sipe, James B., & Co., Inc., Bridgeville, to James B. Sipe & Company, Pittsburgh, Pa. Plastic or semiplastic cement. 171,582; renewed Aug. 7, 1943.

Sipe, James B., & Company, Pittsburgh, Pa. Primer paint. 174,283; renewed Oct. 9, 1943.

Sipe, James B., & Company, Pittsburgh, Pa. Paste paint. 174,284; renewed Oct. 9, 1943.

Sipe, James B., & Company, Pittsburgh, Pa. Paint oil. 174,285; renewed Oct. 9, 1943.

Sinclair Refining Company, Chicago, Ill., to Sinclair Refining Company, New York, N. Y. Oils. 173,469; renewed Sept. 25, 1943.

Sinclair Refining Company. (See Union Petroleum Company, assignor.)

Solomon, Albert. (See Friedlander, P., and Solomon.)

Solo Products Corporation, New York, N. Y. Hair nets. 402,249; July 13; Serial No. 451,473; published Apr. 20, 1943. Class 39.

Solo Products Corporation, New York, N. Y. Hair pins, hair curlers, hair wavers, etc. 402,250; July 13; Serial No. 451,923; published May 4, 1943. Class 40.

Soules & Soules, Los Angeles, Calif. Cotton and rayon fabrics in the piece. 402,310–11; July 13; Serial Nos. 458,230–1; published Apr. 6, 1943. Class 42.

Spalding, A. G., & Bros. Inc., Chicopee, Mass. Golf clubs. 402,367; July 13. Class 22.

Spratt's Patent Limited, London, England. Milk food in powder form. 172,947; renewed Sept. 11, 1943.

Stansfield, J. E., Arvin, Calif. Fresh grapes. 402,245; July 13; Serial No. 448,342; published May 5, 1942. Class 46.

Starr Piano Company, Inc., The, Richmond, Ind. Player pianos, phonographs, and records for phonographs. 175,806; renewed Nov. 13, 1943.

Stauffer Chemical Company, San Francisco, Calif. Insecticides and fungicides. 402,366; July 13. Class 6.

Stauffer Chemical Company. (See San Francisco Sulphur Co., assignor.)

Stein, Joseph, doing business as Joseph Stein Coat Co., New York, N. Y. Ladies' and misses' coats, suits, skirts. 402,376; July 13. Class 39.

Stopelli, Caesar A., doing business under the names Safe Drug Store and Triac Pharmacal Co., New York, N. Y. Tonic and reconstructive. 402,263; July 13; Serial No. 455,462; published Apr. 27, 1943. Class 6.

Sturges, Preston, Brooklyn, N. Y., to P. Sturges, Hollywood, Calif. Face powders, rouges. 176,220; renewed Nov. 20, 1943.

Superior, Inc., Piqua, Ohio. Work shirts. 402,372; July 13. Class 39.

Swift and Company. (See North Packing and Provision Company, assignor.)

Thralls, Luna H. (See Hall, Thralls & Co.)

Triac Pharmacal Co. (See Stopelli, Caesar A.)

Trostel, Albert, & Sons Company, Milwaukee, Wis. Leather. 402,321; July 13; Serial No. 458,448; published May 4, 1943. Class 1.

Union Manufacturing Co., Frederick, Md. Hosiery. 402,312; July 13; Serial No. 458,234; published May 4, 1943. Class 39.

Union Petroleum Company, Philadelphia, Pa., assignor to Sinclair Refining Company, New York, N. Y. Cutting and cooling oils and oiling compositions. 175,531; renewed Nov. 6, 1943.

United Blower Company, Inc., New York, N. Y. Motor driven blowers and exhausters for ventilating purposes. 402,314; July 13; Serial No. 458,257; published Apr. 6, 1943. Class 34.

United States Printing Company, The, Cincinnati, to The United States Playing Card Company, East Norwood, Cincinnati, Ohio, successor. Playing cards. 23,782; re-renewed Nov. 7, 1943.

United States Rubber Company, New York, N. Y. Chemicals for use as fungicides. 402,282; July 13; Serial No. 457,215; published May 4, 1943. Class 6.

Valentine Laboratories, Inc., Chicago, Ill. Vitamin preparations for internal use. 402,378; July 13. Class 6.

Van Straaten, Herbert, doing business as Van Straaten Chemical Co., Chicago, Ill. Machine tool lubricants. 402,256; July 13; Serial No. 454,320; published May 4, 1943. Class 15.

Van Wolf, A. F., doing business as Kedmont Manufacturing & Waterproofing Co., Chicago, Ill. Materials (in liquid form), applicable to concrete (or the like). 402,352; July 13; Serial No. 458,978; published May 4, 1943. Class 12.

Western Electric Company, Incorporated, New York, N. Y. Motion picture apparatus. 402,354; July 13; Serial No. 458,993; published May 4, 1943. Class 26.

Wampole, Henry K., and Company, Incorporated, Philadelphia, Pa. Hypnotic medicines. 172,728; renewed Sept. 11, 1943.

Wheel Trueing Tool Company of Delaware, Detroit, Mich. Diamond dressing tools. 402,353; July 13; Serial No. 458,979; published Apr. 27, 1943. Class 23.

White-Stokes Company, Inc., Chicago, Ill. Base or filler for candy. 175,737; renewed Nov. 13, 1943.

White-Stokes Company, Inc., Chicago, Ill. Semiprepared fondant and base in candy and ice cream, a topping for ice cream sundaes, etc. 176,215; renewed Nov. 20, 1943.

Whitman, Stephen F., & Son, Inc., Philadelphia, Pa. Candies. 175,360; renewed Nov. 6, 1943.

Whitman, Stephen F., & Son, Inc., Philadelphia, Pa. Chocolate and cocoa, marshmallow whip, butter-scotch dressing, etc. 176,126; renewed Nov. 20, 1943.

Worden Grocer Company, Grand Rapids, assignor to Lee & Cady, Ferndale, Mich. Epsom salts, cream of tartar, spirits of camphor, etc. 168,346; renewed May 22, 1943.

Yeast-Vite (U. S. A.) Inc. (See Drug Products Co. Inc., The, assignor.)

Zieser & Kling, assignor to Zieser & Kling, Inc., St. Louis, Mo. Ladies' and misses' coats and suits. 174,584; renewed Oct. 23, 1943.

Zimba Beverage Co., Inc., New York, N. Y. Maltless non-alcoholic beverages, syrups, flavors. 402,292; July 13; Serial No. 457,668; published Apr. 27, 1943. Class 45.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Coal. Pittsburgh and Midway Coal Mining Company. 402,238; July 13; Serial No. 440,132; published May 4, 1943.
Fibers, Staple. Celanese Corporation of America. 402,281; July 13; Serial No. 457,166; published May 4, 1943.
Leather. Hunt-Rankin Leather Co. 172,405; renewed Aug. 28, 1943.
Leather. Albert Trostel & Sons Company. 402,321; July 13; Serial No. 458,448; published May 4, 1943.
Mixtures of argillaceous and carbonaceous materials for blanketing and insulating purposes in the risers of foundry molds. Barium and Chemicals, Inc. 402,308; July 13; Serial No. 458,218; published May 4, 1943.

CLASS 2

Baskets equipped with a handle and wheels, Shopping. B. C. Jarrell & Company. 402,285; July 13; Serial No. 457,438; published May 4, 1943.
Cups, pans, and troughs, etc., Watering. James Manufacturing Company. 402,251; July 13; Serial No. 451,934; published May 4, 1943.
Electric resistance materials. Electrical Alloy Company. 175,997; renewed Nov. 13, 1943.

CLASS 4

Preparation for cleaning fabric, leather and woodwork. Polygon Products Co. 173,754; renewed Oct. 2, 1943.
Soaps, pastes, powders, etc. Devoto y Cauchaner. 171,072; renewed July 31, 1943.

CLASS 6

Antacid neutralizing powder. R. P. Helm. 402,325; July 13; Serial No. 458,492; published May 4, 1943.
Antiseptic preparation. Abbott Laboratories. 402,289; July 13; Serial No. 457,569; published May 4, 1943.
Butyl aminobenzoate (a local anaesthetic). Abbott Laboratories. 175,095; renewed Oct. 30, 1943.
Castor oil. Berry, Demoville & Co. 176,227; renewed Nov. 20, 1943.
Chemical composition. Davey Tree Expert Company. 175,424; renewed Nov. 6, 1943.
Chemicals for use as fungicides. United States Rubber Company. 402,282; July 13; Serial No. 457,215; published May 4, 1943.
Chemicals, Laboratory reagent. Fisher Scientific Company. 402,304; July 13; Serial No. 458,035; published Apr. 27, 1943.
Coloring matter for butter. Dyestuffs & Chemicals, Incorporated. 174,359; renewed Oct. 17, 1943.
Concentrate of minerals and vitamins. C. Northen. 402,368; July 13.
Cosmetic preparation. Casablanca Co. 402,385; July 13.
Creams and astringents, Toilet. K. M. Quinlan. 175,571; renewed Nov. 6, 1943.
Deodorizing fluid. Selig Company. 176,290; renewed Nov. 20, 1943.
Depilatory. Delete Distributors, Inc. 402,358; July 13; Serial No. 459,070; published Apr. 27, 1943.
Device containing chemicals for use in absorbing moisture and as a deodorizer. Puritan Chemical Company. 402,295; July 13; Serial No. 457,777; published Apr. 27, 1943.
Disinfectant. Dr. Hess & Clark, Inc. 402,362; July 13; Serial No. 459,150; published May 4, 1943.
Disinfectant. Selig Company, Inc. 176,291; renewed Nov. 20, 1943.
Disinfectant. Selig Company, Inc. 176,296; renewed Nov. 20, 1943.
Disinfectant. Selig Company, Inc. 176,322; renewed Nov. 20, 1943.
Dressing, Hair. Sheenglo Products Company. 402,377; July 13.
Dyes, colors, and intermediates, Coal-tar. Dyestuffs & Chemicals, Incorporated. 173,050; renewed Sept. 11, 1943.
Epsom salts, cream of tartar, spirits of camphor, etc. Worden Grocer Company. 168,346; renewed May 22, 1943.
Face powders, rouges. Preston Sturges. 176,220; renewed Nov. 20, 1943.
Food tonic and general stimulant to cell metabolism. Drug Products Co. Inc. 176,199; renewed Nov. 20, 1943.
Insecticidal material. Ansbacher Siegle Corporation. 402,236; July 13; Serial No. 422,849; published Nov. 21, 1939.
Insecticides and fungicides. Stauffer Chemical Company. 402,366; July 13.
Laundry sours, laundry sodas, cleaners and cleansers, etc. Diamond Alkali Company. 402,350; July 13; Serial No. 458,935; published Apr. 27, 1943.
Laxative, Antiseptic. Partola Distributing Company. 168,322; renewed May 22, 1942.
Lipstick. Lucien Lelong Inc. 402,335; July 13; Serial No. 458,687; published May 4, 1943.
Medicinal preparation. Capcoss Co. 175,133; renewed Oct. 30, 1943.
Medicinal products. Charles E. Frosst & Co. 402,266; July 13; Serial No. 455,653; published Apr. 27, 1943.
Medicine for the treatment of athlete's foot, Liquid. R. Padalino. 402,275; July 13; Serial No. 456,829; published Apr. 27, 1943.
Medicines, Hypnotic. H. K. Wampole and Company, Incorporated. 172,728; renewed Sept. 11, 1943.
Oils and textile oil bases, chemicals, medicines, etc., Textile. Emery Industries, Inc. 402,259; July 13; Serial No. 454,600; published Apr. 27, 1943.
Ointment. F. H. Blanchard. 402,293; July 13; Serial No. 457,754; published May 4, 1943.
Perfumes and toilet water. Parfums Massenet, Incorporated. 402,294; July 13; Serial No. 457,776; published May 4, 1943.
Pessaries for vaginal diseases and disorders, suppositories for rectal diseases, etc. Menley & James, Limited. 176,225; renewed Nov. 20, 1943.
Phosphate, Anhydrous trisodium. A. R. Maas Chemical Co. 402,264; July 13; Serial No. 455,512; published Apr. 27, 1943.
Preparation for exterminating rodents. W. G. Reardon Laboratories, Inc. 402,355; July 13; Serial No. 459,029; published Apr. 27, 1943.
Preparation for the prevention and treatment of sunburn. Abbott Laboratories. 174,510; renewed Oct. 16, 1943.
Preparation for treatment of influenza. J. G. Mills. 176,294; renewed Nov. 20, 1943.
Protecting agents against fading used in the finishing of textile fabrics. Arkansas Company. 402,334; July 13; Serial No. 458,675; published Apr. 27, 1943.
Rouge and powder. F. N. Lewis. 172,732; renewed Sept. 11, 1943.
Shampoo, scalp oil, dandruff ointment, etc. Hall, Thralls & Co. 174,368; renewed Oct. 16, 1943.
Tonic and reconstructive. C. A. Stopelli. 402,263; July 13; Serial No. 455,462; published Apr. 27, 1943.
Tooth-paste, Creamed or semiliquid. Lambert Pharmacal Company. 402,344; July 13; Serial No. 458,842; published May 4, 1943.
Vaccines, serums and ferments. E. Lemos. 402,247; July 13; Serial No. 450,836; published Apr. 27, 1943.
Vitamin preparations for internal use. Valentine Laboratories, Inc. 402,378; July 13.

CLASS 10

Sulphur, Special prepared agricultural. San Francisco Sulphur Co. 168,348; renewed May 22, 1943.

CLASS 11

Inks, Printing. Queen City Printing Ink Company. 172,272; renewed Aug. 28, 1943.
Printing inks. Queen City Printing Ink Company. 172,294–5; renewed Aug. 28, 1943.

CLASS 12

Asbestos boards, asbestos sheets, asbestos lumber, etc. Keasbey & Mattison Company. 402,277; July 13; Serial No. 457,038; published May 4, 1943.
Blocks and tile, metal holding and supporting castings, and heat insulation. M. H. Detrick Company. 402,279–80; July 13; Serial Nos. 457,088–9; published Apr. 13, 1943.
Gratings, Metal. Irving Subway Grating Co. 402,328; July 13; Serial No. 458,570; published May 4, 1943.
Lumber, laths, moldings, etc. Pelican Bay Lumber Company 175,922; renewed Nov. 13, 1943.
Material in the form of a tape, Zinc chromate compound extruded. Pittsburgh Plate Glass Company. 402,351; July 13; Serial No. 458,948; published May 4, 1943.
Materials (in liquid form), applicable to concrete (or the like). A. F. Van Wolf. 402,352; July 13; Serial No. 458,978; pulblished May 4, 1943.
Plastic or semiplastic cement. James B. Sipe & Co. 171,582; renewed Aug. 7, 1943.
Preparations intended to be applied to mortar, cement, concrete, and the like. Master Builders Company. 174,470; renewed Oct. 16, 1943.

CLASSES 12 AND 35

Cement packing for joints. Polygon Products Co. 172,144; renewed Aug. 21, 1943.

CLASS 13

Dispensers of water softening and cleansing compounds, Water pipeline. Antiseptol Company. 402,272; July 13; Serial No. 456,411; published May 4, 1943.
Hollow ware, Base metal etched table. L. F. Grammes & Sons, Inc. 402,364; July 13.
Shower and bathroom fixtures and accessories, etc. M. Behrer. 175,809; renewed Nov. 13, 1943.

Valves especially designed for use on aircraft, Hydraulic control. Adel Precision Products Corp. 402,318; July 13; Serial No. 458,422; published May 4, 1943.
Valves for mains and pipes, Metal. Bethlehem Steel Company. 176,037; renewed Nov. 13, 1943.

CLASS 15

Lubricants, Machine tool. H. van Straaten. 402,256; July 13; Serial No. 454,320; published May 4, 1943.
Oils Sinclair Refining Company. 173,469; renewed Sept. 25, 1943.
Oils and oiling compositions, Cutting and cooling. Union Petroleum Company. 175,531; renewed Nov. 6, 1943.

CLASS 16

Metal paints. W. P. Fuller & Co. 402,337; July 13; Serial No. 458,704; published Apr. 13, 1943.
Oil, Paint. J. B. Sipe & Company. 174,285; renewed Oct. 9, 1943.
Paint, Paste. J. B. Sipe & Company. 174,284; renewed Oct. 9, 1943.
Paint, Primer. J. B. Sipe & Company. 174,283; renewed Oct. 9, 1943.
Polish. J. Nicomede. 174,778; renewed Oct. 23, 1943.

CLASS 17

Cigars. S. S. Pierce Co. 176,139; renewed Nov. 20, 1943.
Tobacco, Smoking and chewing. John P. Lieberman & Co. 402,300; July 13; Serial No. 457,856; published May 4, 1943.

CLASS 19

Aircraft. Beech Aircraft Corporation. 402,327; July 13; Serial No. 458,563; published May 4, 1943.
Boats, Motor. British Power Boat Company. 402,298–9; July 13; Serial Nos. 457,804–5; published May 4, 1943.
Trucks, Dolly. A. S. Campbell Co. 402,246; July 13; Serial No. 449,825; published May 4, 1943.

CLASS 21

Intercommunicating equipment, Amplified voice type of. Executone, Inc. 402,254; July 13; Serial No 453,669; published May 4, 1943.
Tubing for electrical insulation, Extruded plastic. Irvington Varnish & Insulator. 402,320; July 13; Serial No. 458,428; published May 4, 1943.

CLASS 22

Cards, Playing. United States Printing Company. 23,782; re-renewed Nov. 7, 1943.
Clubs, Golf. A. G. Spalding & Bros. Inc. 402,367; July 13.
Toy coin banks. R. V. Moran. 402,338–9; July 13. Serial Nos. 458,709–10; published May 4, 1943.

CLASS 23

Blades, Hack saw. American Saw & Mfg. Company. 402,359; July 13. Serial No. 459,101; published Apr. 27, 1943.
Clutches. Gleason Works. 402,346; July 13; Serial No. 458,863; published May 4, 1943.
Doublers, cheese winders, magazine creels, etc. Foster Machine Company. 402,319; July 13; Serial No. 458,426; published Apr. 13, 1943.
Excavating, elevating, and conveying machinery. Jeffrey Manufacturing Company. 175,366; renewed Nov. 6, 1943.
Files and rasps. Nicholson File Company. 175,290; renewed Nov. 6, 1943.
Fire extinguishing devices. Metal Products Engineering, Inc. 402,265; July 13; Serial No. 455,631; published May 4, 1943.
Guards, brackets, assembly means therefor, and parts thereof. Fostoria Pressed Steel Corp. 402,306; July 13; Serial No. 458,096; published May 4, 1943.
Hammers, axes, hatchets, etc Omni Products Corporation. 402,255; July 13; Serial No. 453,827; published Apr. 20, 1943.
Hauling and placing vehicles, Motor driven concrete batch. Mixermobile Manufacturers. 402,260; July 13; Serial No. 454,809; published Apr. 20, 1943.
Joint members, Tool. Hydril Company. 402,365; July 13.
Knife and edge-tool sharpening machines. Ace Hardware Manufacturing Corporation. 173,207; renewed Sept. 18, 1943.
Machine, earth moving. New Method Equipment Company. 402,278; July 13; Serial No. 457,042; published Apr. 13, 1943.
Mallets, Wooden. Breuer Electric Mfg. Co. 402,268; July 13; Serial No. 456,010; published Apr. 20, 1943.
Pumps. F. E. Myers & Bro. Co. 171,764; renewed Aug. 14, 1943.
Pumps, Oil. Chicago Flexible Shaft Company. 402,360; July 13; Serial No. 459,107; published Apr. 27, 1943.
Razors, Safety. J. E. Ross. 402,244; July 13; Serial No. 446,530; published May 4, 1943.
Sharpeners, Razor blade. J. A. Royall. 402,271; July 13; Serial No. 456,346; published Apr. 27, 1943.
Tableware and cutlery. National Silver Company. 402,267; July 13; Serial No. 455,761; published Apr. 27, 1943.
Tools, Diamond dressing. Wheel Trueing Tool Company of Delaware. 402,353; July 13; Serial No. 458,979; published Apr. 27, 1943.
Tools, Highspeed metal cutting. B-H Tool and Supply Co. 402,258; July 13; Serial No. 454,498; published Apr. 27, 1943.
Tools, Metal cutting. Genesee Tool Company. 402,315; July 13; Serial No. 458,330; published May 4, 1943.
Typewriters, check protectors, book-keeping machines, etc., and parts and accessories therefor. H. Aktiebolag. 402,253; July 13; Serial No. 452,928; published May 4, 1943.

CLASS 24

Driers, balcony clothes driers, yard clothes driers, etc., Clothes. Hill Clothes Dryer Co. 175,918; renewed Nov. 13, 1943.

CLASS 26

Lenses and lens blanks, Spectacle and goggle. Bausch & Lomb Optical Company. 402,347–9; July 13; Serial Nos. 458,888–90; published May 4, 1943.
Models for instructional uses to identify actual aeroplanes and material in sets for making the models, Silhouette. Co-Operative Displays Inc. 402,323; July 13; Serial No. 458,456; published May 4, 1943.
Motion picture apparatus. Western Electric Company. 402,354; July 13; Serial No. 458,993; published May 4, 1943.
Paper, Sensitized blue-print. New York Blue Print Paper Company. 167,248; renewed Apr. 24, 1943.

CLASS 29

Tooth brushes. Park & Tilford. 176,161; renewed Nov. 20, 1943.

CLASS 30

Dinnerware pieces or dinnerware sets. Promotions, Inc. 402,288; July 13; Serial No. 457,511; published May 4, 1943.

CLASS 32

Chests, Cedar. Lane Company. 175,916; renewed Nov. 13, 1943.

CLASS 34

Blowers and exhausters for ventilating purposes, Motor driven. United Blower Company. 402,314; July 13; Serial No. 458,257; published Apr. 6, 1943.
Coal, wood, and gas cooking and heating stoves, etc. Keeley Stove Company. 175,783; renewed Nov. 13, 1943.
Converters for heat treating furnaces, Atmosphere correcting gas. General Properties Company. 402,276; July 13; Serial No. 456,983; published May 4, 1943.
Fire wagons, surface heaters, stationary melting kettles, etc. Barber Asphalt Company. 174,469; renewed Oct. 16, 1943.
Roof ventilators, Gravity and forced. J. B. Shaver. 402,257; July 13; Serial No. 454,380; published May 4, 1943.
Stoves and ranges, etc., Coal, wood, and gas cooking and heating. Keeley Stove Company. 172,839; renewed Sept. 11, 1943.
Wicks for oil burning stoves and heaters, Asbestos. Atlas Asbestos Company. 402,336; July 13; Serial No. 458,700; published May 4, 1943.

CLASS 35

Tape, Insulating. Raybestos-Manhattan, Inc. 402,345; July 13; Serial No. 458,849; published May 4, 1943.

CLASS 36

Needles, Phonograph. Everpoint Needle Company. 402,329; July 13; Serial No. 458,590; published May 4, 1943.
Pianos, phonographs, and records for phonographs, Player. Starr Piano Company. 175,806; renewed Nov. 13, 1943.

CLASS 37

Erasers, lead pencils, refill leads, etc. American Lead Pencil Company. 168,708; renewed May 29, 1943.
Paper and paper towels, Toilet. Albany Perforated Wrapping Paper Co. 175,284; renewed Nov. 6, 1943.
Paper, Toilet. Peerless Mfg. Company. 174,207; renewed Oct. 9, 1943.

CLASS 39

Blouses, Misses' and women's. I. M. Bernstein. 402,340; July 13; Serial No. 458,723; published May 4, 1943.
Boots and shoes. International Shoe Co. 402,330–1; July 13; Serial Nos. 458,593–4; published Apr. 20, 1943.
Boots and shoes. Juvenile Shoe Corporation of America. 174,110; renewed Oct. 2, 1943.
Boots, shoes, and slippers. Thomas G. Plant Company. 176,124; renewed Nov. 20, 1943.
Coats and suits, Ladies' and misses'. Zieser & Kling. 174,584; renewed Oct. 23, 1943.
Coats, suits, skirts, Ladies' and misses'. J. Stein. 402,376; July 13.
Corsets, girdles, combination corsets, etc. H. W. Gossard Co. 402,342; July 13; Serial No. 458,782; published Apr. 27, 1943.
Dress, negligee, and work shirts, Men's. W. T. Grant Company. 176,255; renewed Nov. 20, 1943.
Dresses, coats, and suits, Children's. Kline's, Inc. 402,387; July 13.
Dresses, Ladies'. C. Crawford, Inc. 402,333; July 13; Serial No. 458,646; published Apr. 27, 1943.

Garments, Knitted outerwear and underwear. C. W. Attenborough & Co. Limited. 402,322; July 13; Serial No. 458,452; published May 4, 1943.
Garters. President Suspender Company. 173,602; renewed Oct. 2, 1943.
Gloves. Bacmo Postman Corporation. 402,302; July 13; Serial No. 457,889; published Apr. 20, 1943.
Gloves. M. W. Balboa. 402,373–4; July 13.
Hair nets. Solo Products Corporation. 402,249; July 13; Serial No. 451,473; published Apr. 20, 1943.
Handkerchiefs and kerchiefs. Fred S. Klauber, Inc. 402,379; July 13.
Hats, Ladies'. W. Nelkin. 402,369; July 13.
Hats, Ladies' and children's. Salfair Hats. 402,269; July 13; Serial No. 456,083; published Apr. 27, 1943.
Hats, Ladies' trimmed. J. Lucurell. 402,284; July 13; Serial No. 457,395; published Apr. 27, 1943.
Hats, Men's. Adam Hat Stores, Inc. 402,386; July 13.
Hosiery. Orange Knitting Mills, Incorporated. 402,301; July 13; Serial No. 457,862; published Apr. 27, 1943.
Hosiery. P. Friedlander and A. Solomon. 174,347; renewed Oct. 16, 1943.
Hosiery. Richmond Hosiery Mills. 176,245; renewed Nov. 20, 1943.
Hosiery. Union Manufacturing Co. 402,312; July 13; Serial No. 458,234; published May 4, 1943.
Hosiery, Rayon. New Process Company. 402,371; July 13.
Neckties. Paris Neckwear Company. 402,317; July 13; Serial No. 458,359; published Apr. 27, 1943.
Neckties. Cluett, Peabody & Co. 402,341; July 13; Serial No. 458,751; published Apr. 27, 1943.
Neckties, cravats, and scarfs. Franc-Strohmenger & Cowan, Inc. 176,136; renewed Nov. 20, 1943.
Piece goods of silk, wool, cotton, etc. Philtex Fabrics Inc. 402,375; July 13.
Pants of rubber, Baby. Seiberling Latex Products Co. 402,240; July 13; Serial No. 445,396; published May 4, 1943.
Shirts, Work. Superior, Inc. 402,372; July 13.
Shoes. Craddock-Terry Co. 176,274; renewed Nov. 20, 1943.
Shoes of all types and moccasins. F. Cardone. 402,270; July 13; Serial No. 456,176; published Apr. 27, 1943.
Shoes. Saks & Company. 402,290–1; July 13; Serial Nos. 457,641–2; published Apr. 20, 1943.
Suits and coats, Men's. Friedman-Marks Clothing Company, Inc. 402,243; July 13; Serial No. 445,931; published May 4, 1943.
Suits and coats, Men's. Friedman-Marks Clothing Company. 402,242; July 13; Serial No. 445,930; published Apr. 27, 1943.
Suits and coats, Ladies'. Fairmoor Sportswear, Inc. 402,286–7; July 13; Serial Nos. 457,466–7; published Apr. 27, 1943.
Suits, Men's and students' outer. Merit Clothing Company. 402,370; July 13.
Suits and overcoats and ladies' coats, suits, dresses, etc., Men's and boys'. M. B. Sachs. 402,241; July 13; Serial No. 445,617; published May 4, 1943.
Underwear, sweaters, and pants, Children's. Alpha Mills. 402,297; July 13; Serial No. 457,802; published May 4, 1943.

CLASS 40

Pin cushions. R. H. Macy & Co. 402,307; July 13; Serial No. 458,180; published Apr. 20, 1943.
Pins; hair curlers, hair waversers, etc., Hair. Solo Products Corporation. 402,250; July 13; Serial No. 451,923; published May 4, 1943.

CLASS 42

Bed sheets, pillowcases, bedspreads, etc. Mosse, Incorporated. 176,201; renewed Nov. 20, 1943.
Bedspreads, dresser scarfs, piece goods, etc. Marcus Bedspread & Drapery Corp. 402,303; July 13; Serial No. 457,982; published Apr. 13, 1943.
Carpets and rugs. Ben Greenberg & Brother. 402,261; July 13; Serial No. 455,071; published Apr. 20, 1943.
Cotton, rayon, and/or silk piece goods. Cohn-Hall-Marx Co. 402,324; July 13; Serial No. 458,490; published Apr. 27, 1943.
Fabrics in the piece. Mandee Fabrics, Inc. 402,313; July 13; Serial No. 458,243; published Apr. 20, 1943.
Fabrics in the piece, Cotton and rayon. Soules & Soules. 402,310–11; July 13; Serial Nos. 458,230–1; published Apr. 6, 1943.
Fabrics in the piece, Woven. Delite Fabrics, Inc. 402,296; July 13; Serial No. 457,790; published Apr. 20, 1943.
Hosiery. Cordell Hosiery Corporation. 402,383; July 13.
Piece goods, Woolen and worsted. Barron, Anderson Company. 402,380; July 13.
Piece goods, sheets, pillow cases, etc. J. H. Birtwistle & Company Limited. 402,248; July 13; Serial No. 451,195; published Apr. 13, 1943.
Piece goods, Serges and woollen and worsted. Fox Brothers & Company. 402,252; July 13; Serial No. 452,924; published Apr. 6, 1943.
Piece goods. Pressman-Gutman Co. 402,283; July 13; Serial No. 457,252; published Apr. 27, 1943.
Piece goods, Cotton and/or rayon. M. Lowenstein & Sons, Inc. 402,305; July 13; Serial No. 458,041; published Apr. 20, 1943.
Piece goods. Cohn-Hall-Marx Co. 402,326; July 13; Serial No. 458,509; published Apr. 20, 1943.
Sheets and pillowcases. Marshall Field & Company. 169,991; renewed July 10, 1943.
Woolen homespun textile fabrics in the piece. Grove Park Inn, Inc. 173,020; renewed Sept. 11, 1943.
Woven textiles in the piece. Foreman Fabrics Inc. 402,381–2; July 13.

CLASS 43

Yarn, Cotton. W. C. Plunkett & Sons Company. 402,343; July 13; Serial No. 458,790; published Apr. 20, 1943.
Yarn, Rayon. Industrial Rayon Corporation. 402,309; July 13; Serial No. 458,224; published Apr. 20, 1943.

CLASS 44

Instruments for aiding the hearing. F. C. Rein & Son, America, Inc. 175,879; renewed Nov. 13, 1943.

CLASS 45

Beverages, syrups, flavors, Maltless non-alcoholic. Zimba Beverage Co. 402,292; July 13; Serial No. 457,668; published Apr. 27, 1943.
Concentrate for beverages, Flavoring. One-Two-Three Company, Inc. 402,332; July 13; Serial No. 458,599; published May 4, 1943.
Drinks and fountain syrups, Soft. B. T. Fooks Manufacturing Company. 402,356; July 13; Serial No. 459,045; published Apr. 27, 1943.
Drinks, and fountain syrups, Soft. B. T. Fooks Manufacturing Company. 402,357; July 13; Serial No. 459,046; published Apr. 27, 1943.
Ginger ale, cream soda, club soda, etc. Petermann Co. 402,384; July 13.

CLASS 46

Base or filler for candy. White-Stokes Company. 175,737; renewed Nov. 13, 1943.
Bread, cake, pies, etc. Friend Brothers. 172,747; renewed Sept. 11, 1943.
Candies. S. F. Whitman & Son, Inc. 175,360; renewed Nov. 6, 1943.
Canned fish, fruits, and vegetables. R. E. Cotter Co. 175,331; renewed Nov. 6, 1943.
Canned fruits and vegetables. Roper Bros., Inc. 402,363; July 13; Serial No. 459,206; published May 4, 1943.
Chicks, Live. Henry Little & Sons. 176,187; renewed Nov. 20, 1943.
Chocolates and candies. E. Greenfield's Sons. 170,088; renewed July 10, 1943.
Chocolates and candies. E. Greenfield's Sons. 170,495; renewed July 17, 1943.
Chocolate and cocoa, marshmallow whip, butter-scotch dressing, etc. Stephen F. Whitman & Son, Inc. 176,126; renewed Nov. 20, 1943.
Coffee. Dern Food Company. 174,684; renewed Oct. 23, 1943.
Feeds. Atlantic Supply Company. 402,316; July 13; Serial No. 458,353; published Apr. 27, 1943.
Feeds for livestock and poultry. V. C. Dewein. 402,274; July 13; Serial No. 456,684; published May 4, 1943.
Feeds for livestock and poultry. V. C. Dewein. 402,273; July 13; Serial No. 456,682; published May 4, 1943.
Flour, Wheat. Charleston Milling Company. 402,239; July 13; Serial No. 440,281; published May 4, 1943.
Flour, Wheat. Midland Flour Milling Co. 172,436; renewed Aug. 28, 1943.
Fondant and base in candy and ice cream, a topping for ice cream sundaes, etc., Semiprepared. White-Stokes Company, Inc. 176,215; renewed Nov. 20, 1943.
Grapes, Fresh. J. E. Stansfield. 402,245; July 13; Serial No. 448,342; published May 5, 1942.
Lard. North Packing and Provision Company. 23,131; re-renewed May 30, 1943.
Lard. North Packing and Provision Company. 23,258; re-renewed June 27, 1943.
Lemons, Fresh. Santa Paula Citrous Fruit Association. 176,115; renewed Nov. 20, 1943.
Matzoths. A. Goodman & Sons, Inc. 175,824; renewed Nov. 13, 1943.
Milk food in powder form. Spratt's Patent Limited. 172,947; renewed Sept. 11, 1943.
Tea. Consolidated Tea Company. 402,262; July 13; Serial No. 455,296; published May 4, 1943.
Tea. Kelly, Douglas & Co. Limited. 174,732; renewed Oct. 23, 1943.

CLASS 48

Beer. Pfeiffer Brewing Company. 402,237; July 13; Serial No. 439,238; published Apr. 27, 1943.
Beer. Minneapolis Brewing Company. 402,361; July 13; Serial No. 459,123; published May 4, 1943.

CLASS 50

Monumental blocks of granite. Phillips & Slack, Inc. 175,826; renewed Nov. 13, 1943.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 13TH DAY OF JULY, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Blau, Ludwig W., Houston, Tex., assignor to Standard Oil Development Company. Locating valuable subterranean deposits. Re. 22,345; July 13.
Borg-Warner Corporation. (See Davis, Ernest F., assignor.)
Bullard, Edwin F. (See Evans, T. W., and Bullard.)
Davis, Ernest F., Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill. Carburizing. Re. 22,346; July 13.
Evans, Theodore W., Berkeley, and E. F. Bullard, Oakland, assignors to Shell Development Company, San Francisco, Calif. Secondary ethers of polyhydric alcohols. Re. 22,347; July 13.
Shattock, Bertili S. (See Stelzer, Berteli.)
Shell Development Company. (See Evans, T. W., and Bullard, assignors.)
Standard Oil Development Company. (See Blau, Ludwig W., assignor.)
Stelzer, Bertell, now by marriage B. S. Shattock, St. Petersburg, Fla., assignor to W. Stelzer, Detroit, Mich. Hydraulic brake booster. Re. 22,348; July 13.
Stelzer, Berteli, now by marriage B. S. Shattock, St. Petersburg, Fla., assignor to W. Stelzer, Detroit, Mich. Booster for hydraulic braking systems. Re. 22,349; July 13.
Stelzer, William. (See Stelzer, Berteli, assignor.)

LIST OF PLANT PATENTEES

Conard-Pyle Company, The. (See Mallerin, Charles, assignor.)
Mallerin, Charles, Varces, France, assignor to The Conard-Pyle Company, West Grove, Pa. Rose plant. 594; July 13.
Mallerin, Charles, Varces, France, assignor to The Conard-Pyle Company, West Grove, Pa. Rose plant. 595; July 13.
Mallerin, Charles, Varces, par Pont de Claix, France, assignor to The Conard-Pyle Company, West Grove, Pa. Rose plant. 596; July 13.

LIST OF DESIGN PATENTEES

Anderson, Eddie E. (See Sears, C. M., and Anderson.)
Bach, Rita B., New York, N. Y. Combination wallet, cosmetic container and change purse. 135,980; July 13.
Bach, Rita B., New York, N. Y. Combination wallet, cosmetic container, change purse, and transparent pocket. 135,981; July 13.
Baumgartner, Apollinaris, New York, N. Y. Liturgical fabric or similar article. 135,956; July 13.
Baumgartner, Apollinaris, New York, N. Y. Liturgical fabric or similar article. 135,957; July 13.
Baumgartner, Apollinaris, New York, N. Y. Orphrey or similar article. 135,958; July 13.
Baumgartner, Apollinaris, New York, N. Y. Orphrey or similar article. 135,959; July 13.
Berg, Roy E., Great Neck, N. Y., assignor to Tech-Art Plastics Company. Spoon or other article of flatware. 135,960; July 13.
Berg, Roy E., Great Neck, N. Y., assignor to Tech-Art Plastics Company. Spoon or other article of flatware. 135,961; July 13.
Bouscher, Ruth J. (See Leszczynsky, J., and Bouscher.)
Chic-Maid Hat Manufacturing Co., Inc. (See Gross, Max, assignor.)
Codish, George, New York, assignor to J. A. Senter, Brooklyn, N. Y. Shoe or the like. 135,962; July 13.
Codish, George, New York, assignor to J. A. Senter, Brooklyn, N. Y. Shoe. 135,963; July 13.
Consolidated Vultee Aircraft Corporation. (See Hubert, Virgil F., assignor.)
Coro, Inc. (See Katz, Adolph, assignor.)
De Aragon, Joseph, M., New York, N. Y. Locket brooch or similar article. 135,964; July 13.
De Coursey, Florence J., Detroit, Mich. Container for flame coloring material. 135,999; July 13.
De Pontrex, Paula, assignor to Pinaud Incorporated, New York, N. Y. Combined boutonniere and perfume container. 136,001; July 13.
Di Bari, Anna, New York, N. Y. Picture frame holder. 135,985; July 13.
Floren, Earl R., Antioch, Ill. Airplane. 135,994; July 13.
Floren, Earl R., Antioch, Ill. Airplane. 135,995; July 13.
Gillmor, Hugh L., Glens Falls, N. Y. Cigarette box. 135,965; July 13.
Gloetzner, Anton, Glendale, Calif. Napkin holder. 135,966; July 13.
Gresh, Earl, St. Petersburg, Fla. Handbag. 135,990; July 13.
Gross, Max, assignor to Chic-Maid Hat Manufacturing Co., Inc., Buffalo, N. Y. Cap. 135,996; July 13.
Hallbauer, Otto, Teaneck, N. J. Embroidered trimming or similar article. 135,967; July 13.
Hallbauer, Otto, Teaneck, N. J. Embroidered trimming or similar article. 135,968; July 13.
Hubert, Virgil F., Coronado, assignor to Consolidated Vultee Aircraft Corporation, San Diego, Calif. Appliqué or the like. 135,986; July 13.
Karlan, Jacob, Mount Vernon, N. Y. Stone setting for rings. 135,987; July 13.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 135,969; July 13.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Separable brooch. 135,970; July 13.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 135,971; July 13.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 135,972; July 13.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 135,973; July 13.
Kruck, Ralph E., Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company. Suction cleaner casing or the like. 135,974; July 13.
Leszczynski, J., and R. J. Bouscher, New York, N. Y. Stocking. 136,000; July 13.
Mas, George N., Washington, D. C. Fibrous cap for containers. 135,997; July 13.
Mas, George N., Washington, D. C. Fibrous cap for containers. 136,002; July 13.
McKee Glass Company. (See Poglein, Louis, assignor.)
Miller, Norman P., West Los Angeles, Calif. Barbecue table. 135,975; July 13.
Morris, Hewitt S., Manhasset, N. Y. Vacuum cleaner rack. 135,982; July 13.
Moskowitz, Max, Bronx, N. Y. Mop swab holder. 135,976; July 13.
Mueller, Joseph J., St. Joseph, Mich. Lifting jack. 135,991; July 13.
Pinaud Incorporated. (See de Pontrex, Paula, assignor.)
Poglein, Louis, assignor to McKee Glass Company, Jeannette, Pa. Skillet. 135,977; July 13.
Pomeranz, Jacob J., Brooklyn, N. Y. Spectacle front. 135,992; July 13.
Reed, Ruth M., Hinton, Okla. Brooch or similar article. 135,978; July 13.
Rotkel, Lilly K., New York, N. Y. Crocheted lady's handbag. 135,983; July 13.
Schneler, Samuel D., Highland Park, N. J. Bottle. 135,998; July 13.
Sears, Clarence M., Ayer, and E. E. Anderson, Worcester, Mass. Valve casing. 135,988; July 13.
Senter, Jonas A. (See Codish, George, assignor.)
Spurling, Julian R., Radburn, N. J. Perambulator body. 135,993; July 13.
Tech-Art Plastics Company. (See Berg, Roy E., assignor.)
Wechsler, Semmy S., New York, N. Y. Combined manicure implement and nail file. 135,984; July 13.
Westinghouse Electric & Manufacturing Company. (See Kruck, Ralph E., assignor.)
Weyl, Don C., Wichita, Kans. Tire branding iron. 135,979; July 13.
Wolf, Semon, New York, N. Y. Slip. 135,989; July 13.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 13TH DAY OF JULY, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrasive Company. (See Fischer, John F., assignor.)
Adel Precision Products Corp. (See van der Werf, Jacob B., assignor.)
Adler, Elizabeth, New York, N. Y. Artificial eyelash elongation. 2,324,271; July 13.
Adler, Orville E., Niles, Mich., assignor to National-Standard Company. Coated wire. 2,323,890; July 13.
Agriculture of the United States of America, Secretary of. (See Markwardt, Lorraine J., assignor.)
Aiazzone, Remo. (See Reenstierna, Gustaf L., assignor.)
Air Reduction Company. (See Heidbrink, Jay A., assignor.)
Albers, Milo H., Wichita, Kans. Winding reel for maps or the like. 2,324,453; July 13.
Albree, George N., Winchester, Mass. Projectile for firearms. 2,324,346; July 13.
Alien Property Custodian. (See Mercier, Jean.)
Alien Property Custodian. (See Snoek, Jacob L., assignor.)
Alles, John J., Wilkes-Barre, Pa. Traffic signal control apparatus. 2,324,051; July 13.
Allmänna Svenska Elektriska, Aktiebolaget. (See Pyk, Sven C., assignor.)
Aluminum Company of America. (See Pettit, Ralph E., assignor.)
Ambruster, Cornelius, Roslyn, assignor to The Electric Storage Battery Company, Philadelphia, Pa. Electric storage battery. 2,324,185; July 13.
American Air Filter Company. (See Pfau, A. C., and Liskow, assignors.)
American Armament Corporation. (See Brayton, Harold M., assignor.)
American Armament Corporation. (See Joyce, Bryan P., assignor.)
American Can Company. (See Geertsen, Nelson, assignor.)
American Can Company. (See Jordan, W. D., and Mondloch, assignors.)
American Can Company. (See Pechy, William, assignor.)
American Cyanamid Company. (See Jewett, Joseph E., assignor.)
American Cyanamid Company. (See Wintringham, A. C., and King, assignors.)
American Maize-Products Company. (See Schopmeyer, H. H., and Mollison, assignors.)
American Safety Razor Corporation. (See Dalkowitz, Godfrey, assignor.)
American Steel Foundries. (See Oelkers, Alfred H., assignor.)
Ames, Robert G., assignor of one-half to G. W. Williams, Burlingame, Calif. Sanding and buffing tool. 2,323,962; July 13.
Ames, Robert G., assignor of one-half to G. W. Williams, Burlingame, Calif. Combined plastic and tape applicator. 2,323,963; July 13.
Andersen, Carl N., Wellesley, Mass., assignor to Lever Brothers Company. Preservation of perfumes. 2,324,347; July 13.
Andersen, Carl N., Wellesley Hills, Mass., assignor to Lever Brothers Company. Preservation of soaps and perfumes. 2,324,348; July 13.
Anderson, Joseph C., Torrington, Conn. Swinging duplex clothesline pulley. 2,323,052; July 13.
Anderson, Oscar M., assignor to Landers, Frary & Clark, New Britain, Conn. Vacuum bottle support. 2,324,253; July 13.
Anderson, Raymond G., West Orange, and W. T. Jacobson, Clifton, N. J., assignors to The Roto Company. Brush structure and holder. 2,324,461; July 13.
Anderson, Wilford A., assignor to G. H. Tennant Company, Minneapolis, Minn. Wire brush abrading device. 2,324,272; July 13.
Andrews, Harold K., Stratford, assignor to Edwin G. Gaynor, Fairfield, Conn. Attachable impedance. 2,324,053; July 13.
Andrews, Zenas B., Cleveland, Ohio. Pouring fitting for paint containers and the like. 2,323,964; July 13.
Anglada, Joseph A., New York, N. Y. Slack take-up device for tappets. 2,323,965; July 13.
Anway, Herman W., assignor to Wood Conversion Company, Cloquet, Minn. Determining friability. 2,324,126; July 13.
Anway, Herman W., assignor to Wood Conversion Company, Cloquet, Minn. Testing apparatus for friability of friable material. 2,324,127; July 13.
Archibald, Francis M., Elizabeth, N. J., assignor to Standard Alcohol Company. Recovering ethers. 2,324,054; July 13.

Armstrong, Robert T., Radburn, and E. J. Hart, Nutley, N. J., assignors to United States Rubber Company, New York, N. Y. Treatment of rubber. 2,324,186; July 13.
Art Metal Construction Company. (See Johnson, J. A., assignor.)
Arthur, Robert L., Coronado, Calif. Wrench. 2,324,187; July 13.
Artzt, Maurice, Haddonfield, N. J., assignor to Radio Corporation of America. Amplifier. 2,323,966; July 13.
Atkins, Walter W., Erlanger, Ky., assignor to The Gummed Products Company, Troy, Ohio. Tape dispenser. 2,324,349; July 13.
Atwood Vacuum Machine Company, The. (See Lustig, Walter R., assignor.)
Auto Research Corporation. (See Kocher, Edward H., assignor.)
Automatic Appliance Corporation. (See Van Horn, O. F., and Whittaker, assignors.)
Baal, Melvin H., Ellsworth, Minn. Wire winding and unwinding attachment for tractors. 2,324,350; July 13.
Bahelka, Joseph, Linden N. J., assignor to Stanco, Incorporated. Sealing element. 2,324,055; July 13.
Baker, Kenneth E., assignor to Gerber Products Company, Fremont, Mich. Plate for controlling temperature of food and serving same. 2,324,351; July 13.
Baldwin, Wayne A., Watertown, N. Y., assignor to The New York Air Brake Company. Track sander. 2,324,274; July 13.
Ballard, William C., Jr. (See Meyerhoefer, C. E., Ballard, and Smoot.)
Barber-Colman Company. (See Colman, Howard D., assignor.)
Bardwell, Dwight C. (See Datin, R. C., and Bardwell.)
Barker, Walter E. (See Kennedy, D. J., and Barker.)
Barna, Joseph W., assignor of forty-nine one-hundredths to C. A. Laystrom, thirty-two one-hundredths to M. T. Barna, five one-hundredths to C. A. Laystrom, and fourteen one-hundredths to V. E. Hoffman, Chicago, Ill. Lasting machine wiper structure. 2,324,128; July 13.
Barna, Joseph W., assignor of forty-nine one-hundredths to C. A. Laystrom, thirty-two one-hundredths to M. T. Barna, five one-hundredths to C. A. Laystrom, and fourteen one-hundredths to V. E. Hoffman, Chicago, Ill. Presser structure for shoe lasting machines. 2,324,129; July 13.
Barna, Mary T., et al. (See Barna, Joseph W., assignor.)
Barnitz, Richard W., Parkersburg, W. Va., assignor to Porcelain Products, Inc., Findlay, Ohio. Thimble equipped insulator. 2,323,967; July 13.
Barry, Wehmiller Machinery Company. (See Herold, James L., assignor.)
Barton, Bernard C., Passaic, N. J., assignor to United States Rubber Company, New York, N. Y. Cracking inhibitor. 2,324,056; July 13.
Bastian-Blessing Company, The. (See Buttner, William C., assignor.)
Bauer, Edward G. (See Thompson, A. R., and Bauer.)
Bayer, Richard H., assignor to Fibre Cord Company, division of Kary-Safe Company Inc., New York, N. Y. Strip dispensing carton. 2,323,968; July 13.
Becker, Stewart, Schenectady, N. Y., assignor to General Electric Company. Electric translating circuit. 2,324,275; July 13.
Beckwith, Wendell K., Whitewater, assignor to Milwaukee Electric Tool Corporation, Milwaukee, Wis. Chuck. 2,324,130; July 13.
Beetem, Frank G., assignor to The Electric Storage Battery Company, Philadelphia, Pa. Signal means for battery charging circuits. 2,324,188; July 13.
Bell Telephone Laboratories, Incorporated. (See Holden, William H. T., assignor.)
Bell Telephone Laboratories, Inc. (See Insley, Norman, assignor.)
Bell Telephone Laboratories, Incorporated. (See Johnson, John B., assignor.)
Bell Telephone Laboratories, Inc. (See Kinsburg, Boris J., assignor.)
Bell Telephone Laboratories, Incorporated. (See Morris, Charles M., assignor.)
Bell Telephone Laboratories, Incorporated. (See Skene, Andrew A., assignor.)
Bell Telephone Laboratories, Incorporated. (See Zupa, Frank A., assignor.)
Bennett, Harold F., assignor to Eastman Kodak Company, Rochester, N. Y. Lens attachment. 2,324,057; July 13.
Berner, Francis A., Allison Park, Pa. Antiskid device. 2,324,352; July 13.

Berry, Calvin W., San Diego, Calif. Roller tip for fishing rods. 2,324,353; July 13.
Bertness, Theodore A., Whittier, N. Johnston, Alhambra, and D. O. Newton, La Habra Heights, Calif., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Removing mud barriers from oil wells. 2,324,254; July 13.
Biederman, Clarence, Lima, Ohio. Stringed instrument. 2,323,969; July 13.
Bindler, Jakob, and H. Schlapfer, assignors to the firm of J. R. Geigy A. G., Basel, Switzerland. Water soluble high molecular acylbiguanide. 2,324,354; July 13.
Bird, James P., and F. B. Schaffer, Kansas City, Mo. Threading device. 2,323,970; July 13.
Bjering, Olav. (See Hohl, J., Bjering, Lakso, and Vogt.)
Blackmore, Lloyd, Highland Park, and M. C. Kristek, Flint, assignors to General Motors Corporation, Detroit, Mich. Valve forging machine. 2,323,971; July 13.
Blanchard, Joseph G., assignor of one-half to C. G. Vokes, London, England. Silencer. 2,323,891; July 13.
Bock, Ashley P., Catonsville, Md., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electrical tuning device. 2,324,189; July 13.
Boeing Aircraft Company. (See Price, Nathan C., assignor.)
Bolton, Ray F. (See Miller, L. C., and Bolton.)
Boor, Arthur, Toledo, Ohio, and C. E. Read, assignors to Monroe Auto Equipment Company, Monroe, Mich. Hydraulic shock absorber structure. 2,324,058; July 13.
Boosey, Edward W. N., Detroit, Mich. Grease interceptor. 2,324,190; July 13.
Bossart, Paul N., Cheswick, assignor to The Union Switch & Signal Company, Swissvale, Pa. Electrical network apparatus. 2,324,059; July 13.
Boston, John P. (See Peters, M. F., Boston, and Davis.)
Bouchard, Blanche E. (See Du Grenier, F. C., and (Perri, assignor).)
Boughton, Fred W., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic copying paper. 2,324,060; July 13.
Bowan, Walter J. (See Mueller, F. H., and Bowan.)
Bowers, Harold A., Cincinnati, Ohio. Speed control mechanism. 2,324,191; July 13.
Boylan, Felix T., New York, N. Y. Securing reinforced coverings to steel ship decks. 2,324,131; July 13.
Boynton, Alexander, San Antonio, Tex. Stage lift flow device. 2,323,893; July 13.
Brauchler, Charles A., Canton, Ohio. Forging. 2,323,972; July 13.
Brauer, Walter, Oklahoma City, Okla. Automatic intermitting unit. 2,324,132; July 13.
Brauer, Walter, Oklahoma City, Okla. Dual automatic intermitting unit. 2,324,355; July 13.
Brayton, Harold M., Dover, N. J., assignor to American Armament Corporation, New York, N. Y. Combination instantaneous and delay fuse. 2,324,192; July 13.
Brearley Company, The. (See Sutton, John C., assignor.)
Bricker, Carrie M., Cleveland, Ohio. Holder for napkin, etc. 2,323,892; July 13.
Britton, Edgar C., H. S. Nutting, and L. H. Horsley, assignors to The Dow Chemical Company, Midland, Mich. Separation of ketones and monohydric alcohols from mixtures thereof. 2,324,255; July 13.
Brooks, Benjamin L., Lynchburg, Va. Match book holder. 2,324,276; July 13.
Brooks, Stephen H., New York, N. Y. Hinged joint. 2,324,061; July 13.
Brooks, Stephen H., New York, N. Y. Flexible joint. 2,324,062; July 13.
Brostrom, Charles G., Salem, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Machine for operating on shoes. 2,323,973; July 13.
Brown Instrument Company, The. (See Wills, Walter P., assignor.)
Brown Steel Tank Company. (See Brown, Walter V., assignor.)
Brown, Walter V., assignor to Brown Steel Tank Company, Minneapolis, Minn. Cover structure. 2,324,356; July 13.
Brum, Joseph F. (See Foster, James, assignor.)
Brunel, Richard, Somerville, N. J. Air conditioning. 2,324,193; July 13.
Brush Development Company, The. (See Ream, John H., assignor.)
Bruun, Johannes H., Swarthmore, and G. E. Goheen, Prospect Park, assignors to Sun Oil Company, Philadelphia, Pa. Improving lubricating oil. 2,324,357; July 13.
Bucknam, James H. (See Chelborg, R., Bucknam, and Keller.)
Bucknam, James H., and A. J. Miller, Cranford, N. J., assignors to The Linde Air Products Company. Process of and apparatus for conditioning metal bodies. 2,323,974; July 13.
Burch Manufacturing Company. (See Van Doren, H., and Dailey, assignors.)
Burgess, Paul, Los Angeles, Calif. Light control means. 2,324,133; July 13.
Burroughs, Edwin E., Rockaway Beach, assignor to Potdevin Machine Company, Brooklyn, N. Y. Bag making machine. 2,324,358; July 13.

Butler, Frank D., U. S. Navy. Valves. 2,323,894; July 13.
Buttner, William C., Winnetka, assignor to The Bastian-Blessing Company, Chicago, Ill. Heat dissipating assembly. 2,323,895; July 13.
Buxton, Loran O., assignor to National Oil Products Company, Harrison, N. J. Process of producing fat-solubie vitamin concentrates. 2,324,063; July 13.
Cadwell, Leon L. (See Williams, B. E., and Cadwell.)
Cahill, John J., assignor to Mutual Machine Company, New York, N. Y. Selective plaiting machine. 2,323,896; July 13.
Calhoun, Florian V. (See Schelling, J. C., Hunter, Housekeeper, and Calhoun.)
Callan, Edward A., New York, N. Y. Electrically operated smoke producer. 2,324,359; July 13.
Camerota, Louis A., Burlington, assignor to Florence Pipe Foundry & Machine Company, Florence, N. J. Throttle valve. 2,324,360; July 13.
Campbell, Rouel R., Lynn, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Machine for severing rubber. 2,323,975; July 13.
Campiglia, Clementine F., assignor to Douglas Aircraft Company, Incorporated, Santa Monica, Calif. First-aid kit. 2,324,194; July 13.
Carbide and Carbon Chemicals Corporation. (See Schuh, Charles H., assignor.)
Carborundum Company, The. (See Robie, Norman P., assignor.)
Carborundum Company, The. (See Swentzel, John P., assignor.)
Carlson, Marvin C. (See Popp, R., and Carlson.)
Carlson, Walter A., and P. W. Salo, Minneapolis, Minn., assignors to General Mills, Inc. Apparatus for treating chemicals. 2,324,195; July 13.
Carter Carburetor Corporation. (See Ericson, George R., assignor.)
Carter, Leslie F., Leonia, N. J., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Flight indicator. 2,323,897; July 13.
Casco Products Corporation. (See Lehmann, Herbert G., assignor.)
Case, J. I., Company. (See Krause, Norman R., assignor.)
Casey, Thomas W., Fairlawn, and A. E. Sidnell, Akron, assignors to Selberling Latex Products Company, Barberton, Ohio. Playing ball. 2,324,277; July 13.
Celanese Corporation. (See Halin, Jules E., assignor.)
Celanese Corporation of America. (See Dreyfus, Henry, assignor.)
Cellulose Research Corporation. (See Olsen, F., Feldman, and Sheldon, assignors.)
Century Motors Corporation. (See Dusevoir, Julius, assignor.)
Chalmers, Raymond W., Detroit, Mich. Tape printing machine. 2,323,976; July 13.
Chance, A. B., Company. (See Hubbard, David C., assignor.)
Chandler, Tommie B., Compton, Calif. Angle iron clamp. 2,324,361; July 13.
Chandler, Tommie B., Compton, Calif. Plate clamp. 2,324,362; July 13.
Chelborg, Rudolph, Maplewood, J. H. Bucknam, Cranford, and A. M. Keller, Livingston, N. J., assignors to The Linde Air Products Company. Apparatus for conditioning metal bodies. 2,323,977; July 13.
Chicago Metal Hose Corporation. (See Fentress, David W., assignor.)
Chicago Metal Hose Corporation. (See Johnson, Axel F., assignor.)
Chicago Metallic Manufacturing Company. (See Langel, Adrien L., assignor.)
Chidester, William H., Lakewood, assignor of one-half to J. R. Snyder, Cleveland, Ohio. Rail clamp. 2,324,134; July 13.
Chidester, William H., Lakewood, and J. R. Snyder, Cleveland, Ohio. Rail fastening. 2,324,135; July 13.
Chittum, James P., and G. E. Hulse, Passaic, N. J., assignors to United States Rubber Company, New York, N. Y. Rubber hydrochloride composition. 2,324,278; July 13.
Cincinnati Ball Crank Company, The, et al. (See Woelfer, Frank C., assignor.)
Clark, Robert W., Teaneck, N. J., assignor to Radio Corporation of America. Amplifier. 2,324,279; July 13.
Clarke, Gerard J. (See Malm, C. J., and Clarke.)
Classen, Joseph F. (See Meyer, G. J., Steckling, and Classen.)
Clemens, Milton L., Jr. (See Von Bramer, H., Davy, and Clemens.)
Club Razor & Blade Manufacturing Corp. (See Nadeau, R., and Rothschmitt, assignors.)
Cobb, William M., Jr., assignor to Hercules Powder Company, Wilmington, Del. Ammonium nitrate explosive. 2,324,363; July 13.
Coffing, Frederick W., Danville, Ill. Gang disk implement. 2,324,064; July 13.
Coffing, Frederick W., Danville, Ill. Gang disk implement. 2,324,065; July 13.
Coffing Hoist Company. (See Johnston, Raymond H., assignor.)
Colgate-Palmolive-Peet Company. (See Mitchell, Joseph E., assignor.)

Collins, William M., Santa Monica, Calif., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Supporting base for electric scissors. 2,324,364; July 13.

Colman, Howard D., assignor to Barber-Colman Company, Rockford, Ill. Control strip composing machine. 2,324,280; July 13.

Columbia Broadcasting System, Inc. (See Goldmark, Peter C., assignor.)

Compo Shoe Machinery Corporation. (See Crandell, Erwin L., assignor.)

Connolly, Gerald C., Baton Rouge, La., assignor to Standard Oil Development Company. Purification of hydrocarbon oils. 2,324,066; July 13.

Connolly, Gerald C., Baton Rouge, La., assignor to Standard Oil Development Company. Purification of hydrocarbon oils. 2,324,067; July 13.

Consolidated Air Craft Corporation. (See Smith, Frank M., assignor.)

Consolidated Machine Tool Corporation. (See Trosch, Alfred, assignor.)

Continental Can Company. (See Haycock, John, assignor.)

Continental Can Company. (See Schmitt, Otto A., assignor.)

Cook, James W., & Company, Limited. (See King, Claude L., assignor.)

Corning Glass Works. (See Gray, David E., assignor.)

Coutts, Edwin, Penryn, Calif. Windshield swipe. 2,324,365; July 13.

Cowey, Leonard E., Kew Gardens, England. Shock absorber strut or oleo leg for aircraft. 2,324,281; July 13.

Crandell, Erwin L., Wellesley, assignor to Compo Shoe Machinery Corporation, Boston, Mass. Electrostatic bonding apparatus. 2,324,068; July 13.

Crawford, Jack, New York, assignor to Eastman Kodak Company, Rochester, N. Y. Color photography. 2,324,069; July 13.

Creper, Louis, Philadelphia, Pa. Edging for hat supports. 2,324,366; July 13.

Croninger, George J. (See Miller, W. J., Reese, and Croninger.)

Crosby, Murray G., Riverhead, N. Y., assignor to Radio Corporation of America. Wave length modulation. 2,324,282; July 13.

Crown Cork & Seal Company. (See Gladfelter, W. I., and Prochazka, assignors.)

Crozier, Scott J., Cleveland Heights, Ohio. Sawhorse. 2,324,196; July 13.

Crum, Stephen, assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Combination switch. 2,324,136; July 13.

Cunningham, Samuel C., Philadelphia, Pa. Food container. 2,324,137; July 13.

Cutler-Hammer, Inc. (See Hodgson, H. E., Kuhn, and Stevens, assignors.)

Dailey, Donald E. (See Van Doren, H., and Dailey.)

Dailey, Hampton J., Bloomfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electron discharge device. 2,324,367; July 13.

D'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Urea-aldehyde-halogenated acetone condensation product. 2,323,898; July 13.

D'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Diazine derivatives. 2,324,283; July 13.

D'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Triazine derivatives. 2,324,286; July 13.

D'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Diazine derivatives. 2,324,287; July 13.

D'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Reaction product of aldehydes and triazine derivatives. 2,324,288; July 13.

D'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Reaction product of aldehydes and diazine derivatives. 2,324,289; July 13.

D'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Reaction product of aldehydes and diazine derivatives. 2,324,290; July 13.

D'Alelio, Gaetano F., and J. W. Underwood, Pittsfield, Mass., assignors to General Electric Company. Reaction product of aldehydes and bis-(diamino triazinyl) cyanoalkylene disulphides. 2,324,284; July 13.

D'Alelio, Gaetano F., and J. W. Underwood, Pittsfield, Mass., assignors to General Electric Company. Triazine derivatives. 2,324,285; July 13.

D'Alelio, Gaetano F., and J. W. Underwood, Pittsfield, Mass., assignors to General Electric Company. Reaction products of aldehydes and bis-(diamino diazinyl) cyanoalkylene disulphides. 2,324,368; July 13.

D'Alelio, Gaetano F., and J. W. Underwood, Pittsfield, Mass., assignors to General Electric Company. Diazine derivatives. 2,324,369; July 13.

D'Alfonso, Alexander C., Santa Barbara, Calif. Overhead garage door. 2,324,138; July 13.

Dalkowitz, Godfrey, assignor to American Safety Razor Corporation, Brooklyn, N. Y. Shaving device. 2,324,070; July 13.

Danehy, James P., Cleveland Heights, assignor to Harris-Seybold-Potter Company, Cleveland, Ohio. Preparation of sensitized lithographic plates, etc. 2,324,197; July 13.

Danehy, James P., and J. H. Newland, Cleveland Heights, Athens, assignors to Harris-Seybold-Potter Company, Cleveland, Ohio. Lithographic plate preparation. 2,324,198; July 13.

Datin, Richard C., Petersburg, Va., and D. C. Bardwell, Syracuse, assignors to The Solvay Process Company, New York, N. Y. Preparation of ammonium and amine salts of acidic organic compounds. 2,324,199; July 13.

Davis, Burton J., Kingston, N. Y. Blackout shield for headlamps. 2,323,978; July 13.

Davis, Latta O., Greenfield, Ind. Sash and ventilator. 2,324,139; July 13.

Davis, Merlin. (See Peters, M. F., Boston, and Davis.)

Davy, Lee G. (See Von Bramer, H., Davy, and Clemens.)

Day, Roland B., and E. R. Kanhofer, assignors to Universal Oil Products Company, Chicago, Ill. Catalytic cracking. 2,323,899; July 13.

De Beers, Franklin M., Jr. (See Gray, D. M., and de Beers.)

Debrey, Michael, East Moline, Ill. Voltage regulator. 2,324,370; July 13.

Deere & Company. (See Paradise, Louis A., assignor.)

Deichert, Cleo B., Beverly Hills, Calif. Maternity dress. 2,324,371; July 13.

Dempsey, Lawrence E., Oak Park, assignor to Sears, Roebuck and Co., Chicago, Ill. Lamp mounting for bicycles. 2,323,900; July 13.

Dennison Manufacturing Company. (See McGovern, Henry P., assignor.)

Desmonds, Albert X., assignor to Real Silk Hosiery Mills, Inc., Indianapolis, Ind. Stocking. 2,324,256; July 13.

Detroit Harvester Company. (See Floraday, Burton S., assignor.)

Diversey Corporation, The. (See Hull, Harry H., assignor.)

Dobak, Nicholas, Manville, and E. R. Powell, North Plainfield, N. J., assignors to Johns-Manville Corporation, New York, N. Y. Mineral wool forming apparatus. 2,324,140; July 13.

Dodd, Arthur E., Edgewood, assignor to The Union Switch & Signal Company, Swissvale, Pa. Electrical control apparatus. 2,324,200; July 13.

Dodegge, Carl, Maywood, assignor to Fred J. Wenzel, Chicago, Ill. Motion picture projector apparatus. 2,324,372; July 13.

Dodge, Parker, Chevy Chase, Md., assignor to Hydraulic Controls, Inc. Pumps. 2,324,291; July 13.

Donahoo, Clarence M., Detroit, Mich., assignor of one-fourth to D. McElderry, and one-fourth to F. R. McElderry, Ottumwa, Iowa. Jack. 2,324,141; July 13.

Donaldson, Werner G., Independence, Mo. Slingshot, beanshooter, or beanie. 2,324,201; July 13.

Dormeyer, A. F., Mfg. Co. (See Strauss, A., and Tucker, assignors.)

Dorr Company, The. (See Kelly, E. M., Kivari, Kite, Roberts, and Sutherland, assignors.)

Douglas Aircraft Company. (See Campiglia, Clementine F., assignor.)

Dow Chemical Company, The. (See Britton, E. C., Nutting, and Horsley, assignors.)

Doyle, Edmund A., Brooklyn, N. Y., E. Meincke, Scotch Plains, and A. M. Keller, Livingston, N. J., assignors to The Linde Air Products Company. Control mechanism for metal working machines. 2,323,979; July 13.

Dremel, Albert J., Racine, Wis. Hand sander. 2,324,292; July 13.

Dreyfus, Henry, London, England, assignor, to Celanese Corporation of America. Manufacture of organic compounds. 2,323,980; July 13.

Du Grenier, Francis C., Haverhill, and F. B. Perri, Groveland; said Perri assignor to B. E. Bouchard, Haverhill, Mass. Coin-controlled vending machine. 2,323,981; July 13.

Dunn, Edward J., Jr., Manhasset, assignor to National Lead Company, New York, N. Y. Manufacture of white lead. 2,323,982; July 13.

Du Pont, E. I., de Nemours & Company. (See Hull, Donald R., assignor.)

Du Pont, E. I., de Nemours & Company. (See Sauer, John C., assignor.)

Du Pont, E. I., de Nemours & Company. (See Soukup, Roy, assignor.)

Dusevoir, Julius, assignor to Century Motors Corporation, Dearborn, Mich. Crankshaft. 2,324,373; July 13.

E. A. Laboratories, Inc. (See Meyerhoefer, C. E., Ballard, and Smoot, assignors.)

Eastman Kodak Company. (See Bennett, Harold F., assignor.)

Eastman Kodak Company. (See Boughton, Fred W., assignor.)

Eastman Kodak Company. (See Crawford, Jack, assignor.)

Eastman Kodak Company, et al. (See Gillon, J. W., and Hollister, assignors.)

Eastman Kodak Company. (See Goldberg, Herbert E., assignor.)

Eastman Kodak Company. (See Herzberger, Maxmilian J., assignor.)

Eastman Kodak Company. (See Hutchison, Miller R., Jr., assignor.)

Eastman Kodak Company. (See Jelley, Edwin E., assignor.)

Eastman Kodak Company. (See Malm, C. J., and Hiatt, assignors.

Eastman Kodak Company. (See Malm, C. J., and Clarke, assignors.)

Eastman Kodak Company. (See McMahon, Edward M., assignor.)

Eastman Kodak Company. (See Nadeau, Gale F., and Ellers, assignors.)

Eastman Kodak Company. (See Tuttle, F. E., and Stoiber, assignors.)

Eastman Kodak Company. (See Von Bramer, H., Davy, and Clemens, assignors.)

Eastman Kodak Company. (See Weissberger, Arnold, assignor.)

Eastman Oil Well Survey Corporation, et al. (See Miller, Leonidas C., assignor.)

Eastman Oil Well Survey Company, et al. (See Miller, L. C., and Bolton, assignors.)

Eden, Christopher G., Rickmansworth, England, assignor to General Electric Company. Apparatus for drilling diamonds and like purposes. 2,324,374; July 13.

Edison General Electric Appliance Company. (See Stoddard E. S., assignor.)

Edmondson, William H., Oak Park, Ill., assignor to United Biscuit Company of America. Doctor blade mechanism. 2,323,983; July 13.

Edwards, Martin A., Scotia, N. Y., assignor to General Electric Company. Power system. 2,324,293; July 13.

Edwards, Russell W. See Hagness, John, assignor.)

Ellers, Louis K. (See Nadeau, G. F., and Ellers.)

Ekert, Werner, Long Island City, N. Y. Condensing and distilling device. 2,324,257; July 13.

Eklund, Howard J., assignor to Rolyan Corporation, Chicago, Ill. Rivet and making same. 2,324,142; July 13.

Electric Storage Battery Company, The. (See Ambruster, Cornelius, assignor.)

Electric Storage Battery Company, The. (See Beetem, Frank G., assignor.)

Electrolux Corporation. (See Lampe, Robert C., assignor.)

Electrolux Corporation. (See Lofgren, G. E., and Stevens, assignors.)

Electrolux Corporation. (See Ross, Adrian E., assignor.)

Erdman, Harvey C., Shaker Heights, assignor to The National Screw & Manufacturing Company, Cleveland, Ohio. Making thread rolling dies. 2,324,143; July 13.

Ericson, George R., Kirkwood, assignor to Carter Carburetor Corporation, St. Louis, Mo. Carburetor. 2,323,984; July 13.

Eriand af Kleen, Nils, Stockholm, Sweden. Control system for refrigerating apparatus. 2,323,901; July 13.

Eriand af Kleen, Nils, Stockholm, Sweden. Absorption or adsorption refrigerating apparatus. 2,323,902; July 13.

Eslick, Harry D., San Francisco, Calif. Swimming glove. 2,324,375; July 13.

Exner-Dodge Packer Company, The. (See Fulkerson, Richard E., assignor.)

Farrel-Birmingham Company. (See Kitchen, H. E., and Hedman, assignors.)

Faulkner, Frank J., assignor, to G-M Laboratories, Inc., Chicago, Ill. Multiple connector plug. 2,324,144; July 13.

Fausek, Arthur J. and I. F., Clayton, Mo. Diaphragm. 2,323,985; July 13.

Fausek, Irwing F. (See Fausek, Arthur J., and I. F.)

Feldman, Soldon. (See Olsen, F., Feldman, and Sheldon.)

Felton, Willard B., assignor to Nuckolls Packing Company, Pueble, Colo. Machine for manufacturing meat balls. 2,324,202; July 13.

Fentress, David W., Evanston, assignor to Chicago Metal Hose Corporation, Maywood, Ill. Welding method and apparatus. 2,323,903; July 13.

Ferrari, Charles G., Minneapolis, and W. S. Hutchinson, St. Paul, Minn., assignors to General Mills, Inc. Multiple flour bleaching process. 2,324,203; July 13.

Fibre Cord Company. (See Bayer, Richard H., assignor.)

Fibre Cord Company. (See Rossi, Harry J., assignor.)

Fiedler, Max G., Media, assignor to Fiedler-Sellers Corporation, Philadelphia, Pa. Fueling solid fuel injection engines. 2,324,071; July 13.

Fiedler-Sellers Corporation. (See Fiedler, Max G., assignor.)

Finleyson, Charles A., Rochelle, Ga. Peanut harvester plow. 2,324,376; July 13.

Fischer, John F., Drexel Hill, assignor to Abrasive Company, Philadelphia, Pa. Porcelain bushed grinding wheel. 2,324,377; July 13.

Fisher Governor Company. (See Wright, Harold B., assignor.)

Fisher, Howard L., St. Paul, Minn. Tape dispenser. 2,324,204; July 13.

Flinn, Richard A., Jr. (See Reese, D. J., and Flinn.)

Floraday, Burton S., Toledo, Ohio, assignor to Detroit Harvester Company, Detroit, Mich. Regulator mechanism for vehicle windows or the like. 2,324,145; July 13.

Florence Pipe Foundry & Machine Company. (See Camerota, Louis A., assignor.)

Flory, Leslie E., Oakly n, and A. W. Vance, Haddonfield, N. J., assignor to Radio Corporation of America. Cathode ray tube. 2,323,986; July 13.

Flude, John W., Houston, Tex. Submarine prospecting. 2,324,378; July 13.

Follewang, Genora E., et al. (See Peters, Otho A., assignor.)

Food Machinery Corporation. (See Longfield-Smith, Longfield, assignor.)

Food Machinery Corporation. (See Thompson, A. R., and Bauer, assignors.)

Foster, Arthur S., Stourport-on-Severn, England. Portable pipe vise. 2,324,379; July 13.

Foster, James, assignor of one-half to J. F. Brum, Bristol, R. I. Yarn guide for twisting frames. 2,323,987; July 13.

Forstner Chain Corporation. (See Schoeninger, Adolf O., assignor.)

Fountain, William M. (See Hayman, C. L., and Fountain.)

Frazer, Guernsey, Los Angeles, Calif. Container having retarding means. 2,324,146; July 13.

Frazier, Sherman W., and J. B. Hendrix, Washington, D. C. Target apparatus. 2,324,294; July 13.

Fregeolle, Oscar, assignor to Hemphill Company, Central Falls, R. I. Knitted fabric and method. 2,323,988; July 13.

Frei, John, Jr., Chicago, Ill, assignor to The W. S. Gilkey Printing Company, Cleveland, Ohio. Apparatus for slitting paper. 2,324,380; July 13.

Frold Laboratories, Inc. (See Hoop, Fred R., assignor.)

Frost, Bernard J., assignor to Transparent Cover Company, Chicago, Ill. Garment bag. 2,324,072; July 13.

Frost, John G. (See Taper, O. C., and Frost.)

Fulkerson, Richard E., assignor to The Exner-Dodge Packer Company, Coffeyville, Kans. Control head packer. 2,323,989; July 13.

G-M Laboratories, Inc. (See Faulkner, Frank J., assignor.)

G-M Laboratories, Inc. (See McMaster, Archie J., assignor.)

Garside, John I. (See Muskovin, G. T., and Garside.)

Gaylor, Peter J., Union, and Edward J. Mahler, Jersey City, N. J., assignors to Standard Oil Development Company. Treating hydrocarbons. 2,324,073; July 13.

Gaynor, Edwin G. (See Andrews, Harold K., assignor.)

Geertsen, Nelson, Chicago, Ill., assignor to American Can Company, New York, N. Y. Container. 2,323,904; July 13.

Geigy, J. R., A. G. (See Bindler, J., and Schläpfer, assignor.)

Gendron, Napoleon J., Seattle, Wash. Burner nossle. 2,324,147; July 13.

General Electric Company. (See Becker, Stewart, assignor.)

General Electric Company. (See D'Alelio, Gaetano F., assignor.)

General Electric Company. (See D'Alelio, G. F., and Underwood, assignors.)

General Electric Company. (See Eden, Christopher G., assignor.)

General Electric Company (See Edwards Martin A., assignor.)

General Electric Company. (See Grobel, Lloyd P., assignor.)

General Electric Company. (See Haifley, L., and Hemphill, assignors.)

General Electric Company. (See Kurtz, Lowell M., assignor.)

General Electric Company. (See Leeds, L. M., and Scheldorf, assignors.)

General Electric Company. (See Lynch, Edward E., assignor.)

General Electric Company. (See Mayer, Harry F., assignor.)

General Electric Company. (See Meyerhans, Robert H., assignor.)

General Electric Company. (See Michel, Philip C., assignor.)

General Electric Company. (See Page, Harry S., assignor.)

General Electric Company. (See Shaffer, Paul B., assignor.)

General Electric Company. (See Smith, Chester W., assignor.)

General Electric Company. (See Westerlund, Einar J., assignor.)

General Electric Company. (See Woodworth, John L., assignor.)

General Electric Company. (See Yerian, Carlos S., assignor.)

General Mills, Inc. (See Carlson, W A., and Salo, assignors.)

General Mills, Inc. (See Ferrari, C. G., and Hutchinson, assignors.)

General Mills, Inc. (See Snyder, Donald J., assignor.)

General Motors Corporation. (See Blackmore L., and Kristek, assignors.)

General Motors Corporation. (See Lenz, A., and Miller, assignors.)

General Motors Corporation (See MacPherson, Earle S., assignor.)

General Motors Corporation. (See Plexico, R. S., assignor.)
General Motors Corp. (See Wilson, Ernest E., assignor.)
Geochemical Service Corporation. (See Pirson, Sylvain J. G., assignor.)
Gerb, Lothar. Berlin-Charlottenburg, Germany, assignor to The Permutit Company, New York, N. Y. Carrying out anion exchange reactions. 2,323,990; July 13.
Gerber, John H., Charlotte, N. C. Variable speed mechanism. 2,324,074; July 13.
Gerber Products Company. (See Baker, Kenneth E., assignor.)
Gilkey, W. S., Printing Company, The. (See Frei, John, Jr., assignor.)
Gillon, John W., Rochester, N. Y., and J. C. Hollister, Denver, Colo., assignors of one-half to Eastman Kodak Company, Rochester, N. Y., and one-half to Heiland Research Corporation, Denver, Colo. Flashlight synchronizing apparatus. 2,324,075; July 13.
Gladfelter, Wiltie I., and J. Prochazka, Philadelphia, Pa., assignors to Crown Cork & Seal Company, Inc., Baltimore, Md. Cupping press. 2,324,205; July 13.
Gleason Works. (See Wildhaber, Ernest, assignor.)
Globe America Corporation. (See Tolley, Donald B., assignor.)
Godsey, Frank W., Jr. (See Sprague, R. C., and Godsey.)
Goheen, Gilbert E. (See Bruun, J. H., and Goheen.)
Goldberg, Herbert E., assignor to Eastman Kodak Company, Rochester, N. Y. Optical system. 2,324,076; July 13.
Goldmark, Peter C., New Canaan, Conn., assignor to Columbia Broadcasting System, Inc., New York, N. Y. Television. 2,323,905; July 13.
Goldsby, Arthur R., and E. E. Sensel, Beacon, assignors, by mesne assignments, to The Texas Company, New York, N. Y. Manufacture of antiknock motor fuels. 2,324,295; July 13.
Golten, Sigurd, New York, N. Y. Stuffing box sealing device. 2,324,206; July 13.
Gonder, Robert C. (See Gonder, Warren W., and R. C.)
Gonder, Warren W., Washington, D. C., and R. C. Gonder, Sheridan, Wyo. Container for lunch kits. 2,324,381; July 13.
Goodale, E., Dudley, Bayside, Long Island, N. Y., and J. L. Hathaway, Cambridge, Mass., assignors to Radio Corporation of America. Measuring circuit. 2,324,077; July 13.
Goodrich, B. F., Company, The. (See Holmes, Lenis, assignor.)
Goodrich, B. F., Company, The. (See Mathes, Roger A., assignor.)
Goodrich, B. F., Company, The. (See Sloan, Arthur W., assignor.)
Goodrich, B. F., Company, The. (See Strong, Walter J., assignor.)
Goodwin, Alfred D., Manteca, Calif. Nut cracker and sheller. 2,324,382; July 13.
Gravin, Moses M., Rochester, N. Y. Electrically heated safety razor. 2,324,148; July 13.
Gray, Daniel M., and F. M. de Beers, Jr., Sewickley, assignors to Stoner-Mudge, Inc., Pittsburgh, Pa. Sanitary coating composition. 2,324,078; July 13.
Gray, David E., assignor to Corning Glass Works, Corning, N. Y. Hydropneumatic press. 2,324,149; July 13.
Green, Donald W., trustee. (See McGill, Daniel F., assignor.)
Green, Isaac H. C. (See Hutton, A. L., Jr., and St. Pierre.)
Green-Kriegsman Paper Co. Inc. (See Kriegsman, Edwin, assignor.)
Greer, Calvin N., Payson, Ariz. Fish screen. 2,324,296; July 13.
Greger, Herbert H., Washington, D. C. Adsorbent material. 2,324,079; July 13.
Grimes, Warren G., Urbana, Ohio. Rheostat. 2,324,383; July 13.
Grimes, Warren G., Urbana, Ohio. Ultraviolet screen for fluorescent lamps. 2,324,384; July 13.
Grobel, Lloyd P., Schenectady, N. Y., assignor to General Electric Company. Dynamoelectric machine. 2,324,297; July 13.
Groetchen, Richard. (See Peters, William G., assignor.)
Groetchen Tool & Mfg. Co. (See Peters, William G., assignor.)
Groomes, Harry M., Whitmore Lake, Mich. Liquid dispensing nozzle. 2,324,150; July 13.
Grupe, William F., Lyndhurst, N. J., assignor, by mesne assignments, to Interchemical Corporation, New York, N. Y. Printing press. 2,324,298; July 13.
Gsell, Herman, San Francisco, Calif. Adjustable seat for vehicles. 2,324,207; July 13.
Gummed Products Company, The. (See Atkins, Walter W., assignor.)
Gustin, Daniel S., and H. K. Richardson, Bloomfield, N. J., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Method and machine for making molded stems for electrical devices. 2,324,385; July 13.
Gusy, Eugene, Buffalo, N. Y. Air cleaner and humidifier. 2,324,386; July 13.
Haberstump, Alfred H., assignor to The Murray Corporation of America, Detroit, Mich. Tractor seat. 2,324,152; July 13.
Hagness, John, assignor to R. W. Edwards, Los Angeles, Calif. Screw-holding screw driver. 2,324,153; July 13.
Haifley, Leroy, and L. F. Hemphill, Fort Wayne, Ind., assignors to General Electric Company. Brush rigging. 2,324,299; July 13.
Halin, Jules E., Drummondville, Quebec, Canada, assignor to Celanese Corporation of America. Yarn twisting. 2,323,991; July 13.
Hampton, Fred, Bellerose, assignor to Zimets Bed Spring Corporation, Brooklyn, N. Y. Spring mattress structure. 2,324,258; July 13.
Hancock Manufacturing Company. (See Marple, Rollo, assignor.)
Haney, Orlando C., Pendleton, Oreg. Hunting garment. 2,324,154; July 13.
Hankins, Frederick W. (See Young, C. D., and Hankins.)
Hardeman, Lyman L., Leavenworth, Kans. Well shaft. 2,323,992; July 13.
Harm, George O., Warren, assignor to The Johnston & Jennings Company, Cleveland, Ohio. Tunnel liner. 2,323,906; July 13.
Harris-Seybold-Potter Company. (See Danehy, James P. assignor.)
Harris-Seybold-Potter Company. (See Haunty, J. F., assignor.)
Harriss, Lloyd J., Kenilworth, and B. Lambers, Oak Park, Ill., said Lambers assignor to said Harriss. Crust roller. 2,323,907; July 13.
Hart, Edwin J. (See Armstrong, R. T., and Hart.)
Harvel Corporation, The. (See Harvey, Mortimer T., assignor.)
Harvey, Leo M., Los Angeles, Calif. Washing machine. 2,323,993; July 13.
Harvey, Mortimer T., East Orange, N. J., assignor to The Harvel Corporation. Sulphonation process. 2,324,300; July 13.
Hathaway, Jarrett L. (See Goodale, E. D., and Hathaway.)
Haunty, J. F., Dayton, assignor to Harris-Seybold-Potter Company, Cleveland, Ohio. Clutch control mechanism. 2,324,080; July 13.
Havel, Victor, assignor to L. L. Paper Products, Inc., Chicago, Ill. Loose-leaf construction. 2,324,259; July 13.
Haycock, John, Larchmont, assignor to Continental Can Company, Inc., New York, N. Y. Container and end closure therefor. 2,324,387; July 13.
Hayman, Charles L., and W. M. Fountain, Oakland, Calif. Device for forming and slicing butter and the like. 2,324,208; July 13.
Haynes, Robert E., San Francisco, Calif. Outlet box. 2,324,155; July 13.
Healy, Patrick J., Detroit, Mich. Swivelly mounted nut. 2,324,388; July 13.
Heck, Adele de Berrie. (See Roessner, William L., assignor.)
Hedman, Gustave H. (See Kitchen, H. E., and Hedman.)
Heidbrink, Jay A., Minneapolis, Minn., assignor to Air Reduction Company, New York, N. Y. Portable oxygen aviation unit. 2,324,389; July 13.
Heiland Research Corporation, et al. (See Gillon, J. W., and Hollister, assignors.)
Heiliger, Eugene R., Tulsa, Okla. Method and apparatus for reclaiming ultraviolet lamps. 2,324,390; July 13.
Heintz, Ralph M., Shaker Heights, and P. F. Scofield, Cleveland Heights, assignors to Jack & Heintz, Inc., Cleveland, Ohio. Brush lifting relay mechanism. 2,324,156; July 13.
Heintz, Ralph M., assignor to Jack & Heintz, Inc., Cleveland, Ohio. Air jet gyro drift control. 2,324,157; July 13.
Heintz, Ralph M., assignor to Jack & Heintz, Inc., Cleveland, Ohio. Armature construction. 2,324,158; July 13.
Heintz, Ralph M., Cleveland, assignor to Jack & Heintz, Inc., Bedford, Ohio. Shielded relay. 2,324,301; July 13.
Helgason, Helgi, Los Angeles, Calif. Hinge. 2,324,209; July 13.
Helm, Clyde, Kansas City, Mo. Battery terminal protective device. 2,324,082; July 13.
Hemphill Company. (See Fregeolle, Oscar, assignor.)
Hemphill Company. (See Hutton, A. L., Jr., Green, and St. Pierre, assignors.)
Hemphill Company. (See Smith, William L., Jr., assignor.)
Hemphill, Lawrence G. (See Haifley, L., and Hemphill.)
Hendrix, James B. (See Frazier, S. W., and Hendrix.)
Hennefer, Fred L., Salt Lake City, Utah. Eraser cleaner. 2,323,908; July 13.
Hercules Powder Company. (See Cobb, William M., Jr., assignor.)
Hercules Powder Company. (See Martin, Robert W., assignor.)
Hercules Powder Company. (See Miller, Abraham B., assignor.)
Hercules Powder Company. (See Schantz, Jacob M., assignor.)
Herold, James L., assignor to Barry-Wehmiller Machinery Company, St. Louis, Mo. Bottle cleaning machine. 2,324,210; July 13.
Hersey, Donald S., West Hartford, assignor to United Aircraft Corporation, East Hartford, Conn. Density measuring device. 2,324,391; July 13.

Herzberger, Maximilian J., assignor to Eastman Kodak Company, Rochester, N. Y. Microscope objective. 2,324,081; July 13.
Hiatt, Gordon D. (See Malm, C. J., and Haitt.)
Higginbotham, Eugene E., Escalon, Calif. Baled hay separator. 2,324,159; July 13.
Hilt, John J., assignor to Young Radiator Company, Racine, Wis. Oil cooler. 2,323,994; July 13.
Hinchman, Alva K., Bryn Mawr, Pa., assignor to Ozone Gas Combustion Co., Inc. Feeding liquefied gas-ozone fuel to internal combustion engines. 2,324,392; July 13.
Hiroshima, Hidekichi S., Culver City, Calif. Spreader. 2,323,995; July 13.
Hoag, Roderick W., Melrose, Mass. Folding box. 2,324,151; July 13.
Hodgson, Howard E., and C. W. Kuhn, Wauwatosa, Wis., and W. C. Stevens, assignors to Cutler-Hammer, Inc., Milwaukee, Wis. Drive for valves and the like. 2,324,211; July 13.
Hoffman, Valentine E., et al. (See Barna, Joseph W., assignor.)
Hoffoss, John E., assignor to Reed Roller Bit Company, Houston, Tex. Core taking apparatus. 2,324,160; July 13.
Hohl, John, and O. Bjering, Toledo, Ohio, E. E. Lakso, Fitchburg, Mass., and C. W. Vogt, Weston, Conn.; said Hohl, Bjering, and Lakso assignors to Owens-Illinois Glass Company. Bag making machine. 2,324,393; July 13.
Hohlweg, Walter. (See Inhoffen, H., Hohlweg, and Logemann.)
Holden, Norman G. (See Thomas, A., and Holden.)
Holden, William H. T., Woodside, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Signaling system. 2,324,394; July 13.
Hollister, John C. (See Gillon, J. W., and Hollister.)
Holmes, Gifford I., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Control means. 2,324,161; July 13.
Holmes, Lenis, Medina, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Making bearings. 2,324,083; July 13.
Hoop, Fred R., assignor to Froid Laboratories, Inc., Grand Rapids, Mich. Beverage making machine and process. 2,324,395; July 13.
Horner, Jason N., Los Angeles, Calif. Backflow preventer. 2,324,084; July 13.
Horsley, Lee H. (See Britton, E. C., Nutting, and Horsley.)
Horton, Erwin C. (See Rappl, A., and Horton.)
Horvitz, Leo, and E. E. Rosaire, Houston, Tex., said Horvitz assignor to said Rosaire. Geochemical well logging. 2,324,085; July 13.
Houlston, Frederick W., Toronto, Ontario, Canada. Machine for flattening sheet metal articles. 2,323,909; July 13.
Housekeeper, Earl J. (See Schelling, J. C., Hunter, Housekeeper, and Calhoun.)
Howell, Frederic B., Wilkes Barre, Pa. Automotive transmission gear shift-indicator. 2,324,396; July 13.
Hubbard, David C., assignor to A. B. Chance Company, Centralia, Mo. High voltage electrical measuring instrument. 2,323,996; July 13.
Hubbell, Harvey, Long Hill, Conn. Magnetic switch. 2,323,910; July 13.
Hubenet, Will W., Detroit, Mich. Whipped cream dispenser. 2,324,162; July 13.
Huff, Van E., assignor of one-half to C. F. Miller, Miami, Fla. Louver pivot clip. 2,324,454; July 13.
Hughes, George J., Pendleton, Ind. Control system. 2,323,997; July 13.
Hull, Donald R., Newport, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Method for production of continuous structures. 2,324,397; July 13.
Hull, Harry H., Chicago Heights, Ill., assignor to The Diversy Corporation. Stable-colored crystalline alkali metal hypochlorite-containing composition. 2,324,302; July 13.
Hulse, George E. (See Chittum, J. P., and Hulse.)
Hunter, Rutherford H. (See Schelling, J. C., Hunter, Housekeeper, and Calhoun.)
Hutchison, Miller R., Jr., assignor to Eastman Kodak Company, Rochester, N. Y. Film spool holder. 2,324,086; July 13.
Hutchinson, Willis S. (See Ferrari, C. G., and Hutchinson.)
Hutton, Alfred L., Jr., Lonsdale, I. H. C. Green, and E. St. Pierre, Pawtucket, assignors to Hemphill Company, Central Falls, R. I. Pattern means for knitting machines. 2,323,998; July 13.
Hydraulic Brake Company. (See Miller, Raymond J., assignor.)
Hydraulic Controls, Inc. (See Dodge, Parker, assignor.)
Illinois Tool Works. (See Poupitch, Ouglesa J., assignor.)
Industrial Patents Corporation. (See Walter, Charles T., assignor.)
Industrial Patents Corporation. (See Williams, B. E., and Cadwell, assignors.)
Inhoffen, Hans H., Berlin-Wilmersdorf, W. Hohlweg, Hohen-Neuendorf, near Berlin, and W. Logemann, Berlin-Charlottenburg, Germany, assignors to Schering Corporation, Bloomfield, N. J. Manufacture of $\Delta^{4,5}$-androstenol-17-ones-3 containing an unsaturated side-chain in 17-position and derivatives thereof. 2,323,911; July 13.
Insley, Norman, Nanuet, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electric lamp. 2,324,212; July 13.
Interchemical Corporation. (See Grupe, William F., assignor.)
International Business Machines Corporation. (See Luhn, Hans P., assignor.)
International Cigar Machinery Company. (See Neumair, Joseph A., assignor.)
International Nickel Company. (See Reese, D. J., and Flinn, Jr., assignors.)
Jaccard, Philippe R., Petit Lancy, Geneva, Switzerland. Driving mechanism. 2,324,163; July 13.
Jack & Heintz, Inc. (See Heintz, Ralph M., assignor.)
Jack & Heintz, Inc. (See Heintz, R. M., and Scofield, assignors.)
Jacobson, William T. (See Anderson, R. G., and Jacobson.)
Jelley, Edwin E., assignor to Eastman Kodak Company, Rochester, N. Y. Etching process. 2,324,087; July 13.
Jewett, Joseph E., Larchmont, assignor to American Cyanamid Company, New York, N. Y. Distillation of high boiling esters. 2,324,088; July 13.
Johns-Manville Corporation. (See Dobak, N., and Powell, assignors.)
Johns-Manville Corporation. (See Tullen, Ture S., assignor.)
Johnson, Axel F., Chicago, assignor to Chicago Metal Hose Corporation, Maywood, Ill. Coupling construction. 2,323,912; July 13.
Johnson, Clarence L., Encino, assignor to Lockheed Aircraft Corporation, Burbank, Calif. Airplane anticing construction. 2,324,303; July 13.
Johnson, John A., assignor to Art Metal Construction Company, Jamestown, N. Y. Paper file. 2,324,260; July 13.
Johnson, John B., Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron discharge apparatus. 2,324,089; July 13.
Johnson, Kenneth L., Sewickley, Pa. Fastener. 2,323,999; July 13.
Johnson, William B., U. S. Army, Baltimore, Md. Folding pedal. 2,323,913; July 13.
Johnston & Jennings Company, The. (See Harm, George O., assignor.)
Johnston, Norris. (See Bertness, T. A., Johnston, and Newton.)
Johnston, Raymond H., Newtown, Ind., assignor to Coffing Hoist Company, Danville, Ill. Hoist structure. 2,324,000; July 13.
Jones, Luther L. (See Wilson, Earl R., assignor.)
Jordan, Warren D., and H. N. Mondloch, Waukegan, Ill., assignors to American Can Company, New York, N. Y. Can closing machine. 2,323,914; July 13.
Joyce, Bryan P., East Orange, N. J., assignor to American Armament Corporation, New York, N. Y. Ordnance traveling lock. 2,324,213; July 13.
Kahr, Rudy, Hollywood, Calif. Floor screen. 2,324,398; July 13.
Kamborian, Jacob S., West Newton, Mass. Flap splitting machine. 2,323,915; July 13.
Kanhofer, Elmer R. (See Day, R. B., and Kanhofer.)
Kary-Safe Co. (See Rossi, Harry J.)
Kary-Safe Company Inc. (See Bayer, Richard H.)
Kassay, Andrew W. (See Murray, J. A., and Kassay.)
Katz, Harry P., Cleveland, Ohio. Grate. 2,323,916; July 13.
Katzman, Jacob, New York, N. Y. Turbidity meter. 2,324,304; July 13.
Kaye, Benjamin I., New York, N. Y. Apparatus for aligning and registering forms for multicolored printing. 2,324,399; July 13.
Keim, Christopher P., Danvers, and B. J. Vasalle, Salem, Mass., assignors to Sylvania Electric Products Inc. Lamp coating apparatus. 2,324,455; July 13.
Keller, Arthur M. (See Chelborg, R., Bucknam, and Keller.)
Keller, Arthur M. (See Doyle, E. A., Meincke, and Keller.)
Kellogg, Edward W., Moorestown, N. J., assignor to Radio Corporation of America. Phonograph apparatus. 2,324,214; July 13.
Kellogg, M. W., Company, The, et al. (See Layng, E. T., and Marschner, assignors.)
Kelly, Earl M., and A. M. Kivari, Los Angeles, Calif., R. P. Kite, Larchmont, N. Y., E. J. Roberts, Westport, Conn., and D. B. Sutherland, Montclair, N. J., assignors to The Dorr Company, Inc., New York, N. Y. Liquid clarification. 2,324,400; July 13.
Kelly, William M., Westfield, N. J. Bed motion for printing presses. 2,324,001; July 13.
Kennedy, Douglas J., and W. E. Barker, Shawinigan Falls, assignors to Shawinigan Chemicals Limited, Montreal, Quebec, Canada. Electrolytic cell. 2,324,002; July 13.
Kibler, Everett L., Pittsburgh, Pa. Tire chain applying tool. 2,323,917; July 13.

Kiernan, Joseph F., Brooklyn, N. Y. Drying fiberboard and the like. 2,323,918; July 13.
Kimball, Wallace D., Jackson Heights, N. Y., assignor to Standard-Knapp Corporation, Portland, Conn. Case sealing machine. 2,324,401; July 13.
King, Claude L., assignor to James W. Cook & Company, Limited, London, England. Cleaning of sacks, bags, or like containers. 2,324,456; July 13.
King, Victor L. (See Wintringham, A. C., and King.)
Kinsburg, Boris J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Measuring apparatus. 2,324,215; July 13.
Kirsten, Kurt F. J., Seattle, Wash. Tobacco pipe. 2,324,216; July 13.
Kitchen, Harry E., Buffalo, and G. H. Hedman, Kenmore, assignors to Farrel-Birmingham Company, Inc., Buffalo, N. Y. Double helical gear cutter. 2,324,003; July 13.
Kite, Robert P. (See Kelly, E. M., Kivari, Kite, Roberts, and Sutherland.)
Kivari, Arthur M. (See Kelly, E. M., Kivari, Kite, Roberts, and Sutherland.)
Klaholz, Hans F. (See von Schneeweiss, P. R., and Klaholz.)
Knauth, Walter T., Houston, Tex., assignor to The Milwhite Company Inc. Temperature compensator. 2,324,217; July 13.
Knox, Harry A., Washington, D. C. Wheel suspension. 2,323,919; July 13.
Knudsen, Frederick K., Govans P. O., assignor to The Porcelain Enamel & Manufacturing Company, Baltimore, Md. Method of and apparatus for dewatering comminuted materials. 2,323,920; July 13.
Kocher, Edward H., Boonton, N. J., assignor to Auto Research Corporation. Lubrication. 2,324,402; July 13.
Kraus, Clarence W., Buffalo, N. Y. Building construction. 2,324,218; July 13.
Krause, Norman R., assignor to J. I. Case Company, Racine, Wis. Pickup device. 2,324,261; July 13.
Kriegsman, Edwin, Scarsdale, assignor to Green-Kriegsman Paper Co. Inc., New York, N. Y. Paper fastener. 2,324,004; July 13.
Kristek, Marx C. (See Blackmore, L., and Kristek.)
Kronmiller, Carl G., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Control device. 2,324,164; July 13.
Kuhn, Clarence W. (See Hodgson, H. E., Kuhn, and Stevens.)
Kühn, Ernst K., New York, N. Y. Extension stem for vehicle handle bars. 2,324,403; July 13.
Kurtz, Lowell M., Scotia, N. Y., assignor to General Electric Company. Sound stroboscope. 2,324,305; July 13.
L. L. Paper Products, Inc. (See Havel, Victor, assignor.)
Lake, Ross A., Oak Park, assignor to Teletype Corporation, Chicago, Ill. Keyboard perforator. 2,323,921; July 13.
Lakso, Eino E. (See Hohl, J., Bjering, Lakso, and Vogt.)
Lamb, Anthony H., Elizabeth, assignor to Weston Electrical Instrument Corporation, Newark, N. J. Magnetic contact. 2,324,262; July 13.
Lambers, Bernard. (See Harriss, L. J., and Lambers.)
Lampe, Robert C., Springdale, Conn., assignor to Electrolux Corporation, Dover, Del. Vacuum cleaner. 2,324,306; July 13.
Landers, Frary & Clark. (See Anderson, Oscar M., assignor.)
Lange, Edward H., Baltimore, Md. Method and apparatus for removing amplitude modulation. 2,324,090; July 13.
Langel, Adrien L., assignor to Chicago Metallic Manufacturing Company, Chicago, Ill. Multiple baking pan. 2,323,922; July 13.
Larkin, Elwood T., Amherst, assignor to Sterling Engine Company, Buffalo, N. Y. Control system for internal combustion engines. 2,324,005; July 13.
Latina, Harry B., East St. Louis, Ill., assignor to Rawlings Manufacturing Company, St. Louis, Mo. Baseball mitt. 2,324,219; July 13.
La Valliere, Walter, Sheboygan, Wis. Rocking chair. 2,324,091; July 13.
Layng, Edwin T., Jersey City, N. J., and R. F. Marschner, Chicago, Ill., assignors of one-half to Standard Oil Company and one-half to The M. W. Kellogg Company. Dehydroaromatization. 2,324,165; July 13.
Laystrom, C. A., et al. (See Barna, Joseph W., assignor.)
Laystrom, Carl A., et al. (See Barna, Joseph W., assignor.)
Leeds, Laurance M., Rotterdam Junction, and M. W. Scheldorf, Schenectady, N. Y., assignors to General Electric Company. High frequency antenna system. 2,324,462; July 13.
Leggitt, Julian M., Unadilla, Ga. Stalk cutter. 2,324,092; July 13.
Lehmann, Herbert G., assignor to Casco Products Corporation, Bridgeport, Conn. Ignition testing and engine treating device. 2,324,404; July 13.
Lenz, Arnold, Grand Blanc, and J. F. Miller, Saginaw, assignors to General Motors Corporation, Detroit, Mich. Valve tappet. 2,324,006; July 13.
Le Tourneau, R. G., Inc. (See Wyman, Floyd H., assignor.)
Lenthold, Walter M., et al. (See Peters, Otho A., assignor.)
Lever Brothers Company. (See Anderson, Carl N., assignor.)
Lewis, John, assignor, to U. S. Pegwood & Shank Company, Brownville, Maine. Shoe with laminal wood sole. 2,324,094; July 13.
Lhamon, Walter D., Cleveland, Ohio. Garment hanger. 2,324,093; July 13.
Libbey-Owens-Ford Glass Company. (See Murray, J. A., and Kassay, assignors.)
Lieberherr, Hans, assignor to Sulzer Frères, Société Anonyme, Winterthur, Switzerland. Bearing for taking axial thrusts. 2,324,095; July 13.
Lilly, Russell M., Kermit, Tex. Well hoisting device. 2,324,096; July 13.
Linde Air Products Company, The. (See Bucknam, J. H., and Miller, assignors.)
Linde Air Products Company, The. (See Chelborg, R., Bucknam, and Keller, assignors.)
Linde Air Products Company, The. (See Doyle, E. A., Meincke, and Keller, assignors.)
Lindell, Sigurd I. (See Triplett, H. A., and Lindell.)
Line Material Company. (See Schultz, William O., assignor.)
Line Material Company. (See Schultz, W. O., and Steinmayer, assignors.)
Liskow, John G. (See Pfau, A. C., and Liskow.)
Little, Charles H., assignor of one-tenth to C. H. Little, Cleveland Heights, Ohio. Drafting machine. 2,324,457; July 13.
Little, Charles H. (See Little, Charles H., assignor.)
Lively, James W., San Jose, Calif. Carton sealing device. 2,324,405; July 13.
Lobl, Victor, and E. L. McCormack, Spindale, N. C. Loom reed threading device. 2,324,220; July 13.
Lockheed Aircraft Corporation. (See Johnson, Clarence L., assignor.)
Lofgren, Gustaf E., Riverside, and C. E. Stevens, Greenwich, Conn., assignors to Electrolux Corporation, New York, N. Y. Latching mechanism. 2,324,406; July 13.
Logemann, Willy. (See Inhoffen, H., Hohlweg, and Logemann.)
Longfield-Smith, Longfield, Babson Park, Fla., assignor to Food Machinery Corporation, San Jose, Calif. Process for coloring fruit. 2,324,407; July 13.
Lowe, Paul E., Scranton, Pa., assignor to The Rails Company, New Haven, Conn. Combination cutting and surfacing grinder. 2,324,263; July 13.
Luhn, Hans P., North Tarrytown, assignor, by mesne assignments, to International Business Machines Corporation. Counting and control mechanism. 2,324,221; July 13.
Lustig, Walter R., assignor to The Atwood Vacuum Machine Company, Rockford, Ill. Automobile trunk lock. 2,324,264; July 13.
Lynch, Edward E., Easthampton, Mass., assignor to General Electric Company. Ampere-hour meter. 2,324,307; July 13.
MacPherson, Earle S., assignor to General Motors Corporation, Detroit, Mich. Equalized hydraulic brake system for six wheeled vehicles. 2,324,007; July 13.
Mahler, Edward J. (See Gaylor, P. J., and Mahler.)
Maleson, Leonard, Philadelphia, Pa. Ammonium sulphate recovery process. 2,324,222; July 13.
Malm, Carl J., and G. D. Hiatt, assignors to Eastman Kodak Company, Rochester, N. Y. Adhesive and the method of causing adherence therewith. 2,324,097; July 13.
Malm, Carl J., and G. J. Clarke, assignors to Eastman Kodak Company, Rochester, N. Y. Dipping lacquer. 2,324,098; July 13.
Malmquist, Oscar V., Minneapolis, Minn. Hydraulic transmission mechanism. 2,324,308; July 13.
Marble, Frank G., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Amplifier. 2,324,408; July 13.
Markwardt, Lorraine J., Madison, Wis., assignor to Secretary of Agriculture of the United States of America. Hardness testing tool. 2,323,925; July 13.
Marple, Rollo, assignor to Hancock Manufacturing Company, Jackson, Mich. Latch. 2,324,409; July 13.
Marschner, Robert F. (See Layng, E. T., and Marschner.)
Marshall, Clinton E., Bronx, N. Y. Fountain pen. 2,324,008; July 13.
Martin, Glenn L., Company, The. (See Simms, Eldon E., assignor.)
Martin, Robert W., assignor, to Hercules Powder Company, Wilmington, Del. Rosin refining. 2,324,223; July 13.
Mason, Ralph B., Baton Rouge, La., assignor to Standard Oil Development Company. Alkylation process. 2,324,099; July 13.
Mathes, Roger A., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Vulcanization of rubber. 2,323,923; July 13.
Maxant Button & Supply Co. (See McDonough, Lawrence E., assignor.)
Mayer, Harry F., Schenectady, N. Y., assignor to General Electric Company. Superheterodyne receiver. 2,323,924; July 13.
Maynard, James, Los Angeles, assignor to E. R. Parker, Seal Beach, Calif. Gas control means. 2,324,100; July 13.

McCloy, Graham S., Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Refrigeration apparatus. 2,324,309; July 13.
McCormack, Eugene L. (See Lobl, Victor, and McCormack.)
McDonough, Lawrence E., Park Ridge, Ill., assignor to Maxant Button & Supply Co. Apparatus for assembling of pile fabric articles. 2,324,009; July 13.
McElderry, Donald, et al. (See Donahoo, Clarence M., assignor.)
McElderry, Frank R., et al. (See Donahoo, Clarence M., assignor.)
McGill, Daniel F., Multnomah, assignor to D. W. Green, Portland, Oreg., as trustee. Hydraulic transmission. 2,323,926; July 13.
McGill Manufacturing Company. (See Popp, R., and Carlson, assignors.)
McGovern, Henry P., Marlboro, assignor to Dennison Manufacturing Company, Framingham, Mass. Jewelry case. 2,324,310; July 13.
McKelvey, Garland, Annapolis, Md. Oarlock for sculling. 2,324,311; July 13.
McLaughlin, Kenneth M., Summit, N. J., assignor to Radio Corporation of America. Electrical connector. 2,324,166; July 13.
McMahon, Edward M., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y. Stabilization of unsaturated ketones. 2,324,101; July 13.
McMaster, Archie J., Highland Park, assignor to G-M Laboratories, Inc., Chicago, Ill. D'Arsonval relay. 2,324,265; July 13.
Mead, Merle K., Pasadena, Calif. Escape construction for submarines. 2,324,167; July 13.
Meincke, Edward. (See Doyle, E. A., Meincke, and Keller.)
Mercier, Jean, Neuilly-sur-Seine, France; vested in the Alien Property Custodian. Emergency device for hydraulic control systems. 2,323,927; July 13.
Meredith, Frederick W., assignor to S. Smith & Sons (Motor Accessories) Limited, Cricklewood, London, England. Locating and fastening means. 2,324,224; July 13.
Meyer, Geo. J., Manufacturing Company. (See Meyer, G. J., Steckling and Classen, assignors.)
Meyer, George J., C. Steckling, Jr., and J. F. Classen, Milwaukee, assignors to Geo. J. Meyer Manufacturing Company, Cudahy, Wis. Bottle feeding mechanism. 2,324,312; July 13.
Meyerhans, Robert H., West Caldwell, N. J., assignor to General Electric Company. Air conditioning apparatus. 2,324,313; July 13.
Meyerhoefer, Carl E., Brooklyn, W. C. Ballard, Jr., Ithaca, N. Y., and J. H. Smoot, Darien, Conn., assignors to E. A. Laboratories, Inc., Brooklyn, N. Y. Heater. 2,324,010; July 13.
Michel, Philip C., Schenectady, N. Y., assignor to General Electric Company. Electronic switch. 2,324,314; July 13.
Miessner, William O., Lawrence, Kans. Theme finder. 2,324,315; July 13.
Miller, Abraham B., Newark, assignor to Hercules Powder Company, Wilmington, Del. Soil stabilization. 2,323,928; July 13.
Miller, Abraham B., Newark, assignor to Hercules Powder Company, Wilmington, Del. Stabilization of soils. 2,323,929; July 13.
Miller, Alfred J. (See Bucknam, J. H., and Miller.)
Miller, Charles F. (See Huff, Van E., assignor.)
Miller, James F. (See Lenz, A., and Miller.)
Miller, Leonidas C., assignor of one-half to Eastman Oil Well Survey Company, Dallas, Tex., and one-half to Eastman Oil Well Survey Corporation, Long Beach, Calif. Well survey apparatus. 2,324,103; July 13.
Miller, Leonidas C., and R. F. Bolton, assignors of one-half to Eastman Oil Well Survey Company, Dallas, Tex., and one-half to Eastman Oil Well Survey Corporation, Long Beach, Calif. Directional drilling. 2,324,102; July 13.
Miller, Raymond J., assignor to Hydraulic Brake Company, Detroit, Mich. Blade wheel. 2,324,011; July 13.
Miller, William J., Swissvale, Pa. Apparatus for decorating pottery ware. 2,324,410; July 13.
Miller, William J., Swissvale, Pa., L. P. Reese, Scio, Ohio, and G. J. Croninger, Swissvale, Pa. Apparatus for decorating pottery ware, glass ware, and the like. 2,324,411; July 13.
Milster, Arthur N., Ferguson, assignor to Wagner Electric Corporation, St. Louis, Mo. Braking system for tractor vehicles. 2,324,412; July 13.
Milutin, Theodore A., Dearborn, Mich. Cutting-off tool. 2,324,316; July 13.
Milwaukee Electric Tool Corporation. (See Beckwith, Wendell K., assignor.)
Milwhite Company Inc., The. (See Knauth, Walter T., assignor.)
Minneapolis-Honeywell Regulator Company. (See Crum, Stephen, assignor.)
Minneapolis-Honeywell Regulator Company. (See Holmes, Gifford I., assignor.)
Minneapolis-Honeywell Regulator Company. (See Kronmiller, Carl G., assignor.)
Mitchell, Joseph E., East Rutherford, assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J. Extraction of organic materials. 2,324,012; July 13.
Mollison, Wellbourne A. (See Schopmeyer, H. H., and Mollison.)
Mondloch, Henry N. (See Jordan, W. D., and Mondloch.)
Monroe Auto Equipment Company. (See Boor, A., and Read, assignors.)
Monroe, Benjamin F. (See Will, C. H., and Monroe.)
Montelius, Carl O. J., Stockholm, Sweden. Rotary compressor or motor. 2,324,168; July 13.
Moore, Maurice L., Drexel Hill, assignor to Sharp & Dohme, Incorporated, Philadelphia, Pa. Amino-substituents of sulphanilamide derivatives. 2,324,013; July 13.
Moore, Maurice L., Detroit, Mich., assignor to Sharp & Dohme, Incorporated, Philadelphia, Pa. Succinylsulphathiazole. 2,324,014; July 13.
Moore, Maurice L., Detroit, Mich., assignor to Sharp & Dohme, Incorporated, Philadelphia, Pa. Phthylsulphathiazole. 2,324,015; July 13.
Moran, Martin, Cambridge, assignor of one-half to Simms Motor Units Limited, London, England. Distributor ignition for internal combustion engines. 2,324,169; July 13.
Moreton, Henry H., East Orange, N. J. Book, magazine, pamphlet, or the like. 2,324,413; July 13.
Morris, Charles M., East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 2,324,317; July 13.
Morris, Claremont R., New York, N. Y. Ladder attachment. 2,324,414; July 13.
Moss, Clarence E., Wichita, Kans. Riveting tool. 2,324,104; July 13.
Moss, Jim H., Boise, Idaho. Combined wrench and pliers. 2,324,415; July 13.
Mueller Co. (See Mueller, F. H., and Bowan, assignors.)
Mueller, Frank H., and W. J. Bowan, assignors to Mueller Co., Decatur, Ill. Drilling apparatus. 2,324,225; July 13.
Murphy, Bernard J., St. Paul, Minn. Hand grip for electric irons. 2,324,226; July 13.
Murray Corporation of America, The. (See Haberstump, Alfred H., assignor.)
Murray, Ernest E., Detroit, Mich. Buffing or polishing machine. 2,324,416; July 13.
Murray, John A., and A. W. Kassay, Toledo, Ohio, assignors, by mesne assignments, to Libbey-Owens-Ford Glass Company. Preparation of derivatives of dimethylol urea. 2,324,417; July 13.
Muskovin, George T., Worcester, and J. I. Garside, West Boylston, assignors to Norton Company, Worcester, Mass. Grinding machine. 2,324,266; July 13.
Muth, Clifford F., Cincinnati, Ohio. Wax beehive foundation. 2,324,227; July 13.
Mutual Machine Company. (See Cahill, John J., assignor.)
Myers, Walter, Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Loop-taker mechanism for sewing machines. 2,324,418; July 13.
Nadeau, Gale F., and I. K. Eilers, assignors to Eastman Kodak Company, Rochester, N. Y. Subbing solution for photographic films. 2,324,105; July 13.
Nadeau, Ross, Newark, and A. Rothschmitt, Irvington, assignors to Club Razor & Blade Manufacturing Corp., Newark, N. J. Making razor blade packages. 2,324,016; July 13.
Nash, Ben, Short Hills, N. J., assignor to Rogers Imports Inc., New York, N. Y. Combination package and dispenser. 2,324,228; July 13.
National Folding Box Company. (See Pantalone, Vincent R., assignor.)
National Lead Company. (See Dunn, Edward J., assignor.)
National Oil Products Company. (See Buxton, Loran O., assignor.)
National Screw & Manufacturing Company. (See Erdman, Harvey C., assignor.)
National-Standard Company. (See Adler, Orville E., assignor.)
Neale, Edgar W., Birmingham, England. Lattice structure. 2,324,229; July 13.
Nelson, James M., Los Angeles, Calif. Electric traffic signal. 2,324,419; July 13.
Neumair, Joseph A., Hollis, N. Y., assignor to International Cigar Machinery Company. Cigar enveloping. 2,324,017; July 13.
Newland, John H. (See Danehy, J. P., and Newland.)
Newton, Daniel O. (See Bertness, T. A., Johnston and Newton.)
New York Air Brake Company, The. (See Baldwin, Wayne A., assignor.)
Niedringhaus, Charles W., assignor to School of Design, Chicago, Ill. Article formed from relatively thin resilient sheets. 2,324,318; July 13.
Norton Company. (See Muskovin, G. T., and Garside, assignors.)
Nuckolls Packing Company. (See Felton, Willard B., assignor.)
Nutting, Howard S. (See Britton, E. C., Nutting, and Horsley.)
Oelkers, Alfred H., assignor to American Steel Foundries, Chicago, Ill. Truck. 2,324,267; July 13.

Oestrike, Elmer E., Detroit, Mich. Forming helmets. 2,324,420; July 13.
Ofstie, Edwin H., assignor to Regents of the University of Minnesota, Minneapolis, Minn. Sprinkler head. 2,324,170; July 13.
Olsen, Fredrich, S. Feldman and L. M. Sheldon, assignors to The Cellulose Research Corporation, East Alton, Ill. Preparing wood pulp. 2,324,230; July 13.
Österdahl, Ragnar K., Stora Essingen, Sweden. Vacuum cleaner dust bag. 2,324,231; July 13.
Ouellette, Alfred J., St. Paul, Minn. Supporting stand for infants. 2,324,421; July 13.
Owens-Illinois Glass Company. (See Hohl, J., Bjering, Lakso, assignors, and Vogt.)
Ozone Gas Combustion Co. (See Hinchman, Alva K., assignor.)
Page, Harry S., Schenectady, N. Y., assignor to General Electric Company. Dynamoelectric machine. 2,324,319; July 13.
Pantalone, Vincent R., Hamden, assignor to National Folding Box Company, New Haven, Conn. Display container. 2,324,232; July 13.
Paradise, Louis A., assignor to Deere & Company, Moline, Ill. Harvester platform. 2,324,171; July 13.
Parker, Elgin R. (See Maynard, James, assignor.)
Parkhurst, George L., assignor to Standard Oil Company, Chicago, Ill. Processing well fluids. 2,324,172; July 13.
Parsons, Bruce M., San Gabriel, Calif. Frankfurter roaster. 2,324,233; July 13.
Patterson, William N., Detroit, assignor, by mesne assignments, to The Sparks-Withington Company, Jackson, Mich. Suction cleaner. 2,324,422; July 13.
Pechy, William, Mahasquan, N. J., assignor to American Can Company, New York, N. Y. Vacuum closing machine. 2,323,930; July 13.
Pelton, Morton A., Detroit, Mich. Electrode holder. 2,324,320; July 13.
Pennsylvania Company for Insurances on Lives and Granting Annuities, The. (See Wood, Joseph D., assignor.)
Permutit Company, The. (See Gerb, Lothar, assignor.)
Perri, Frank B. (See Du Grenier, F. C., and Perri.)
Peters, George W., et al. (See Peters, Otho A., assignor.)
Peters, Melville F., Beltsville, Md. Cable testing device. 2,323,931; July 13.
Peters, Melville F., Beltsville, J. P. Boston, Garrett Park, Md., and M. Davis, Washington, D. C. Spark plug tester. 2,324,458; July 13.
Peters, Nellie H., et al. (See Peters, Otho A., assignor.)
Peters, Otho A., assignor of one-eighth to W. M. Leuthold, one-eighth to N. H. Peters, one-eighth to G. B. Follevaag, Deer Park, and one-eighth to G. W. Peters, Spokane, Wash. Irrigator. 2,324,234; July 13.
Peters, William G., assignor to Richard Groetchen, doing business as Groetchen Tool & Mfg. Co., Chicago, Ill. Register resetting mechanism. 2,324,321; July 13.
Petersen, Louis S., Forest Hills, assignor to F. L. Smidth & Co., New York, N. Y. Flotation cell. 2,324,018; July 13.
Pettit, Ralph E., New Kensington, assignor to Aluminum Company of America, Pittsburgh, Pa. Process of ornamentation. 2,324,106; July 13.
Pfau, Alfred C., Jeffersonville, Ind., and J. G. Liskow, assignor to American Air Filter Company, Inc., Louisville, Ky. Work cabinet. 2,324,019; July 13.
Pidgeon, Elmer F., Spiceland, Ind. Window shade mounting. 2,324,423; July 13.
Pikul, Joseph H., West Newton, Mass. Buttonhole sewing machine. 2,324,235; July 13.
Pinson, James L., Cairo, Ga. Poultry fountain. 2,324,020; July 13.
Pirson, Sylvain J. G., State College, Pa., assignor to Geochemical Service Corporation. Geochemical prospection of hydrocarbon deposits. 2,324,107; July 13.
Plexico, Robert S., Royal Oak, assignor to General Motors Corporation, Detroit, Mich. Snubber for engine mountings. 2,324,021; July 13.
Pollack, Maurice D. (See Schalet, J. P., and Pollack.)
Pollock, Paul, Brooklyn, N. Y. Battery protection and indicating system. 2,324,424; July 13.
Popp, Rudolf, and M. C. Carlson, assignors to McGill Manufacturing Company, Valparaiso, Ind. Electric switch. 2,324,459; July 13.
Porcelain Enamel & Manufacturing Company, The. (See Knudsen, Frederick K., assignor.)
Porcelain Products, Inc. (See Barnitz, Richard W., assignor.)
Porter, Gilbert E., Mt. Clemens, Mich. Bellows. 2,324,173; July 13.
Potdevin Machine Company. (See Burroughs, Edwin E., assignor.)
Potts, Louis M., Evanston, assignor to Teletype Corporation, Chicago, Ill. Telegraph printer. 2,323,932; July 13.
Poupitch, Ougljesa, J., assignor to Illinois Tool Works, Chicago, Ill. Fastening device. 2,324,268; July 13.
Poupitch, Ougljesa J., assignor to Illinois Tool Works, Chicago, Ill. Fastening device. 2,324,269; July 13.
Powell, Edward R. (See Dobak, N., and Powell.)
Powers Accounting Machines Limited. (See Thomas, A., and Holden, assignors.)
Powis, Leslie H. (See Rintamaki, G. M., and Powis.)
Prausé, Robert H., Jr., Astoria, Oreg. Aerial device. 2,324,022; July 13.
Preble, Edwin N., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Machine for shaping shoe parts. 2,323,933; July 13.
Price, Nathan C., assignor, by mesne assignments, to Boeing Aircraft Company, Seattle, Wash. Blower automatic throttle. 2,324,236; July 13.
Prochazka, Joseph. (See Gladfelter, W. I., and Prochazka.)
Pyk, Sven C., Ludvika, assignor to Allmänna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Auto valve arrester. 2,324,108; July 13.
Radio Corporation of America. (See Artzt, Maurice, assignor.)
Radio Corporation of America. (See Clark, Robert W., assignor.)
Radio Corporation of America. (See Crosby, Murray G., assignor.)
Radio Corporation of America. (See Flory, L. E., and Vance, assignor.)
Radio Corporation of America. (See Goodale, E. D., and Hathaway.)
Radio Corporation of America. (See Kellogg, Edward W., assignor.)
Radio Corporation of America. (See McLaughlin, Kenneth M., assignor.)
Radio Corporation of America. (See Smith, Newell R., assignor.)
Radio Corporation of America. (See Smith, Perry C., assignor.)
Rail Company, The. (See Lowe, Paul E., assignor.)
Rappl, Anton, Buffalo, E. C. Horton, Hamburg, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y. Pump. 2,324,023; July 13.
Rasmussen, James W., Los Angeles, Calif. Sand blasting machine, equipment, and the like. 2,324,425; July 13.
Rawlings Manufacturing Company. (See Latina, Harry B., assignor.)
Ray Oil Burner Co. (See Taper, O. C., and Frost, assignors.)
Ray, William A., Glendale, Calif. Electromagnetic device. 2,324,109; July 13.
Read, Charles E. (See Boor, A., and Read.)
Real Silk Hosiery Mills, Inc. (See Desmonds, Albert X., assignor.)
Ream, John H., assignor to The Brush Development Company, Cleveland, Ohio. Piezoelectric unit. 2,324,024; July 13.
Reed Roller Bit Company. (See Hoffoss, John E., assignor.)
Reenstierna, Gustaf L., assignor of one-half to Remo Aiazzone, Union City, N. J. Can opener. 2,324,110; July 13.
Reese, Donald J., Elizabeth, N. J., and R. A. Flinn, Jr., Cambridge, Mass., assignors to The International Nickel Company, Inc., New York, N. Y. High quality cast iron. 2,324,322; July 13.
Reese, Lewis P. (See Miller, W. J., Reese, and Cronin-ger.)
Reichel, John, Wynnewood, Pa. Container. 2,324,237; July 13.
Reising, Eugene G., Hartford, Conn. Loading mechanism for firearms. 2,324,238; July 13.
Revell, John H., Alhambra, Calif. Dental tool grinder. 2,324,025; July 13.
Reynolds, Irenius C., Oak Grove, La. Pipe coupling cutter. 2,324,323; July 13.
Richards, William H., Dayton, Ohio. Film dryer. 2,323,934; July 13.
Richardson, Henry K. (See Gustin, D. S., and Richardson.)
Riemenschneider, Edmund W., assignor to The Union Metal Manufacturing Company, Canton, Ohio. Tube corrugating apparatus. 2,324,026; July 13.
Rimington, Elton H., Beverly, Mass. Ophthalmic mounting. 2,324,273; July 13.
Rintamaki, George M., Newberry, and L. H. Powis, Lansing, Mich. Snowshoe sandal. 2,323,935; July 13.
Roberts, Dudley, assignor to Rubatex Products, Inc., New York, N. Y. Insulating construction element. 2,323,936; July 13.
Roberts, Elliott J. (See Kelley, E. M., Kivari, Kite, Roberts, and Sutherland.)
Robichaud, Gustave, Glens Falls, N. Y. Snath. 2,324,239; July 13.
Robie, Norman P., Lewiston, assignor to The Carborundum Company, Niagara Falls, N. Y. Abrasive product. 2,324,426; July 13.
Robie, Norman P., Lewiston, assignor to The Carborundum Company, Niagara Falls, N. Y. Abrasive product. 2,324,427; July 13.
Rodgers, Arthur L., Seagraves, assignor of one-half to Two States Drilling Company, Dallas, Tex. Weight indicator. 2,324,174; July 13.
Roessner, William L., La Grange, assignor, by mesne assignments, to Adele de Berrie Heck, Elmhurst, Ill. Automatically releasable retaining device. 2,324,428; July 13.
Rogers Imports Inc. (See Nash, Ben, assignor.)
Rolyan Corporation. (See Eklund, Howard J., assignor.)
Rondelli, Attilio, Avoca, Pa. Fishing pole. 2,324,429; July 13.
Rosaire, Esme E. (See Horvitz, L., and Rosaire.)

Rosenberg, George, and L. Spiselman, New York, N. Y. Picture frame easel. 2,324,027; July 13.
Ross, Adrian E., Stamford, Conn., assignor to Electrolux Corporation, Dover, Del. Suction nozzle with automatically retractable surface-contacting element. 2,324,111; July 13.
Rossi, Harry J., Bronx, assignor to Fibre Cord Company, division of Kary-Safe Co., Inc., New York, N. Y. Strip dispensing carton. 2,324,028; July 13.
Rothschmitt, Anton. (See Nadeau, R., and Rothschmitt.)
Roto Company, The. (See Anderson, R. G., and Jacobson, assignors.)
Rubatex Products, Inc. (See Roberts, Dudley, assignor.)
Rupp, Walter H., Elizabeth, and K. E. Thorp, Union, N. J., assignors to Standard Oil Development Company. Refining process. 2,324,112; July 13.
Russell, Emory S., Auburn, N. Y. Slide calculator. 2,323,937; July 13.
Rust, Frederick F. (See Vaughan, W. E., and Rust.)
Rutledge, Frank I., Pittsburgh, Pa. Casting reel. 2,324,324; July 13.
St. Louis, Charles V., assignor to Wilson-Jones Company, Chicago, Ill. Loose leaf binder. 2,324,244; July 13.
St. Pierre, Eugene. (See Hutton, A. L., Jr., Green, and St. Pierre.)
Salo, Paul W. (See Carlson, W. A., and Salo.)
Sando, Joseph B., Kansas City, Mo., assignor to Western Laundry Machinery Company. Heating means for ironers. 2,324,029; July 13.
Sauer, John C., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Product and synthesis thereof. 2,323,938; July 13.
Schaafsma, Albert, Amsterdam, Netherlands, assignor to Shell Development Company, San Francisco, Calif. Process for dehydration. 2,324,240; July 13.
Schaffer, Fred B. (See Bird, James P., and Schaffer.)
Schalet, Joseph P., Bronx, and M. D. Pollack, Brooklyn, N. Y. Dual purpose buckle. 2,324,430; July 13.
Schalet, Joseph P., Bronx, and M. D. Pollack, Brooklyn, N. Y. Button. 2,324,431; July 13.
Schantz, Jacob M., assignor to Hercules Powder Company, Wilmington, Del. Coating composition and production. 2,324,432; July 13.
Scheetz, Henry F., Jr., Pittsburgh, Pa. Multicolor decoration of vitreous objects. 2,324,433; July 13.
Scheidorf, Marvel W. (See Leeds, L. M., and Scheidorf.)
Schelling, John C., R. H. Hunter, and E. J. Housekeeper, Wooster, and F. V. Calhoun, Millersburg, assignors to The Wooster Brass Company, Wooster, Ohio. Hose coupling attaching apparatus. 2,324,030; July 13.
Schering Corporation. (See Inhoffen, H. H., Hohlweg, and Logemann, assignors.)
Schiffenhaus Bros. (See Schiffenhaus, Joseph W., assignor.)
Schiffenhaus, Joseph W., assignor to Schiffenhaus Bros., Newark, N. J. Corner protector. 2,324,031; July 13.
Schlabach, Raymond M., Canton, Ohio. Container. 2,324,032; July 13.
Schläpfer, Hans. (See Bindler, J., and Schläpfer.)
Schlesman, Carleton H., Camden, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Comparative spectral analysis. 2,324,270; July 13.
Schmitt, Otto A., Syracuse, assignor to Continental Can Company, Inc., New York, N. Y. Can end closure attaching machine. 2,323,939; July 13.
Schoeninger, Adolf O., Irvington, N. J., assignor to Forstner Chain Corporation. Basket weave bracelet. 2,324,241; July 13.
School of Design. (See Niedringhaus, Charles W., assignor.)
Schopmeyer, Herman H., Hammond, Ind., and W. A. Mollison, Chicago, Ill., assignors to American Maize-Products Company. Making dextrose. 2,324,113; July 13.
Schuh, Charles H., Ridgewood, assignor, by mesne assignments, to Carbide and Carbon Chemicals Corporation, New York, N. Y. Surfaced cement fiber product. 2,324,325; July 13.
Schultz, William O., South Milwaukee, and A. G. Steinmayer, Milwaukee, assignors to Line Material Company, South Milwaukee, Wis. Fuse. 2,324,114; July 13.
Schultz, William O., assignor to Line Material Company, South Milwaukee, Wis. Making cores for transformers or the like. 2,324,115; July 13.
Schweitzer & Conrad, Inc. (See Triplett, H. A., and Lindell, assignors.)
Schweitzer & Conrad, Inc. (See Van Ryan, Anthony, assignor.)
Schwendt, Bernard J., Fort Thomas, Ky. Sectionalized concrete house. 2,324,326; July 13.
Scofield, Philip F. (See Heintz, R. M., and Scofield.)
Sears, Roebuck and Co. (See Dempsey, Lawrence E., assignor.)
Seeck, Ferdinand W., Lebanon, Oreg. Machine for cutting gear teeth. 2,324,242; July 13.
Seeger Refrigerator Company. (See Swedman, Enoch, assignor.)
Seiberling Latex Products Company. (See Casey, T. W., and Sidnell, assignors.)
Sensel, Eugene E. (See Goldsby, A. R., and Sensel.)
Serog, Leopold S., Woodside, Long Island, N. Y. Impact detonator. 2,324,243; July 13.
Shaffer, Paul B., Fort Wayne, Ind., assignor to General Electric Company. Dynamoelectric machine brush rigging. 2,324,327; July 13.
Sharp & Dohme, Incorporated. (See Moore, Maurice L., assignor.)
Shawinigan Chemicals Limited. (See Kennedy, D. J., and Barker, assignors.)
Sheldon, Lyle M. (See Olsen, F., Feldman, and Sheldon.)
Shell Development Company. (See Schaafsma, Albert, assignor.)
Shell Development Company. (See Vaughan, W. E., and Rust, assignors.)
Sheller Manufacturing Corporation. (See Smith, Elmer, assignor.)
Shelley, Harris C. (See Shelley, John G., assignor.)
Shelley, John G., Wellesley, assignor to H. C. Shelley, Needham, Mass. Boll. 2,324,050; July 13.
Sheppard, Richard H., Hanover, Pa. Combustion chamber. 2,324,328; July 13.
Shoffner, John R., Kittanning, Pa. Motor driven cable reel. 2,324,329; July 13.
Shore, William E., West New Brighton, Staten Island, N. Y. Refrigerant compressor. 2,324,434; July 13.
Shott Manufacturing Company, The, et al. (See Woelfer, Frank C., assignor.)
Sidnell, Albert E. (See Casey, T. W., and Sidnell.)
Simmons, Edward E. (See Walker, C. P., and Simmons.)
Simmons, Leon E., Claremont, N. H., assignor to Sullivan Machinery Company. Kerf cutting apparatus. 2,324,033; July 13.
Simms, Eldon E., Towson, assignor to The Glenn L. Martin Company, Middle River, Md. Nonlosable nut. 2,324,175; July 13.
Simms Motor Units Limited. (See Moran, Martin C., assignor.)
Singer Manufacturing Company, The. (See Collins, William M., assignor.)
Singer Manufacturing Company. (See Myers, Walter, assignor.)
Sivertsen, Gudmund, Brooklyn, N. Y. Rotary oil pump. 2,324,116; July 13.
Skene, Andrew A., Glen Ridge, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Air-cooled power amplifier. 2,324,034; July 13.
Sloan, Arthur W., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Vulcanization of rubber. 2,323,940; July 13.
Smidth, F. L., & Co. (See Peterson, Louis S., assignor.)
Smith, Chester W., Lynn, Mass., assignor to General Electric Company. Centrifugal compressor. 2,323,941; July 13.
Smith, Elmer, assignor to Sheller Manufacturing Corporation, Portland, Ind. Rod threading device. 2,324,176; July 13.
Smith, Frank M., Dearborn, Mich., assignor, by mesne assignments, to Consolidated Aircraft Corporation, San Diego, Calif. Making flanged elements. 2,324,435; July 13.
Smith, Homer F., Chicago, Ill., assignor by United Shoe Machinery Corporation, Flemington, N. J. Machine for operating upon shoes. 2,323,942; July 13.
Smith, Newell R., Bloomfield, N. J., assignor to Radio Corporation of America. Cathode sleeve. 2,324,177; July 13.
Smith, Perry C., Brookline, Mass., assignor to Radio Corporation of America. Fire control apparatus. 2,324,330; July 13.
Smith, S., & Sons (Motor Accessories) Limited. (See Meredith, Frederick W., assignor.)
Smith, Skardon T., Detroit, Mich. Multiple bar shaft coupling. 2,323,943; July 13.
Smith, William L., Jr., Pawtucket, assignor to Hemphill Company, Central Falls, R. I. Selvage for knitted fabrics. 2,324,035; July 13.
Smith, William L., Jr., Pawtucket, assignor to Hemphill Company, Central Falls, R. I. Knitted fabric and method. 2,324,036; July 13.
Smoot, John H. (See Meyerhoefer, C. E., Ballard, and Smoot.)
Snoek, Jacob L., Eindhoven, Netherlands; vested in the Alien Property Custodian. Manufacturing magnetic materials. 2,323,944; July 13.
Snyder, Donald J., Chicago, Ill., assignor to General Mills, Inc. Packing and display case. 2,324,436; July 13.
Snyder, Jacob R. (See Chidester, William H., assignor.)
Snyder, Jacob R. (See Chidester, W. H., and Snyder.)
Socin, Francis C., St. Charles, assignor to The Rudolph Wurlitzer Company, Chicago, Ill. Piano action. 2,324,037; July 13.
Socony-Vacuum Oil Company, Incorporated. (See Bertness, T. A., Johnston, and Newton, assignors.)
Socony-Vacuum Oil Company. (See Schlesman, Carleton H., assignor.)
Solvay Process Company, The. (See Datin, R. C., and Bardwell, assignors.)
Soren Corporation, The. (See Sorensen, Edward M., assignor.)
Sorensen, Edward M., assignor to The Soren Corporation, Dayton, Ohio. Remote control apparatus. 2,324,331; July 13.
Soukup, Roy, Richmond, Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Yarn production. 2,324,437; July 13.

Sparks-Withington Company, The. (See Patterson, William N., assignor.)
Sperry Gyroscope Company. (See Carter, Leslie F., assignor.)
Spiselman, Louis. (See Rosenberg, G., and Spiselman.)
Sprague, Robert C., Williamstown, and F. W. Godsey, Jr., assignors to Sprague Specialties Co., North Adams, Mass. Electrical condenser. 2,324,178; July 13.
Sprague Specialties Co. (See Sprague, R. C., and Godsey, assignors.)
Srob, Michael, Los Angeles, Calif. Mixing machine. 2,324,179; July 13.
Stanco, Incorporated. (See Bahelka, Joseph, assignor.)
Standard Alcohol Company. (See Archibald, Francis M., assignor.)
Standard-Knapp Corporation. (See Kimball, Wallace D., assignor.)
Standard Oil Company, et al. (See Layng, E. T., and Marschner, assignors.)
Standard Oil Company. (See Parkhurst, George L., assignor.)
Standard Oil Development Company. (See Connolly, Gerald C., assignor.)
Standard Oil Development Company. (See Gayler, P. J., and Mahler, assignors.)
Standard Oil Development Company. (See Mason, Ralph B., assignor.)
Standard Oil Development Company. (See Rupp, W. H., and Thorp, assignors.)
Standard Oil Development Company. (See Sweeney, William J., assignor.)
Standard Oil Development Company. (See Williams, Milton, assignor.)
Stayton, Robert D. (See Stoner, H. B., and Stayton.)
Steckling, Charles, Jr. (See Meyer, G. J., Steckling, and Classen.)
Steele, Virgil V., Los Angeles, Calif. Movable shade. 2,324,038; July 13.
Steinmayer, Alwin G. (See Schultz, W. O., and Steinmayer.)
Sterling Engine Company. (See Larkin, Elwood T., assignor.)
Stevens, Clarence E. (See Lofgren, G. E., and Stevens.)
Stevens, William C. (See Hodgson, H. E., Kuhn, and Stevens.)
Stoddard, Edgar S., Berwyn, assignor to Edison General Electric Appliance Company, Inc., Chicago, Ill. Sealing means. 2,324,332; July 13.
Stoddard, Edgar S., Berwyn, assignor to Edison General Electric Appliance Company, Inc., Chicago, Ill. Cover sealing means. 2,324,333; July 13.
Stoiber, Joseph. (See Tuttle, F. E., and Stoiber.)
Stone, Charles W., Mooresville, Ind. Prefabricated construction unit. 2,324,039; July 13.
Stoner, Harry B., and R. D. Stayton, assignors to Stoner Manufacturing Corporation, Aurora, Ill. Vending machine. 2,324,040; July 13.
Stoner Manufacturing Corporation. (See Stoner, H. B., and Stayton, assignors.)
Stoner-Mudge, Inc. (See Gray, D. M., and de Beers, assignors.)
Strauss, Alfred, and L. S. Tucker, Chicago, Ill., assignors to A. F. Dormeyer Mfg. Co. Motor. 2,323,945; July 13.
Strong, Walter J., Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Apparatus for buffing tires. 2,324,117; July 13.
Sullivan Machinery Company. (See Simmons, Leon E., assignor.)
Sulzer, Frères, Société Anonyme. (See Lieberherr, Hans, assignor.)
Sun Oil Company. (See Brunn, J. H., and Goheen, assignors.)
Sutherland, David B. (See Kelly, E. M., Kivari, Kite, Roberts, and Sutherland.)
Sutton, John B., Pittsburgh, Pa. Round straightener. 2,323,946; July 13.
Sutton, John C., assignor to The Brearley Company, Rockford, Ill. Personal height gauge. 2,324,334; July 13.
Suverkrop, Lew, Bakersfield, Calif. Geometrical instrument. 2,324,041; July 13.
Swedman, Enoch, assignor to Seeger Refrigerator Company, St. Paul, Minn. Refrigerator spacer construction. 2,324,245; July 13.
Sweeney, William J., Elizabeth, N. J., assignor to Standard Oil Development Company. High antiknock motor fuel. 2,324,118; July 13.
Swenson, Carl E., Rockford, Ill. Conveyer apparatus. 2,324,042; July 13.
Swentzel, John P., assignor to The Carborundum Company, Niagara Falls, N. Y. Bonded silicon carbide refractory. 2,324,119; July 13.
Sylvania Electric Products Inc. (See Keim, C. P., and Vasalle, assignors.)
Taper, Oscar C., and J. G. Frost, Seattle, Wash., assignors to Ray Oil Burner Co., San Francisco, Calif. Control device for burner nozzles. 2,324,120; July 13.
Taylor, Edward H., Chicago, Ill. Pipe joint. 2,324,335; July 13.
Teletype Corporation. (See Lake, Ross A., assignor.)
Teletype Corporation. (See Potts, Louis M., assignor.)
Teletype Corporation. (See Vosburgh, Alan E., assignor.)
Teletype Corporation. (See Zenner, Walter J., assignor.)
Tennant, G. H., Company. (See Anderson, Wilford A., assignor.)
Texas Company, The. (See Goldsby, A. R., and Sensel, assignor.)
Thomas, Arthur, Wallington, and N. G. Holden, Carshalton, assignors to Powers Accounting Machines Limited, London, England. Statistical machine. 2,324,438; July 13.
Thommen, George S., New York, N. Y. Golf bag support. 2,324,439; July 13.
Thompson, Albert R., Los Gatos, Calif., and E. G. Bauer, Hoopeston, Ill., assignors to Food Machinery Corporation, San Jose, Calif. Can aligner. 2,324,246; July 13.
Thompson, George A., Dravosburg, Pa. Indicating apparatus. 2,324,336; July 13.
Thorp, Kenneth E. (See Rupp, W. H., and Thorp.)
Titanium Alloy Manufacturing Company, The. (See Wainer, Eugene, assignor.)
Tjomsland, Eli H., Ridgefield Park, N. J. Massaging appliance. 2,324,337; July 13.
Tolley, Donald B., Macomb, Ill., assignor to Globe American Corporation, Kokomo, Ind. Ventilator device for poultry houses. 2,324,043; July 13.
Tormohlen, Blanche M., Chicago, Ill. Waste container. 2,324,440; July 13.
Transparent Cover Company. (See Frost, Bernard J., assignor.)
Trico Products Corporation. (See Rappl, A., and Horton, assignors.)
Triplett, Hugh A., Wilmette, and S. I. Lindell, assignors to Schweitzer & Conrad, Inc., Chicago, Ill. Fuse cutout. 2,324,044; July 13.
Tripp, Newell R., Joplin, Mo. Pouring can. 2,324,338; July 13.
Tropic-Aire Incorporated. (See Will, C. H., and Monroe, assignors.)
Trosch, Alfred, Brighton, assignor to Consolidated Machine Tool Corporation, Rochester, N. Y. Boring mill. 2,324,180; July 13.
Trussell, Clarence D., assignor to Trussell Manufacturing Company, Poughkeepsie, N. Y. Ring binder. 2,324,460; July 13.
Trussell Manufacturing Company. (See Trussell, Clarence D., assignor.)
Tucker, Lee S. (See Strauss, A., and Tucker.)
Tullen, Ture S., Beverly Hills, Calif., assignor to Johns-Manville Corporation, New York, N. Y. Pipe covering. 2,324,181; July 13.
Tuttle, Fordyce E., and J. Stoiber, assignors to Eastman Kodak Company, Rochester, N. Y. Photographic printing apparatus. 2,324,121; July 13.
Two States Drilling Company. (See Rodgers, Arthur L., assignor.)
Ullman, Henry K., Washington, D. C. Portable table. 2,324,247; July 13.
Underwood, James W. (See D'Alelio, G. F., and Underwood.)
Union Metal Manufacturing Company, The. (See Riemenschneider, Edmund W., assignor.)
Union Switch & Signal Company, The. (See Bossart, Paul N., assignor.)
Union Switch & Signal Company, The. (See Dodd, Arthur E., assignor.)
United Aircraft Corporation. (See Hersey, Donald S., assignor.)
United Biscuit Company of America. (See Edmondson, William H., assignor.)
United Shoe Machinery Corporation. (See Brostrom, Charles G., assignor.)
United Shoe Machinery Corporation. (See Campbell, Rouel R., assignor.)
United Shoe Machinery Corporation. (See Preble, Edwin N., assignor.)
United Shoe Machinery Corporation. (See Smith, Homer F., assignor.)
U. S. Pegwood & Shank Company. (See Lewis, John, assignor.)
United States Rubber Company. (See Armstrong, R. T., and Hart, assignors.)
United States Rubber Company. (See Barton, Bernard C., assignor.)
United States Rubber Company. (See Chittum, J. P., and Hulse, assignors.)
Universal Oil Products Company. (See Day, R. B., and Kanhofer, assignors.)
University of Minnesota, Regents of the. (See Ofstie, Edwin H., assignor.)
Vallinos, Nicholas, New York, N. Y. Airplane with self-opening parachute. 2,324,045; July 13.
Van Brocklin, Charles S., Portsmouth, N. H. Dispensing device. 2,324,441; July 13.
Vanbussum, Sheen M., Henderson, Ky. Home for wild life. 2,324,339; July 13.
Vance, Arthur W. (See Flory, L. E., and Vance.)
Van der Werff, Jacob B., Pasadena, Calif., assignor to Adel Precision Products Corp. Adjustable hydraulic control valve. 2,323,947; July 13.
Van Doren, Harold, and D. E. Dailey, Toledo, Ohio, assignors to Burch Manufacturing Company, Jackson County, Mo. Popcorn machine. 2,324,046; July 13.
Van Horn, Oertel F., New York, and J. D. Whittaker, Babylon, assignors to Automatic Appliance Corporation, New York, N. Y. Firearm. 2,324,125; July 13.

Van Ryan, Anthony, assignor to Schweitzer & Conrad, Inc., Chicago, Ill. Switch construction. 2,324,047; July 13.
Vasalle, Bronald J. (See Keim, C. P., and Vasalle.)
Vaughan, William E., and F. F. Rust, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Catalytic halo-substitution of saturated organic compounds. 2,324,248; July 13.
Vaughan, William E., and F. F. Rust, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Halo-substitution of saturated organic compounds. 2,324,249; July 13.
Voerge, John N., Westmont, Quebec, Canada. Sand blasting. 2,324,250; July 13.
Vogt, Clarence W. (See Hohl, J., Bjering, Lakso, and Vogt.)
Vokes, Cecil G. (See Blanchard, Joseph G., assignor.)
Von Bramer, Harold, L. G. Davy, and M. L. Clemens, Jr., Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y. Preparing phenylenediamine derivatives. 2,323,948; July 13.
Von Schneeweiss, Peter R., and H. F. Klaholz, Cleveland, Ohio. Resilient wheel. 2,324,251; July 13.
Vosburg, Alan E., assignor to Teletype Corporation, Chicago, Ill. Making dies. 2,323,949; July 13.
Wachsman, Michael, Brooklyn, N. Y. Electric ring for rotary knitting machines. 2,324,442; July 13.
Wade, John B., Los Angeles, Calif. Proportional feeder. 2,323,950; July 13.
Wagner Electric Corporation. (See Milster, Arthur N., assignor.)
Wainer, Eugene, Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Refractory composition. 2,323,951; July 13.
Walker, Cranford P., San Marino, and E. E. Simmons, Pasadena, Calif., said Simmons assignor to said Walker. Detector for pressure wave translation systems. 2,324,340; July 13.
Waller, Lee R., Montreal, Quebec, Canada, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. 2,324,341; July 13.
Walter, Charles T., assignor to Industrial Patents Corporation, Chicago, Ill. Filling and closing machine. 2,324,443; July 13.
Wappler, Frederick C., New York, N. Y. Optical instrument. 2,324,444; July 13.
Waterman, Bertha E., Indianapolis, Ind. Fence wire clamp. 2,324,445; July 13.
Waters, Harry F., New York, N. Y. Container for bakery products. 2,324,048; July 13.
Webb, Walter B., New Gloucester, Maine. Hand bean picker. 2,324,446; July 13.
Weedon, Charles B., Detroit, Mich. Window construction. 2,324,447; July 13.
Wehrli, Gottlieb, New York, N. Y. Method and product for producing a cleansing and preserving coating on fruits and vegetables. 2,324,448; July 13.
Weiskopf, Edwin C., New York, N. Y. Automatic immersion apparatus. 2,324,122; July 13.
Weissberger, Arnold, assignor to Eastman Kodak Company, Rochester, N. Y. Fog inhibitor for photographic developers. 2,324,123; July 13.
Wellman Bronze and Aluminum Company, The. (See Wellman, Holley G., assignor.)
Wellman, Holley G., East Cleveland, assignor to The Wellman Bronze and Aluminum Company, Cleveland, Ohio. Anode. 2,324,342; July 13.
Wenzel, Fred J. (See Dodegge, Carl, assignor.)
Westerlund, Einar J., Warren, Ohio, assignor to General Electric Company. Method and apparatus for ascertaining the focus of reflectors. 2,324,449; July 13.
Western Cartridge Company. (See Williams, David M., assignor.)
Western Electric Company. (See Marble, Frank G., assignor.)
Western Electric Company. (See Waller, Lee R., assignor.)
Western Laundry Machinery Company. (See Sando, Joseph B., assignor.)
Westinghouse Electric & Manufacturing Company. (See Bock, Ashley P., assignor.)
Westinghouse Electric & Manufacturing Company. (See Dailey, Hampton J., assignor.)
Westinghouse Electric & Manufacturing Company. (See Gustin, D. S., and Richardson, assignors.)
Westinghouse Electric & Manufacturing Company. (See McCloy, Graham S., assignor.)
Weston Electrical Instrument Corporation. (See Lamb, Anthony H., assignor.)
Wharton, Russell F., Rockford, Ill. Advertising or display device. 2,324,343; July 13.
Whittaker, John D. (See Van Horn, O. F., and Whittaker.)
Wick, Richard M., Allentown, Pa. Plating cradle. 2,323,952; July 13.
Wildhaber, Ernest, Brighton, assignor to Gleason Works, Rochester, N. Y. Producing gears. 2,324,182; July 13.
Wiley, Edward T., Auburn, N. Y. Portable fire escape. 2,323,883; July 13.
Will, Carl H., Winnetka, and B. F. Monroe, assignors to Tropic-Aire, Incorporated, Chicago, Ill. Ash handling device. 2,323,884; July 13.
Williams, Beverly E., and L. L. Cadwell, assignors to Industrial Patents Corporation, Chicago, Ill. Meat treatment. 2,323,953; July 13.
Williams, David M., assignor to Western Cartridge Company, New Haven, Conn. Front-band construction for firearms. 2,323,954; July 13.
Williams, George W. (See Ames, Robert G., assignor.)
Williams, Milton, Houston, Tex., assignor to Standard Oil Development Company. Water-soluble beryllium-phosphate glass. 2,324,124; July 13.
Wills, Walter P., assignor to The Brown Instrument Company, Philadelphia, Pa. Measuring and control apparatus. 2,323,885; July 13.
Wilson, Earl R., Montgomery, Ala., assignor of thirty-five one-hundredths to Luther L. Jones. Prisoner's harness. 2,324,183; July 13.
Wilson, Ernest E., assignor to General Motors Corp., Detroit, Mich. Resonance unit. 2,323,955; July 13.
Wilson-Jones Company. (See St. Louis, Charles V., assignor.)
Winslow, Samuel J., Taunton, Mass. Mirror. 2,324,049; July 13.
Wintringham, Andrews C., Glen Rridge, and V. L. King, Bound Brook, N. J., assignors to American Cyanamid Company, New York, N. Y. Melamine purification. 2,324,450; July 13.
Wirz, Herman, Jr., Los Angeles, Calif. Manhole cover. 2,323,886; July 13.
Wochner, Henry, Rock Island, Ill. Brake testing machine for motor vehicles. 2,323,887; July 13.
Woelfer, Frank C., assignor to The Cincinnati Ball Crank Company, and The Shott Manufacturing Company, Cincinnati, Ohio. Metal table. 2,324,252; July 13.
Wood Conversion Company. (See Anway, Herman W., assignor.)
Wood, Joseph D., Bethlehem, assignor, by mesne assignments, to The Pennsylvania Company for Insurances on Lives and Granting Annuities, Philadelphia, Pa. Current protective means. 2,324,451; July 13.
Woodings, Robert T., Oakmont, assignor to Woodings-Verona Tool Works, Verona, Pa. Two-way creep check. 2,324,452; July 13.
Woodings-Verona Tool Works. (See Woodings, Robert T., assignor.)
Woodworth, John L., Schenectady, N. Y., assignor to General Electric Company. Carrier current apparatus. 2,324,344; July 13.
Wooster Brass Company, The. (See Schelling, J. C., Hunter, Housekeeper, and Calhoun, assignors.)
Wright, Harold B., assignor to Fisher Governor Company, Marshalltown, Iowa. Pressure regulator. 2,323,888; July 13.
Wurlitzer, Rudolph, Company, The. (See Socin, Francis C., assignor.)
Wyman, Floyd H., Toccoa, Ga., assignor to R. G. Le Tourneau, Inc. Shell casing supporting and protector ring. 2,324,184; July 13.
Yerian, Carlos S., Schenectady, N. Y., assignor to General Electric Company. Oscillation generator. 2,323,956; July 13.
Young, Charles D., Haverford, and F. W. Hankins, Philadelphia, Pa. Steam boiler. 2,324,345; July 13.
Young Radiator Company. (See Hilt, John J., assignor.)
Zalkind, Philip, New York, N. Y. Container-wall connection and track. 2,323,957; July 13.
Zenner, Walter J., Des Plaines, assignor to Teletype Corporation, Chicago, Ill. Tape transmitter distributor. 2,323,958; July 13.
Zenner, Walter J., Des Plaines, assignor to Teletype Corporation, Chicago, Ill. Printing telegraph apparatus. 2,323,959; July 13.
Zeno, Benigno, New York, N. Y. Combined cigarette lighter, flashlight, and writing implement. 2,323,960; July 13.
Zezula, George F., Commerce, Mich. Stock pusher. 2,323,889; July 13.
Zimets Bed Spring Corporation. (See Hampton, Fred, assignor.)
Zuna, Frank A., assignor, to Bell Telephone Laboratories, Incorporated, New York, N. Y. Relay armature. 2,323,961; July 13.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 13TH DAY OF JULY, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Booster for hydraulic braking systems. B. Stelzer. Re. 22,349; July 13.
Booster, Hydraulic brake. B. Stelzer. Re. 22,348; July 13.
Carburizing. E. F. Davis. Re. 22,346; July 13.
Ethers of polyhydric alcohols, Secondary. T. W. Evans and E. F. Bullard. Re. 22,347; July 13.
Subterranean deposits, Locating valuable. L. W. Blau. Re. 22,345; July 13.

LIST OF PLANT INVENTIONS

Plant, Rose. C. Mallerin. 594; July 13.
Plant, Rose. C. Mallerin. 595; July 13.
Plant, Rose. C. Mallerin. 596; July 13.

LIST OF DESIGN INVENTIONS

Airplane. E. R. Floren. 135,994–5; July 13.
Appliqué or the like. V. F. Hubert. 135,986; July 13.
Bottle. S. D. Schneier. 135,998; July 13.
Boutonniere and perfume container, Combined. P. de Pontrex. 136,001; July 13.
Box, Cigarette. H. L. Gillmor. 135,965; July 13.
Brooch or similar article, Locket. J. M. de Aragon. 135,964; July 13.
Brooch or similar article. A. Katz. 135,969; July 13.
Brooch, Separable. A. Katz. 135,970; July 13.
Brooch or similar article. A. Katz. 135,971–3; July 13.
Brooch or similar article. R. M. Reed. 135,978; July 13.
Cap. M. Gross. 135,996; July 13.
Cap for containers, Fibrous. G. N. Mas. 135,997; July 13.
Cap for containers, Fibrous. G. N. Mas. 136,002; July 13.
Casing, Valve. C. M. Sears. 135,988; July 13.
Cleaner casing or the like, Suction. R. E. Kruck. 135,974; July 13.
Container for flame coloring material. F. J. De Coursey. 135,999; July 13.
Fabric or similar article, Liturgical. A. Baumgartner. 135,956–7; July 13.
Handbag. E. Gresh. 135,990; July 13.
Handbag, Crocheted lady's. L. K. Rotkel. 135,983; July 13.
Holder, Mop swab. M. Moskowitz. 135,976; July 13.
Holder, Napkin. A. Gloetzner. 135,966; July 13.
Holder, Picture frame. A. Di Bari. 135,985; July 13.
Iron, Tire branding. D. C. Weyl. 135,979; July 13.
Jack, Lifting. J. J. Mueller. 135,991; July 13.
Manicure implement and nail file, Combined. S. S. Wechsler. 135,984; July 13.
Orphrey or similar article. A. Baumgartner. 135,958–9; July 13.
Perambulator body. J. R. Spurling. 135,993; July 13.
Rack, Vacuum cleaner. H. S. Morris. 135,982; July 13.
Setting for rings, Stone. J. Karlan. 135,987; July 13.
Shoe or the like. G. Codish. 135,962–3; July 13.
Skillet. L. Poglein. 135,977; July 13.
Slip. S. Wolf. 135,989; July 13.
Spectacle front. J. J. Pomeranz. 135,992; July 13.
Spoon or other article of flatware. R. E. Berg. 135,960–1; July 13.
Stocking. J. Leszczynski and R. J. Bouscher. 136,000; July 13.
Table, Barbecue. N. P. Miller. 135,975; July 13.
Trimming or similar article, Embroidered. O. Hallbauer. 135,967–8; July 13.
Wallet, cosmetic container, and change purse, Combination. R. B. Bach. 135,980; July 13.
Wallet, cosmetic container, change purse, and transparent pocket, Combination. R. B. Bach. 135,981; July 13.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 13TH DAY OF JULY, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrasive product. N. P. Robie. 2,324,426–7; July 13.
Absorption or adsorption refrigerating apparatus. N. Erland af Klenn. 2,323,902; July 13.
Acetone condensation product, Urea-aldehyde halogenated. G. F. D'Alelio. 2,323,898; July 13.
Adhesive and causing adherence therewith. C. J. Malm and G. D. Hiatt. 2,324,097; July 13.
Adjustable hydraulic control valve. J. B. Van Der Werff. 2,323,947; July 13.
Adsorbent material. H. H. Greger. 2,324,079; July 13.
Advertising or display device. R. F. Wharton. 2,324,343; July 13.
Aerial device. R. H. Prausé, Jr. 2,324,022; July 13.
Air conditioning. R. Brunel. 2,324,193; July 13.
Air conditioning apparatus. R. N. Meyerhans. 2,324,313; July 13.
Air jet gyro drift control. R. M. Heintz. 2,324,157; July 13.
Airplane antiicing construction. C. L. Johnson. 2,324,303; July 13.
Airplane with self-opening parachute. N. Vallinos. 2,324,045; July 13.
Aldehydes and bis-(diamino diazinyl) cyanoalkylene disulphides, Reaction products of. G. F. D'Alelio and J. W. Underwood. 2,324,368; July 13.
Aldehydes and bis-(diamino triazinyl) cyanoalkylene disulphides, Reaction product of. G. F. D'Alelio and J. W. Underwood. 2,324,284; July 13.
Aldehydes and diazine derivatives, Reaction product of. G. F. D'Alelio. 2,324,289–90; July 13.
Aldehydes and triazine derivatives, Reaction product of. G. F. D'Alelio. 2,324,288; July 13.
Alkylation process. R. B. Mason. 2,324,090; July 13.
Ampere-hour meter. E. E. Lynch. 2,324,307; July 13.
Amino substituents of sulphanilamide derivatives. M. L. Moore. 2,324,013; July 13.
Ammonium and amine salts of acidic organic compounds, Preparation of. R. C. Datin and D. C. Bardwell. 2,324,199; July 13.
Ammonium nitrate explosive. W. M. Cobb, Jr. 2,324,363; July 13.
Ammonium sulphate recovery process. L. Maleson. 2,324,222; July 13.
Amplifier. M. Artzt. 2,323,966; July 13.
Amplifier. R. W. Clark. 2,324,279; July 13.
Amplifier. F. G. Marble. 2,324,408; July 13.
Amplifier, Air-cooled power. A. A. Skene. 2,324,034; July 13.
Angle iron clamp. T. B. Chandler. 2,324,361; July 13.
Anion exchange reactions, Carrying out. L. Gerb. 2,323,990; July 13.
Anode. H. G. Wellman. 2,324,342; July 13.
Antenna system, High frequency. L. M. Leeds and M. W. Scheldorf. 2,324,462; July 13.
Antiskid device. F. A. Berner. 2,324,352; July 13.
Apparatus for aligning and registering forms for multicolored printing. B. I. Kaye. 2,324,399; July 13.
Apparatus for assembling of pile fabric articles. L. E. McDonough. 2,324,009; July 13.
Apparatus for buffing tires. W. J. Strong. 2,324,117; July 13.
Apparatus for conditioning metal bodies. R. Chelborg, J. H. Bucknam, and A. M. Keller. 2,323,977; July 13.
Apparatus for decorating pottery ware. W. J. Miller. 2,324,410; July 13.
Apparatus for decorating pottery ware, glass ware, and the like. W. J. Miller, L. P. Reese, and G. J. Croninger. 2,324,411; July 13.
Apparatus for drilling diamonds and like purposes. C. G. Eden. 2,324,374; July 13.
Apparatus for slitting paper. J. Frei, Jr. 2,324,380; July 13.
Apparatus for treating chemicals. W. A. Carlson and P. W. Salo. 2,324,195; July 13.
Applicator, Combined plastic and tape. R. G. Ames. 2,323,963; July 13.
Armature construction. R. M. Heintz. 2,324,158; July 13.
Armature, Relay. F. A. Zupa. 2,323,961; July 13.
Article formed from relatively thin resilient sheets. C. W. Niedringhaus. 2,324,318; July 13.
Artificial eyelash elongation. E. Adler. 2,324,271; July 13.
Ash handling device. C. H. Will and B. F. Monroe. 2,323,884; July 13.
Automatic immersion apparatus. E. C. Weiskopf. 2,324,122; July 13.
Automobile trunk lock. W. R. Lustig. 2,324,264; July 13.
Backflow preventer. J. N. Horner. 2,324,084; July 13.
Bag: *See*—
Garment bag.
Vacuum cleaner dust bag.
Bag making machine. E. E. Burroughs. 2,324,358; July 13.
Bag making machine. J. Hobl, O. Bjering, E. E. Lakso, and C. W. Vogt. 2,324,393; July 13.
Baled hay separator. E. E. Higginbotham. 2,324,159; July 13.
Band construction for firearms, Front. D. M. Williams. 2,323,954; July 13.
Base for electric scissors, Supporting. W. M. Collins. 2,324,364; July 13.
Battery, Electric storage. C. Ambruster. 2,324,185; July 13.
Battery protection and indicating system. P. Pollack. 2,324,424; July 13.
Battery terminal protective device. C. Helm. 2,324,082; July 13.
Bearing for taking axial thrusts. H. Lieberherr. 2,324,095; July 13.
Bearings, Making. L. Holmes. 2,324,083; July 13.
Beehive foundation, Wax. C. F. Muth. 2,324,227; July 13.
Bed motion for printing presses. W. M. Kelly. 2,324,001; July 13.
Bellows. G. E. Porter. 2,324,173; July 13.
Beverage making machine and process. F. R. Hoop. 2,324,395; July 13.
Blackout shield for headlamps. B. J. Davis. 2,323,978; July 13.
Blade wheel. R. J. Miller. 2,324,011; July 13.
Boiler: *See*—
Steam boiler.
Book, magazine, pamphlet, or the like. H. H. Moreton. 2,324,413; July 13.
Boring mill. A. Trosch. 2,324,180; July 13.
Bottle-cleaning machine. J. L. Herold. 2,324,210; July 13.
Bottle feeding mechanism. G. J. Meyer, C. Steckling, Jr., and J. F. Classen. 2,324,312; July 13.
Box: *See*—
Folding box.
Outlet box.
Box sealing device, Stuffing. S. Golten. 2,324,206; July 13.
Bracelet, Basket weave. A. O. Schoeninger. 2,324,241; July 13.
Brake system for six wheeled vehicles. Equalized hydraulic. E. S. MacPherson. 2,324,007; July 13.
Braking system for tractor vehicles. A. N. Milster. 2,324,412; July 13.
Brush abrading device, Wire. W. A. Anderson. 2,324,272; July 13.
Brush structure and holder. R. G. Anderson and W. T. Jacobson. 2,324,461; July 13.
Buckle, Dual purpose. J. P. Schalet and M. D. Pollack. 2,324,430; July 13.
Buffing or polishing machine. E. E. Murray. 2,324,416; July 13.
Building construction. C. W. Kraus. 2,324,218; July 13.
Button. J. P. Schalet and M. D. Pollack. 2,324,431; July 13.
Cabinet: *See*—
Work cabinet.
Cable testing device. M. F. Peters. 2,323,931; July 13.
Calculator, Slide. E. S. Russell. 2,323,937; July 13.
Can: *See*—
Pouring can.
Can aligner. A. R. Thompson and E. G. Bauer. 2,324,246; July 13.
Can closing machine. W. D. Jordan and H. N. Mondloch. 2,323,914; July 13.
Can end closure attaching machine. O. A. Schmitt. 2,323,939; July 13.
Carburetor. G. R. Ericson. 2,323,984; July 13.
Carrier current apparatus. J. L. Woodworth. 2,324,344; July 13.
Carton sealing device. J. W. Lively. 2,324,405; July 13.
Carton, Strip dispensing. R. H. Bayer. 2,323,968; July 13.
Carton, Strip dispensing. H. J. Rossi. 2,324,028; July 13.
Case: *See*—
Jewelry case.
Case sealing machine. W. D. Kimball. 2,324,401; July 13.
Cast iron, High quality. D. J. Reese and R. A. Flinn, Jr. 2,324,322; July 13.
Casting reel. F. I. Rutledge. 2,324,324; July 13.
Catalytic cracking. R. B. Day and A. R. Kanhofer. 2,323,899; July 13.
Cathode ray tube. L. E. Flory and A. W. Vance. 2,323,986; July 13.
Cathode sleeve. N. R. Smith. 2,324,177; July 13.

Cement fiber product, Surfaced. C. H. Schuh. 2,324,325; July 13.
Centrifugal compressor. C. W. Smith. 2,323,941; July 13.
Chair: *See*—
Rocking chair.
Chuck. ... K. Beckwith. 2,324,130; July 13.
Circuit: *See*—
Measuring circuit.
Clamp: *See*—
Angle iron clamp. Plate clamp.
Fence wire clamp. Rail clamp.
Cleaner: *See*—
Eraser cleaner. Vacuum cleaner.
Suction cleaner.
Cleaner and humidifier, Air. E. Gusy. 2,324,386; July 13.
Cleaning of sacks, bags, or like containers. C. L. King. 2,324,456; July 13.
Clip: *See*—
Louver pivot clip.
Clutch control mechanism. J. F. Haunty. 2,324,080; July 13.
Coating composition and production. J. M. Schantz. 2,324,432; July 13.
Coin-controlled vending machine. F. C. Du Grenier and F. B. Perri. 2,323,981; July 13.
Coloring fruit. L. Longfield-Smith. 2,324,407; July 13.
Color photography. J. Crawford. 2,324,069; July 13.
Combination switch. S. Crum. 2,324,136; July 13.
Combustion chamber. R. H. Shepperd. 2,324,328; July 13.
Compensator, Temperature. W. T. Knauth. 2,324,217; July 13.
Compressor or motor, Rotary. C. O. J. Montelius. 2,324,168; July 13.
Compressor, Refrigerant. W. E. Shore. 2,324,434; July 13.
Condenser: *See*—
Electrical condenser.
Condensing and distilling device. W. Ekert. 2,324,257; July 13.
Connector: *See*—
Electrical connector.
Container: *See*—
Display container Waste container.
Food container.
Container. N. Geertsen. 2,323,904; July 13.
Container. R. M. Schlabach. 2,324,032; July 13.
Container. J. Reichel. 2,324,237; July 13.
Container and end closure thereof. J. Haycock. 2,324,387; July 13.
Container for bakery products. H. F. Waters. 2,324,048; July 13.
Container for lunch kits. W. W. and R. C. Gonder. 2,324,381; July 13.
Container having retarding means. G. Frazer. 2,324,146; July 13.
Container-wall connection and track. P. Zalkind. 2,323,957; July 13.
Continuous structures, Production of. D. R. Hull. 2,324,397; July 13.
Control device. C. G. Kronmiller. 2,324,164; July 13.
Control device for burner nozzles. O. C. Taper and J. G. Frost. 2,324,120; July 13.
Control head packer. R. E. Fulkerson. 2,323,989; July 13.
Control means. G. I. Holmes. 2,324,161; July 13.
Control mechanism for metal working machines. E. A. Doyle, E. Meincke, and A. M. Keller. 2,323,979; July 13.
Control strip composing machine. H. D. Colman. 2,324,280; July 13.
Control system. G. J. Hughes. 2,323,997; July 13.
Control system for refrigerating apparatus. N. Erland af Kleen. 2,323,901; July 13.
Control system for internal combustion engines. E. T. Larkin. 2,324,005; July 13.
Conveyer apparatus. C. E. Swenson. 2,324,042; July 13.
Cooler: *See*—
Oil cooler.
Core taking apparatus. J. E. Hoffoss. 2,324,160; July 13.
Cores for transformers or the like, Making. W. O. Schultz. 2,324,115; July 13.
Corner protector. J. W. Schiffenhaus. 2,324,031; July 13.
Counting and control mechanism. H. P. Luhn. 2,324,221; July 13.
Coupling construction. A. F. Johnson. 2,323,912; July 13.
Cover sealing means. E. S. Stoddard. 2,324,333; July 13.
Cover structure. W. V. Brown. 2,324,356; July 13.
Coverings to steel ship decks, Securing reinforced. F. T. Boylan. 2,324,131; July 13.
Cradle. Plating. R. M. Wick. 2,323,952; July 13.
Crankshaft. J. Dusevoir. 2,324,373; July 13.
Creep check, Two-way. R. T. Woodings. 2,324,452; July 13.
Crystalline alkali metal hypochlorite-containing composition, Stable-colored. H. H. Hull. 2,324,302; July 13.
Cupping press. W. I. Gladfelter and J. Prochazka. 2,324,205; July 13.
Current protective means. J. D. Wood. 2,324,451; July 13.
Cutout, Fuse. H. A. Triplett and S. I. Lindell. 2,324,044; July 13.
Cutter: *See*—
Double helical gear cutter. Stalk cutter.
Pipe coupling cutter.
Cutting-off tool. T. A. Milutin. 2,324,316; July 13.
Dehydroaromatization. E. T. Layng and R. F. Marschner. 2,324,165; July 13.
$\Delta^{4,6}$-androstenol-17-ones-3 containing an unsaturated side-chain in 17-position and derivatives thereof, manufacture of. H. H. Inhoffen, W. Hohlweg and W. Logemann. 2,323,911; July 13.
Dental tool grinder. J. H. Revell. 2,324,025; July 13.
Derivatives of dimethylol urea, Preparation of. J. A. Murray and A. W. Kassay. 2,324,417; July 13.
Detector for pressure wave translation systems. C. P. Walker and E. E. Simmons. 2,324,340; July 13.
Determining friability. H. W. Anway. 2,324,126; July 13.
Device for forming and slicing butter and the like. C. L. Hayman and W. M. Fountain. 2,324,208; July 13.
Dextrose, Making. H. H. Schopmeyer and W. A. Mollison. 2,324,113; July 13.
Diaphragm. A. J. Fausek and I. F. Fausek. 2,323,985; July 13.
Diazine derivatives. G. F. D'Alelio. 2,324,283; July 13.
Diazine derivatives. G. F. D'Alelio. 2,324,287; July 13.
Diazine derivatives. G. F. D'Alelio and J. W. Underwood. 2,324,369; July 13.
Dies, Making. A. E. Yosburgh. 2,323,949; July 13.
Disk implement, Gang. F. W. Coffing. 2,324,064–5; July 13.
Dispenser: *See*—
Tape dispenser. Whipped cream dispenser.
Dispensing device. C. S. Van Brocklin. 2,324,441; July 13.
Display container. V. R. Pantalone. 2,324,232; July 13.
Doctor blade mechanism. W. H. Edmondson. 2,323,983; July 13.
Door: *See*—
Overhead garage door.
Double helical gear cutter. H. E. Kitchen and G. H. Hedman. 2,324,003; July 13.
Drafting machine. C. H. Little. 2,324,457; July 13.
Dress, Maternity. C. B. Deichert. 2,324,371; July 13.
Drier: *See*—
Film drier.
Drilling apparatus. F. H. Mueller and W. J. Bowan. 2,324,225; July 13.
Drilling, Directional. L. C. Miller and R. F. Bolton. 2,324,102; July 13.
Drive for valves and the like. H. E. Hodgson, C. W. Kuhn, and W. C. Stevens. 2,324,211; July 13.
Driving mechanism. P. R. Jaccard. 2,324,163; July 13.
Dynamoelectric machine. L. P. Grobel. 2,324,297; July 13.
Dynamoelectric machine. H. S. Page. 2,324,319; July 13.
Dynamoelectric machine brush rigging. P. B. Shaffer. 2,324,327; July 13.
Easel, Picture frame. G. Rosenberg and L. Spiselman. 2,324,027; July 13.
Edging for hat supports. L. Creper. 2,324,366; July 13.
Electric lamp. N. Insley. 2,324,212; July 13.
Electric ring for rotary knitting machines. M. Wachsman. 2,324,442; July 13.
Electric switch. R. Popp and M. C. Carlson. 2,324,459; July 13.
Electric traffic signal. J. M. Nelson. 2,324,419; July 13.
Electric translating circuit. S. Becker. 2,324,275; July 13.
Electrical condenser. R. C. Sprague and F. W. Godsey, Jr. 2,324,178; July 13.
Electrical connector. K. M. McLaughlin. 2,324,166; July 13.
Electrical control apparatus. A. E. Dodd. 2,324,200; July 13.
Electrical measuring instrument, High voltage. D. C. Hubbard. 2,323,996; July 13.
Electrical network apparatus. P. N. Bossart. 2,324,059; July 13.
Electrical tuning device. A. P. Bock. 2,324,189; July 13.
Electrically operated smoke producer. E. A. Callan. 2,324,359; July 13.
Electrode holder. M. A. Pelton. 2,324,320; July 13.
Electrolytic cell. D. J. Kennedy and W. E. Barker. 2,324,002; July 13.
Electromagnetic device. W. A. Ray. 2,324,109; July 13.
Electron discharge apparatus. J. B. Johnson. 2,324,089; July 13.
Electron discharge device. H. J. Dailey. 2,324,367; July 13.
Electronic switch. P. C. Michel. 2,324,314; July 13.
Electrostatic bonding apparatus. E. L. Crandell. 2,324,068; July 13.

Emergency device for hydraulic control systems. J. Mercier. 2,323,927; July 13.
Enveloping, Cigar. J. A. Neumair. 2,324,017; July 13.
Eraser cleaner. F. L. Hennefer. 2,323,908; July 13.
Escape construction for submarines. M. K. Mead. 2,324,167; July 13.
Esters, Distillation of high boiling. J. E. Jewett. 2,324,088; July 13.
Etching process. E. E. Jelley. 2,324,087; July 13.
Extraction of organic materials. J. E. Mitchell. 2,324,012; July 13.
Fastener: *See*—
Paper fastener.
Fastener. K. L. Johnson. 2,323,999; July 13.
Fastening device. O. J. Poupitch. 2,324,268–9; July 13.
Feeder: *See*—
Proportional feeder.
Fence wire clamp. B. E. Waterman. 2,324,445; July 13.
Fiberboard and the like, Drying. J. F. Kiernan. 2,323,918; July 13.
File, Paper. J. A. Johnson. 2,324,260; July 13.
Filling and closing machine. C. T. Walter. 2,324,443; July 13.
Film drier. W. H. Richards. 2,323,934; July 13.
Film spool holder. M. R. Hutchison, Jr. 2,324,086; July 13.
Firearm. O. F. Van Horn and J. D. Whittaker. 2,324,125; July 13.
Fire control apparatus. P. C. Smith. 2,324,330; July 13.
Fire escape, Portable. E. T. Wiley. 2,323,883; July 13.
Fish screen. C. N. Greer. 2,324,296; July 13.
Fitting for paint containers and the like, Pouring. Z. B. Andrews. 2,323,964; July 13.
Flanged elements, Making. F. M. Smith. 2,324,435; July 13.
Flap splitting machine. J. S. Kamborian. 2,323,915; July 13.
Flashlight synchronizing apparatus. J. W. Gillon and J. C. Hollister. 2,324,075; July 13.
Flexible joint. S. H. Brooks. 2,324,062; July 13.
Flight indicator. L. F. Carter. 2,323,897; July 13.
Floor bleaching process, Multiple. C. G. Ferrari and W. S. Hutchinson. 2,324,203; July 13.
Floor screen. R. Kahr. 2,324,398; July 13.
Flotation cell. L. S. Petersen. 2,324,018; July 13.
Flow device, Stage lift. A. Boynton. 2,323,893; July 13.
Fluids, Processing well. G. L. Parkhurst. 2,324,172; July 13.
Folding box. R. W. Hoag. 2,324,151; July 13.
Folding pedal. W. B. Johnson. 2,323,913; July 13.
Food container. S. C. Cunningham. 2,324,137; July 13.
Forging. C. A. Brauchler. 2,323,972; July 13.
Fountain, Poultry. J. L. Pinson. 2,324,020; July 13.
Fuel, High antiknock motor. W. J. Sweeney. 2,324,118; July 13.
Fuel to internal combustion engines, Feeding liquefied gas-ozone. A. K. Hinchman. 2,324,392; July 13.
Fueling solid fuel injection engines. M. G. Fiedler. 2,324,071; July 13.
Fuels, Manufacture of anti-knock motor. A. R. Goldsby and E. E. Sensel. 2,324,295; July 13.
Fuse. W. O. Schultz and A. G. Steinmayer. 2,324,114; July 13.
Fuse, Combination instantaneous and delay. H. M. Brayton. 2,324,192; July 13.
Garment bag. B. J. Frost. 2,324,072; July 13.
Garment hanger. W. D. Lhamon. 2,324,093; July 13.
Garment, Hunting. O. C. Haney. 2,324,154; July 13.
Gas control means. J. Maynard. 2,324,100; July 13.
Gauge: *See*—
Personal height gauge.
Gear shift-indicator, Automotive transmission. F. B. Howell. 2,324,396; July 13.
Gears, Producing. E. Wildhaber. 2,324,182; July 13.
Generator: *See*—
Oscillation generator.
Geometrical instrument. L. Suverkrop. 2,324,041; July 13.
Glass, Water-soluble beryllium-phosphate. M. Williams. 2,324,124; July 13.
Glove, Swimming. H. D. Eslick. 2,324,375; July 13.
Golf bag support. G. S. Thommen. 2,324,439; July 13.
Grate. H. P. Katz. 2,323,916; July 13.
Grease interceptor. E. W. N. Boosey. 2,324,190; July 13.
Grinder, Combination cutting and surfacing. P. E. Lowe. 2,324,263; July 13.
Grinding machine. G. T. Muskovin and J. I. Garside. 2,324,266; July 13.
Grip for electric irons, Hand. B. J. Murphy. 2,324,226; July 13.
Halo-substitution of saturated organic compounds. W. E. Vaughan and F. F. Rust. 2,324,249; July 13.
Halo-substitution saturated organic compounds, Catalytic. W. E. Vaughan and F. F. Rust. 2,324,248; July 13.
Hanger: *See*—
Garment hanger.
Hardness testing tool. L. J. Markwardt. 2,323,925; July 13.
Harness, Prisoner's. E. R. Wilson. 2,324,183; July 13.
Harvester platform. L. A. Paradise. 2,324,171; July 13.
Heat dissipating assembly. W. C. Buttner. 2,323,895; July 13.
Heater. C. E. Meyerhoefer, W. C. Ballard, Jr., and J. H. Smoot. 2,324,010; July 13.
Heating means for ironers. J. B. Sando. 2,324,029; July 13.
Helmets, Forming. E. E. Oestrike. 2,324,420; July 13.
Hinge. H. Helgason. 2,324,209; July 13.
Hinged joint. S. H. Brooks. 2,324,061; July 13.
Hoist structure. R. H. Johnston. 2,324,000; July 13.
Hoisting device, Well. R. M. Lilly. 2,324,096; July 13.
Holder: *See*—
Electrode holder. Match book holder.
Film spool holder.
Holder for napkins, etc. C. M. Bricker. 2,323,892; July 13.
Home for wild life. S. M. Vanbussum. 2,324,339; July 13.
Hose coupling attaching apparatus. J. C. Schellin, R. H. Hunter, E. J. Housekeeper, and F. V. Calhoun. 2,324,030; July 13.
House, Sectionalized concrete. B. J. Schwendt. 2,324,326; July 13.
Hydrocarbon deposits, Geochemical prospection of. S. J. G. Pirson. 2,324,107; July 13.
Hydrocarbon oils, Purification of. G. C. Connolly. 2,324,066–7; July 13.
Hydrocarbons, Treating. P. J. Gaylor and E. J. Mahler. 2,324,073; July 13.
Hydropneumatic press. D. E. Gray. 2,324,149; July 13.
Ignition for internal combustion engines, Distributor. M. C. Moran. 2,324,169; July 13.
Ignition testing and engine treating device. H. G. Lehmann. 2,324,404; July 13.
Impact detonator. L. S. Serog. 2,324,243; July 13.
Impedance, Attachable. H. K. Andrews. 2,324,053; July 13.
Indicating apparatus. G. A. Thompson. 2,324,336; July 13.
Indicator: *See*—
Flight indicator. Weight indicator.
Inhibitor, Cracking. B. C. Barton. 2,324,056; July 13.
Inhibitor for photographic developers, Fog. A. Weissberger. 2,324,123; July 13.
Insulating construction element. D. Roberts. 2,323,936; July 13.
Insulator, Thimble-equipped. R. W. Barnitz. 2,323,967; July 13.
Intermitting unit, Automatic. W. Brauer. 2,324,132; July 13.
Intermitting unit, Dual automatic. W. Brauer. 2,324,355; July 13.
Irrigator. O. A. Peters. 2,324,234; July 13.
Jack. C. M. Donahoo. 2,324,141; July 13.
Jewelry case. H. P. McGovern. 2,324,310; July 13.
Joint: *See*—
Flexible joint. Pipe joint.
Hinged joint.
Kerf cutting apparatus. L. E. Simmons. 2,324,033; July 13.
Ketones, Stabilization of unsaturated. E. M. McMahon. 2,324,101; July 13.
Kit, First-aid. C. F. Campiglia. 2,324,194; July 13.
Knitted fabric and method. O. Fregeolle. 2,323,988; July 13.
Knitted fabric and method. W. L. Smith, Jr. 2,324,036; July 13.
Lacquer, Dipping. C. J. Malm and G. J. Clarke. 2,324,098; July 13.
Ladder attachment. C. R. Morris. 2,324,414; July 13.
Lamp: *See*—
Electric lamp.
Lamp coating apparatus. C. P. Keim and B. J. Vasalle. 2,324,455; July 13.
Lasting machine wiper structure. J. W. Barna. 2,324,128; July 13.
Latch. R. Marple. 2,324,409; July 13.
Latching mechanism. G. E. Lofgren and C. E. Stevens. 2,324,406; July 13.
Lattice structure. E. W. Neale. 2,324,229; July 13.
Lens attachment. H. F. Bennett. 2,324,057; July 13.
Light control means. P. Burgess. 2,324,133; July 13.
Lighter, flashlight, and writing implement, Combined cigarette. B. Zeno. 2,323,960; July 13.
Liquid clarification. E. M. Kelly, A. M. Kivari, R. P. Kite, E. J. Roberts, and D. B. Sutherland. 2,324,400; July 13.
Lithographic plate preparation. J. P. Danehy and J. H. Newland. 2,324,198; July 13.
Lithographic plates, etc., Preparation of sensitized. J. P. Danehy. 2,324,197; July 13.
Loading mechanism for firearms. E. G. Reising. 2,324,238; July 13.
Locating and fastening means. F. W. Meredith. 2,324,224; July 13.
Lock: *See*—
Automobile trunk lock. Ordnance traveling lock.
Loom reed threading device. V. Lobl and E. L. McCormack. 2,324,220; July 13.
Loop-takes mechanism for sewing machines. W. Myers. 2,324,418; July 13.
Loose-leaf binder. C. V. St. Louis. 2,324,244; July 13.
Loose-leaf construction. V. Havel. 2,324,259; July 13.
Louver pivot clip. Van E. Huff. 2,324,454; July 13.
Lubrication. E. H. Kocher. 2,324,402; July 13.

Machine for cutting gear teeth. F. W. Seeck. 2,324,242; July 13.
Machine for flattening sheet metal articles. F. W. Houlston. 2,323,909; July 13.
Machine for manufacturing meat balls. W. B. Felton. 2,324,202; July 13.
Machine for operating on shoes. C. G. Brostrom. 2,323,973; July 13.
Machine for operating upon shoes. H. F. Smith. 2,323,942; July 13.
Machine for severing rubber. R. R. Campbell. 2,323,975; July 13.
Machine for shaping shoe parts. E. N. Preble. 2,323,933; July 13.
Magnetic contact. A. H. Lamb. 2,324,262; July 13.
Magnetic materials, Manufacturing. J. L. Snoek. 2,323,944; July 13.
Magnetic switch. H. Hubbell. 2,323,910; July 13.
Manhole cover. H. Wirz, Jr. 2,323,886; July 13.
Massaging appliance. E. H. Tjomsland. 2,324,337; July 13.
Match book holder. B. L. Brooks. 2,324,276; July 13.
Measuring and control apparatus. W. P. Wills. 2,323,885; July 13.
Measuring apparatus. B. J. Kinsburg. 2,324,215; July 13.
Measuring circuit. E. D. Goodale and J. L. Hathaway. 2,324,077; July 13.
Measuring device, Density. D. S. Hersey. 2,324,391; July 13.
Meat treatment. B. E. Williams and L. L. Cadwell. 2,323,953; July 13.
Melamine purification. A. C. Wintringham and V. L. King. 2,324,450; July 13.
Metal table. F. C. Woelfer. 2,324,252; July 13.
Meter: *See*—
Ampere-hour meter. Turbidity meter.
Method of and apparatus for dewatering comminuted materials. F. K. Knudsen. 2,323,920; July 13.
Method and apparatus for ascertaining the focus of reflectors. E. J. Westerlund. 2,324,449; July 13.
Method and apparatus for reclaiming ultraviolet lamps. E. R. Heiliger. 2,324,390; July 13.
Method and apparatus for removing amplitude modulation. E. H. Lange. 2,324,090; July 13.
Method and machine for making molded stems for electrical devices. D. S. Gustin and H. K. Richardson. 2,324,385; July 13.
Method and product for producing a cleansing and preserving coating on fruits and vegetables. G. Wehrli. 2,324,448; July 13.
Microscope objective. M. J. Herzberger. 2,324,081; July 13.
Mill: *See*—
Boring mill.
Mirror. S. J. Winslow. 2,324,049; July 13.
Mitt, Baseball. H. B. Latina. 2,324,219; July 13.
Mixing machine. M. Srob. 2,324,179; July 13.
Motion picture projector apparatus. C. Dodegge. 2,324,372; July 13.
Motor. A. Strauss and L. S. Tucker. 2,323,945; July 13.
Motor driven cable reel. J. R. Shoffner. 2,324,329; July 13.
Mounting: *See*—
Ophthalmic mounting. Window shade mounting.
Mounting for bicycles, Lamp. L. E. Dempsey. 2,323,900; July 13.
Multiple bar shaft coupling. S. T. Smith. 2,323,943; July 13.
Multiple connector plug. F. J. Faulkner. 2,324,144; July 13.
Nozzle, Burner. N. J. Gendron. 2,324,147; July 13.
Nozzle, Liquid dispensing. H. M. Groomes. 2,324,150; July 13.
Nozzle with automatically retractable surface-contacting element, Suction. A. E. Ross. 2,324,111; July 13.
Nut cracker and sheller. A. D. Goodwin. 2,324,382; July 13.
Nut, Nonlosable. E. E. Simms. 2,324,175; July 13.
Nut, Swiveley mounted. P. J. Healy. 2,324,388; July 13.
Oarlock for sculling. G. McKelvey. 2,324,311; July 13.
Oil cooler. J. J. Hilt. 2,323,994; July 13.
Oil, Improving lubricating. J. H. Bruun and G. E. Goheen. 2,324,357; July 13.
Opener, Car. G. L. Reenstierna. 2,324,110; July 13.
Ophthalmic mounting. E. H. Rimington. 2,324,273; July 13.
Optical instrument. F. C. Wappler. 2,324,444; July 13.
Optical system. H. E. Goldberg. 2,324,076; July 13.
Ordnance traveling lock. B. P. Joyce. 2,324,213; July 13.
Organic compounds, Manufacture of. H. Dreyfus. 2,323,980; July 13.
Oscillation generator. C. S. Yerian. 2,323,956; July 13.
Outlet box. R. E. Haynes. 2,324,155; July 13.
Overhead garage door. A. C. D'Alfonso. 2,324,138; July 13.
Oxygen aviation unit, Portable. J. A. Heidbrink. 2,324,389; July 13.
Package and dispenser, Combined. B. Nash. 2,324,228; July 13.
Packages, Making razor blade. R. Nadeau and A. Rothschmitt. 2,324,016; July 13.
Packing and display case. D. J. Snyder. 2,324,436; July 13.
Pan, Multiple baking. A. L. Langel. 2,323,922; July 13.
Paper fastener. E. Kriegsman. 2,324,004; July 13.
Paper, Photographic copying. F. W. Boughton. 2,324,060; July 13.
Pattern means for knitting machines. A. L. Hutton, Jr., I. H. C. Green, and E. St. Pierre. 2,323,998; July 13.
Pen, Fountain. C. E. Marshall. 2,324,008; July 13.
Perforator, Keyboard. R. A. Lake. 2,323,921; July 13.
Perfumes, Preservation of. C. N. Andersen. 2,324,347; July 13.
Personal height gauge. J. C. Sutton. 2,324,334; July 13.
Phenylenediamine derivatives, Preparing. H. Von Bramer, L. G. Davy, and M. L. Clemens, Jr. 2,323,948; July 13.
Photographic printing apparatus. F. E. Tuttle and J. Stoiber. 2,324,121; July 13.
Phonograph apparatus. E. W. Kellogg. 2,324,214; July 13.
Phthalylsulphathiazole. M. L. Moore. 2,324,015; July 13.
Piano action. F. C. Socin. 2,324,037; July 13.
Picker, Hand bean. W. B. Webb. 2,324,446; July 13.
Pickup device. N. R. Krause. 2,324,261; July 13.
Piezoelectric unit. J. H. Ream. 2,324,024; July 13.
Pipe: *See*—
Tobacco pipe.
Pipe coupling cutter. I. C. Reynolds. 2,324,323; July 13.
Pipe covering. T. S. Tulien. 2,324,181; July 13.
Pipe joint. E. H. Taylor. 2,324,335; July 13.
Plaiting machine, Selective. J. J. Cahill. 2,323,896; July 13.
Plate clamp. T. B. Chandler. 2,324,362; July 13.
Plate for controlling temperature of food and serving same. K. E. Baker. 2,324,351; July 13.
Playing ball. T. W. Casey and A. E. Sidnell. 2,324,277; July 13.
Plow, Peanut harvester. C. A. Finleyson. 2,324,376; July 13.
Plug: *See*—
Multiple connector plug.
Pole, Fishing. A. Rondelli. 2,324,429; July 13.
Popcorn machine. H. Van Doren, and D. E. Dailey. 2,324,046; July 13.
Porcelain bushed grinding wheel. J. F. Fischer. 2,324,377; July 13.
Portable table. H. K. Ullman. 2,324,247; July 13.
Pouring can. N. R. Tripp. 2,324,338; July 13.
Power system. M. A. Edwards. 2,324,293; July 13.
Prefabricated construction unit. C. W. Stone. 2,324,039; July 13.
Press: *See*—
Cupping press. Printing press.
Hydropneumatic press.
Pressure structure for shoe lasting machines. J. W. Barna. 2,324,129; July 13.
Pressure regulator. H. B. Wright. 2,323,888; July 13.
Printer, Telegraph. L. M. Potts. 2,323,932; July 13.
Printing press. W. F. Grupe. 2,324,298; July 13.
Printing telegraph apparatus. W. J. Zenner. 2,323,959; July 13.
Process for dehydration. A. Schaafsma, 2,324,240; July 13.
Process of and apparatus for conditioning metal bodies. J. H. Bucknam and A. J. Miller. 2,323,974; July 13.
Process of ornamentation. R. E. Pettit. 2,324,106; July 13.
Product and synthesis thereof. J. C. Sauer. 2,323,938; July 13.
Projectile for firearms. G. N. Albree. 2,324,346; July 13.
Proportional feeder. J. B. Wade. 2,323,950; July 13.
Protector: *See*—
Corner protector.
Pulley, Swinging duplex clothesline. J. C. Anderson. 2,323,052; July 13.
Pump: *See*—
Rotary oil pump.
Pump. A. Rappl, and E. C. Horton. 2,324,023; July 13.
Pumps. P. Dodge. 2,324,291; July 13.
Pusher, Stock. G. F. Zezula. 2,323,889; July 13.
Rail clamp. W. H. Chidester. 2,324,134; July 13.
Rail fastening. W. H. Chidester, and J. R. Snyder. 2,324,135; July 13.
Razor, Electrically heated safety. M. M. Gravin. 2,324,148; July 13.
Recovering ethers. F. M. Archibald. 2,324,054; July 13.
Reel: *See*—
Casting reel. Motor driven cable reel.
Reel for maps or the like, Winding. M. H. Albers. 2,324,453; July 13.
Refining process. W. H. Rupp and K. E. Thorp. 2,324,112; July 13.
Refractory composition. E. Wainer. 2,323,951; July 13.
Refrigeration apparatus. G. S. McCloy. 2,324,309; July 13.
Refrigerator spacer construction. E. Swedman. 2,324,245; July 13.
Register resetting mechanism. W. G. Peters. 2,324,321; July 13.
Regulator: *See*—
Pressure regulator. Voltage regulator.
Regulator mechanism for vehicle windows or the like. B. S. Floraday. 2,324,145; July 13.

Relay, D'Arnsvol. A. J. McMaster. 2,324,265; July 13.
Relay mechanism, Brush lifting. R. M. Heintz, and P. F. Scofield 2,324,156; July 13.
Relay, Shielded. R. M. Heintz. 2,324,301; July 13.
Remote control apparatus. E. M. Sorensen. 2,324,331; July 13.
Removing mud barrier from oil wells. T. A. Bertness, N. Johnston, and D. O. Newton. 2,324,254; July 13.
Resilient wheel. P. R. Von Schneeweiss and H. F. Klaholz. 2,324,251; July 13.
Resonance unit. E. E. Wilson. 2,323,955; July 13.
Retaining device, Automatically releasable. W. L. Roessner. 2,324,428; July 13.
Rheostat. W. G. Grimes. 2,324,383; July 13.
Rigging, Brush. L. Haiffey and L. F. Hemphill. 2,324,299; July 13.
Ring binder. C. D. Trussell. 2,324,460; July 13.
Rivet and making same. H. J. Eklund. 2,324,142; July 13.
Riveting tool. C. E. Moss. 2,324,104; July 13.
Roaster, Frankfurter. B. M. Parsons. 2,324,233; July 13.
Rocking chair. W. La Valliere. 2,324,091; July 13.
Rod threading device. E. Smith. 2,324,176; July 13.
Roll. J. G. Shelley. 2,324,050; July 13.
Roller, Crust. L. J. Harriss and B. Lambers. 2,323,907; July 13.
Rosin refining. R. W. Martin. 2,324,223; July 13.
Rotary oil pump. G. Sivertsen. 2,324,116; July 13.
Round straightener. J. B. Sutton. 2,323,946; July 13.
Rubber hydrochloride composition. J. P. Chittum, and G. E. Hulse. 2,324,278; July 13.
Rubber, Treatment of. R. T. Armstrong, and E. J. Hart. 2,324,186; July 13.
Rubber, Vulcanization of. R. A. Mathes. 2,323,923; July 13.
Rubber, Vulcanization of. A. W. Sloan. 2,323,940; July 13.
Sand blasting. J. N. Voerge. 2,324,250; July 13.
Sand blasting machine, equipment, and the like. J. W. Rasmussen. 2,324,425; July 13.
Sandal, Snowshoe. G. M. Rintamaki and L. H. Powis. 2,323,935; July 13.
Sander, Hand. A. J. Dremel. 2,324,292; July 13.
Sander, Track. W. A. Baldwin. 2,324,274; July 13.
Sanding and buffing tool. R. G. Ames. 2,323,962; July 13.
Sanitary coating composition. D. M. Gray, and F. M. De Beers, Jr. 2,324,078; July 13.
Sash and ventilator. L. O. Davis. 2,324,139; July 13.
Sawhorse. S. J. Crozier. 2,324,196; July 13.
Screen: *See*—
Fish screen. Floor screen.
Screen for fluorescent lamps, Ultraviolet. W. G. Grimes. 2,324,384; July 13.
Screw driver, Screw-holding. J. Hagness. 2,324,153; July 13.
Sealing element. J. Bahelka. 2,324,055; July 13.
Sealing means. E. S. Stoddard. 2,324,332; July 13.
Seat: *See*—
Tractor seat.
Seat for vehicles, Adjustable. H. Gsell. 2,324,207; July 13.
Selvage for knitted fabrics. W. L. Smith, Jr. 2,324,035; July 13.
Separator: *See*—
Baled hay separator.
Separation of ketones and monohydric alcohols from mixtures thereof. E. C. Britton, H. S. Nutting, and L. H. Horsley. 2,324,255; July 13.
Sewing machine, Buttonhole. J. H. Pikul. 2,324,235; July 13.
Shade, Movable. V. V. Steele. 2,324,038; July 13.
Shaft, Wall. L. L. Hardeman. 2,323,992; July 13.
Shaving device. G. Dalkowitz. 2,324,070; July 13.
Shell casing supporting and protector ring. F. H. Wyman. 2,324,184; July 13.
Shock absorber structure, Hydraulic. A. Boor and C. E. Read. 2,324,058; July 13.
Shoe with laminal wood sole. J. Lewis. 2,324,094; July 13.
Signal means for battery charging circuits. F. G. Beetem. 2,324,188; July 13.
Signaling system. W. H. T. Holden. 2,324,394; July 13.
Silencer. J. G. Blanchard. 2,323,891; July 13.
Silicon carbide refractory, Bonded. J. P. Swentzel. 2,324,119; July 13.
Slack take-up device for tappets. J. A. Anglada. 2,323,965; July 13.
Slingshot, beanshooter, or beanie. W. G. Donaldson. 2,324,201; July 13.
Snath. G. Robichaud. 2,324,239; July 13.
Snubber for engine mountings. R. S. Plexico. 2,324,021; July 13.
Soaps and perfumes, Preservation of. C. N. Andersen. 2,324,348; July 13.
Soil stabilization. A. B. Miller. 2,323,928; July 13.
Soils, Stabilization of. A. B. Miller. 2,323,929; July 13.
Solution for photographic films, Subbing. G. F. Nadeau and L. K. Eilers. 2,324,105. July 13.
Spectral analysis, Comparative. C. H. Schlesman. 2,324,270; July 13.

Speed control mechanism. H. A. Bowers. 2,324,191; July 13.
Speed mechanism, Variable. J. H. Gerber. 2,324,074; July 13.
Spreader. H. S. Hiroshima. 2,323,995; July 13.
Spring mattress structure. F. Hampton. 2,324,258; July 13.
Sprinkler head. E. H. Ofstie. 2,324,170; July 13.
Stalk cutter. J. M. Leggitt. 2,324,092; July 13.
Stand for infants, Supporting. A. J. Ouellette. 2,324,421; July 13.
Statistical machine. A. Thomas and N. G. Holden. 2,324,438; July 13.
Steam boiler. C. D. Young and F. W. Hankins. 2,324,345; July 13.
Stem for handle bars, Extension. E. K. Kühn. 2,324,403; July 13.
Stocking. A. X. Desmonds. 2,324,256; July 13.
Stringed instrument. C. Biederman. 2,323,969; July 13.
Stroboscope, Sound. L. M. Kurtz. 2,324,305; July 13.
Strut or oleo leg for aircraft, Shock absorber. L. E. Cowey. 2,324,281; July 13.
Submarine prospecting. J. W. Flude. 2,324,378; July 13.
Sucedinylsulphathiazole. M. L. Moore. 2,324,014; July 13.
Suction cleaner. W. N. Patterson. 2,324,422; July 13.
Sulphonation process. M. T. Harvey. 2,324,300; July 13.
Superheterodyne receiver. H. F. Mayer. 2,323,924; July 13.
Support: *See*—
Golf bag support. Vacuum bottle support.
Switch: *See*—
Combination switch. Magnetic switch.
Electric switch.
Switch construction. A. Van Ryan. 2,324,047; July 13.
Table: *See*—
Metal table. Portable table.
Tape dispenser. W. W. Atkins. 2,324,349; July 13.
Tape dispenser. H. L. Fisher. 2,324,204; July 13.
Tape printing machine. R. W. Chalmers. 2,323,976; July 13.
Tape transmitter distributor. W. J. Zenner. 2,323,958; July 13.
Tappet valve. A. Lenz and J. F. Miller. 2,324,006; July 13.
Target apparatus. S. W. Frazier and J. B. Hendrix. 2,324,294; July 13.
Telephone system C. M. Morris. 2,324,317; July 13.
Telephone system. L. R. Waller. 2,324,341; July 13.
Television. P. C. Goldmark. 2,323,905; July 13.
Testing apparatus for friability of varnish material. H. W. Anway. 2,324,127; July 13.
Tester, Spark plug. M. F. Peters, J. P. Boston, and M. Davis. 2,324,458; July 13.
Testing machine for motor vehicles, Brake. H. Wochner. 2,323,887; July 13.
Theme finder. W. O. Miessner. 2,324,315; July 13.
Thread rolling dies, Making. H. C. Erdman. 2,324,143; July 13.
Threading device. J. P. Bird and F. B. Schaffer. 2,323,970; July 13.
Throttle, Blower automatic. N. C. Price. 2,324,236; July 13.
Throttle valve. L. A. Camerota. 2,324,360; July 13.
Tip for fishing rods, Roller. C. W. Berry. 2,324,353; July 13.
Tire chain applying tool. E. L. Kibler. 2,323,917; July 13.
Tobacco pipe. K. F. J. Kirsten. 2,324,216; July 13.
Tool: *See*—
Cutting-off tool. Sanding and buffing tool.
Hardness testing tool. Tire chain applying tool.
Riveting tool.
Tractor seat. A. H. Haberstump. 2,324,152; July 13.
Traffic signal control apparatus. J. J. Alles. 2,324,051; July 13.
Transmission. Hydraulic D. F. McGill. 2,323,926; July 13.
Transmission mechanism, Hydraulic. O. V. Malmquist. 2,324,308; July 13.
Triazine derivatives. G. F. D'Alelio and J. W. Underwood. 2,324,285–6; July 13.
Truck. A. H. Oelkers. 2,324,267; July 13.
Tube: *See*—
Cathode ray tube.
Tube corrugating apparatus. E. W. Riemenschneider. 2,324,026; July 13.
Tunnel liner. G. O. Harm. 2,323,906; July 13.
Turbidity meter. J. Katzman. 2,324,304; July 13.
Vacuum bottle support. O. M. Anderson. 2,324,253; July 13.
Vacuum cleaner. R. C. Lampe. 2,324,306; July 13.
Vacuum cleaner dust bag. R. K. Österdahl. 2,324,231; July 13.
Vacuum closing machine. W. Pechy. 2,323,930; July 13.
Valve: *See*—
Adjustable hydraulic valve. Throttle valve.
Tappet valve.
Valve. F. D. Butler. 2,323,894; July 13.

Valve arrester, Auto. S. C. Pyk. 2,324,108; July 13
Valve forging machine. L. Blackmore and M. C. Kristek. 2,323,971; July 13.
Vending machine. H. B. Stoner and R. D. Stayton. 2,324,040; July 13.
Ventilator device for poultry houses. D. B. Tolley. 2,324,043; July 13.
Vise, Portable pipe. A. S. Foster. 2,324,379; July 13.
Vitamine concentrates, Producing fat-soluble. L. O. Buxton. 2,324,063; July 13.
Vitreous objects, Multicolor decoration. H. F. Scheetz, Jr. 2,324,433; July 13.
Voltage regulator. M. Debrey. 2,324,370; July 13.
Washing machine. L. M. Harvey. 2,323,993; July 13.
Waste container. B. M. Tormohlen. 2,324,440; July 13.
Water soluble high molecular acyl-biguanide. J. Bindler and H. Schläpfer. 2,324,354; July 13.
Wave length modulation. M. G. Crosby. 2,324,282; July 13.
Weight indicator. A. L. Rodgers. 2,324,174; July 13.
Welding method and apparatus. D. W. Fentress. 2,323,903; July 13.
Well logging, Geochemical. L. Horvitz and E. E. Rosaire. 2,324,085; July 13.
Well survey apparatus. L. C. Miller. 2,324,103; July 13.
Wheel: *See*—
Blade wheel.
Porcelain bushed grinding wheel.
Resilient wheel.
Wheel suspension. H. A. Knox. 2,323,919; July 13.
Whipped cream dispenser. W. W. Hubenet. 2,324,162; July 13.
White lead, Manufacture of. E. J. Dunn, Jr. 2,323,982; July 13.
Winding and unwinding attachment for tractors, Wire. M. H. Baal. 2,324,350; July 13.
Window construction. C. B. Weedon. 2,324,447; July 13.
Window shade mounting. E. F. Pidgeon. 2,324,423; July 13.
Windshield swipe. E. Coutts. 2,324,365; July 13.
Wire, Coated. O. E. Adler. 2,323,890; July 13.
Wood pulp, Preparing. F. Olsen, S. Feldman, and L. M. Sheldon. 2,324,230; July 13.
Wool forming apparatus, Mineral. N. Dobak and E. R. Powell. 2,324,140; July 13.
Work cabinet. A. C. Pfau and J. G. Liskow. 2,324,019; July 13.
Wrench. R. L. Arthur. 2,324,187; July 13.
Wrench and pliers, Combined. J. H. Moss. 2,324,415; July 13.
Yarn guide for twisting frames. J. Foster. 2,323,987; July 13.
Yarn production. R. Soukup. 2,324,437; July 13.
Yarn twisting. J. E. Halin. 2,323,991; July 13.

APPLICATIONS VESTED IN ALIEN PROPERTY CUSTODIAN

JULY 13, 1943

The applications listed below have been vested by the Alien Property Custodian, who has authorized their publication. Printed copies of these applications as filed may be obtained from the Commissioner of Patents, Washington, D. C., for ten cents each. In ordering copies of these applications they must be ordered by serial number, the serial number to be preceded by the letters "A.P.C.".

Copies of patents may be obtained from the Commissioner of Patents, Washington, D. C., for ten cents each. Patents should be ordered by the patent number.

CLASS 8

A.P.C. 250,850. Process for bleaching natural and artificial fibers and fibres of vegetable origin and free from incrustations. Hermann Baier et al., Francfort-on-Main, Germany. Published July 13, 1943.

A.P.C. 302,408. Process for the bleaching of celluloses obtained by alkaline processes. Emil Scheller et al., Lorsbach/Taunus, Darmstadt, Germany. Published July 13, 1943.

A.P.C. 303,912. Process for the recovery of celluloses suitable for the manufacture of photographic papers. Emil Scheller et al., Lorsbach/Taunus, Darmstadt, Germany. Published July 13, 1943.

A.P.C. 303,913. Process for the bleaching of celluloses. Emil Scheller et al., Lorsbach/Taunus, Darmstadt, Germany. Published July 13, 1943.

A.P.C. 347,759. Process for the manufacture of bleached cellulose. Emil Scheller, Lorsbach/Taunus, Germany. Published July 13, 1943.

A.P.C. 401,673. Felting property of dyed shoddy. Egon Elod, Heidelberg, Germany. Published July 13, 1943.

CLASS 22

A.P.C. 474,321. Method for centrifugally casting thickwalled tubes. Jacques Boucher, Paris, France. Published July 13, 1943.

A.P.C. 474,770. Centrifugal castings. Pierre Boissou, Pamiers, France. Published July 13, 1943.

CLASS 23

A.P.C. 266,886. Process for the production of carbon black. Harry Kloepfer, Cologne, Germany. Published July 13, 1943.

A.P.C. 292,742. Process for chemical reactions in melts. Walter Beck et al., Frankfurt A/Main, Germany. Published July 13, 1943.

A.P.C. 393,258. Process for chemical reactions in melts. Walter Beck et al., Frankfurt/Main, Germany. Published July 13, 1943.

A.P.C. 442,132. Method of production of copper ammonide. Felix Ammet Honore Verdeaux, Bordeaux, France. Published July 13, 1943.

CLASS 32

A.P.C. 269,249. Manufacture of dentures. Valentin Weickel, Francfort-on-Main, Germany. Published July 13, 1943.

A.P.C. 368,390. Dentures. Erich Czapp et al., Frankfurt A. M., Germany. Published July 13, 1943.

CLASS 58

A.P.C. 437,434. Electric clock mechanism. Arthur Quebatte et al., Boulogne-sur-Seine, France. Published July 13, 1943.

CLASS 60

A.P.C. 283,101. Heat exchange apparatus. Anselm Franz et al., Dessau, Germany. Published July 13, 1943.

CLASS 74

A.P.C. 467,857. Gear wheels for the drive of planing machines or the like. Charles William Berthiez, Paris, France. Published July 13, 1943.

A.P.C. 467,858. Devices for adjusting the feed or displacement of certain parts of machine-tools or the like. Charles William Berthiez, Paris, France. Published July 13, 1943.

A.P.C. 474,319. Damping fly-wheels. Henri Louis Burnat, Paris, France. Published July 13, 1943.

CLASS 75

A.P.C. 223,321. Annealing boxes. Leo Kluger, Vienna, Germany. Published July 13, 1943.

A.P.C. 285,805. Alloy steel. Leo Kluger, Vienna, Germany. Published July 13, 1943.

A.P.C. 326,724. Magnesium-base alloys containing metals of the cerium group of rare earth, substantially free from cerium. Charles De Rohden, Neuilly-sur-Seine, France. Published July 13, 1943.

A.P.C. 420,578. Alloy. Louis Henri Francois Canac et al., Toulon (Var), France. Published July 13, 1943.

CLASS 76

A.P.C. 164,337. Manufacture of spinning nozzles. Herman Holzmann, Hanau am Main, Germany. Published July 13, 1943.

CLASS 78

A.P.C. 292,740. Process for the manufacture of compact junctions of light metals and light metal alloys with heavy metals and heavy metal alloys. Hans Bernstorff et al., Frankfurt A/M., Germany. Published July 13, 1943.

CLASS 80

A.P.C. 470 621. Process for hot rolling very long thin strips. Paul Blain, Paris, France. Published July 13, 1943.

A.P.C. 470,630. Adjusting device for rolling-mills. Jean Misset, Firminy, France. Published July 13, 1943.

CLASS 83

A.P.C. 268,381. Process for the preparation of homogeneous mixed products. Erich Kaufmann, Oberursel, Germany. Published July 13, 1943.
A.P.C. 388,876. Process and apparatus for the comminution of fused materials. Otto Landgraf, Frankfurt/Main, Germany. Published July 13, 1943.

CLASS 88

A.P.C. 470,090. Telescope system. Albert Bouwers, Eindhoven, Holland. Published July 13, 1943.

CLASS 92

A.P.C. 474,320. Substitutes for paper, cardboards and artificial leather and processes for the manufacture thereof. Maurice Desire Emile Deribere, Courbevoie-Becon, France. Published July 13, 1943.

CLASS 99

A.P.C. 254,739. Process for reducing vegetables containing starch to a dry powder. Zelmanas Volpertas, Paris, France. Published July 13, 1943.

CLASS 100

A.P.C. 469,105. Bundle tying machine. Jean Joseph Martin Lambert Marchand, The Hague, Holland. Published July 13, 1943.

CLASS 101

A.P.C. 254,525. Printing device. Michael Maul, Berlin-Johannisthal, Germany. Published July 13, 1943.

CLASS 103

A.P.C. 433,808. Gear pumps. Geza Walter Muller, Bron, France. Published July 13, 1943.

CLASS 106

A.P.C. 324,184. Ceramic coloring materials and process of preparing them. Heinrich Diehl, Francfort-on-Main, Germany. Published July 13, 1943.
A.P.C. 368,408. Process for the production of chromium containing coloring agents for glazes, enamels and the like. Heinrich Diehl, Frankfurt A/M., Germany. Published July 13, 1943.
A.P.C. 369,880. Process for the production of boron free enamels, glazes and the like. Walter Kerstan, Frankfurt A/M., Praunheim, Germany. Published July 13, 1943.
A.P.C. 381,191. Process for the production of porous bodies. Josef Schneider, Oberursel I. T., Germany. Published July 13, 1943.
A.P.C. 401,522. Process for the production of porous material. Josef Schneider, Oberursel (Taunus), Germany. Published July 13, 1943.
A.P.C. 472,428. Process of manufacturing a composition from waste liquor of cellulose. Eberhard Rheinberger, Berlin, Germany. Published July 13, 1943.

CLASS 114

A.P.C. 476,022. Electric apparatus forming parts of indicating, measuring, regulating and steering systems. Albert Patin, Berlin, Germany. Published July 13, 1943.

CLASS 117

A.P.C. 248,647. Cementation of metals and metal alloys with beryllium. Gustav Jaeger, Neu-Isenburg, Germany. Published July 13, 1943.
A.P.C. 265,607. Process for increasing the corrosion resistance of metal objects under the influence of corroding gases by cementation with beryllium. Gustav Jaeger, Neu-Isenburg, Germany. Published July 13, 1943.

CLASS 120

A.P.C. 470,091. Fountain pen. Max Leeuwin, Eindhoven, Holland. Published July 13, 1943.

CLASS 123

A.P.C. 472,534. Method and means for saving fuel in internal combustion engines. Abraham Weiss et al., New York, N. Y. Published July 13, 1943.

CLASS 131

A.P.C. 254,576. Device for the forming of a tobacco rod in cigarette machines. Paul Johannes Herrmann. Dresden, Germany. Published July 13, 1943.

CLASS 134

A.P.C. 234,492. Process for the production of rubber-active so-called gas black. Harry Kloepfer et al., Cologne, Germany. Published July 13, 1943.
A.P.C. 268,144. Process for the preparation of active so-called gas black. Hans Backe, Dortmund, Germany. Published July 13, 1943.

CLASS 137

A.P.C. 438,103. Valve control device. Raymond Lucien Rambert, Gonesse, France. Published July 13, 1943.

CLASS 148

A.P.C. 250,848. Process for hardening files. Carl Albrecht et al., Kronberg im Taunus, Germany. Published July 13, 1943.
A.P.C. 321,788. Process for the manufacture of beryllium cemented metallic articles. Hans Bernstorff, Francfort-on-Main, Germany. Published July 13, 1943.

CLASS 167

A.P.C. 276,021. Exterminating agents for vermin. Gerhard Peters, Frankfort-on-Main, Germany. Published July 13, 1943.

CLASS 171

A.P.C. 470,099. Device for measuring low direct voltages. Cornelius Dorsman, Eindhoven, Holland. Published July 13, 1943.
A.P.C. 470,105. Device for measuring direct voltages. Pieter Adriaan Donker, Eindhoven, Holland. Published July 13, 1943.
A.P.C. 470,685. Device for measuring low direct voltages. Cornelis Dorsman, Eindhoven, Holland. Published July 13, 1943.

CLASS 178

A.P.C. 251,004. System of television in colours. Georges Valensi, Paris, France. Published July 13, 1943.

CLASS 196

A.P.C. 60,192. Production of liquid fuel. Friedrich Martin et al., Oberhausen, Germany. Published July 13, 1943.

A.P.C. 210,424. Dechlorination of hydrocarbon mixtures. Carl Clar, Oberhausen-Holten, Germany. Published July 13, 1943.
A.P.C. 280,054. Producing high knock-rating gasoline. Friedrich Martin et al., Mulheim-Ruhr, Germany. Published July 13, 1943.
A.P.C. 280,055. Process of refining hydrocarbon mixtures. Friedrich Martin et al., Mulheim-Ruhr, Germany. Published July 13, 1943.

CLASS 198

A.P.C. 469,106. Conveying apparatus with endless chain more particularly for the mechanical distributing and sorting of letters, documents or similar articles. Jean Joseph Martin Lambert Marchand, The Hague, Holland. Published July 13, 1943.
A.P.C. 470,616. Device for feeding machines for packing tubular products. Gerard Bardet, Paris, France. Published July 13, 1943.

CLASS 204

A.P.C. 245,780. Process for protecting articles made of light metals. Jean Frasch, Clichy, France. Published July 13, 1943.
A.P.C. 290,026. Device for supporting articles in galvanic baths and the like. Robert Weiner, Francfort-on-Main, Germany. Published July 13, 1943.
A.P.C. 331,456. Electroplating baths for the electrodeposition of brass, copper, zinc, cadmium. Robert Weiner, Frankfurt A. M., Germany. Published July 13, 1943.

CLASS 209

A.P.C. 147,610. Separator. Wladimir De Fligue, Paris, France. Published July 13, 1943.
A.P.C. 274,857. Process for the wet mechanical separation of raw materials. August Goette, Frankfort-on-Main, Germany. Published July 13, 1943.
A.P.C. 274,858. Process for the flotation of fluor spar. August Goette, Frankfort-on-Main, Germany. Published July 13, 1943.
A.P.C. 302,463. Process for the flotation of non sulfidic conglomerations. August Gotte. Francfort-on-Main, Germany. Published July 13, 1943.
A.P.C. 395,497. Froth flotation process. Karl Wiesler, Frankfurt (Main), Germany. Published July 13, 1943.
A.P.C. 395,498. Froth flotation process. Karl Wiesler, Frankfurt (Main), Germany. Published July 13, 1943.
A.P.C. 395,499. Froth flotation process. Karl Wiesler, Frankfurt (Main), Germany. Published July 13, 1943.

CLASS 210

A.P.C. 306,199. Process for the disposal of waste cyanide solutions. Helmut Beier, Frankfurt A/Main, Germany. Published July 13, 1943.

CLASS 212

A.P.C. 474,325. Devices for lowering a load. Pierre Jean-Marie Theodore Allard, Chantilly, France. Published July 13, 1943.
A.P.C. 474,326. Counterweight control systems for lifting device crabs. Pierre Jean-Marie Theodore Allard, Chantilly, France. Published July 13, 1943.

CLASS 219

A.P.C. 463,175. Water heater. Willi Brandl, Zurich, Switzerland. Published July 13, 1943.

CLASS 223

A.P.C. 470,622. Method and device for making the points of collars, detachable collars, cuffs and the like. Georges Germain, Romorantin, France. Published July 13, 1943.

CLASS 229

A.P.C. 474,373. Packing bags. Rene Faillot, Paris, France. Published July 13, 1943.

CLASS 230

A.P.C. 430,814. Processes for the production of heat or cold by means of a thermal pump with pistons and to thermal pumps for the working of these processes. Robert Esnault-Pelterie, Geneva, Switzerland. Published July 13, 1943.
A.P.C. 470,629. Rotary vane pumps. Charles Raymond Waseige, Saint-Etienne (Loire), France. Published July 13, 1943.

CLASS 235

A.P.C. 224,630. Adding machine. Karl Berthold Wilhelm Kiel, Glashutte, Germany. Published July 13, 1943.

CLASS 242

A.P.C. 248,046. Cinematograph cameras. Otto Steiner, Berlin-Spandau, Germany. Published July 13, 1943.

CLASS 244

A.P.C. 265,721. Aeroplane. Claude Dornier, Friedrichshafen A. B., Germany. Published July 13, 1943.
A.P.C. 288,683. Construction of fuselages. Felix Amiot, Neuilly-sur-Seine, France. Published July 13, 1943.

CLASS 252

A.P.C. 470,674. Process for obtaining moistening, frothing, emulsifying agents and detergents from cocoa-nut oil, palmistic oil, palm oil, etc. Jean-Camille Roger-Petit, Lyon, France. Published July 13, 1943.

CLASS 255

A.P.C. 474,327. Grabs used for boring. Pierre Jean-Marie Theodore Allard, Chantilly, France. Published July 13, 1943.

CLASS 260

A.P.C. 268,024. Production of oxygenated carbon compounds. Otto Roelen, Oberhausen-Holten, Germany. Published July 13, 1943.
A.P.C. 272,852. Process for the production of condensation products. Hans Walter et al., Frankfurt-on-Main, Germany. Published July 13, 1943.
A.P.C. 275,513. Extraction of aliphatic acids. Max Weimann, Frankfurt A/M., Germany. Published July 13, 1943.
A.P.C. 293,507. Process of producing artificial resins. Kurt Nagel, Frankfurt A/M., Germany. Published July 13, 1943.
A.P.C. 300,984. Manufacture of pentaerythritol. Kurt Nagel, Frankfurt-on-Main, Germany. Published July 13, 1943.
A.P.C. 369,507. Process for preparing means for washing, wetting and emulsifying. Otto Roelen, Oberhausen-Holten, Germany. Published July 13, 1943.

A.P.C. 373,703. Process for the preparation of fatty acids from products of the carbon oxide hydrogenation. Friedrich Martin, Mulheim-Ruhr, Germany. Published July 13, 1943.

A.P.C. 374,605. Process for the preparation of valuable waxes, resins, artificial substances, solvents and softeners. Friedrich Martin et al., Mulheim-Ruhr, Germany. Published July 13, 1943.

A.P.C. 376,225. Extracting aliphatic acids. Max Weimann, Frankfurt, Main, Germany. Published July 13, 1943.

A.P.C. 376,926. Process for the conversion of aldehydes containing a vinyl group into the corresponding alcohols. Hans Wagner, Frankfurt (Main), Germany. Published July 13, 1943.

A.P.C. 377,406. Process for the preparation of pure oxygen containing derivatives of aliphatic hydrocarbons. Alfred Landgraf et al., Duisburg-Hamborn, Germany. Published July 13, 1943.

A.P.C. 387,106. Process for the preparation of six membered N-heterocyclic compounds from acrolein or its homologues and ammonia. Fritz Stitz, Frankfurt (Main), Germany. Published July 13, 1943.

A.P.C. 404,522. Aromatic ethers of 1.3-butadiene-ol-2. Arthur Wolfram et al., Frankfurt am Main, Germany. Published July 13, 1943.

CLASS 261

A.P.C. 328,115. Compressor-supercharged carburation devices for internal combustion engines. Marcel Louis Mennesson, Neuilly-sur-Seine, France. Published July 13, 1943.

CLASS 266

A.P.C. 385,578. Device for stirring melts. Hans Bernstorff et al., Frankfurt A. M., Germany. Published July 13, 1943.

CLASS 285

A.P.C. 467,153. Coupling for piping. Jacques Muller, La Garenne, Colombes, France. Published July 13, 1943.

CLASSIFICATION OF PATENTS

ISSUED JULY 13, 1943

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

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This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

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Patents	559	No. 2,324,463 to No. 2,325,021, inclusive.
Designs	41	No. 136,003 to No. 136,043, inclusive.
Total	757	

Adjudicated Patents

(D. C. N. Y.) Engler patent, No. 1,492,972, for dynamo electric machinery, claims 1 to 8, inclusive, *Held* not infringed. *Engler* v. *General Electric Co.*, 49 F. Supp. 782.

(App. D. C.) Gebhard and Meyer patent, No. 1,903,811, for antenna system, claims 1 and 2 *Held* invalid. *Gebhard* v. *General Motors Sales Corp.*, 135 F.(2d) 248.

NOTICE

Attorneys and agents filing amendments and other papers in connection with pending applications are urged to indicate thereon the division to which the application has been assigned for examination. This will frequently eliminate the necessity of correspondence between the Richmond Office and the Washington Office, and thereby avoid delay.

LESLIE FRAZER,
First Assistant Commissioner.

Important Information

In ordering manuscript copies much time will be saved if the order states specifically what is desired, viz:

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Application as allowed. (Petition, specification, oath, and drawings as passed by the Examiner for issue.)
Original application. (Facsimile petition, specification, oath, and drawings at present time.)
Specification as originally filed. (As received in Office.)
Specification as amended. (With amendments entered.)
Specification as allowed. (As passed by the Examiner for issue.)
Original specification. (Facsimile at present time.)
File-wrapper. (File-wrapper only.)
File-wrapper and contents. (File-wrapper, contents of record, including photoprints of any tracings or of prints within file-wrapper. In patented cases, printed copy of the specification and drawings of the patent is furnished.)
File-wrapper contents, and drawings. (File-wrapper and all of the contents of record, including photoprints of any tracings, exhibits, or prints within the file-wrapper. In pending cases, photoprints of the pending drawings only, omitting any canceled. If patented, copy of the specification and drawings of the patent being furnished, photoprints are not made of the original drawings unless specially ordered. If canceled drawings are wanted, they must also be specially ordered.)
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Printed publications in possession of the Office. (Give title and date of publication, also page and exact portion to be copied.)

Orders for copies of any other records not mentioned above must state specifically the exact paper to be copied.

Disclaimers

2,214,468.—*Paul U. Lannerd*, North Tonawanda, N. Y. Projection Device. Patent dated September 10, 1940. Disclaimer filed July 3, 1943, by the inventor.

Hereby enters this disclaimer to claims 1, 5, 15, and 17 of said patent.

2,256,606.—*Adolph I. Blanc*, Coldwater, Mich. Trimming Board. Patent dated September 23, 1941. Disclaimer filed June 23, 1943, by the assignee, *David W. Blanc*.

Hereby enters this disclaimer to claims 1 and 2 of said patent.

Conditions of Applications Under Examination at Close of Business June 30, 1943

(Total number of applications awaiting action, excluding Trade-Mark Division, 39,311. Trade-Mark Division, 1045. Oldest new case, Aug. 20, 1942. oldest amended, Sept. 11, 1942)
(The dates given are 1943 except where † indicates 1942)

Divisions, Examiners, and Subjects of Inventions	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
1. TUCKER, M. W., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Domestic Cooking Vessels; Sewerage.	Mar. 22	Mar. 15	274
2. HERRMANN, D., Fishing and Trapping; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Textile Wringers; Butchering.	Mar. 16	†Nov. 30	266
3. WOLFFE, S., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	†Sept. 26	†Sept. 16	914
4. BISHOP, WALTER C., Conveyors; Hoists; Handling Apparatus; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds; Pneumatic Dispatch; Store Service; Mining, Quarrying and Ice Harvesting.	†Dec. 30	Jan. 6	387
5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Clasps.	†Nov. 9	†Nov. 10	522
6. GENIESSE, E. W., Carbon Chemistry (part)	†Nov. 5	†Dec. 2	1014
7. JARBOE, C. G., Optics, Photography	Jan. 2	Jan. 1	782
8. ADAMS, F. L., Furniture; Kitchen and Table Articles; Racks and Cabinets	Jan. 6	†Dec. 24	571
9. BENSON, R. B., Pumps and Fans; Fluid and Fluid-Current Motors	†Nov. 6	†Nov. 2	777
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	Jan. 13	Jan. 14	364
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Stop Mechanisms	†Nov. 18	Jan. 20	326
13. DONNELLY, A. E., Metal Working (part); Gear Cutting, Milling and Planing; Needle and Pin Making	Jan. 8	Jan. 11	592
14. HANLIN, GEORGE, Metal Working (part); Farriery; Wire Fabrics	Mar. 4	Mar. 8	475
15. HENKIN, BENJ., Glass, Plastic Block and Earthenware Apparatus; Plastics	Jan. 13	†Dec. 31	727
16. SPENCER, C. J., Telegraphy; Telephony	†Nov. 20	†July 10	607
17. HABECKER, LEON B., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet or Web Feeding; Type Setting.	†Oct. 13	†Sept. 16	691
18. KURZ, J. A., Motors, Expansible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal Combustion Engines.	†Oct. 29	†Nov. 21	547
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	†Oct. 19	†Oct. 8	552
20. BROWN, I. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Undertaking; Bread, Pastry, and Confection Making; Laminated Fabrics (part).	Feb. 2	Feb. 4	439
21. THOMPSON, T. J., Textiles	Feb. 15	Feb. 1	303
22. RINGLE, D., Aeronautics; Firearms; Ordnance and Explosive Devices	†Sept. 25	†Sept. 25	1740
23. BARROWS, B., Cash Registers; Calculators (part)	Jan. 15	Jan. 15	146
24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines	Mar. 9	Mar. 1	456
25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Jan. 1	Jan. 2	574
26. YOUNG, R. R., Electricity—Generation and Motive Power	†Nov. 25	†Dec. 7	748
27. CLARK, W. N., Brush, Broom, and Mop Making; Brushing, Scrubbing and General Cleaning; Textiles, Fluid Treating Apparatus; Ironing; Washing Apparatus.	†Nov. 12	†Nov. 18	557
28. SOLYOM, H. L., Internal-Combustion Engines (part); Cylinders and Pistons	†Oct. 2	†Oct. 1	614
29. SHKLARIN, J. B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Package and Article Carriers; Woodworking; Tools; Metal Working, Assembling.	Mar. 6	Mar. 17	376
30. McCANN, LEO P., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	Feb. 8	Mar. 1	289
31. DUNCOMBE, C. S., Hydrocarbons; Mineral Oils	Jan. 14	Jan. 14	1352
32. LESH, K., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; Earth Boring.	†Dec. 10	†Dec. 10	626
33. HULL, J. S., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements	Jan. 16	Jan. 28	652
34. SAPERSTEIN, S., Electricity—Meters and Transmission to Vehicles; Railways; Track Sanders; Signals and Indicators.	Feb. 5	Feb. 3	438
35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles	Jan. 25	Feb. 2	512
36. McFADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring	Feb. 23	Feb. 24	301
37. WEAVER, M. E., Electricity. Circuit Makers and Breakers	Feb. 24	Feb. 25	374
38. KRAFFT, C. F., Coating Processes; Coating or Plastic Compositions (part)	†Dec. 10	†Dec. 9	595
39. WHITNEY, F. L., Fluid-Pressure Regulators; Valves; Water Distribution	Feb. 19	Mar. 9	383
40. DRUMMOND, E. J., Receptacles	Mar. 18	Mar. 15	382
41. HERTZ, M., Coin Handling; Recorders; Deposit Receptacles; Counters and Calculators (part); Typewriting Machines; Check-Controlled Apparatus.	†Dec. 30	Jan. 4	386
42. MARANS, H., Electric Signaling	Mar. 15	Mar. 18	322
43. FEDERICO, P. J., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Fluid Treatment of Textiles; Azo Compounds.	†Aug. 20	†Sept. 11	826
44 HARVEY, L. P., Refrigeration	Jan. 25	Nov. 9	273
45. HILL, H. D., Shafting and Flexible Shaft Couplings; Wheels and Axles; Resilient Tires and Wheels; Lubrication; Bearings and Guides; Motors; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding; Land Vehicles (part).	Jan. 11	Jan. 21	712
46. BLEECKER, V. E., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers; Heating Systems; Coating Apparatus.	†Dec. 12	Jan. 16	384
47. KANOF, WM. J., Clutches and Power Stops; Brakes; Boring and Drilling; Land Vehicles (part)	†Dec. 2	†Dec. 26	990
48. ROEPKE, O. B., Electricity, General Applications; Igniters	†Sept. 24	†Oct. 8	753
49. SHEFFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Purification.	Jan. 12	†Dec. 2	548
50. LEVIN, SAMUEL, Resins; Rubber; Carbohydrates and Derivatives	†Dec. 5	†Dec. 15	1174
51. BACKUS, C. D., Radiant Energy	†Dec. 9	†Dec. 10	1081
52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Pipes and Tubular Conduits	Jan. 20	Jan. 8	705
53. PECK, M. K., Label Pasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas and Canes; Curtains, Shades and Screens; Cutlery.	Feb. 24	Feb. 17	167
54. STRAGHAN, O. W., Electric Lamp and Discharge Devices (part)	†Sept. 9	†Oct. 22	491
55. BOWEN, S. T., Artificial Body Members; Dentistry; Surgery	†Sept. 24	†Sept. 14	816
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Laminated Fabrics (part); Paper Making	Jan. 6	Jan. 6	697
57. NICOLSON, G. D., Toys; Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	†Aug. 20	†Sept. 28	484
58. DOWELL, E. F., Abrading; Bottles and Jars; Stone Working	Jan. 1	Jan. 15	538
59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds; Compositions (part).	†Sept. 9	†Sept. 28	1206
60. GLASS, R. L., Electricity, Heating and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Marine Propulsion; Consumable Electrode Lamp and Discharge Devices.	†Oct. 5	†Oct. 7	486
61. YUNG KWAI, B., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery; Laminated Electrical Insulation, Belt, Hose, Tire and Ball Making; Boats and Buoys.	†Nov. 26	†Dec. 10	517
62. PUGH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors	Mar. 9	Feb. 9	454
63. WINKELSTEIN, A. H., Preserving; Poisons; Fermentation; Foods and Beverages; Proteins; Oils and Fats.	†Oct. 28	†Oct. 20	986
64. NASH, P. M., Acetylene; Gas Mixers; Compositions (part); Distillation; Fuel	Feb. 1	Feb. 1	1076
65. McDERMOTT, F. P., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave Transmission, Telephony, Repeaters and Relays.	†Nov. 3	†Oct. 31	729
TRADE MARKS. RICHMOND, F. A	May 26	June 8	1045
DESIGNS. KALUPY, H. H	May 27	June 16	265

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE ARCHER HOSIERY MILLS

No. 4741. Decided April 5, 1943

[135 F.(2d) 239]

1. TRADE-MARKS—DESCRIPTIVENESS—"NE LINE."
The notation "Ne Line," applied to full length hosiery *Held*, as it is pronounced, to be descriptive of hosiery of knee length, or hosiery, the tops of which extend to the knee; and hence *Held* not registrable under the Trade-Mark Act of February 20, 1905.

2. SAME—SAME—SAME.
"Whether or not the term 'knee line' is in current use, or has ever been used, in the hosiery trade is immaterial. The question is, does appellant's mark indicate to purchasers of hosiery origin of the goods? If it does not, and merely indicates the length of hosiery, it is not registrable."

APPEAL from the Patent Office. Affirmed.

Mr. Raymond J. Mawhinney for Archer Hosiery Mills.

Mr. W. W. Cochran (*Mr. R. F. Whitehead* of counsel) for the Commissioner of Patents.

LENROOT, *J.:*

This appeal brings before us for review a decision of the Commissioner of Patents affirming a decision of the Examiner of Trade-Marks rejecting appellant's application for the registration of an alleged trade-mark under the Trade-Mark Act of February 20, 1905.

The mark in question consists of the notation "Ne Line" for use in "full length hosiery."

The ground of rejection was that the mark is descriptive or misdescriptive of the goods to which it is applied in that it indicates that the hosiery is of knee length.

The Examiner stated:

The term "knee line" may not be in current use as is the expression "waistline", but its meaning is just as understandable. What else could a knee line hose be except one that reached to the knee?
The equivalence of phonetic spelling to authorized spelling is too well established to require citation of authorities that "ne" and "knee" are phonetically the same has not been challenged by the applicant. It is believed that "ne line" is descriptive whether one is speaking of knee length hose or of a knee length line of hose.
It is believed that registration is properly refused.

The Commissioner in his decision stated:

I agree with the Examiner that the word "Ne" would be considered by the purchasing public of hosiery to be a mere misspelling of the word "knee," and the entire expression to have the same meaning as the expression "line of the knee" would have, and to designate the region of the knee. It seems to me that purchasers of hosiery, seeing or hearing the words "Ne Line" applied to those goods, would believe the expression described the hosiery as being knee length. Accordingly, I deem the expression descriptive of knee length hosiery and misdescriptive of hosiery that is not knee length. The fact that hosiery not of knee length is named in the application as the goods to which the mark is applied does not warrant granting the registration. *In re Bonide Chemical Company, Inc.*, 18 C. C. P. A. 909, 46 F.(2d) 705, 407 O. G. 4.

It is the position of appellant that anatomically there is no part of the body which is designated as the "knee line;" that the knee

"is a ball and socket joint having such a movement in connection with the knee cap as to effectively preclude the termination of any hose top anywhere on this knee cap."

This definition, as above stated by appellant, is narrower than that given by lexicographers.

In Funk & Wagnalls New Standard Dictionary (1931), the word "knee" is defined as follows:

The joint or *region about the joint* between the thigh and the leg. [Italics ours.]

The words "knee line" and the notation "Ne Line" when spoken sound exactly alike, and when pronounced a person listening could not distinguish between "knee line" and "Ne Line." Therefore, if the words "knee line" would not be registrable for hosiery, appellant's mark is not registrable.

[1] In view of the foregoing, we have no doubt that appellant's mark, as it is pronounced, is descriptive of hosiery of knee length, or hosiery, the tops of which extend to the knee, and that purchasers of hosiery hearing the notation "Ne Line" applied to hosiery would naturally conclude that it described hosiery of knee length.

[2] Whether or not the term "knee line" is in current use, or has ever been used, in the hosiery trade is immaterial. The question is, does appellant's mark indicate to purchasers of hosiery origin of the goods? If it does not, and merely indicates the length of hosiery, it is not registrable.

In the case of *Estate of P. D. Beckwith, Inc.*, v. *Commissioner of Patents*, 252 U. S. 538, 274 O. G. 613, the court stated:

It was settled long prior to the Trade-Mark Registration Act that the law would not secure to any person the exclusive use of a trade-mark consisting merely of words descriptive of the qualities, ingredients or characteristics of an article of trade. This for the reason that the function of a trade-mark is to point distinctively, either by its own meaning or by association, to the origin or ownership of the wares to which it is applied, and words merely descriptive of qualities, ingredients or characteristics, when used alone, do not do this. *Other like goods*, equal to them in all respects, *may* be manufactured or *dealt in by others* who, with equal truth, may use, and must be left free to use, the same language of description in placing their goods before the public. [Italics ours.]

So here any manufacturer of hosiery may hereafter rightfully use, in so far as the law of trademarks is concerned, the term "knee line" in describing a particular length of hosiery. Therefore, appellant has no right to secure a monopoly in the use upon hosiery of the equivalent term "Ne Line" and the decision of the Commissioner of Patents is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE ROCHMAN

No. 4750. Decided April 5, 1943

[135 F.(2d) 226]

PATENTABILITY—CLEANING DEVICE.
Claims to a cleaning device *Held* unpatentable over the prior art.

APPEAL from the Patent Office. Affirmed.

Mr. John L. Woodward (*Mr. Wilbur W. Williamson* of counsel) for Rochman.

Mr. W. W. Cochran (*Mr. E. L. Reynolds* of counsel) for the Commissioner of Patents.

JACKSON, *J.:*

This is an appeal from a decision of the Board of Appeals of the United States Patent Office affirming a decision of the Primary Examiner re-

jecting as unpatentable over the prior art all of the claims, 1, 5, and 6, of appellant's application for a patent for alleged new and useful improvements in a Cleaning Device.

Claim 5 is illustrative and reads as follows:

5. As an article of manufacture, a cleaning device consisting of an oblong rubber sponge body having all of its surfaces porous, a semi-hard live rubber panel fixed to a face of said body, and a U-shaped handle of the same type of rubber as said panel and formed as an integral part of said panel with the ends of the handle adjacent the ends and within the area of said panel.

The references cited are: Gottschalk, 692,010, January 28, 1902; Falk (British), 14,099, June 18, 1914; Pintel, 1,723,520, August 6, 1929.

The alleged invention relates to a device comprising an oblong or brick-shaped rubber sponge to one of the larger faces of which is cemented a rubber plate which is smaller than the surface to which it is joined, leaving a margin wider on the sides of the plate than on the ends. The plate is integral with a U-shaped handle. The device is quite similar in appearance to an old-fashioned scrubbing brush or flat-iron.

The Gottschalk patent relates to a cleaner for kid gloves and a process by which the cleaner is made. It discloses a device comprising an oblong section of sponge rubber with a rubber plate cemented to one of its larger sides. There is no handle to the device, and the plate is coterminous with the sponge rubber. The edges of the plate are beveled.

The Falk patent relates to a cleaning device and discloses a rubber sponge of the same form as that shown in the application, having a rubber plate with a margin around its edges cemented to one of the larger sides of the sponge. A rubber hose through which cleaning liquid may be supplied to the sponge is formed integral with the plate and communicates with a slot therein for the passage of water through the hose and slot to the sponge.

The Pintel patent relates to a holder for a body or cake of steel wool. The holder comprises a rubber pad having a U-shaped handle integral therewith.

The Primary Examiner, pointing out that claim 5 is the broadest in scope, rejected it as unpatentable over the patent to Falk taken in connection with the Pintel patent. The Examiner pointed out that the hose of the Falk patent would serve the function of a handle and that no invention would be involved in providing the device of Falk with a U-shaped handle as shown by Pintel.

Claims 1 and 6 were rejected by the Examiner as unpatentable over Falk taken in connection with the Pintel and Gottschalk patents.

The Board of Appeals in its decision held that there was nothing of an inventive nature in the claims over the reference structures; that the selective aggregation of a U-shaped handle on a semi-live hard rubber panel for the sponge is not more than an expedient; and that other features are likewise old and aggregated with features of the prior art in an obvious manner.

The sole issue here is whether or not it is obvious to one skilled in the art to construct the device of appellant in view of the references.

It will be observed that the device of the Falk patent meets every limitation of claim 5 except that a U-shaped handle is not shown. The Pintel patent discloses a U-shaped handle integral with a rubber pad-holding member, and it is clear to us that it would not involve invention to apply the U-shaped handle of the latter patent to the device of the former. Therefore in our opinion claim 5 was properly rejected on the Falk patent in view of the patent to Pintel.

Claim 1 differs from claim 5 in that it contains the limitation

"the side edges of the panel being a greater distance from the adjacent sides of the rubber sponge than are the end edges of said panel from the adjacent ends of the rubber sponge."

The patent to Falk shows greater spacing at the ends than at the sides. This matter of spacing, in our opinion, should be regarded, as was held by the Examiner, as merely a matter of choice which lends no novelty to the device. Therefore the tribunals of the Patent Office did not err in rejecting claim 1 as aforesaid.

Claim 6 adds to the structure of claim 5 the further limitation "the edges of the panel being beveled to afford greater resiliency thereto than to the balance of said panel." The Gottschalk patent discloses the beveling of the rubber plate, and this limitation cannot lend patentability to the claim.

In our opinion the structure defined by the claim results merely from selection and assembly of old features found in the prior art. There is no unusual or novel result achieved. It would require nothing more than mechanical skill to modify the Falk device in view of the other references to accord with appellant's structure.

The decision of the Board of Appeals is affirmed. Affirmed.

U. S. Court of Appeals for the District of Columbia

GEBHARD AND MEYER

v.

GENERAL MOTORS SALES CORPORATION AND CAPITOL CADILLAC COMPANY

No. 8,345. Decided April 12, 1943

1. PATENTS—VALIDITY.
   Claims 1 and 2 of the patent to Gebhard and Meyer, No. 1,903,811, for a radio antenna system *Held* invalid.
2. SAME—SAME—PUBLIC INTEREST.
   "'An invalid patent masquerading as a valid one is a public menace.' It discourages enterprise and encourages litigation. When the invalidity of a patent has been urged and clearly established in an infringement suit, the public interest is better served by a decision that the patent is invalid than by a decision that if it were valid it would not be infringed."
3. SAME—SAME—INFRINGEMENT A MINOR QUESTION.
   "When invalidity is due to lack of invention over the prior art, the question whether the patent would be infringed if it were valid is not only unimportant but practically meaningless. In order to imagine such a patent valid one must imagine the prior art to have been different in one way or another from what it was; and the particular assumption which one makes with regard to the state of the prior art will determine whether the accused device would have been an innocent adaptation of the assumed prior art or an infringement of the patent. Dicta regarding the validity of a patent must be avoided, but it does not follow that a court should dispose of an infringement suit by deciding the minor question of infringement instead of the major question of validity."

APPEAL from the District Court of the United States for the District of Columbia. Affirmed.

Mr. John B. Brady for Gebhard and Meyer.

Mr. Drury W. Cooper (*Mr. John G. Sbarbaro* of counsel) for General Motors Sales Corporation and Capitol Cadillac Company.

Before PARKER, Circuit Judge, sitting by designation, and MILLER and EDGERTON, Associate Justices

EDGERTON, *A. J.:*

Appellants sued appellees for infringement of claims 1 and 2 of appellants' Patent No. 1,903,811 for a radio antenna system. Appellants' claims, and also the accused device, consist essentially of telescopically-arranged tubular antenna sections and means for extending or retracting them.

Appellants' claim 1 is for a "radiating" antenna element, and means for controlling its "effective capacity," "in a high frequency transmission system." Their claim 2 is for "a high frequency antenna system" with "radiating" sections and means for "selectively" extending or retracting them. Appellants' specification uses the words "transmitter," "transmitting," and "transmission" many times, and never the word "receiver," "receiving," "reception," or any equivalent. It uses the terms "high frequency," "high frequencies," and "short wave" many times, and never refers to long waves or low frequencies. The district court found among other things that both of appellants' claims are limited to transmission at high frequencies, while the accused device is limited to reception at low frequencies; that radiation, which is essential in appellants' claims, is undesired and minimal in the accused device; and that appellants' claims include means for the selection of desired frequencies but the accused device does not. All these findings are supported by substantial evidence. The court concluded that the accused device does not infringe.

[1] We need not consider that question, for appellants' claims are clearly invalid for lack of invention. Telescopes and fishing rods have adjustable telescoped tubes. Claim 6 of Hammond Patent No. 1,306,145, "aerial for automobile torpedoes," is for a telescoped extensible mast "possessing electrical capacity." The specification states:

"Although I have shown [in a drawing] two masts connected by wires, it is obvious that . . . a single mast may be used either with or without wires as desired."

Nitschke Patent No. 1,070,167 is for a telescoped lifting-gear. The specification states that it

"can be employed for lifting . . . antennae for radiotelegraphy, projectors, and also as a mast for signaling purposes, phototelegraphy, and the like."

A radio engineer would understand that the mast could have electrical capacity and be used as an antenna. Siewert Patent No. 1,073,294 is for a device for extending and retracting telescoped masts and lifting apparatus. Siewert uses a screw and gears like those which appellants use for the same purpose. These facts were found by the district court and are either obvious or supported by substantial evidence. The elements of appellants' device were old and the claimed combination required little ingenuity. The references, none of which was cited in the Patent Office, overcome the presumption in favor of the validity of the issued patent.[1]

[2] [3] "An invalid patent masquerading as a valid one is a public menace."[2] It discourages enterprise and encourages litigation. When the invalidity of a patent has been urged[3] and clearly established in an infringement suit, the public interest is better served by a decision that the patent is invalid than by a decision that if it were valid it would not be infringed.[4] When invalidity is due to lack of invention over the prior art, the question whether the patent would be infringed if it were valid is not only unimportant but practically meaningless. In order to imagine such a patent valid one must imagine the prior art to have been different in one way or another from what it was; and the particular assumption which one makes with regard to the state of the prior art will determine whether the accused device would have been an innocent adaptation of the assumed prior art or an infringement of the patent. Dicta regarding the validity of a patent must be avoided,[5] but it does not follow that a court should dispose of an infringement suit by deciding the minor question of infringement instead of the major question of validity.

Affirmed.

[1] Cf. *Cutler Mail Chute Co.* v. *Capitol Mail Chute Corp.*, 118 F.(2d) 63, 64 (C. C. A. 2d), cert. denied, 313 U. S. 580.

[2] FRANK, *J.*, concurring, in *Aero Spark Plug Co.* v. *B. G. Corporation*, 130 F.(2d) 290, 294 (C. C. A. 2d). Cf. BLACK, *J.*, dissenting, in *Exhibit Supply Co.* v. *Ace Patents Corp.*, 537 O. G. 493, 315 U. S. 126, 137.

[3] Cf. *Exhibit Supply Co.* v. *Ace Patents Corp.*, 537 O. G. 493, 315 U. S. 126.

[4] Note 2, supra. Cf. *Cutler Mail Chute Co.* v. *Capitol Mail Chute Corp.*, supra note 1; *Radtke Patents Corp.* v. *Coe*, 535 O. G. 3, 74 App. D. C. 251, 122 F.(2d) 937. But cf. *Irvin* v. *Buick Motor Co.*, 88 F.(2d) 947, 951 (C. C. A. 8th), cert. denied, 301 U. S. 702.

[5] *Electrical Fittings Corp.* v. *Thomas & Betts Co.*, 504 O. G. 290, 307 U. S. 241.

U. S. Court of Customs and Patent Appeals

IN RE NELSON

No. 4,660. Decided February 1, 1943

[134 F.(2d) 187]

PATENTABILITY—HARDENING STEEL.
Claims 2, 12, 13, 15, 18, 23, 25, 26, and 27 of appellant's application, directed to a method of hardening steel, *Held* unpatentable over the prior art; but claim 20 thereof, directed to a method of hardening steel and testing the same for depth of hardness, *Held* patentable over the prior art.

APPEAL from the Patent Office. Modified.

Mr. Royal R. Rommel for Nelson.

Mr. W. W. Cochran for the Commissioner of Patents.

HATFIELD, *J.:*

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming the decision of the Primary Examiner rejecting all of the claims (Nos. 2, 12, 13, 15, 18, 20, 23, 25, 26, and 27) in appellant's application for a patent for an alleged invention relating to a method of hardening the inner wall of pump liners, cylinders, and like articles.

Claims 12, 13, 18, 20, and 27 are illustrative of the appealed claims. They read:

12. The method of hardening steel articles which consists in heating the steel to above its critical hardening temperature, encasing the portion of the steel article

which is to be hardened to a less degree than other portions of the steel article in an insulated covering, supplying quenching medium to the article while thus heated in sufficient volume to rapidly cool the exposed portions of the article which it is desired to harden, over a period of time, to harden the article to the desired depth, and subsequently appreciably slowing up on the supply of quenching medium distributed upon the article so as to bring the portion of the article which is covered by insulation thru the critical range more slowly than the portions hardened by the initial quenching action and to prevent latent heat from by insulated area from running back into the hardened area.

13. The method of hardening steel which consists in heating the same to above its critical hardening temperature, subjecting the thus heated metal to the action of a quenching medium over a predetermined time period so as to harden the metal to a desired depth, and subsequently slowing up the cooling effect of the quenching medium and continuing it over a period of time greater than the time consumed for the initial quenching action.

18. The method of hardening steel cylinders, such as pump liners, which consists in heating the cylinder uniformly to a point above its critical hardening temperature, encasing a surface of the cylinder, either inside or outside, which it is desired not to harden to as great a degree as the other surface, in a heat insulating jacket, rotating the cylinder and its jacket, and during rotation of the cylinder spray quenching the exposed surface of the rotating cylinder while the cylinder is heated as aforesaid in order to harden the inner wall surface of the tube to the point of maximum hardness of which the steel is capable, and then continuing the quenching to a point where the tube is cooled so that latent heat from the tube adjacent the heat insulating material cannot run back to destroy the initial hardness of the inner wall surface of the tube.

20. The method of hardening steel and testing the same for depth of hardness which consists in heating a piece of steel to a temperature above its critical hardening temperature, quenching the steel so as to harden the same at a desired area, fracturing the steel so as to obtain a cross section of the steel, and tempering this fractured section so that at the fracture the steel will develop at the fracture one color throughout the portion of greatest hardness and a contrasting color throughout the remaining portion of the fractured section.

27. The method of hardening steel articles which consist in heating the same to a point above its critical hardening temperature, and while so heated encasing the portion of the article which is not to be hardened in an insulation jacket, subsequently and while the article is still heated to a point above its critical hardening temperature simultaneously spray quenching the entire exposed surface of the heated steel article under predetermined volumetric control of the spray quenching medium and over a period of time to give the article through a desired thickness on the exposed quenched surface a martensitic structure having a Brinell hardness about 500 Brinell; and subsequently spray quenching the exposed surfaces of the article at a reduced volumetric control and over a longer period of time than the initial spray quenching operation to produce in the intermediate wall thickness of the article a troostitic-sorbitic structure having a Brinell hardness of over 300 Brinell, and a wall thickness on the surface which is insulated having a pearlitic structure in the neighborhood of 250 Brinell.

The references are: Maxim, 446,532, February 17, 1891; Sampson et al., 539,010, May 7, 1895; Hansen, 871,932, November 26, 1907; Sandberg et al. (British), 183,267, July 26, 1922; Gray, 1,688,705, October 23, 1928.

The purpose of appellant's process is to provide a pump liner or other tubular article composed of steel, the interior of which is subject to wear and abrasion, with an inner wall surface having a maximum degree of hardness of which the steel is capable, an annealed outer wall surface which is relatively soft and, therefore, machineable, and an intermediate portion having a gradually decreasing degree of hardness extending from the hardened inner wall surface to the annealed outer wall surface.

In carrying out the process defined by the appealed claims, the steel pump liner is uniformly heated to above the critical hardening temperature of the particular type of steel of which it is composed. It is then encased in a refractory jacket composed of suitable insulating material, and the inner wall surface sprayed with a cooling medium while the liner and its insulating jacket are rotated upon a horizontal axis. The spraying continues for a predetermined period to harden the inner wall surface to the desired degree and depth. The volume of the cooling medium is then appreciably reduced to retard the cooling action, and the slower cooling operation is continued for a sufficient period to cool the outer portion of the liner gradually and prevent latent heat in such portion from traveling inwardly and destroying the initial hardness of the inner wall surface.

The patent to Maxim relates to a process and an apparatus for hardening the inner surface of the bore of a gun and toughening the metal around the bore. The gun barrel is supported in a vertical position upon a rotatable platform in a furnace, and is rotated during both the heating and cooling processes. The patentee states that after the barrel has been heated to the proper temperature, a cooling fluid, such as oil,

"is forced suddenly and with great violence into and through the heated gun barrel,"

that the oil

"flows through the barrel very rapidly at first and more slowly afterward as the pressure in the accumulator diminishes" and "not only hardens the interior surface"

of the barrel,

"but the cooling of the inside of the barrel before the outside is allowed to cool causes the outer layers or portions of the barrel to shrink upon the interior layers or portions thereof with great force, setting up practically the same stresses in the mass that are set up by the various rings or hoops in a built-up gun, the exterior of the gun being in a state of tension, while the inside is in a high state of compression."

The patentee further states that in his process the exterior of the gun barrel is subjected to heat while the cooling medium is applied to the bore of the barrel.

The material difference between the patentee Maxim's process and the process defined by the appealed claims is that in the patentee's process the outer portion of the gun barrel is subjected to heat while the bore of the barrel is quickly and then more slowly cooled, whereas in appellant's process, heat is not applied to the outer surface portion of the pump liner during the cooling of the inner wall, but, on the contrary, the heat in the outer portion is temporarily retained by means of an insulating jacket and is dissipated gradually by the application of the cooling medium to the inner wall surface.

The patent to Sampson et al. relates to the manufacture of face hardened armor. The patentees disclose a process of hardening certain portions of armor plate and annealing other portions. In the patentees' process, those portions of heated armor plate which it is desired to harden are sprayed with a cooling medium, and those portions which it is desired to anneal are protected with asbestos boards of appropriate shape to prevent contact with the cooling medium and rapid radiation of the heat from such portions. There is nothing in the patent to indicate that the cooling medium is applied for a sufficient length of time to prevent the flow of heat from the unquenched portions into the quenched portions of the plate.

The patent to Hansen relates to a process of tempering and annealing car wheels. The purpose of the patentee's process is to harden the tread face of the car wheel, and, at the same time, anneal the inner portion of the tread and the hub and web portions so that such annealed portions will be soft and tough. In his process, the patentee's wheel is heated and then enclosed within a suitable case having a heat-retaining chamber and a cooling chamber. The heat-retaining chamber is insulated by means of refractory members and encloses the inner portion of the tread and the hub and web portions of the wheel. The outer or face portion of the tread extends into the cooling chamber where it is sprayed with a cooling medium, such as water. The heat in the hub and web portions and in the inner portion of the tread is dissipated slowly. The patentee states that the spraying of the cooling medium against the face of the tread continues "during all or only a portion of the time of the cooling of the" other portions of the wheel.

The patent to Sandberg et al. relates to a method of hardening the internal surface of steel cylinders. In the patentees' method, a cylinder, such as a gun barrel, is heated to a temperature above the critical range. It is then rotated upon a horizontal axis and the bore thereof rapidly cooled by a cooling medium, such as air and atomized water. The patentees state that "the rate of cooling through the critical range" is "insufficiently rapid to produce hard or martensitic structure in any part of the cylinder." They also state that the "supply of air and water can be so regulated as to produce any desired rate of cooling." In the patentees' process, the outer portion of the gun barrel is permitted to cool gradually. It is not, however, in contact with insulating material as is the outer portion of the cylinder in appellant's method or as are the hub and web portions of the car wheel in the Hansen reference. It is stated in the patent that—

It is known that by cooling the interior of a heated hollow cylinder more rapidly than the exterior, the former assumes a high state of compression and the latter a high state of tension, this condition being that in which the cylinder is best adapted for resisting high internal pressure. This result is due to the difference in the rate of thermal contraction due to the different rate of cooling.

After describing a method of determining the stress measurements of a cylinder composed of a certain type of steel treated by their method, the patentees state:

In addition to the stress measurements Brinell impression tests showed that the hardness after treatment varied from approximately 190 Brinell on the interior to 160 Brinell on the exterior, an increase of 30 points.

Microscopical examination showed a *partly sorbitic structure in the interior, and a normal pearlitic structure in the exterior.* Increase in the rate of cooling of the cylinder would have *increased the value of the stresses and also the hardness of the internal metal.* These two changes can however be varied independently of one another by varying the temperature at which more rapid cooling of the interior is stopped and by the regulation of the subsequent cooling of the cylinder as a whole. [Italics ours.]

It is evident from the disclosure in the Sandberg et al. patent that by regulating the rate and extent of cooling, the patentees obtained by their method a partly sorbitic structure on the interior of their cylinder, rather than a martensitic structure as stated in the decision of the Board of Appeals, and a pearlitic structure on the exterior, a result which they apparently desired. The patentees state, however, that the supply of cooling medium could be so regulated as to produce any desired rate of cooling; that by increasing the rate of cooling, the hardness of the inner surface of the cylinder and the "value of the stresses" would be increased; and that those "two changes" could be brought about "independently of one another" by varying the rate of cooling of the inner surface and regulating the "cooling of the cylinder as a whole."

The patent to Gray discloses a method of heat-treating the threaded end portion and an adjacent portion of a sucker rod. By the patentee's method, those portions of a sucker rod are heated to from 1400° to 1600° F. The threaded portion is then rapidly cooled for about thirty seconds by a cooling medium, such as oil. It is then removed from the cooling medium, and the heat from the uncooled portion is permitted to flow into the cooled portion. In this connection, the patentee states that the temperature at which the cooled portion is thus reheated is determined by the temperature at which the cooled and uncooled portions of the sucker rod "reach a temperature equilibrium." He further states that

"After the quenching, the whole rod is merely laid out in the atmosphere, the quenched portion is re-heated to equilibrium temperature and the whole rod then cools down to normal temperature,"

and that by varying the speed and the period of time "of quench" and regulating the flow of the quenching medium, the flow of heat from the unquenched into the quenched portion can be regulated and controlled.

Claims 2, 12, 15, 18, and 23 were rejected by the Primary Examiner on the patents to Maxim, Sampson et al., and Hansen, in view of the patent to Sandberg et al., the Examiner stating that the patents to Maxim, Sampson et al., and Hansen disclose the hardening of one portion of an article by quenching, and the annealing of the other portion by permitting it to cool slowly, and that the patent to Sandberg et al. discloses the idea of cooling the interior or bore of a cylinder at a more rapid rate than the exterior. The Examiner pointed out that the rotation of an article during treatment was disclosed in the patents to Maxim and Sandberg et al., and stated that

"The use of an insulating means [such as appellant's insulating jacket] is deemed the full equivalent of the means used by Maxim to prevent a quick cooling and hardening of the exterior of the liner. The cooling medium in Maxim is forced through the tube at a fast rate at first to produce a quick quench and then the rate of flow of the quenching medium is reduced and provides slower cooling as in applicant's case."

The Examiner also stated that the patent to Hansen

"solved the same problem in a like manner by the use of insulation to retain the heat in the portion desired soft and machineable."

Claim 25, which is similar to quoted claim 18, was

rejected by the Primary Examiner on the patents to Sandberg et al., Gray, and Maxim.

Claim 26, which is similar to quoted claim 12, and claim 27 were apparently rejected by the Examiner on the patents to Maxim, Hansen, Sampson et al., Sandberg et al., and Gray.

With reference to claim 27, the Examiner stated that the "hardness recited" in that claim was "within the range of hardness usually produced in the prior art."

The Board of Appeals was of opinion that claims 2, 12, 15, 18, 23, 25, and 26 were unpatentable over the disclosure in the Maxim patent, in view of the disclosure in the patent to Sandberg et al. It placed very little reliance on the patents to Sampson et al. and Hansen, stating that they were not as close as the Maxim patent and were "mainly cumulative." The Board further stated that claim 13 reads "in all substantial respects directly on the Gray patent."

Claim 20 was rejected by the Board for reasons hereinafter stated.

In its discussion of the appealed claims, the Board did not specifically refer to claim 27. However, as it affirmed the decision of the Primary Examiner rejecting all of the appealed claims, we assume that it approved of the rejection of that claim for the reasons stated by the Examiner. *In re Wagenhorst*, 433 O. G. 223, 20 C. C. P. A. (Patents) 991, 64 F.(2d) 780.

As hereinbefore noted, the patent to Maxim discloses the heating of the exterior wall of the gun barrel while the cooling medium is being rapidly and then slowly applied to the surface of the bore of the barrel. The patentee, of course, must have had in mind, although he did not so state, that the heating of the exterior of the gun barrel would eventually be discontinued. He does not, in our opinion, suggest the use of an insulating material to retain the heat in the exterior wall of the gun barrel. However, the patent to Hansen clearly discloses the idea of heating a steel article, insulating that portion of the article which it is desired to anneal, and quenching that portion which it is desired to harden. A similar idea is disclosed in the patent to Sampson et al. It is true that neither Hansen nor Sampson et al. was concerned with the treatment of pump liners, gun barrels, or other cylinders. However, the patent to Sandberg et al. relates to the heat treatment of cylinders while the same are being rotated on a horizontal axis, and, although it does not suggest the idea of insulating the exterior walls of the cylinders for the purpose of retaining the heat for a longer period of time as does appellant, the suggestion of the use of an insulating material is clearly disclosed in the patents to Hansen and Sampson et al. Although Sandberg et al. do not expressly state that in order to secure a hard or martensitic structure in the interior of the cylinder, heat from the exterior should be prevented from flowing into the interior, that thought is plainly suggested in the patent to Gray, and it would seem to be obvious from what is taught in the Sandberg et al. patent that if it was desired to secure a hardened or martensitic interior surface, the heat from the exterior could, and should, be prevented from flowing into the hardened interior surface of the cylinder by continuing the application of the quenching medium for a predetermined period of time.

We are in agreement with the argument presented here by counsel for appellant that the disclosure in the patent to Maxim is not as pertinent to the issues here presented as the decisions of the tribunals of the Patent Office would seem to indicate. We are of opinion, however, for the reasons hereinbefore stated, that claims 2, 12, 15, 18, 23, 25, 26, and 27 do not define patentable subject matter, and that the tribunals of the Patent Office were right in rejecting them on the prior art cited. In so holding, it should be understood that we have given full consideration to the statements contained in appellant's affidavit of record.

Claim 13, which is broader than the other appealed claims, calls broadly for heating a steel article to above its critical hardening temperature, quenching the heated metal for a predetermined period of time so as to harden it to the desired depth, "slowing up the cooling effect of the quenching medium," and continuing the slower cooling over a period of time greater than the initial quenching period.

Claim 13 was rejected by the Primary Examiner on the patent to Gray, the Examiner stating that it was old, as disclosed in that patent, to "vary the cooling effect of the quenching medium during the quench," and that it would not involve invention "to continue the reduced cooling effect for a particular time." The Examiner further stated that if it was desired to prevent the heat from the unhardened portion flowing into the hardened portion, it would be obvious that this could be accomplished by continuing the reduced cooling quench for a longer period of time.

The Board of Appeals concurred in the views expressed by the Primary Examiner as to claim 13.

The patent to Gray, as hereinbefore noted, clearly discloses the idea of varying the speed "of quench" by varying the flow of the cooling medium, and, although the patentee desired that the heat from the unquenched portion of the sucker rod flow into the quenched portion, it is stated in the patent that the flow of heat from the unquenched portion into the quenched portion could be regulated and controlled by regulating the speed of the quenching operation.

We are of opinion, therefore, that claim 13 was properly rejected by the tribunals of the Patent Office on the disclosure in the patent to Gray.

Claim 20 was rejected by the Primary Examiner on the patent to Sandberg et al., the Examiner stating:

> It is well recognized in the art that the different degrees of hardness produced on quenching produces a difference in the microstructure of the metal treated. This structure may be seen in many cases by the naked eye and in other cases by the aid of a microscope and to oxidize the same (draw or temper the hardened article) to make some of the structure noticeable by difference in color is not deemed invention and especially so as tempering is old in the art.

With reference to claim 20, the Board said:

> This claim involves quenching steel to harden it, fracturing it, and then tempering the fractured portion. It seems to us that it would be an obvious modification to fracture the steel in this [the Sandberg et al.] patent to obtain a view of a cross-section thereof and thereby determine, by the color of the hardened portion, how much quenching is necessary to obtain the desired product.

It will be observed that claim 20 relates to a method of hardening steel and testing the same for depth of hardness. After the steel is heated to above its critical hardening temperature, it is quenched so as to harden it at a desired area. It is then fractured so as to obtain a cross-section, and the fractured section is tempered so that, as stated in the claim,

> "the steel will develop at the fracture one color throughout the portion of greatest hardness and a contrasting color throughout the remaining portion of the fractured section."

The method of testing defined in that claim is not disclosed in any of the prior art references, and appellant states in his affidavit (filed subsequent to the final rejection of the appealed claims, but prior to the Examiner's statement to the Board) that

> "it was not known in the prior art that the depth of hardening could be accurately determined through color contrast in a hardened steel article by fracturing a section of the steel article, and then tempering the fractured portion at any particular temper,"

and that

> "Technical literature contains no reference whatsoever to such method of determining the depth hardness of steel."

Appellant further states in his affidavit that he was aware of the fact

> "that a piece of steel, hardened and later polished, and then heated in a low temperature range, say from 200 degrees to 600 degrees F., will show a temper color *uniformly* over its entire external surface due to oxidation." [Italics quoted.]

Although the Primary Examiner referred to appellant's affidavit, no reference was made to that portion relating to the process defined in claim 20.

The Board of Appeals made no reference to the affidavit.

Appellant's affidavit is consistent with the disclosure in his application of the method defined in claim 20. The only difference between the process defined in claim 20 and that which appellant concedes is old in the art is the step of reheating or tempering a fractured section of a steel article

> "so that * * * the steel will develop at the fracture one color throughout the portion of greatest hardness and a contrasting color throughout the remaining portion of the fractured section."

Appellant states in his affidavit that as a result of the prior art process the temper color of a steel article is uniform over the entire external surface, whereas as a result of appellant's process the color of the hardened portion of the fractured section of a steel article differs from that of the unhardened portion of the fractured section.

In view of the fact that the prior art cited does not disclose or suggest the process defined in claim 20, and as that portion of appellant's affidavit hereinbefore set forth was not referred to by either of the tribunals of the Patent Office, we are unable to hold, on the record presented, that that claim was properly rejected.

For the reasons stated, the decision of the Board of Appeals is modified, being affirmed so far as it held the process defined in claims 2, 12, 13, 15, 18, 23, 25, 26, and 27 to be unpatentable over the references of record, and reversed so far as it held the process defined in claim 20 to be unpatentable.

Modified.

Changes in Classification

Order No. 3,736, June 25, 1943, directs:

The following changes in the classification of inventions are hereby directed to take place immediately:

IN THE MANUAL OF CLASSIFICATION:

ABOLISH CLASS

149—HIDES, SKINS, AND LEATHER (Division 11).

ABOLISH SUBCLASSES

In *class 45, Furniture* (Division 8):

Provision safes
Evaporative
132 External
133 Internal
134 Porous wall

In *class 183, Gas Separation* (Division 32):

4 **Absorbent**

CHANGE SUBCLASS TITLES

In *class 8, Bleaching and Dyeing: Fluid Treatment and Chemical Modification of Textiles and Fibers* (Division 43), subclass 139 should read:

Treatment of textiles and fibers with chemicals and fluids
Cleaning and laundering
139 Scouring, degreasing, and bowking

In *class 167, Medicines, Poisons, and Cosmetics*, subclass 38.5 should read:

Poisons (Division 63)
Insecticides, fungicides, germicides and disinfectants
38.5 Wood, paper, hide, leather or textile saturant

In *class 294, Handling—Hand and Hoist-Line Implements* (Division 4), subclass 5.5 should read:

5.5 **Rod type supports and hangers**

ESTABLISH SUBCLASSES

In *class 8, Bleaching and Dyeing; Fluid Treatment and Chemical Modification of Textiles and Fibers* (Division 43):

Dyeing processes and compositions
Non-textiles
Skins, hair, fur and feathers
Leather
12.5 With tanning
94.10 **Treatment of hides, skins, feathers and animal tissues**
94.11 Internal tissues
94.12 Fish or reptile skins
94.13 Suede
94.14 Fur
94.15 Treatment of untanned skins or hides
94.16 Depilating
94.17 Alkaline material removal
94.18 With organic material
94.19 Tanning
94.20 With subsequent treatment
94.21 Organic material
94.22 Fat, fatty oil, fatty oil acid or salt thereof
94.23 Emulsions
94.24 With aldehyde-aromatic condensation product
94.25 With heavy metal compound
94.26 With organic material
94.27 Chromium compound
94.28 Iron compound
94.29 With aluminum compound
94.30 With vegetable extract
94.31 With cellulose liberation liquor
94.32 With vegetable extract
94.33 With organic material
Treatment of textiles and fibers with chemical and fluids
Fluid treatment (manipulative)
Special forms and forming
150.5 Hides, skins or leather

In *class 24, Buckles, Buttons, Clasps, Etc.* (Division 5):

72.7 **T-head non-gripping, fabric engaging type**

In *class 69, Leather Manufactures* (Division 11):

Articles and processes
22 Fur
Machines
(To follow subclass 14)
23 Fur treatment
24 Coarse hair removing
25 Clipping
26 Plucking
27 Fur orienting or smoothing
28 With fluid
29 Fluid treating apparatus
30 Rotary drum
31 Liquor agitation
32 With hide, skin or leather moving means
33 Hide folding, flexing, suppling or crumpling
34 Staking
35 Boarding
36 Band type knife
37 Rotary tool
38 With tool grinder or cleaner
39 Rotating about vertical axis, horizontal work support
40 With additional translating motion during treatment
41 Belt type work support
42 Cylinder work support
43 Smooth roll only
44 Moving work support
45 Pivoted tool
46 Translating tool
47 Moving work support
48 Presses

In *class 183, Gas Separation* (Division 32):

4 **Solid absorbent type**
4.1 Automatic control
4.2 Fluid current or gravity flow type
4.3 Plural operations
4.4 Combined
4.5 With regeneration
4.6 Movable
4.7 Plural fixed units
4.8 Separate unitary elements
Processes
114.2 Using solid absorbent

In *class 200, Electricity—Circuit Makers and Breakers* (Division 37):

Fluid pressure
81.5 With plural operators

In *class 252, Compositions:*

8.57 **Leather or fur** (Division 64)

In *class 257, Heat Exchange:*

Chamber (Division 32)
17.5 Subterranean type with elevator

In *class 312, Supports, Cabinet Structures* (Division 8):

With gas or vapor treatment of material
31.01 By wetted surface exposed to material chamber and continuously contacted by unconfined gas
31.02 Knockdown
31.03 Moistened chamber wall
31.04 Of porous mass only
31.05 Of porous fabric sheet only
31.06 Liquid downflow with bottom gutter

IN THE DEFINITIONS:

8, Bleaching and dyeing; Fluid Treatment and Chemical Modification of Textiles and Fibres (Division 43)

in the main class definition, after IV*a* add:

V. Treatment of hides, skins, feathers and animal tissues with chemicals and fluids (subclass 94.10 and the indented subclasses).;

in subclass 1, note (3), cancel "149, Hides, Skins, and Leather", and substitute *69, Leather Manufactures*;

in subclass 10, note (1), cancel the last sentence,

and in note (2), cancel "149, Hides, Skins, and Leather, subclass 27.5", and substitute *69, Leather Manufactures, subclass 28*;

in subclass 12, cancel note (2) and substitute:

(2) Note.—See class 106, COMPOSITIONS, COATING OR PLASTIC, appropriate subclasses, particularly subclass 3 and indented subclasses, for leather coating and polishing compositions.;

and establish the following subclass definitions:

12.5. Processes under subclass 12 for dyeing and tanning leather, hides, and skins.

(1) Note.—The dyeing and tanning action may be accomplished by the use of a single compound having both effects or by means of a combination of a dye and a tanning agent used together or in any sequence.

(2) Note.—For the definition of tanning, see note (1) to the definition of subclass 94.19.

Search Classes—

68—TEXTILES, FLUID TREATING APPARATUS, for apparatus used in carrying out fluid treatments of textiles.

69—LEATHER MANUFACTURES, subclass 29 and indented subclasses, for apparatus used in carrying out tanning processes.

94.10. Processes of treating hides, skins, feathers, and other animal tissues with chemicals or fluids and the resulting products not otherwise provided for.

(1) Note.—This and indented subclasses also include the compositions used in the processes provided for and the resulting product unless otherwise provided for.

(2) Note.—For compositions of matter including hides, skins, feathers, or animal tissues, see the appropriate composition class, particularly class 71, CHEMISTRY, FERTILIZERS, subclass 18; class 106, COMPOSITIONS, COATING OR PLASTIC, subclasses 155 and 156; class 260, CHEMISTRY, CARBON COMPOUNDS, subclasses 6 and indented subclasses and 748.

(3) Note.—Class 34, DRYING AND GAS OR VAPOR CONTACT WITH SOLIDS, subclass 2, is the generic class for the treatment of feathers and will take all treatments of feathers not otherwise provided for. The line between class 34, subclass 2 and this subclass is as follows: class 34, subclass 2 takes (1) the drying of feathers, (2) non-reactive gas or vapor contact of feathers and (3) any other treatment of feathers not elsewhere provided for; this subclass takes the treatment of feathers with chemicals or fluids except (1) and (2) above. See the notes to class 34, subclass 2, for feather treatments provided elsewhere.

(4) Note.—Apparatus used in carrying out the processes of this and indented subclasses are in class 69, LEATHER MANUFACTURES, subclasses 28 and 29 and indented subclasses, unless more specifically provided for elsewhere.

Search this class, subclasses—

10—and indented subclasses, for the dyeing of hides, hair, furs and feathers.

110—for the bleaching of hides, skins, feathers, and animal tissues.

137—and indented subclasses, and 147, and indented subclasses, for washing, cleaning, and manipulative processes of treating furs, skins and leather with a chemical or fluid.

Search Classes—

17—BUTCHERING, appropriate subclass, for removal of feathers or hair, skinning, etc., to prepare a carcass for food.

27—UNDERTAKING, appropriate subclasses, particularly subclass 22, for the treatment of dead bodies of persons for preparation for burial.

34—DRYING AND GAS OR VAPOR CONTACT WITH SOLIDS, subclass 2 (see note 3).

35—EDUCATION, subclass 20, for processes of preparation of biological specimens, and taxidermy and compositions used in such processes.

69—LEATHER MANUFACTURES, subclasses 21 and 22, for processes of treating hides, skins, fur or leather which do not involve the use of chemicals or a fluid, and are not more specifically provided for elsewhere and for processes of fluid treatment combined with some other mechanical working or non-fluid treatment of leather.

71—CHEMISTRY, FERTILIZERS, subclass 18 (see note 2).

106—COMPOSITIONS, COATING OR PLASTIC, appropriate subclass and the notes thereto for compositions for coating of hides, skins, feathers, or animal tissues which form adherent fibers upon the base coated. Coating compositions which react with the hides, skins, feathers, or animal tissues coated are classified in this or indented subclasses (see note 2).

117—COATING: PROCESSES AND MISCELLANEOUS PRODUCTS, appropriate subclasses, particularly subclass 142, for processes of coating a hide, skin, feathers and animal tissues, which result in the production of a solid, adherent skin coating on the base. This and indented subclasses takes the treating of hides, skins, feathers, and animal tissues with coating materials which are capable of forming skin coatings, where the coating material is not used in such amounts as to produce a skin coating but only to impregnate the hides, skins, feathers, or animal tissues. Those processes of coating or treating of hides, skins, feathers or animal tissues, for the purpose of water proofing the same, are considered to be coating processes for class 117. Class 117 also takes non-reactive fluid treatment of hides, skins, feathers, or animal tissues combined with coating, but reactive fluid treatments or tanning, combined with coating, are in this subclass (94.10) or indented subclasses.

195—CHEMISTRY, FERMENTATION, appropriate subclasses, particularly subclass 6, for processes of treating hides, skins, feathers and animal tissues that include fermentative action and products of such processes not otherwise provided for.

204—CHEMISTRY, ELECTRICAL AND WAVE ENERGY, subclass 135, for the treatment of hides and skins involving electrolysis.

252—COMPOSITIONS, subclass 8.57, for compositions for treating tanned hides and skins and for treating furs.

260—CHEMISTRY, CARBON COMPOUNDS, appropriate subclasses, for new carbon compounds and processes of preparing them, even though claimed as hide, skin, leather, feather, or animal tissue treating agents (see note 2).

94.11. Processes under subclass 94.10, for the treatment of subcutaneous or internal tissues of animals, fowls, fish, or reptiles.

(1) Note.—Many of the patents in this subclass are directed to methods for the production of sutures, tennis racquet strings and the like, from gut.

Search Classes—

99—FOODS AND BEVERAGES, subclass 175, for sausage casings made from internal tissues and methods of making the same.

128—SURGERY, subclass 335.5, for surgical sutures and ligatures.

94.12. Processes under subclass 94.10, for the treatment of fish or reptile skins.

94.13. Processes under subclass 94.10 directed to the production of suede leather.

(1) Note.—By "suede" is meant leather in which the grain or outermost surface has been removed leaving a surface having small free fibers projecting therefrom.

Search Class—

69—LEATHER MANUFACTURES, subclass 9, and indented subclasses, for apparatus for, and subclass 21, for process of, skiving and splitting leather.

94.14. Processes under subclass 94.10 directed to the treatment of fur.

(1) Note.—"Fur", as used herein, means the soft fine fibrous coat covering the skins of many animals and commonly known as fur as distinguished from hair.

(2) Note.—Fluid treatments of hides and skins having the fur thereon are not classified in this subclass, unless the treatment is for the purpose of treating of the fur fibers itself. For the fluid treatment of furred skins, such as tanning, etc., which are not for the purpose of treating the fur fiber itself, see the appropriate subclasses below.

Search this class, subclasses—

10 and **11**—for the dyeing of furs.

112—for the improving of the felting properties (i. e. carroting).

128—for the chemical modification of animal fibers which are in the free state, i. e., detached from the skin upon which they occur, or of fabrics made from such fibers.

137—and indented subclasses, and 147, and indented subclasses, for the washing and cleaning of furs.

Search Class—

117—COATING: PROCESSES AND MISCELLANEOUS PRODUCTS, subclass 141 for coating processes applied to fur.

94.15. Processes under subclass 94.10 directed to the treatment of untanned skins or hides.

(1) Note.—Processes of tanning hides and skins, and treatment with materials which chemically react with the hide are not here included unless combined with some other fluid treatment of the untanned hide, or skin, provided for in this subclass or indented subclasses. For tanning processes, see this class, subclass 94.19 and indented subclasses.

(2) Note.—Processes included herein may be preparatory to or combined with the subsequent step of tanning the hide or skin. Such combined processes are cross referenced below in the appropriate subclass for the tanning step if desired.

Combination of a significant tanning step and a step preparatory thereto, such as dehairing, bating, etc., wherein the preparatory step is broadly included or no significant aspects or characteristics of the preparatory step are set forth in the claims are classified below on the basis of the tanning step.

Search Class—

167—MEDICINES, POISONS, AND COSMETICS, subclass 38.5 and indented subclasses, for insecticidal, fungicidal, germicidal, and disinfectant compositions for use as hide or skin saturant.

94.16. Processes under subclass 94.15, for treating a hide or skin for the purpose of removing the hair therefrom.

Search Classes—

17—BUTCHERING, appropriate subclass, for apparatus, processes and compositions used in removing feathers and hair from fowls and animals in the preparation of the carcasses for food.

19—TEXTILES, FIBER PREPARATION, subclass 2 and indented subclasses, for the mechanical liberation of animal fibers from their source for the purpose of preparing the fibers for textile use.

27—UNDERTAKING, for the removal of hair from dead bodies.

30—CUTLERY, subclass 32, for processes of removing hair from the skin of humans or animals by cutting action (e. g., shaving).

51—ABRADING, appropriate subclasses, particularly subclasses 185 and 186, for the removal of hair by abrasion.

128—SURGERY, subclasses 303.18 and 303.19.

132—TOILET, for processes and apparatus, for the removal of hair from the living body.

167—MEDICINES, POISONS, AND COSMETICS, subclass 89, for depilating compositions intended for use on the living human body.

195—CHEMISTRY, FERMENTATION, subclass 6, for depilating compositions and processes involving fermentation.

94.17. Processes under subclass 94.15, for the treatment of hides and skins, for the purpose of removing or neutralizing the alkaline material therefrom.

(1) Note.—Most of the patents in this subclass are directed to the removal or neutralization of lime or other alkaline material used in the depilating process.

Search Classes—

195—CHEMISTRY, FERMENTATION, subclass 6, for "bating" or other treatments of hides for removal of lime or other alkaline material by processes involving fermentation and the composition used in such processes.

252—COMPOSITIONS, subclass 193, for alkali or base bindant containing compositions.

94.18. Processes under subclass 94.15, for the treatment of hides and skins in which an organic material is employed.

(1) Note.—The term "organic material" as used herein means a material within the main class definition of class 260, CHEMISTRY, CARBON COMPOUNDS.

94.19. Processes under subclass 94.10, directed to the tanning of hides and skins to produce leather.

(1) Note.—The term "tanning" as used means the chemical reaction of the protein of the hide or skin with another material to produce an insoluble compound, includes all such reaction, such as with alum, commonly known as "tawing".

Search this class, subclass—

12.5—for tanning combined with dyeing.

Search Class—

260—CHEMISTRY, CARBON COMPOUNDS, appropriate subclasses, particularly subclasses 49, 473.5, and 473.6, for tanning materials which are new chemical compounds, reaction products, or extracts.

94.20. Processes under subclass 94.19, including a significant treatment of the tanned hide or skin subsequent to the tanning.

(1) Note.—This subclass includes process of tanning combined with a subsequent fluid treatment of the leather as well as a fluid treatment of leather per se where not otherwise provided for.

Search this class, subclasses—

11, 12, and **13**—for the dyeing of leather.

101—and indented subclasses, for the bleaching of leather.

Search Classes—

69—LEATHER MANUFACTURES, subclass 21, for processes of treating and working leather not involving a treatment with a fluid, and non-reactive fluid treatment combined with the mechanical working or non-fluid treatment of leather.

117—COATING: PROCESSES AND MISCELLANEOUS PRODUCTS, particularly subclasses 11, 15, 28, 44, 55, 76, 80, 83, 86, 90, and 142, for processes of coating leather. The line between class 117 and this class with respect to the treatment of leather with fluids and chemicals is as follows: class 117 takes the treatment of leather which results in the production of a solid, adherent skin coating on the leather; this and the indented subclasses takes (1) treatment with a material which chemically reacts with the leather treated and (2) treatment with non-reactive fluids which do not result in the production of a solid, adherent skin coating. This, and indented subclasses include the treatment of leather with materials which are capable of forming skin coatings when the materials are not used in such amounts as to produce a skin coating but only to impregnate or become absorbed in the leather. Class 117 also takes combinations of fluid treatments of hides, skins, or leather combined with the subsequent coating of the leather except where the said fluid treatment results in the chemical modification of the hide, skin, or leather (e. g., tanning).

252—COMPOSITIONS, subclass 8.57 and the notes thereto, for compositions used in treating leather.

94.21. Processes under subclass 94.20 in which the subsequent treatment of the leather includes the use of an organic material.
(1) Note.—See note (1) to the definition of subclass 94.18.

94.22. Processes under subclass 94.21 in which the subsequent treatment of the leather includes the use of a fat, fatty oil, fatty oil acid or salt thereof.
(1) Note.—Many of the patents in this subclass are for the stuffing of leather.

94.23. Processes under subclass 94.22 in which the subsequent treatment of the leather includes the use of an emulsion containing fat, fatty oil, fatty oil acid or salt thereof.
(1) Note.—Processes of fat liquoring leather are found herein.

94.24. Processes of tanning under subclass 94.19 in which the tanning agent used contains condensation product of an aldehyde and an aromatic compound.
(1) Note.—The use of the materials known as "syntans" are classified herein.
Search Class—
260—CHEMISTRY, CARBON COMPOUNDS, subclass 49, for sulfoxy containing reaction products of a phenol and an aldehyde which are new even though claimed as tanning agents; however, such compounds which, except for their claimed utility as tanning agents, are old, are classified in this subclass.

94.25. Processes of tanning under subclass 94.19 in which the tanning agent contains a compound of a heavy metal.
(1) Note.—The term "heavy metal" as used here means a metal having a specific gravity greater than four.

94.26. Processes of tanning under subclass 94.25 in which the tanning agent contains an organic material in addition to a heavy metal.
(1) Note.—See note (1) to the definition of subclass 94.18.
(2) Note.—The organic material may be an organic compound of the heavy metal or a mixture of an organic compound and a heavy metal compound or the organic material and heavy metal compound may be used in any sequence.

94.27. Processes of tanning under subclass 94.25 in which the heavy metal compound contains chromium.

94.28. Processes of tanning under subclass 94.25 in which the heavy metal compound contains iron.

94.29. Processes of tanning under subclass 94.19 in which the tanning agent contains a compound of aluminum.
(1) Note.—In this and the indented subclass are placed processes of tanning with alum, commonly known as "tawing".

94.30. Processes of tanning under subclass 94.29 in which the tanning agent contains a vegetable extract.
Search this class, subclass—
98—for the use of a lake forming metal which may be aluminum, and a tannate for mordanting or weighting of textiles.

94.31. Processes of tanning under subclass 94.19 in which the tanning agents contain a waste liquor from a process of liberating cellulose from its natural source.
(1) Note.—This subclass includes tanning processes employing a liquor, or solution of the residue from the sulfate, sulfite, or soda process of liberating cellulose.
Search Classes—
106—COMPOSITIONS, COATING OR PLASTIC, subclass 123 and the notes thereto, for other compositions containing cellulose liberation liquors.
260—CHEMISTRY, CARBON COMPOUNDS, subclass 124, for such residues and reaction products per se.

94.32. Processes of tanning under subclass 94.19 in which the tanning agent contains a vegetable extract.
Search this class, subclass—
94.30—for tanning processes in which vegetable extracts are used with aluminum compounds.

Search Class—
260—CHEMISTRY, CARBON COMPOUNDS, subclasses 473.5 and 473.6, for vegetable tanning extracts per se and processes of making the same.

94.33. Processes of tanning under subclass 94.19 in which the tanning agent contains an organic material.
(1) Note.—See note (1) to the definition of subclass 94.18.

The patents in these subclasses have been taken from class 149, Hides, Skins, and Leather, abolished in this order.;

in subclass 112, note (1), cancel "149, Hides, Skins, and Leather, subclass 27.5" and substitute *69, Leather Manufactures, subclass 28.*;

in subclass 128, number the existing note (2) and add the following:

(1) Note.—See this class, subclass 94.14 for the chemical treatment of fur which remains attached to the hide or skin upon which it occurs.;

in subclass 132.5, note (1), first paragraph, cancel "Class 149, Hides, Skins, and Leather", and substitute *this class, subclass 94.10 and indented subclasses*, and in the second paragraph, second sentence, after "bleaching" add: *, tanning*;

in note (6), first and last paragraphs, change "91" to *117.*;

in subclass 137, note (1), change "113" to *132.5*;

in subclass 139, in the definition, after "wool", add: *, hide, skins, leather*;

in subclass 147, in the note, change "113" to *132.5*;

establish the following subclass definition:

150.5. Processes of treating hides, skins, or leather which are distinguished solely by the manner in which the hide or skin is handled or brought into contact with the treating fluid.
(1) Note.—Processes of treating the hide or skin with a specific material or reagent are classified upon the basis of the particular treatment and cross-referenced to this subclass, if desired, for any manipulative steps disclosed or claimed. See particularly this class, subclass 94.10 and the indented subclasses.
Search this class, subclass—
94.10—and indented subclasses, see note (1).
Search Class—
69—LEATHER MANUFACTURES, subclass 29 and indented subclasses, for apparatus for treating hides or skins with a fluid.

The patents in this subclass have been taken from class 149, Hides, Skins, and Leather, abolished in this order.;

and in subclass 159, add the following:

(1.5) Note.—See this class, subclass 150.5, for processes of treating hides, skins, furs, or leather by agitating or stirring the hides, skins, furs, or leather treated and the treating fluid.

15, Brushing, Scrubbing, and General Cleaning (Division 27)

in the main class definition, in the fifth paragraph, cancel "149, Hides, Skins, and Leather", and substitute *69, Leather Manufactures*, and add the following sentence: *See class 69, Leather Manufactures, appropriate subclass, for scrapers, brushes, etc., for removing flesh, hairs, etc., from a hide during the leather manufacturing operation.*

17, Butchering (Division 2)

in subclass 11.1, add the following:

Search Class—
69—LEATHER MANUFACTURES, subclass 26, for machines for plucking the coarse or water hairs from furs.

18, Plastics (Division 15)

in subclass 10, under "Search Classes", cancel the reference to "149, Hides, Skins, and Leather; subclass 23".

19, Textiles, Fiber Preparation (Division 21)

in subclass 2, cancel the second sentence of the definition.

21, Preserving, Disinfecting, and Sterilizing (Division 44)

in the main class definition, note III, cancel reference to class 149, Hides, Skins, and Leather;

in note VIII, cancel reference to "class 149, Hides, Skins, and Leather";

in note XI, cancel the reference to "class 149, Hides, Skins, and Leather, subclass 1" and add (before the reference to class 27, Undertaking):

8—BLEACHING AND DYEING; FLUID TREATMENT AND CHEMICAL MODIFICATION OF TEXTILES AND FIBERS, subclass 94.10 and indented subclasses, for the preservation of hides, skins, feathers and other animal tissues.;

and in subclass 2, cancel the note and substitute:

Search Class—
8—BLEACHING AND DYEING; FLUID TREATMENT AND CHEMICAL MODIFICATIONS OF TEXTILES AND FIBERS, subclass 94.10 and indented subclasses, particularly subclasses 94.15 and 94.18, for the preservation of hides, skins, feathers and other animal tissues.

23, Chemistry (Division 59)

in subclass 118, cancel note (2).

24, Buckles, Buttons, Clasp, Etc. (Division 5)

establish the following subclass definition:

72.7. Non-gripping type of fasteners under the main class definition for use with frames or other apparatus in the stretching of a fabric, hide, or other sheet material, having (1) a leading end (e. g., a rigid arm or flexible strand) adapted to pass through an opening in the material sheet, and (2) a trailing end (the cross-bar of the T) which trailing end is too large to pass through the opening so that when the leading end is tensioned, the cross-bar exerts a pull on the sheet material.

Search this class, subclasses—
41—for cuff holders.
67—for paper fasteners.
90—and indented subclasses, especially subclass 102, for buttons.
115—and indented subclasses, for cord and rope holders.
140—and indented subclasses, for lacing devices.
201—and indented subclasses, especially subclasses 219 and 225, for separable fasteners.
230.5—for hooks.
265—for strap-end-attaching devices.
Search Classes—
16—MISCELLANEOUS HARDWARE, subclass 4, and indented subclasses, for stretching type carpet fasteners.
26—TEXTILES, CLOTH FINISHING, subclasses 51 and indented subclasses and 54 and indented subclasses, for cloth stretching or spreading apparatus.
45—FURNITURE, subclass 24, for fabric stretching frames and subclass 89, for carpet stretchers.
69—LEATHER MANUFACTURES, subclass 1.5, for leather, canvas or other belt stretching apparatus.
91—COATING, subclass 17, for coating apparatus combined with stretching means.
140—WIREWORKING, subclass 108 and indented subclasses, for wire fabric stretching apparatus and subclass 123.5 and indented subclass for wire stretching implements.
160—CLOSURES, PARTITIONS AND PANELS, FLEXIBLE AND PORTABLE, subclasses 328 and indented subclass, for means to engage opposite edges of a fabric panel to mount and stretch the same, and subclass 372 and indented subclasses, and subclass 378, for fabric panels mounted in frames having fabric stretching features.
254—PUSHING AND PULLING IMPLEMENTS, subclass 51 and indented subclasses, for stretcher type pulling apparatus.

The patents in this subclass have been taken from class 149, Hides, Skins, and Leather, abolished in this order.

26, Textiles, Cloth Finishing (Division 21)

in the main class definition, add the following:

Due to the similarity of the shearing of fur in the finishing of a fur skin to the shearing of the surface fibers or threads of cloth, particularly that of pile fabric, the finishing of fur by shearing is included in this class, subclass 15 and indented subclasses.;

and in subclass 15, add the following notes:
(1) Note.—The shearing of fur in the finishing of fur is included in this subclass.
Search Class—
69—LEATHER MANUFACTURES, subclass 25, for the removal of the coarse or "water" hairs from furs by clipping or shearing.

29, Metal Working (Division 13)

in subclass 90, add the following note:
(3) Note.—See class 69, LEATHER MANUFACTURES, appropriate subclass, particularly subclasses 37 to 47, and 21, for machines and methods of burnishing of leather.

30, Cutlery (Division 53)

in subclass 32, note (7), cancel the reference to "class 149, Hides, Skins, and Leather, subclasses 2 and 25–27", and add: *class 8, Bleaching and Dyeing; Fluid Treatment and Chemical Modification of Textiles and Fibers, subclass 94.16, and class 69, Leather Manufactures, subclass 24 and indented subclasses*;

in subclass 123, note (5), cancel reference to "class 149, Hides, Skins, and Leather, subclasses 13 and 15";

and in subclass 129, add the following note:
(3) Note.—For fork or shovel implements with cleaning means, see class 294, HANDLING—HAND AND HOIST-LINE IMPLEMENTS, subclass 50.

31, Dairy (Division 2)

in the main class definition, note (1), in line 3, change "subclasses 71, 132–134" to *subclass 71*; and in line 7, change "45, Furniture, subclasses 132–134" to *312, Supports, Cabinet Structures, subclass 31.01 and indented subclasses.*

33, Geometrical Instruments (Division 62)

in subclass 127, in the definition, after "cord", add: *or other flexible sheet material.*

34, Drying and Gas or Vapor Contact with Solids (Division 49)

in the main class definition, note (2), cancel the reference to class 149, Hides, Skins, and Leather;

in subclass 2, in the note, in the reference to class 8, change the period (.) to a comma (,) and add the following: *and subclass 94.10 and indented subclasses. For the line between class 8, subclass 94.10 and this subclass see note (3) to that subclass.*;

in subclass 72, in note (1), change "Heating" to *When heating* and change "not included, being" to *the only gas treating means, the patent is*; and in note (7), after "Refrigeration, appropriate subclasses", insert: *and class 312, Supports, Cabinet Structures, subclass 31.01 and indented subclasses.*;

in subclass 80, in note (2), cancel the period (.) and add: *and indented subclasses*;

in subclass 96, in note (11), cancel the period (.) and add: *and indented subclasses*;

in subclass 108, in note (8), after the reference to class 68, add:

69—LEATHER MANUFACTURES, subclass 30.;

in subclass 151, note (4), cancel the reference to "class 149, Hides, Skins, and Leather, subclass 21," and substitute *69, Leather Manufactures, subclass 19*;

in subclass 153, note (5), change "drives" to *drums*;

in subclass 163, cancel note (4), and substitute:

(4) Note.—See class 69, LEATHER MANUFACTURES, subclass 19, for boards on which hides, skins, or leather is "put out" for drying.;

and in subclass 240, note (2) change "subclass" (second occurrence) to *subclasses* and add *5.5 and.*

38, Textiles, Ironing or Smoothing (Division 27)

in the main class definition, add the following note:

(4.5) Note.—See class 69, LEATHER MANUFACTURES, particularly subclasses 27 and 37 to 47 for apparatus for smoothing of fur, hides, skins, or leather.

41, Ornamentation (Division 52)

in subclass 24, under "Search Classes", cancel the reference to class 149, Hides, Skins, and Leather.

45, Furniture (Division 8)

The patents formerly contained in subclasses 132, 133, and 134, hereinbefore abolished, have been placed, for the most part, in class 34, Drying and Gas or Vapor Contact with Solids, subclass 72, and class 312, Supports, Cabinet Structures, subclass 31.01 and indented subclasses, the latter being established in this order.

51, Abrading (Division 58)

in subclass 164, in note (2), cancel the reference to class 149, Hides, Skins, and Leather, and substitute: *69, Leather Manufactures, subclass 30.*;

in subclass 247, under "Search Classes", add: *69, Leather Manufactures, subclass 38, for leather dressing rotary tools with grinding attachment where significant structure of the cutting tool is claimed.*

62, Refrigeration (Division 44)

in the main class definition, in note (3), in the reference to class 45, Furniture, cancel "means for moistening or cooling by evaporation when no refrigerator walls are disclosed and provision cabinets with", and in the reference to class 312, Supports, Cabinet Structures, add the following sentence:

For means for moistening or cooling by evaporation, see subclass 31.01 and indented subclasses and the line notes under subclass 31.01;

in subclass 73, add the following note:

Search Class—
312—SUPPORTS, CABINET STRUCTURES, subclass 31.01 and indented subclasses, for porous wall evaporative refrigerators without a separate ice chamber.;

in subclass 89, in the note, cancel "45, Furniture, subclasses 132, 133, and 134,";
in subclass 90, in note (3) cancel the reference to class 45, Furniture, and add: *312, Supports, Cabinet Structures, subclass 31.01 and indented subclasses, for porous wall evaporative refrigerators, and see the line notes under subclass 31.01*;
in subclass 91, cancel note (2);
in subclass 104, in note (2), cancel the reference to class 45, Furniture, and in subclass 168, in note (2) cancel the reference to class 45, Furniture, and add:

312—SUPPORTS, CABINET STRUCTURES, subclass 31.01 and indented subclasses, and see the line notes under subclass 31.01.

64, Machine Elements, Shafting and Flexible Shaft Couplings (Division 45)

in subclass 7, add:

(1.5) Note.—See this class, subclass 21, for head and socket type of flexible shaft couplings designed to maintain a uniform angular velocity.

68, Textiles, Fluid Treating Apparatus (Division 27)

in the main class definition, twelfth paragraph, before "cleaning", insert *apparatus for*, cancel the reference to class 149, Hides, Skins, and Leather, and substitute *class 69, Leather Manufactures, subclass 28.*;
in subclass 139, add the following note:

(1.5) Note.—See class 69, LEATHER MANUFACTURES, subclass 30, for tumbling drums used in treating hides, skins, or leather.

and in subclass 267, add the following:

(1) Note.—See class 69, LEATHER MANUFACTURES, subclass 41, for similar structure for use in treating hides, skins, or leather.

69, Leather Manufactures (Division 11)

in the main class definition, rewrite the first paragraph as follows:

This class includes: (1) leather working apparatus and processes, (2) apparatus and processes for production of leather from hides, skins, etc., (3) apparatus and processes for treating fur, (4) leather and fur articles which are not more specifically provided for.;

in the third paragraph, cancel ", or the manufacture of leather from hides, skins, etc.," and add the following:

Search Classes—
8—BLEACHING AND DYEING; FLUID TREATMENT AND CHEMICAL MODIFICATION OF TEXTILES AND FIBERS, subclass 94.10 and indented subclasses, for methods of treating hides and skins with fluids including tanning processes, and subclass 112, for carroting of fur.
19—TEXTILES, FIBER PREPARATION, subclass 2, for mechanical processes of removing the hair or fur from hides and skins for the purpose of recovering the fibers for subsequent use in a textile process.
26—TEXTILES, CLOTH FINISHING, subclass 15 and indented subclasses, for the finishing of fur by shearing.
38—TEXTILES, IRONING OR SMOOTHING, for apparatus for smoothing and ironing textiles.

45—FURNITURE, subclass 24, for leather stretching frames. See this class (69), subclass 19, for "setting out" boards on which a wet hide or skin is secured, usually by adhesion, during drying.

51—ABRADING, for the abrading of hides, skins, and leather.;

in subclass 1.5, add the following:

Search Class—
45—FURNITURE, subclass 24, for leather stretching frames, including pelt stretchers.;

in subclass 2, cancel the reference to class 149, Hides, Skins, and Leather, subclass 23.;
in subclass 19, cancel the definition and notes, and substitute the following:

19. Apparatus for holding or supporting hides, skins, and leather during the treatment or manufacture of the same.
(1) Note.—In this subclass are placed, for instance, "setting out" boards for supporting leather while it dries and "stitching horses" for saddlers or harnessmakers.
(2) Note.—Work supports which are parts of a leather working machine are classified with the complete machines of which they are parts.

Search Class—
45—FURNITURE, subclass 24, for leather stretching frames, including pelt stretchers.;

and in subclass 21, cancel the definition and notes thereto and substitute the following:

21. Processes of treating hides, skins or leather and leather articles not otherwise provided for, and combinations of such processes with the fluid treatment of hides, skins, or leather.
(1) Note.—This subclass includes various leather structures such as bindings or pipings, seams, and ornamental pieces of more or less general use in making complete articles.

Search Classes—
8—BLEACHING AND DYEING; FLUID TREATMENT AND CHEMICAL MODIFICATION OF TEXTILES AND FIBERS, subclass 94.10 and indented subclasses, and the notes thereto, for processes of treating hides, skins and leather with chemicals and fluids.
204—CHEMISTRY, ELECTRICAL AND WAVE ENERGY, subclass 135, for electrolytic processes of treating hides and skins.;

establish the following subclass definitions:

22. Processes for the treatment of fur not otherwise provided for, combinations of such processes with the fluid treatment of fur and fur articles not otherwise provided for.

Search Classes—
2—APPAREL, subclasses 65 and 66, for fur garments.
8—BLEACHING AND DYEING; FLUID TREATMENT AND CHEMICAL MODIFICATION OF TEXTILES AND FIBERS, subclasses 10, 11, and 94.14, for the dyeing of fur and the treatment of a fur with a fluid.
112—SEWING MACHINES, subclass 262 and indented subclasses, for methods of sewing fur articles.

23. Apparatus for the treatment of fur, not more specifically provided for elsewhere.
(1) Note.—For apparatus for treating a hide or leather even though the fur remains thereon, see the appropriate subclass below; this and indented subclasses taking only that apparatus directed to the treatment of the fur itself.

Search Classes—
19—TEXTILES, FIBER PREPARATION, subclass 2, for the removal of fur fibers from the hide in which the said fibers are recovered in a condition suitable for use in textile processes.
26—TEXTILES, CLOTH FINISHING, subclass 15 and indented subclasses, for the finishing of fur by shearing the fur fibers to a uniform length or to produce a decorative effect.
112—SEWING MACHINES, subclass 16 and indented subclasses, for sewing machines specialized for use on furs.

24. Apparatus under subclass 23, for removal of the coarse or "water" hairs from a fur.

Search Class—
219—ELECTRIC HEATING, subclass 29.

25. Apparatus under subclass 24, for removing the coarse or "water" hairs from a fur by clipping the hairs.

Search Classes—
26—TEXTILES, CLOTH FINISHING, subclass 15 and indented subclasses.
28—TEXTILES, subclass 66.
30—CUTLERY.

26. Apparatus under subclass 24, for removing the coarse or "water" hairs from a fur by plucking them from the fur.

Search Class—
17—BUTCHERING, subclass 11.1.

27. Apparatus under subclass 23, for the smoothing, combing, carding, or otherwise orienting the fur fiber.

Search Classes—
15—BRUSHING, SCRUBBING, AND GENERAL CLEANING, for brushing machines, brushes, wipers, et cetera of general utility.
19—TEXTILES, FIBER PREPARATION, subclass 98 and indented subclasses and subclass 115 and indented subclasses, for combing and carding machines used in preparing fibrous materials for use in textile processes.
38—TEXTILES, IRONING OR SMOOTHING, appropriate subclass, for apparatus for smoothing or ironing textile fabrics.

28. Apparatus under subclass 23, for the treatment of fur with a fluid.
(1) Note.—Many of the patents in this subclass are directed to apparatus for dyeing or carroting of fur.

(2) Note.—The tanning or other fluid treatment of hides, skins, or leather even though bearing fur, are not included in this subclass, for which see this class, subclass 29 and indented subclasses.

Search this class, subclass—
29—and indented subclasses (see note 2)

Search Classes—
8—BLEACHING AND DYEING; FLUID TREATMENT AND CHEMICAL MODIFICATION OF TEXTILES AND FIBERS, subclass 10 and indented subclasses, for processes of dyeing fur, subclass 94.14, for the fluid treatment of fur not otherwise provided for and subclass 112, for processes of carroting furs.
34—DRYING AND GAS OR VAPOR CONTACT WITH SOLIDS, appropriate subclasses, for processes and apparatus within that class definition; this subclass including such subject matter when combined with other treatments of fur not provided for in class 34.
68—TEXTILES, FLUID TREATING APPARATUS, appropriate subclass, for apparatus, for treating textiles with fluid.
167—MEDICINES, POISONS AND COSMETICS, subclass 88, for coloring of hair or fur on living animals.

29. Apparatus for the treatment of hides, skins and leather with a fluid not more specifically provided for elsewhere.
(1) Note.—Many of the patents in this subclass and indented subclasses, are directed to apparatus for tanning hides or skins.
(2) Note.—This subclass includes the fluid treatment of hides, skins or leather even though the fur remains thereon, unless there is also some treatment of the fur itself; for the latter, see this class, subclass 23 or indented subclasses, especially subclass 28.
(3) Note.—For vat or tank structure per se even though claimed as tanning vats, see the appropriate structure class, particularly class 72, MASONRY AND CONCRETE STRUCTURES, subclasses 13 and 14, class 217, WOODEN RECEPTACLES, subclass 4; and class 220, METALLIC RECEPTACLES. This subclass and indented subclasses take patents which include more than mere vat or tank structure.

Search Classes—
8—BLEACHING AND DYEING; FLUID TREATMENT AND CHEMICAL MODIFICATION OF TEXTILES AND FIBERS, subclass 94.10 and indented subclasses for processes of treating hides, skins or leather with a fluid.
34—DRYING AND GAS OR VAPOR CONTACT WITH SOLIDS, appropriate subclass, for processes and apparatus within the definition of that class: this subclass and indented subclasses including such subject matter when combined with other treatments of hides, skins or leather not provided for in class 34.
68—TEXTILES, FLUID TREATING APPARATUS, for apparatus for the fluid treatment of textiles.
72—MASONRY AND CONCRETE STRUCTURES, subclasses 13 and 14 (see note 3).
195—CHEMISTRY, FERMENTATION, subclass 127 and indented subclasses, for apparatus for treating hides, skins, et cetera, by processes which involve fermentation.
217—WOODEN RECEPTACLES, subclass 4 (see note 3).
220—METALLIC RECEPTACLES (see note 3).

30. Apparatus under subclass 29, in which the hides are enclosed in a rotating drum during the fluid treatment.
(1) Note.—The drum may be perforate, or imperforate; and the hides may be attached to the drum, the hides, skins or leather must be at least partially enclosed in the drum.

Search Classes—
34—DRYING AND GAS OR VAPOR CONTACT WITH SOLIDS, subclasses 108, 109, 126–142, and see the notes to subclass 108.
68—TEXTILES, FLUID TREATING APPARATUS, subclass 139 and indented subclasses.

31. Apparatus under subclass 29 including means to agitate the fluid with which the hides, skins, or leather is treated.

Search Class—
259—AGITATING, for agitators of general application, but agitators especially designed for use in the fluid treating of hides, skins, or leather are here.

32. Apparatus under subclass 29, including means for moving the hide, skin or leather through the fluid with which the same is treated.

Search this class, subclass—
30—for rotating drums containing the hide, skin, or leather; however, rotating drums or frames with hides, skins, or leather attached to the outside thereof are in this subclass.

Search Class—
68—TEXTILES, FLUID TREATING APPARATUS, subclasses 148 to 170 for textile fluid treating apparatus in which the textiles are moved through the treating fluid.

33. Apparatus for treating hides, skins, or leather by folding, flexing, crumpling, suppling, or similar action for stretching, softening and rendering the same more flexible.

Search this class, subclass—
46—for machines which stretch leather by rubbing action of a member over the surface of the hide or leather.

34. Apparatus under subclass 33 in which the hide, skin or leather is passed over a sharp edge so that the hide, skin or leather is flexed or folded over the sharp edge.

35. Apparatus under subclass 33 in which the hide, skin or leather is folded upon itself, grain side inward, the fold is then passed over the hide, skin or leather.
(1) Note.—In most of the patents, pressure is applied to the leather at the fold, the purpose being to alter the appearance of the grain side of the leather, commonly known as "boarding".
(2) Note.—The distinction between the subject matter of this subclass and that of subclass 34 is that the apparatus of subclass 34 includes a sharp edge over which the hide, skin or leather is folded, whereas in this subclass the hide, skin or leather is folded upon itself.

Search this class, subclass—
33—for "fulling" mills in which a hide, skin or leather is wound upon a mandrel within a cage like member, the direction of rotation of the mandrel being reversed so as to cause the leather to double back upon itself.

36. Apparatus for the treatment of hides, skins or leather with a band type knife, and not more specifically provided for elsewhere.

Search this class, subclass—
10—for hand type knife machines for skiving or splitting leather.

37. Apparatus for the treatment of hides, skins or leather by the use of a tool which is positively rotated about its own axis during contact with the hide, skin or leather worked upon.
(1) Note.—The tool may be of any configuration such as a scraper, roll, brush roll, smooth roll, et cetera.
(2) Note.—Machines having tools which are rotated solely by contact with the hide, skin or leather being worked upon are not in this subclass, or indented subclasses, for which see the appropriate subclass below.

Search Class—
38—TEXTILES, IRONING OR SMOOTHING, particularly subclass 44 and indented subclasses, subclass 100 and 101, for ironing and smoothing apparatus for use on textiles.

38. Apparatus under subclass 37 which includes means for grinding or cleaning the rotary tool during the operation of the machine.

Search Classes—
15—BRUSHING, SCRUBBING, AND GENERAL CLEANING, subclass 246 and indented subclasses, for cleaning devices within that class which are attached to the article or machine upon which they are to operate, and combinations of such articles or machines with the attachments when the article or machine is set forth in only insufficient detail to provide a setting for the attached cleaning device.
51—ABRADING, subclass 241 and indented subclasses, particularly subclass 246 and indented subclasses, for attachments for grinding parts of machines to which the device is attached, and to combinations of machines with such attachments when the structure machine to which the device is attached is not significantly claimed.

39. Apparatus under subclass 37 in which the tool rotates about a vertical axis and the hide, skin or leather is placed on a horizontal work support, the working surface of the tool being the radial surface thereof.

40. Apparatus under subclass 37 in which the rotating tool has additional motion other than rotation, during its operation upon a hide, skin or leather.

Search this class, subclasses—
45 and **46**—for tools which have non-rotary motion, and also rotation about the axis of the tool, the rotation being due solely to contact with the hide, skin or leather worked upon.

41. Apparatus under subclass 37 in which the hide, skin or leather, during treatment with the rotating tool, is supported by a flexible belt or apron.
(1) Note.—Many of the patents in this subclass are drawn to machines having an endless belt work support which carries the hide, skin or leather past the tool. Also, the belt may itself be supported at a point opposite the tool by a roll or other means.

42. Apparatus under subclass 37 in which the hide, skin or leather, during treatment with the rotating tool, is supported by a cylindrical roll.

43. Apparatus under subclass 42 in which the only rotating tool is a roll which does not have blades thereon or any other irregular surface configuration.
(1) Note.—Many of the patents in this subclass are for leather wringers and for roller presses for leather.
Search Classes—
38—TEXTILES, IRONING OR SMOOTHING, subclasses 44 and indented subclasses for similar apparatus for ironing or smoothing of textiles.
68—TEXTILES, FLUID TREATING APPARATUS, subclass 244 and indented subclasses, for similar apparatus for wringing textiles.
100—PRESSES, subclass 47, for roller type expressing presses.

44. Apparatus under subclass 37 in which the hide, skin or leather is placed on a work support which is in motion during the treatment of the hide, skin or leather.
Search this class, subclasses—
41—for machines having moving belt type work supports.
42 and **43**—for machines having cylindrical work supports.

45. Apparatus for the treatment of hides, skins or leather by the use of a tool which is pivoted about a point external from the tool and the tool turns about the pivot during treatment of the hide, skin or leather.
(1) Note.—The tool may be of any configuration such as a scraper brush, burnishing tool, free turning roll, et cetera.

46. Apparatus for the treatment of hides, skins or leather having a tool which has a translatory motion while in contact with the hide, skin or leather.
(1) Note.—The tool may be of any configuration such as a scraper brush, burnishing tool, free turning roll, et cetera.

47. Apparatus for the treatment of hides, skins or leather in which the hide, skin or leather is placed on a support which is in motion during the treatment of the hide, skin or leather.
Search this class, subclasses—
41 to **44**—for machines having rotating tools and work supports which are in motion during the treatment of the hide, skin or leather.

48. Apparatus for treating leather in which opposing forces are brought to bear upon the leather which tend to compress the leather, not otherwise provided for.
(1) Note.—Machines which exert a pressing action on leather in which a member moves over the surface of the leather are classified above on the basis of the structure of the machine, see particularly subclass 43 for opposing roller type press.
Search this class, subclass—
43—for roller presses. (See note 1.)
Search Classes—
38—TEXTILES, IRONING OR SMOOTHING, subclasses 25 to 43, 71 and 72 for presses having two press platens for use in smoothing or ironing textiles.
68—TEXTILES, FLUID TREATING APPARATUS, subclasses 241 and 242 for platen presses used in expressing liquid from textiles.
100—PRESSES, for baling, expressing, bundling, copying, and packing presses.

The patents in these subclasses have been taken for the most part from class 149, Hides, Skins, and Leather, abolished in this order.

70, Locks (Division 20)

in subclass 370, add:
Search Class—
248—SUPPORTS, subclass 27, for devices for holding an instrument in a panel board opening, including those patents in which the instrument casing is modified solely for mounting means.

91, Coating (Division 46)

in the main class definition, add:
(7.5) Note.—See class 69, LEATHER MANUFACTURES, subclasses 28 to 32 for apparatus for treating hides, skins, leather and fur with fluid.;
in subclass 46, note (2), cancel the reference to class 149, Hides, Skins, and Leather, subclass 10;
and in subclass 52, note (2), cancel the reference to class 149, Hides, Skins, and Leather, subclass 11, and substitute: *Class 69, Leather Manufactures, subclass 30.*

92, Paper Making and Fiber Liberation (Division 56)

in subclass 72 under "Search Classes", cancel reference to class 149, Hides, Skins, and Leather, subclasses 17 and 18, and substitute: *class 69, Leather Manufactures, subclass 46.*

98, Ventilation (Division 49)

in subclass 51, cancel note (2) and add:
Search Classes—
34—DRYING AND GAS OR VAPOR CONTACT WITH SOLIDS, particularly subclasses 72, 76, and 84, for apparatus for treating a gas or vapor that contacts solids and includes forced circulation of the gas or vapor.
45—FURNITURE, subclass 71 and indented subclasses.
257—HEAT EXCHANGE, subclasses 17 and 17.5, for ventilated provision safes with specific heat exchange means for treating air that flows through the food chamber and subclasses 17.5 and 21, for provision safes having chamber walls in heat exchange relation with air that flows through a spaced jacket.
312—SUPPORTS. CABINET STRUCTURES, subclass 31.01 and indented subclasses, for provision safes having liquid wetted means continuously exposed to a chamber and to an unconfined gas.

99, Foods and Beverages (Division 63)

in subclass 150, note (2), cancel reference to class 149, Hides, Skins, and Leather, subclass 1.;
and in subclass 174, number the existing note as (*1*) Note, and add:
(2) Note.—See class 8, BLEACHING AND DYEING; FLUID TREATMENT AND CHEMICAL MODIFICATION OF TEXTILES AND FIBERS, subclass 94.11, for methods of treating internal tissue when not specialized for use as a food or meat casing.

106, Compositions, Coating or Plastic (Division 38)

in the main class definition, note (2), in the reference to class 8, Bleaching and Dyeing; Fluid Treatment and Chemical Modification of Textiles and Fibers, change the period (.) to a comma (,) and add:
and for compositions which (1) react with hide, skin, feathers or animal tissues, or (2) are specialized for use in the treatment of hides, skins, feathers and animal tissues and do not form a coating thereon:;
and cancel the reference to class 149, Hides, Skins, and Leather;
in subclass 3, cancel note (3);
and in subclass 289, cancel "inorganic", first and third occurrences.

117, Coating: Processes and Miscellaneous Products (Division 38)

in the main class definition, note I, in the reference to class 8, Bleaching and Dyeing; Fluid Treatment and Chemical Modification of Textiles and Fibers, add the following after the fourth paragraph:
Class 8, subclass 94.10 and indented subclasses, also takes the treatment of hides, skins, feathers and animal tissues not elsewhere provided for. For the line between this class and class 8, in regard to such treatment, see the reference to class 117, COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, under "Search Class", in the notes to the definition of class 8, subclass 94.10.;
and cancel the reference to class 149, Hides, Skins, and Leather;
in note II, under "(2) Search Classes", in the reference to class 8, Bleaching and Dyeing; Fluid Treatment and Chemical Modification of Textiles and Fibers, change the period (.) to a comma (,), and add:
and for hides, skins, feathers or animal tissues having a coating formed thereon by chemical modification of the hide, skin, feathers or animal tissues, and for such hides, skins, feathers or animal tissues impregnated with an impregnant and resulting from a process within that class definition.;
and in subclass 118, note (1), change the period (.) to a comma (,) and add:
and subclass 94.10 and indented subclasses, for the treatment of hides, skins, feathers and animal tissues, wherein the hide, skin, feather or animal tissue base supplies a part or all of the coating.

128, Surgery (Division 55)

in subclass 335.5, note (2), cancel the reference to class 149, Hides, Skins, and Leather, subclass 1, and substitute: *class 8, Bleaching and Dyeing; Fluid Treatment and Chemical Modification of Textiles and Fibers, subclass 94.11.*

140, Wireworking (Division 14)

in subclass 108, note (2), cancel the reference to class

149, Hides, Skins, and Leather, subclasses 20 and 21, and add: *69, Leather Manufactures, subclass 46.*

149, Hides, Skins, and Leather (Division 11)

The patents formerly contained in this class, hereinbefore abolished, have been placed, for the most part, in class 8, Bleaching and Dyeing; Fluid Treatment and Chemical Modification of Textiles and Fibers, subclass 94.10 and indented subclasses, and subclass 150.5, class 24, Buckles, Buttons, Clasps, Etc., subclass 72.7, class 69, Leather Manufactures, subclass 22, and subclasses 23 to 48, and in class 252, Compositions, subclass 8.57, all established in this order.

167, Medicines, Poisons, and Cosmetics (Divisions 43, 63)

in subclass 38.5, in the definition, after "paper", add: *hide, leather.*;
and in note (5), after "mildew proofing", add:
subclass 94.10 and indented subclasses, for processes of preserving hides, skins, feathers or animal tissues;
in subclass 87, in the note, cancel "149, Hides, Skins, and Leather", and substitute: *8, Bleaching and Dyeing; Fluid Treatment and Chemical Modification of Textiles and Fibers, subclass 94.14*;
in subclass 88, in the note, cancel "149, Hides, Skins, and Leather";
and in subclass 89, in note (1), cancel "149, Hides Skins, and Leather, subclass 2", and substitute: *8, Bleaching and Dyeing; Fluid Treatment and Chemical Modification of Textiles and Fibers, subclass 94.16.*

178, Telegraphy (Divisions 16, 65)

in subclass 6.8, change "(6) Note." to (*5*) *Note.*

183, Gas Separation (Division 32)

in subclass 2, cancel notes (1) and (3) and substitute:
Search this class, subclasses—
4—and indented subclasses, for apparatus for gas separation involving the use of a solid absorbent.
114.2—for processes of gas separation involving the use of a solid absorbent.
115—for processes of separating gases from gases.;
cancel the "(2)" before "Search Classes";
abolish the definition of subclass 4,
The patents formerly contained in this subclass have been placed, for the most part, in class 183, in a new subclass having the same number, hereinafter established, and subclasses 4.1 to 4.8 and 114.2, also established in this order.;
and establish the following subclass definitions:

4. Apparatus under the class definition including the use of a solid material for absorbing constituent elements, usually liquids or vapors, from a gas which contacts the solid material.
Search this class, subclasses—
1—and other appropriate subclasses, for devices which remove constituent elements from a gas by means of surfaces having characteristics or coatings which entrap or cause adherence of particles in the gas.
45—and indented subclasses. The line between these subclasses (4 and indented subclasses) and subclass 45 and indented subclasses, is that subclass 4 and indented subclasses take (1) all patents where the removal of the constituent elements is by surface contact with the absorbent mass, (2) where there is free relative movement between the gas and the particles of absorbent material, and (3) where the gas passes through the mass and, in addition, there is claimed means which are peculiar to removal of elements from a gas by absorption, e. g., revivifying means, heating and/or cooling of the absorbent, controls useful in absorbers, indicators, et cetera. Subclass 45 and indented subclasses take all other gas separators wherein the gas passes through loose materials.
114.2—for absorption processes.
Search Classes—
20—WOODEN BUILDINGS, subclass 40.5, for windows combined with condensation preventing means including solid absorbents.
34—DRYING AND GAS OR VAPOR CONTACT WITH SOLIDS, generally for the regeneration of absorbents by drying only and subclasses 27, 32, 74, 80, and 81, for drying of solid materials combined with the drying of gases by absorbents, and see note below to class 252.
62—REFRIGERATION, subclasses 119–120 for refrigeration apparatus involving the use of absorbents in the refrigeration cycle.
176—ELECTRIC LAMPS, subclasses 2 and 16 and appropriate subclasses, for getters for electric discharge devices.
202—DISTILLATION, subclasses 46, 67, and 183, for process and apparatus of distillation involving gas separation by absorption.
250—RADIANT ENERGY, subclass 27.5 and appropriate indented subclass, for getters for electric discharge devices.
252—COMPOSITIONS, for solid absorbents, their manufacture or for recovery or regeneration in general of spent solid absorbents and see the note above to class 34.
261—GAS AND LIQUID CONTACT APPARATUS, appropriate subclasses, for apparatus for contacting gases with liquid absorbents.
299—FLUID SPRINKLING, SPRAYING AND DIFFUSING, subclass 24, for related structures, and see note (2) thereunder for the line.
312—SUPPORTS, CABINET STRUCTURES, subclass 31 and indented subclasses, for containers combined with absorbers, wherein the container is designed to hold material to be dried.

4.1. Apparatus under subclass 4, combined with automatic control means.
(1) Note.—Automatic control involves means to sense a condition or change of condition and cause a control operation, including timing means which is other than the drive means. The condition sensed may be any condition or property of the gas undergoing treatment or of the absorbent or of the operation of the apparatus. Mere periodic, sequential, or other operation of the apparatus due to its drive mechanism or to manual intervention are not included but are classified in other subclasses of this group.
Search this class, subclass—
4.4—for solid absorbent gas separators having indicators.
Search Class—
34—DRYING AND GAS OR VAPOR CONTACT WITH SOLIDS, subclass 43 and indented subclasses, for automatic controls there provided for and see notes.

4.2. Apparatus under subclass 4 including (1) apparatus wherein the absorbent is moved or held suspended in the current of gas or vapor being treated, and (2) apparatus wherein the absorbent is fed in at an elevated level and flows downward through the gas or vapor treating zone, at least, in part, by gravity.
Search Classes—
34—DRYING AND GAS OR VAPOR CONTACT WITH SOLIDS, subclasses 10, 57, and 165 and indented subclasses, for similar apparatus used in drying solid material and see the notes thereto.
302—CONVEYERS—FLUID CURRENT, subclass 17 and indented subclasses, for fluid current conveyers and see the note in this subclass for the field of search for this type of apparatus.

4.3. Apparatus under subclass 4, combined with means for performing other treating operations on the gas and/or absorbent or plural absorbent gas separators of diverse types.
(1) Note.—Treating operations are operations designed to change the characteristics of the gas being treated or of the absorbent. Means ancillary to the operation of the absorbent gas separator such as fans, pumps, conveyers, agitators, et cetera, which do not or are not intended to change the characteristics of the material are, of course, not included.
Search this class, subclass—
4.5—and indented subclasses, for absorbent gas separators combined with means for reactivating the absorbent including heating and/or cooling means which are combined therewith for reactivating purposes.

4.4 Apparatus under subclass 4, in which in addition to the absorption gas separator, there is combined therewith additional means serving other purposes and not provided for above.
(1) Note.—The combined features are those in addition to means changing the characteristics of the gas or absorbent or means ancillary to the normal operation of the absorbent gas separator. For example, such combined features include test devices, indicators, devices collecting liquid flowing from the absorbent and apparatus transporting means.
(2) Note.—The nominal combination of an absorber with the device in or with which it is used is not here included, but is classified on the basis of the solid absorbent gas separator structure.

4.5. Apparatus under subclass 4, including means to revivify or regenerate the absorbent.
Search this class, subclass—
4.1—for automatic control including automatic control of regeneration of the absorbent. Where the absorbent gas separator and regeneration is conventional, the patent is not cross-referenced to this subclass.

Search Classes—
34—DRYING AND GAS OR VAPOR CONTACT WITH SOLIDS, appropriate subclasses, for regeneration by drying only.
252—COMPOSITIONS, subclasses 274 and indented subclasses, for regeneration of solid absorbents generally and see the reference to class 34, above.

4.6. Apparatus under subclass 4.5 in which the absorbent is arranged for movement from the absorption separation zone to the regeneration zone.

Search this class, subclass—
4.2—for absorption gas separator where there is free relative movement between the gas and absorbent particles.

4.7. Apparatus under subclass 4.5 in which the absorbent is arranged in plural separately enclosed units which are fixed in position. The units are arranged so that at least one can be regenerated while at least one other can be used in the gas absorption phase.

4.8. Devices under subclass 4, which are receptacles, supports, or cartridges containing solid absorbents or similar absorbent units arranged to be placed in an enclosure to remove constituent elements from a gas in the enclosure.
Search this class, subclass—
4—where means for conducting the gas to and from the absorbent is claimed.
Search Class—
252—COMPOSITIONS, subclass 260 and indented subclasses, for absorbent compositions.

114.2. Processes under subclass 114 involving the use of solid absorbents for separating constituent elements usually liquids or vapors from a gas.
Search this class, subclass—
4—and indented subclasses, for related apparatus.

The patents in these subclasses have been taken for the most part from class 183, Gas Separation, subclass 4, abolished and reestablished in this order.

195, Chemistry, Fermentation (Division 63)

in the main class definition, note (9), cancel "149, Hides, Skins, and Leather", and substitute: *8, Bleaching and Dyeing; Fluid Treatment and Chemical Modification of Textiles and Fibers, subclass 94.10 and indented subclasses*;
in subclass 6, add the following:
Search Class—
8—BLEACHING AND DYEING; FLUID TREATMENT AND CHEMICAL MODIFICATION OF TEXTILES AND FIBERS, subclass 94.10 and indented subclasses, particularly subclass 94.16, for non-fermentive treatment of hides and skins.;

in subclass 139, note (2), cancel reference to class 149, Hides, Skins, and Leather;
and in subclass 143, note (3), cancel the reference to class 149, Hides, Skins, and Leather.

200, Electricity—Circuit Makers and Breakers (Division 37)

establish the following subclass definition:

81.5. Circuit makers and breakers under subclass 81, having two or more distinct operating means, at least one of which is responsive to pressure of a fluid or to vacuum.
Search Classes—
74—MACHINE ELEMENTS AND MECHANISMS, subclass 407, for gearing having provision for operation by either manual or power means, and subclass 479 and indented subclasses, for manually operated control lever and linkage systems having a plurality of controlling elements.
103—PUMPS, subclass 207, for multiple actuators for pumps.
123—INTERNAL COMBUSTION ENGINES, subclass 179, for starters equipped with dual operators.
137—WATER DISTRIBUTION, subclass 139, for valves having plural actuators.
236—AUTOMATIC TEMPERATURE AND HUMIDITY REGULATION, subclass 91, for devices operated by a plurality of thermostats.

The patents in this subclass have been taken from class 200, subclasses 81, 83, and 84.

202, Distillation (Division 25)

in subclass 46, in note (5), cancel "subclass 4 for processes and apparatus" and substitute: *subclass 4 and indented subclasses for apparatus and subclass 114.2 for processes.*;
in subclass 67, under "Search Classes" in the reference to class 183, Gas Separation, cancel "4 and 5" and substitute: *4 and indented subclasses, 5, 114.2, and 115.*;
and in subclass 183, under "Search Classes" in the reference to class 183, Gas Separation, cancel the period (.), and add: *and indented subclasses and subclass 114.2.*

204, Chemistry, Electrical and Wave Energy (Division 56)

in subclass 135, in the note, cancel "149, Hides, Skins, and Leather, appropriate subclasses", and substitute *8, Bleaching and Dyeing; Fluid Treatment and Chemical Modification of Textiles and Fibers.*

223, Apparel Apparatus (Division 24)

in subclass 19, rewrite note (4) as follows:

(4) Note.—See class 69, LEATHER MANUFACTURES, subclass 24 and indented subclasses, for the removal of coarse or water hairs from a fur skin.;

in subclass 57, note (7), in the reference to class 69, Leather Manufactures, change "7 and 8" to *7, 8, and 37 to 48*;
and in subclass 61, note (4), change "subclass 1.5" to *subclasses 1.5 and 46* and rewrite note (5) as follows:
(5) Note.—See class 45, FURNITURE, subclasses 24 and 130, for fabric stretching frames, including leather and pelt stretching frame.

250, Radiant Energy (Divisions 51, 54)

in subclass 27, under "Search Class", in the reference to class 171, Electricity—Generation, line 30, change "changing" to *charging.*

252, Compositions (Division 3)

in the main class definition, note (6), in the reference to class 8, Bleaching and Dyeing; Fluid Treatment and Chemical Modification of Textiles and Fibers, change the period (.) to a comma (,) and add:

and for compositions used in tanning or chemically reacting with hides, skins, feathers or animal tissues and for the treatment of untanned hides or skins.;

cancel the reference to class 149, Hides, Skins, and Leather;
and establish the following subclass definition:

8.57. Compositions for treating leather or fur not more specifically provided for elsewhere.
(1) Note.—Patents which claim a composition falling within this subclass and also claim (*a*) processes involving no more than the mere application of a composition to leather or fur and/or (*b*) a leather or fur product characterized essentially by the application of the composition are classified herein.
Search this class, subclasses—
8.1—for compositions for fireproofing leather or hide.
8.6—for textile treating compositions.
Search Classes—
8—BLEACHING AND DYEING; FLUID TREATMENT AND CHEMICAL MODIFICATION OF TEXTILES AND FIBERS, subclass 10 and indented subclasses, for leather or fur dyeing composition, and subclass 94.10 and indented subclasses, for (1) tanning compositions, (2) compositions which chemically react with a hide, skin, or fur, and (3) compositions for treating untanned hides or skins and are not more specifically provided for elsewhere.
106—COMPOSITIONS, COATING OR PLASTIC, for leather coating compositions.
167—MEDICINES, POISONS, AND COSMETICS, subclass 38.5 and indented subclasses, for hide or leather saturants for destroying or repelling destructive plant or animal life.

The patents in this subclass have been taken from class 149, Hides, Skins, and Leather, abolished in this order.

254, Pushing and Pulling Implements (Division 61)

in subclass 51, in note (3), in the reference to class 45, Furniture, change the period (.) to a comma (,) and add: *including leather and pelt stretching frames*;
and also add:
69—LEATHER MANUFACTURES, appropriate subclass, particularly subclass 46, for leather stretching machines.;

and cancel the reference to class 149, Hides, Skins, and Leather.

257, Heat Exchange (Divisions 30, 32)

establish the following subclass definition:

17.5. Apparatus under subclass 17, in which the chamber to be cooled is adapted to be lowered beneath the surface of the earth, either land or water.
Search this class, subclass—
121—and indented subclasses, for subterranean heat exchange means per se.
Search Classes—
62—REFRIGERATION, subclass 71, for ice refrigerators of the elevator type, and subclass 90 and indented subclass, for exaporative coolers having non-porous walls.
98—VENTILATION, subclass 51, for provision safes in which the food chamber has conduits communicating with either the cellar or the outside atmosphere, or both, and which do not specifically claim a heat exchanger.
187—ELEVATORS, subclass 3, for elevator structure, per se.

The patents in this subclass have been taken for the most part from class 45, Furniture, subclass 71.;
in subclass 121, add the following note:
(1) Note.—**Search this class,** subclasses 17, 17.5, and 21, for patents claiming significant chamber structure in addition to the subterranean heat exchangers.;

and in the reference to class 98, under "Search Class", after "51", insert: *for ventilated provision safes which do not (or only broadly) claim a subterranean heat exchanger.*

260, Chemistry, Carbon Compounds (Divisions 6, 15, 31, 43, 50, 59, 63)

in the main class definition, note (1), after "textiles", add: *hides, skins, feathers, animal tissues*;
cancel note (18);
in subclass 124, rewrite note (1) as follows:
(1) Note.—See class 8, BLEACHING AND DYEING; FLUID TREATMENT AND CHEMICAL MODIFICATION OF TEXTILES AND FIBERS, subclass 94.31, for tanning agents derived from waste cellulose liberation liquors.;

and in subclass 473.5, in the note, fourth sentence, cancel "are in class 149, Hides, Skins, and Leather".

261, Gas and Liquid Contact Apparatus (Division 32)

in the main class definition, note (2), cancel "4";
in subclass 94, after "Search Class", add:
312—SUPPORTS, CABINET STRUCTURES, subclass 31 and indented subclasses, particularly subclass 31.04.;

in subclass 100, after "Search Class", add:
312—SUPPORTS, CABINET STRUCTURES, subclass 31, and indented subclasses, particularly subclass 31.05 and the indented subclass.;

in subclass 103, insert the following note:
Search Class—
312—SUPPORTS, CABINET STRUCTURES, subclass 31.05 and indented subclass for liquid downflow porous sheet devices which form a material holding chamber and which are associated with significant chamber structure, such as shelves, racks, or doors.;

in subclass 104, insert the following:
Search Class—
312—SUPPORTS, CABINET STRUCTURES, subclass 31.05 for capillary upfeed porous sheet devices which form a material holding chamber and which are associated with significant chamber structure, such as shelves, racks, or doors.;

in subclass 106, in the note, after "103", insert: *, and see the note thereunder*;
and in subclass 107, in the note, after "104", insert: *, and see the note thereunder.*

294, Handling—Hand and Hoist-Line Implements (Division 4)

in the main class definition, note (4), cancel the reference to class 149, Hides, Skins, and Leather;
and change the definition of subclass 5.5 to read:

5.5. Rods or sticks adapted to support material thereon for the purpose of facilitating handling, not specially adapted for handling articles at a distance.
(1) Note.—Many of the patents in this subclass are drawn to sticks to which tobacco leaves or stalks may be attached or upon which the leaves or stalks may be strung to facilitate handling, and to sticks or poles for supporting sheet material during drying.
Search this class, subclasses—
19—and indented subclasses, for rods or poles peculiarly adapted for handling articles at a distance.
61—for spears.
Search Classes—
24—BUCKLES, BUTTONS, CLASPS, ETC., appropriate subclasses, for attaching clips per se.
34—DRYING AND GAS OR VAPOR CONTACT WITH SOLIDS, subclass 240, for apparatus within that class including rod supports and not more specifically provided for.
214—MATERIAL OR ARTICLE HANDLING, subclass 5.5, for devices for use in stringing tobacco upon sticks or unstringing tobacco therefrom.

299, Fluid Sprinkling, Spraying, and Diffusing (Division 46)

in subclass 24, note (1), cancel the period (.) and add: *and indented subclasses, particularly subclass 4.8.*

302, Conveyers—Fluid Current (Division 4)

in subclass 17, in the note, add:
196—MINERAL OILS, subclasses 52–56.;

and in the reference to class 183, Gas Separation, cancel the period (.) and add: *particularly subclass 4.2, for fluid current type solid absorption gas separators.*

311, Supports, Tables (Division 62)

in subclass 1, rewrite note (4) as follows:

(4) Note.—See class 69, LEATHER MANUFACTURES, subclass 19, for supports particularly adapted for leather working; mere tables, even though disclosed for use in supporting leather, are in this class.;

and in subclass 32, cancel the note.

312, Supports, Cabinet Structures (Division 8)

in subclass 3, add the following:
(0.5) Note.—For liquid wetted fabric wall cabinets, **search subclass** 31.05 and indented subclasses.;

in subclass 31, rewrite note (1) to read:

(1) Note.—Class 34, DRYING AND GAS OR VAPOR CONTACT WITH SOLIDS, when in addition to the drying or gas or vapor contact function, there are positive means, such as heaters, coolers, blowers, regenerators, material handling, et cetera, to facilitate such function. The devices in this subclass (31) are generally mere hygroscopic materials or slow diffusers suitably associated with the container.;

in note (2), line 5, after "contact", insert:

such as conduits or passages to admit or direct air into contact with the liquid, and by the absence of significant container structure, such as shelves, racks, or doors.;

and in line 6, change "exposed liquids" to *liquid wetted means*;
in note "(3) Search Classes", in the reference to class 183, Gas Separation, after "4", cancel the comma (,) and add: *and indented subclasses, particularly subclass 4.8*;
and insert:

98—VENTILATION, subclass 51, for provision safes in which the food chamber has conduits communicating with a cellar or well, or the outside atmosphere and see the notes thereunder.;

and establish the following subclass definitions:

31.01. Containers under subclass 31, having liquid wetted means exposed to, or forming, a material holding chamber, so that the liquid is continuously in contact with either an unconfined gas that contacts the material in the chamber or with an unconfined gas exterior to the chamber and a gas that contacts the material in the chamber.
(1) Note.—In this and the indented subclasses, the liquid supply receptacle may also contain ice, and the liquid wetted means may be a pan of water.
(2) Note.—Where the liquid wetted means is continuously exposed to the atmosphere because a small area has been left exposed for the purpose of readily renewing the liquid charge, the patent is placed in subclasses 31.1, 31.2, or 31.3.
(3) Note.—**Search class** 98, VENTILATION, subclasses 12 and 17, for railway cars and subclass 30, for buildings having structure that falls within the definition of this subclass (31.01).
(4) Note.—**Search class** 261, GAS AND LIQUID CONTACT APPARATUS, for gas and liquid contact devices, per se, and see note (2) of subclass 31, this class (312).

Search Classes—
34—DRYING AND GAS OR VAPOR CONTACT WITH SOLIDS, subclass 72, for forced air circulators or heaters or both included in devices having a wetted surface exposed to material chamber and continuously contacted by an unconfined gas.
62—REFRIGERATION, subclass 73, for evaporative refrigerators having an ice chamber in addition to a receptacle for the liquid supply (see note 1) or having an outer non-porous wall spaced from an inner porous wall, the space containing ice; subclass 90 and the indented subclass, for non-porous wall evaporative refrigerators; subclass 154, and indented subclasses, for evaporative refrigerators which cool one liquid by the evaporation of another liquid; and subclass 168, for miscellaneous evaporative coolers, particularly those having an inner non-porous wall spaced from an evaporative means, the space being occupied by a fluid.
98—VENTILATION, see note (3).
261—GAS AND LIQUID CONTACT APPARATUS, see note (4).

31.02. Containers under subclass 31.01 which can be set up from or disjointed into, unassembled elements, or which comprise components whose aggregate volume can either be increased to or decreased from the operative volume of the container.

(1) Note.—**Search subclasses** 5 and 6 for knockdown fabric wall cabinets, per se.

31.03. Containers under subclass 31.01 in which one or more walls of the material holding chamber are wetted with a liquid.
Search Classes—
62—REFRIGERATION, subclass 168, for evaporative coolers having an outer porous wall spaced from an inner non-porous wall, said space containing a supply of the wetting liquid.
261—GAS AND LIQUID CONTACT APPARATUS, particularly subclasses 94, 100, and 108, and the indented subclasses, for gas and liquid contact devices which do not include significant chamber structure such as shelves, racks, or doors.

31.04. Containers under subclass 31.03 having ceramic or similar porous mass walls as the sole liquid wetted means.
(1) Note.—Where the wetting liquid supply is in the wall space formed by plural porous mass walls, see subclass 31.03.
Search Class—
261—GAS AND LIQUID CONTACT APPARATUS, subclass 94, and indented subclasses, for gas and liquid contact devices which include a porous mass.

31.05. Containers under subclass 31.03 having porous fabric sheets as the sole liquid wetted means.
(1) Note.—Where the wetting liquid supply is in the wall space formed by plural porous fabric walls, see subclass 31.03.
Search Class—
261—GAS AND LIQUID CONTACT APPARATUS, subclass 100, and indented subclasses, for gas and liquid contact devices which include porous sheets.

31.06. Containers under subclass 31.05 in which movement of the liquid along the walls is chiefly in a downward direction, there being means for collecting the drip from the lower portion of the walls.
Search Class—
261—GAS AND LIQUID CONTACT APPARATUS, subclasses 103, and 106, for porous sheet gas and liquid contact devices having liquid downflow.

The patents in these subclasses have been taken from class 45, Furniture, subclasses 132, 133, and 134, abolished in this order.

TRADE-MARKS

OFFICIAL GAZETTE, JULY 20, 1943

[VOL. 552. No. 3]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 457,404. STANDARD OIL COMPANY OF NEW JERSEY, Wilmington, Del. Filed Dec. 14, 1942.
Applicant is the owner of Reg. No. 64,717 (renewed).

FLEXOR

FOR SYNTHETIC RUBBER.
Claims use since Nov. 9, 1942.

Ser. No. 460,085. HARRY T. CAMPBELL SONS' CORP., Towson, Md. Filed Apr. 22, 1943.



FOR EXTREMELY FINE CALCIUM CARBONATE PRODUCED FROM CALCITE, A HIGH CALCIUM LIMESTONE.
Claims use since Nov. 1, 1942.

Ser. No. 460,660. HUGH S. STOLLER, doing business as Stoller Chemical Company, Akron, Ohio. Filed May 15, 1943.

Akro

FOR CORE COMPOUND FOR FOUNDRY USE.
Claims use since Apr. 1, 1943.

CLASS 2

RECEPTACLES

Ser. No. 460,724. OTHO FREDERICK MEARS, JR., Norfolk, Va. Filed May 14, 1943.

FRIGIDETTE

FOR NONBREAKABLE ICE BUCKETS.
Claims use since Apr. 16, 1942.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 460,787. BELT MODES, INC., New York, N. Y. Filed May 21, 1943.

KOZY KIT

The word "Kit" is disclaimed apart from the mark.
FOR LADIES', MISSES', AND CHILDREN'S HANDBAGS AND POCKETBOOKS.
Claims use since Feb. 2, 1942.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 455,851. ANTON SCHAFFHAUSER, doing business as Asco Chemical Company, Brooklyn, N. Y. Filed Sept. 29, 1942.



FOR LEATHER SOAPS AND SADDLE SOAPS.
Claims use since April 1933.

Ser. No. 459,774. WILLIAM WOLF, doing business as Royal Esquire Distributors, Newark, N. J. Filed Apr. 9, 1943.

Royal Esquire

FOR SOAP, SHOE-SHINING OUTFITS—NAMELY, A CLOTH PACKAGE CONTAINING SHOE POLISH, A SHOE BRUSH, LACES AND DAUBER, ALSO A SHINE CLOTH, SHAVING CREAM, METAL POLISH, AND LIQUID DRY CLEANER.

Claims use since Apr. 23, 1937.

Ser. No. 460,936. JAMES H. RHODES & COMPANY, Chicago, Ill. Filed May 26, 1943.

NAVAJO

FOR CHAMOIS FOR CLEANSING AND POLISHING PURPOSES.

Claims use since Apr. 21, 1941.

Ser. No. 460,937. JAMES H. RHODES & COMPANY, Chicago, Ill. Filed May 26, 1943.

Chalet

FOR CHAMOIS FOR CLEANSING AND POLISHING PURPOSES.

Claims use since July 1, 1941.

CLASS 5

ADHESIVES

Ser. No. 460,496. CORROSION CONTROL CORPORATION, Norwalk, Conn. Filed May 8, 1943.

CORDO

FOR LACQUER COATINGS USED IN BONDING PLASTIC SHEETING TO ITSELF, TO LEATHER, WOOD, METALS, ETC.

Claims use since Feb. 27, 1943.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 431,025. SHARP & DOHME, INCORPORATED, Philadelphia, Pa. Filed Apr. 20, 1940.

FOR WARES ORDINARILY AND COMMERCIALLY DESCRIBED AS ALL KINDS OF PHARMACEUTICAL AND MEDICINAL GOODS, WARES, PRODUCTS, AND PREPARATIONS, FOR INTERNAL AND ALSO FOR EXTERNAL USE, WHETHER IN THE FORM OF AMPULES, POWDERS, GRANULES, TABLETS, PILLS, CAPSULES, SALTS, ELIXIRS, EXTRACTS, EMULSIONS, SOLUTIONS, LIQUIDS, OR ANY OTHER SUITABLE FORM IN WHICH SUCH PREPARATIONS MAY BE MARKETED, AND WITHOUT RESTRICTION AS TO FORM OR TO THE INDIVIDUAL, SPECIFIC PRODUCTS, AND EXEMPLIFIED BY ACIDIFIERS, ALKALINIZERS, ALTERATIVES, ANALGESICS, ANESTHETICS, ANODYNES, ANTACIDS, ANTHELMINTICS, ANTIASTHMATICS, ANTIEMETICS, ANTILUETICS, ANTIMALARIALS, ANTINEURITIC AGENTS, ANTIPELLAGRIC AGENTS, ANTIPERIODICS, ANTIPRURUTICS, ANTIPYRETICS, ANTIRACHITIC AGENTS, ANTIRHEUMATICS, ANTISCABIOUS AGENTS, ANTISCORBUTIC AGENTS, ANTISEPTICS, ANTISPASMODICS, ANTISYPHILITICS, ASTRINGENTS, CARDIAC STIMULANTS, CATHARTICS, CHEMOTHERAPEUTIC AGENTS, CHOLAGOGUES, CIRCULATORY DEPRESSANTS, COCCICIDES, COUNTER-IRRITANTS, DENTIFRICES, DEODORANTS, DIAPHORETICS, DIETARY SUPPLEMENTS, DIGESTANTS, DISINFECTANTS, DIURETICS, POWDERS, OINTMENTS, JELLIES, SOLUTIONS AND OTHER FORMS OF PHARMACEUTICAL COMPOUNDS EMPLOYED AS SURGICAL DRESSINGS, ECBOLICS, EMMENAGOGUES, EMOLLIENTS, ENDOCRINE PRODUCTS, EXPECTORANTS, FUNGICIDES, GERMICIDES, GLANDULAR STIMULANTS, GONOCOCCIDES, HEMATINICS, HEMATOPOIETICS, HEMORRHOIDAL AGENTS, HEMOSTATICS, HEPATIC STIMULANTS, HYPNOTICS, INCONTINENCE AGENTS, INHALANTS, INTESTINAL ANTISEPTICS, KERATOLYTIC AGENTS, LAXATIVES, LUBRICANTS, MILK MODIFIERS, NASAL MEDICAMENTS, NUTRIENTS, OPOTHERAPICS, OPHTHALMIC AGENTS, ORGANOTHERAPEUTICS, OXYTOCICS, PARASITICIDES, RUBIFACIENTS, SCLEROSING AGENTS, SEDATIVES, SPIROCHETICIDES, SPRAYS (NASAL), SPRAYS (THROAT), STOMACHICS, SURGICAL LUBRICANTS, TONICS URINARY ANTISEPTICS, URINARY ACIDIFIERS, URINARY ALKALINIZERS, UTERINE SEDATIVES, VASOCONSTRICTORS, VASODILATORS, AND VITAMIN PREPARATIONS; AND ALSO INDICATED BY CRUDE DRUGS SUCH AS ROOTS, HERBS, LEAVES, FLOWERS, SEEDS, BARKS, GUMS AND THE LIKE, AND EXTRACTS AND OTHER PREPARATIONS DERIVED FROM SUCH CRUDE DRUGS, AND FURTHER ILLUSTRATED BY THE FOLLOWING PREPARATIONS, FOR EXAMPLE, IN AMPULE FORM: BISMUTH SUBSALICYLATE, CAFFEINE WITH SODIUM BENZOATE, CALCIUM CACODYLATE, CALCIUM CHLORIDE, CALCIUM LACTATE, CAMPHOR IN OIL, CORPUS LUTEUM EXTRACT, DEXTROSE (D-GLUCOSE), EMETINE HYDROCHLORIDE, EPHEDRINE SULFATE, GLYCEROPHOSPHATES COMP., INTERSTITIAL SALT SOLUTION, IRON ARSENITE, IRON ARSENITE WITH STRYCHNINE, IRON CACODYLATE, IRON CACODYLATE AND SODIUM GLYCEROPHOSPHATE, IRON CITRATE GREEN, MAGNESIUM SULFATE, METHENAMINE, METHYLENE BLUE, OVARIAN EXTRACT, OVARIAN RESIDUE EXTRACT, PHENOLSULFONPHTHALEIN, PITUITARY EXTRACT (OBSTETRICAL), PITUITARY EXTRACT (SURGICAL), QUININE DIHYDROCHLORIDE, QUININE AND UREA HYDROCHLORIDE, RINGER'S SOLUTION (CONCENTRATED), SODIUM CACODYLATE, SODIUM CITRATE, SODIUM IODIDE, SODIUM IODIDE AND SODIUM SALICYLATE, SODIUM SALICYLATE, SODIUM SALICYLATE AND IODIDE WITH COLCHICINE, SODIUM THIOSULFATE, WATER (DOUBLE DISTILLED), FOR PHARMACEUTICAL USE, AND WATER (TRIPLE DISTILLED) FOR PHARMACEUTICAL USE; AND ALSO BY THE FOLLOWING, FOR EXAMPLE, IN THE FORM OF DRY-FILLED CAPSULES: ACETYLSALICYLIC ACID, BLAUD'S PILL MASS; BLAUD, ARSENIC AND NUX VOMICA; CALOMEL, RHUBARB AND COLOCYNTH COMP.: CATHARTIC COMP., CORPUS LUTEUM, EPHEDRINE HYDROCHLORIDE, EPHEDRINE SULFATE, IRON AND AMMONIUM CITRATE, OVARIAN SUBSTANCE, PHENYL-PROPANOL-AMINE HYDROCHLORIDE, QUININE BISULFATE, QUININE SULFATE; AND ALSO BY THE FOLLOWING, FOR EXAMPLE, IN THE FORM OF SOLUBLE ELASTIC CAPSULES: APIOL AND ERGOTIN COMP., CASTOR OIL, COD LIVER OIL, COD LIVER OIL AND CREOSOTE; COPAIBA, CUBEB AND SANTAL; COPAIBA AND SANTAL; METHYLENE BLUE AND SANTAL COMP., SALOL AND CASTOR OIL; SALOL, CUBEB AND COPAIBA; SALOL, CUBEB AND SANTAL; SANTAL OIL; SANTAL AND SALOL COMP.; WHEAT GERM OIL; AND ALSO BY THE FOLLOWING, FOR EXAMPLE, IN THE FORM OF CERATES: ROSIN, ROSIN COMP.; AND ALSO BY THE FOLLOWING, FOR EXAMPLE, IN THE FORM OF CONCENTRATIONS: ALOIN, LUPULIN, PODOPHYLLIN; ALSO BY THE FOLLOWING, FOR EXAMPLE, IN THE FORM OF CORDIALS: BEEF AND WHEAT PEPTONIZED; CASTOR OIL WITH PHENOLPHTHALEIN, NEUTRALIZING, RHUBARB AND HYDRASTIS COMP.; ALSO BY THE FOLLOWING, FOR EXAMPLE, IN THE FORM OF EFFERVESCENT SALTS: STRONTIUM AND AMMONIUM SALICYLATES, SODIUM PHOSPHATE; ALSO BY THE FOLLOWING, FOR EXAMPLE, IN THE FORM OF ELIXIRS; ACETANILID, BROMIDE AND PHENACETIN COMP.; ALETRIS AND VIBURNUM COMP., ALOE AND RUE COMP., AMMONIUM VALERATE; AROMATIC (NON-ALCOHOLIC), AROMATIC, BASIC FOR MAKING BASHAM'S MIXTURE, BROMIDES (NON-ALCOHOLIC), BROMIDES NO. 1, BROMIDES AND HYOSCYAMUS COMP.; BUCHU, JUNIPER AND POTASSIUM ACETATE; CAFFEINE, POTASSIUM AND SODIUM BROMIDES; CALCIUM AND SODIUM GLYCEROPHOSPHATES; CALISAYA BARK; CATNEP AND FENNEL; CINCHONA ALKALOIDS; DIOSCOREA, ALETRIS AND VIBURNUM COMP.; DIURETIC; EUPHORBIA COMP.; GENTIAN; GENTIAN GLYCERINATED; GENTIAN AND IRON; GLYCEROPHOSPHATES COMP.; GLYCEROPHOSPHATES WITH NUX VOMICA AND DAMIANA; GUARANA AND CELERY; HELONIAS AND SQUAW VINE COMP.; HYDRANGEA AND LITHIUM, HYDRASTIS COMP.; IRON, QUININE AND STRYCHNINE; IRON, QUININE AND STRYCHNINE PHOSPHATES; IRON AND QUININE WITH STRYCHNINE PHOSPHATE; LACTICATED PEPSIN; LACTICATED PEPSIN WITH IRON, QUININE AND STRYCHNINE PHOSPHATES; LUPULIN AND BROMIDES COMP.; PASSIFLORA AND BROMIDE COMP.; PEPSIN COMP.; PEPSIN AND BISMUTH; PEPSIN, BISMUTH AND STRYCHNINE; PEPSIN AND RENNIN; PHENOBARBITAL; PHOSPHORUS, NUX VOMICA AND DAMIANA; POTASSIUM BROMIDE; QUINIDINE AND ASARUM COMP.; RHUBARB AND PANCREATIN COMP., ALKALINE; SALICYLIC ACID AND GELSEMIUM COMP. #1; SALICYLIC ACID AND GELSEMIUM COMP. #2; SAW PALMETTO AND CORN SILK COMP.; SAW PALMETTO AND CORN SILK COMP. #2: SAW PALMETTO AND SANTAL COMP.; SIX GLYCEROPHOSPHATES; SODIUM BROMIDE, TERPIN HYDRATE, TERPIN HYDRATE AND GELSEMIUM COMP. WITH CODEINE; TERPIN HYDRATE AND CODEINE; TERPIN HYDRATE AND CREOSOTE COMP.; THREE BROMIDES; TONGA AND SALICYLATE COMP.; VIBURNUM AND HYDRASTIS COMP.; VIBURNUM AND SCUTELLARIA COMP.; ALSO BY THE FOLLOWING, FOR EXAMPLE, IN THE FORM OF EMULSIONS; COD LIVER OIL WITH HYPOPHOSPHITES, PETROLEUM COMPOUND WITH HYPOPHOSPHITES; ALSO BY THE FOLLOWING, FOR EXAMPLE, IN THE FORM OF FLUID EXTRACTS: ACONITE, ALETRIS, ALOE FOR TINCTURE, ARNICA, ASAFETIDA FOR TINCTURE, ASARUM, ASCLEPIAS, ASPIDOSPERMA, AVENA, BAMBOO BRIER COMP., BAPTISIA, BAY LAUREL CONCENTRATED, BELLADONNA LEAF, BELLADONNA ROOT, BENZOIN FOR TINCTURE, BENZOIN COMP. FOR TINCTURE, BERBERIS, BLUE FLAG, BOLDO, BRYONIA, BUCHU, CACTUS GRANDIFLORUS, CALENDULA, CALUMBA, CAPSICUM, CARDAMON, CARDAMON COMP. FOR TINCTURE, CASCARA AROMATIC, CASCARA SAGRADA, CASCARA SAGRADA AROMATIC, CASCARA SAGRADA FREE FROM BITTERNESS, CASTANEA, CATECHU COMP. FOR TINCTURE, CATNEP, CAULOPHYLLUM, CELERY FRUIT, CHAPARRO AMARGOSO, CHIMAPHILA, CHIONANTHUS, CIMICIFUGA, CINCHONA DETANNATED, CINCHONA COMP. FOR TINCTURE, CINCHONA (RED), CINNAMON, CINNAMON SOLUBLE FOR FLAVORING, COLCHICUM CORN, COLCHICUM SEED, COLOCYNTH, CONDURANGO, CORN SILK, COTTON ROOT BARK, CUBEB, CYPRIPEDIUM, DAMIANA, DIOSCOREA, ECHINACEA, EPHEDRA, ERGOT, ERIODICTYON, EUCALYPTUS, EUONYMUS, EUPATORIUM, EUPHORBIA PILULIFERA, FRANGULA, GAMBIR COMP. FOR TINCTURE, GARDEN CELANDINE, GELSEMIUM, GENTIAN, GENTIAN COMP. FOR TINCTURE, GINGER, GINGER SOLUBLE FOR SYRUP, GLYCYRRHIZA, GLYCYRRHIZA FOR QUININE MIXTURE, GOLDEN SEAL AQUEOUS, GRINDELIA, GRINDELIA SOLUBLE FOR SYRUP, GUAIAC FOR TINCTURE, GUARANA, HAMAMELIS LEAF, HAWTHORN BERRIES, HEMLOCK COMP. COLORLESS, HOPS, HYDRANGEA, HYDRASTIS, HYOSCYAMUS, IPECAC, JALAP, JAMAICA DOGWOOD, JUNIPER BERRIES, KAVA, KOLA, KRAMERIA, LAPPA, LARKSPUR SEED, LARKSPUR ACETIC FOR TINCTURE, LAVENDER COMP. FOR TINCTURE, LEMON SOLUBLE FOR FLAVORING, LEPTANDRA, LOBELIA, MANACA, MARRUBIUM, MYRRH, NUX VOMICA, OPIUM CAMPHORATED, OPIUM CONCENTRATED, ORANGE AROMATIC, ORANGE PEEL (BITTER), ORANGE PEEL (SWEET), ORANGE PEEL SOLUBLE FOR SYRUP, PAREIRA, PASSIFLORA, PEPPERMINT SOLUBLE FOR FLAVORING, PHYTOLACCA, PILOCARPUS, PODOPHYLLUM, PULSATILLA, QUASSIA, QUEEN OF THE MEADOW, RED CLOVER COMP. FOR SYRUP, RHAMNUS CATHARTICA, RHUBARB, RHUBARB AROMATIC FOR TINCTURE AND SYRUP, RHUS AROMATICA, RHUS GLABRA, RHUS TOXICODENDRON, ROSE, ROSE SOLUBLE FOR FLAVORING, RUBUS, RUMEX, SABAL, SANDALWOOD, SANGUINARIA, SARSAPARILLA, SARSAPARILLA COMP. FOR SYRUP, SARSAPARILLA COMP., SCOPARIUS, SCUTELLARIA, SENEGA, SENNA, SENNA U. S. P., SERPENTARIA, SKUNK CABBAGE, SOLANUM,

SPIGELIA, SPIGELIA AND SENNA, SQUILL, SQUILL COMP., STILLINGIA, STILLINGIA COMP., STRAMONIUM, SUMBUL, TAR SOLUBLE FOR SYRUP, TARAXACUM, THYME, TOLU SOLUBLE FOR SYRUP, TONGA, TRIFOLIUM, TRIFOLIUM COMP., TRITICUM, UVA URSI, VALERIAN, VERATRUM VIRIDE, VIBURNUM OPULUS, VIBURNUM PRUNIFOLIUM, WHITE PINE BARK, WHITE PINE COMP. FOR SYRUP, WILD CHERRY, WILD CHERRY BARK FOR SYRUP, ZANTHOXYLUM, YERBA SANTA AROMATIC FOR SYRUP; ALSO BY THE FOLLOWING, FOR EXAMPLE, IN THE FORM OF POWDERED EXTRACTS: ALOE, BELLADONNA LEAF, CASCARA SAGRADA, CINCHONA, COLOCYNTH, COLOCYNTH COMP., COTTON ROOT BARK, DAMIANA, ERGOT, GELSEMIUM, GENTIAN, HAMAMELIS LEAF, HYDRASTIS, HYOSCYAMUS, IPECAC, JALAP, LEPTANDRA, NUX VOMICA, PHYTOLACCA, PODOPHYLLUM, RHUBARB, STRAMONIUM, SUMBUL, TARAXACUM, VALERIAN, VIBURNUM PRUNIFOLIUM; ALSO BY THE FOLLOWING, FOR EXAMPLE, IN THE FORM OF SOLID EXTRACTS: BELLADONNA, GENTIAN, GLYCYRRHIZA, STRAMONIUM, TARAXACUM; ALSO BY THE FOLLOWING, FOR EXAMPLE, IN THE FORM OF GLOBULES (ALSO KNOWN AS PEARLS): BENZYL BENZOATE, COLCHICINE AND METHYL SALICYLATE, COPAIBA, CREOSOTE WITH COD LIVER OIL, CREOSOTE CARBONATE, METHYLENE BLUE COMP., METHYLENE BLUE COMP. (HORWITZ), SANTAL OIL, SANTAL OIL COMP. #2, AND TURPENTINE OIL; ALSO THE FOLLOWING, FOR EXAMPLE, IN THE FORM OF LINIMENTS: CAMPHOR, CAMPHOR AND SOAP, CAMPHORATED WHITE, CHLOROFORM, TURPENTINE ACETIC, AND WHITE LINIMENT; ALSO THE FOLLOWING, FOR EXAMPLE, IN THE FORM OF MEDICATED LOZENGES: BROWN MIXTURE, BROWN MIXTURE MODIFIED (WITHOUT OPIUM), BROWN MIXTURE WITH AMMONIUM CHLORIDE; BROWN MIXTURE WITH AMMONIUM CHLORIDE, MODIFIED, (WITHOUT OPIUM); CHLOROFORM THROAT, EXPECTORANT, EXPECTORANT MENTHOLATED, PEPSIN BISMUTH AND CHARCOAL, PEPSIN BISMUTH MAGNESIA AND GINGER, PEPSIN CHARCOAL MAGNESIA AND GINGER, SULFUR AND CREAM OF TARTAR; ALSO THE FOLLOWING, FOR EXAMPLE, IN THE FORM OF MIXTURES: BISMUTH AND SALOL COMP. MIXTURE WITH PAREGORIC, BROWN MIXTURE (MIXTURE OPIUM AND GLYCHRRHIZA COMP.), COPAIBA MIXTURE, MIXTURE OPIUM AND CHLOROFORM COMPOUND (SQUIBB'S MIXTURE), RHUBARB COMP., SALOL AND COPAIBA COMP., AND STOKE'S EXPECTORANT (MISTURA PECTORALIS); ALSO THE FOLLOWING, FOR EXAMPLE, IN THE FORM OF NARCOTIC ELIXIRS: MORPHINE AROMATIC; ALSO THE FOLLOWING, FOR EXAMPLE, IN THE FORM OF NARCOTIC FLUID EXTRACTS: OPIUM CAMPHORATED FOR MAKING TINCT. OPIUM CAMPHORATED (PAREGORIC), OPIUM CONCENTRATED FOR MAKING TINCT. OPIUM (LAUDANUM); ALSO THE FOLLOWING, FOR EXAMPLE, IN THE FORM OF NARCOTIC POWDERED EXTRACTS: OPIUM; ALSO THE FOLLOWING, FOR EXAMPLE, IN THE FORM OF NARCOTIC PILLS AND GRANULES: OPIUM AND LEAD; ALSO THE FOLLOWING, FOR EXAMPLE, IN THE FORM OF NARCOTIC POWDERS: IPECAC AND OPIUM; ALSO THE FOLLOWING, FOR EXAMPLE, IN THE FORM OF NARCOTIC SUPPOSITORIES: CACAO BUTTER; ALSO THE FOLLOWING, FOR EXAMPLE, IN THE FORM OF NARCOTIC SYRUPS: IPECAC AND OPIUM (DOVER'S POWDER); ALSO THE FOLLOWING, FOR EXAMPLE, IN THE FORM OF NARCOTIC TABLETS: ACETANILID COMP. WITH CODEINE, BISMUTH-CERIUM COMPOUND, BROWN MIXTURE, CHLORODYNE, CHLORODYNE (HALF STRENGTH), COCAINE HYDROCHLORIDE, CODEINE SULFATE, CORYZA, DOVER'S POWDER, LEAD-OPIUM COMP., MORPHINE SULFATE, MORPHINE AND ATROPINE, OPIUM POWDERED, OPIUM AND LEAD, SUN MIXTURE; ALSO THE FOLLOWING, FOR EXAMPLE, IN THE FORM OF NARCOTIC DISPENSARY TABLETS: COCAINE HYDROCHLORIDE, CODEINE SULFATE, MORPHINE SULFATE; ALSO THE FOLLOWING, FOR EXAMPLE, IN THE FORM OF NARCOTIC HYPODERMIC TABLETS: APOMORPHINE HYDROCHLORIDE, COCAINE HYDROCHLORIDE, CODEINE PHOSPHATE, CODEINE SULFATE, MORPHINE SULFATE, MORPHINE AND ATROPINE, MORPHINE AND SCOPOLAMINE, MORPHINE AND SCOPOLAMINE COMP. ALSO THE FOLLOWING, FOR EXAMPLE, IN THE FORM OF NARCOTIC TINCTURES: IPECAC AND OPIUM, OPIUM, OPIUM COMP. ALSO THE FOLLOWING, FOR EXAMPLE, IN THE FORM OF OINTMENTS: ACID CARBOLIC AND ZINC OXIDE COMP., ALUM COMP., AMMONIATED MERCURY, ASTRINGENT COMP., BASILICON (CERATE RESIN), BELLADONNA, BENZOIC ACID COMP. (WHITFIELD'S OINTMENT), BISMUTH-FORMIC-IODIDE COMP., BLUE (MERCURIAL), BORIC ACID, CALOMEL, CAPSICUM AND CAMPHOR COMPOUND, CARRON OIL, CITRINE, COLD CREAM, DIACHYLON, EPHEDRINE, ESKAR, GELATIN COMPOUND PHENOLIZED, GLYKOL, PROPHYLACTIC, "ICHTHYOL," KAROL, LANOLIN, LEAD OLEATE, LIP SALVE, NASAL EMOLLIENT, MERCURIAL, MERCURIC NITRATE, METHYL SALICYLATE WITH MENTHOL, NUTGALL, PHENOL, PINE TAR, PHENYL-PROPANOL-AMINE HYDROCHLORIDE, RESORCINOL COMPOUND, CAPSICUM AND CAMPHOR COMPOUND, SILVER PROTEIN MILD, SIMPLE, STRAMONIUM SULFUR, SULFUR AND "ICHTHYOL" COMPOUND, SULFUR COMPOUND, TANNIC ACID, UNGUENTUM TERRALIS, WHITE PRECIPITATE, ZINC OXIDE, ZINC OXIDE COMPOUND, ZINC OXIDE PASTE, ZINC OXIDE PASTE WITH SALICYLIC ACID; ALSO THE FOLLOWING FOR EXAMPLE, IN THE FORM OF OPHTHALMIC OINTMENTS: AMMONIATED MERCURY, ATROPINE SULFATE, BORIC ACID, SILVER PROTEIN MILD, CONJUNCTIVITIS, COPPER CITRATE, "ICHTHYOL," MERCURIC OXIDE YELLOW, MERCURY BICHLORIDE; ALSO THE FOLLOWING, FOR EXAMPLE, IN THE FORM OF OLEATES: MERCURY; ALSO THE FOLLOWING, FOR EXAMPLE, IN THE FORM OF OLEORESINS: ASPIDIUM, CAPSICUM, AND CUBEB; ALSO THE FOLLOWING, FOR EXAMPLE, IN THE FORM OF PILLS AND GRANULES: ALOE, ALOE COMPOUND, ALOE AND MASTIC, ALOE AND PODOPHYLLIN COMPOUND, ALOIN, ALOIN STRYCHNINE AND BELLADONNA, ALOIN STRYCHNINE BELLADONNA AND CASCARA, ARSENIC TRIOXIDE, ASAFETIDA, BLAUD MASS, BLAUD'S (FERROUS CARBONATE), BLAUD ARSENIC AND NUX VOMICA, BLAUD ARSENIC AND STRYCHNINE, BLAUD ARSENIC STRYCHNINE AND COROSIVE SUBLIMATE COMPOUND, BLAUD ARSENIC AND NUX VOMICA COMPOUND, BLAUD WITH ARSENIC, BLAUD WITH STRYCHNINE, BLUE MASS, BLUE MASS COMPOUND, BLUE MASS AND COLOCYNTH COMPOUND, CACTUS NITROGLYCERIN AND STRYCHNINE COMPOUND, CALCIUM SULFIDE, CALOMEL DIGITALIS AND SQUILL, CASCARA COMPOUND WITH STRYCHNINE, CASCARA COMPOUND WITH STRYCHNINE (MODIFIED), CASCARA COMPOUND WITHOUT STRYCHNINE, CASCARA SAGRADA EXTRACT, CATHARTIC COMPOUND, CATHARTIC GRANULES, CATHARTIC VEGETABLE, COLOCYNTH AND JALAP COMPOUND, COLOCYNTH BLUE MASS AND STRYCHNINE COMPOUND, DIGITALIS SQUILL AND MERCURY, DINNER (LADY WEBSTER) OTHERWISE KNOWN AS ALOE AND MASTIC N. F., DIURETIC SPECIAL, ERGOTIN, ERGOTIN AND ALOE COMPOUND, FERROUS IODIDE, GLONOIN, HEXYLRESORCINOL, "ICHTHYOL," IRON IODIDE, IRON QUININE AND STRYCHNINE, IRON QUININE AND ZINC VALERATES, IRON QUININE STRYCHNINE AND ARSENIC (AITKEN), LAPACTICAE, MERCURIC OXIDE RED, MERCURIC OXIDE YELLOW, METHYLENE BLUE, METHYLENE BLUE AND KAVA KAVA COMPOUND, NITROGLYCERIN, PHENOLPHTHALEIN ALOIN AND STRYCHNINE COMPOUND, PHOSPHORUS AMORPHOUS, PHOSPHORUS NUX VOMICA AND DAMIANA, PODOPHYLLIN, PODOPHYLLIN COMPOUND, POSTPARTUM, QUININE ARSENIC AND STRYCHNINE COMPOUND, QUININE SULFATE, RHUBARB COMPOUND, SILVER NITRATE, STRYCHNINE SULFATE, SUMBUL AND ARSENIC COMPOUND, THREE VALERIANATES, TONIC (AITKEN), WARBURG'S (ANTIPERIODIC); ALSO THE FOLLOWING, FOR EXAMPLE, IN THE FORM OF SOLUTIONS: ACID PHOSPHATES, ALKALINE AROMATIC, ANTISEPTIC, ARSENOUS AND MERCURIC IODIDE, BOROGLYCERIDE, HEXYLRESORCINOL IN OIL, CRESOL SAPONATED, HEPTYLRESORCINOL IN OIL, EPHEDRINE, FERRI-MANGAN COMPOUND, FERROUS IODIDE CONCENTRATED, FOWLER'S (POTASSIUM ARSENITE), GOLD BROMIDE AND ARSENIC, HEXYLRESORCINOL IN GLYCERIN, HYDRASTINE AND BISMUTH, HYDRASTINE COLORLESS, HYDRIODIC ACID, HYPOPHOSPHITES COMPOUND, INTERSTITIAL SALT SOLUTION, IRON CHLORIDE, IRON SUBSULFATE, LEAD SUBACETATE, NITROGLYCERIN, PHENYL-PROPANOL-AMINE HYDROCHLORIDE, RINGER'S SOLUTION CONCENTRATED, SILVER NITRATE, AND TANNIC ACID; ALSO THE FOLLOWING, FOR EXAMPLE, IN THE FORM OF SPIRITS: AMMONIA AROMATIC, CAMPHOR, CHLOROFORM, ETHER COMPOUND, HOFFMAN'S ANODYNE, LEMON ESSENCE, NITROGLYCERIN, AND PEPPERMINT ESSENCE; ALSO THE FOLLOWING, FOR EXAMPLE, IN THE FORM OF SUPPOSITORIES: CACAO BUTTER (RECTAL) AND VARIOUS OTHER FORMS AND COMPOSITIONS OF SUPPOSITORIES, TANNIC ACID AND "ICHTHYOL" COMPOUND, BOROGLYCERIDE (VAGINAL), "ICHTHYOL" COMPOUND, AND GLYCERIN (RECTAL); ALSO THE FOLLOWING, FOR EXAMPLE, IN THE FORM OF SYRUPS: AMMONIUM CHLORIDE IPECAC AND SQUILL COMPOUND, AMMONIUM HYPOPHOSPHITE, BROMIDES, CALCIUM LACTOPHOSPHATE, CHERRY, CINCHONA, ALKALOIDS, CODEINE AND EUCALYPTUS COMPOUND, DOVER'S POWDER, FERROUS IODIDE, HYDRIODIC ACID, HYPOPHOSPHITES, HYPOPHOSPHITES COMPOUND, HYPOPHOSPHITES COMPOUND CLEAR, HYPOPHOSPHITES COMPOUND CLOUDY (SIX HYPOPHOSPHITES), IPECAC, IPECAC AND PHOSPHORIC ACID COMPOUND WITH CODEINE, PINE TAR, PINUS ALBA COMPOUND WITH EUCALYPTOL AND HONEY, TRIFOLIUM AND IODIDE COMPOUND, RHUBARB, RHUBARB AROMATIC, SARSAPARILLA COMPOUND, SQUILL, SQUILL COMPOUND, TAR, TOLU, BALSAM, TOLU AND CODEINE COMPOUND, TONIC HYPOPHOSPHITES, WHITE PINE COMPOUND, WHITE PINE COMPOUND WITH MORPHINE, WHITE PINE COMPOUND WITH TAR, WHITE PINE COMPOUND WITH CODEINE, WHITE PINE COMPOUND WITH MORPHINE AND TAR, WHITE PINE COMPOUND WITHOUT MORPHINE, WHITE PIINE COMPOUND WITH OUT MORPHINE WITH TAR, WILD CHERRY, WILD CHERRY AND GUAIACOL WITH MALT AND TAR, YERBA SANTA AROMATIC; ALSO THE FOLLOWING, FOR EXAMPLE, IN THE FORM OF POWDERS: BORIC ACID, BORIC ACID AND PROCAINE, CHALK COMPOUND, JALAP COMPOUND, PHENOLATED BORIC ACID AND ALUM COMPOUND, SENNA COMPOUND, SODIUM PHOSPHATE GRANULAR, ZINC OXIDE, ZINC SULFATE COMPOUND; ALSO THE FOLLOWING, FOR EXAMPLE, IN THE FORM OF TABLETS (INCLUDING TABLET TRITURATES, COMPRESSED TABLETS, SUGAR-COATED TABLETS AND CHOCOLATE-COATED TABLETS): ACETANILID, ACETANILID CAFFEINE AND SODA, ACETANILID COMPOUND, ACETANILID AND CAFFEINE COMPOUND, ACETANILID AND CAFFEINE COMPOUND WITH CODEINE, ACETANILID CAFFEINE AND SODA COMPOUND, ACETANILID AND HYOSCYAMUS COMPOUND, ACETYLSALICYLIC ACID COMPOUND, ACETYLSALICYLIC ACID COMPOUND WITH CODEINE PHOSPHATE, ACETYLSALICYLIC ACID, ACETYLSALICYLIC ACID FLAVORED WITH WINTERGREEN, ACONITE-BICHROMATE COMPOUND, ACONITE-BINIODIDE COMPOUND, ALKALINE AROMATIC, ALOIN BELLADONNA PODOPHYLLIN AND NUX VOMICA, ALOIN BELLADONNA STRYCHNINE AND CASCARA, ALOIN CASCARIN AND PODOPHYLLIN COMPOUND, ALOIN STRYCHNINE AND BELLADONNA, ALOIN STRYCHNINE BELLADONNA AND IPECAC, AMINOPYRINE, AMMONIUM CHLORIDE, AMMONIUM CHLORIDE AND CUBEB COMPOUND, AMMONIUM SALICYLATE, AMMONIUM SALICYLATE AND PHENACETIN, ANALGINE (ACETANILID AND SODIUM SALICYLATE COMPOUND), ANODYNE INFANTS (WAUGH), ANODYNE COMPOUND (ACETANILID COMPOUND POWDER), ANTACID, ANTIASTHMATIC (EUPHORBIA COMPOUND), ANTICONSTIPATION (CASCARA NUX VOMICA AND PODOPHYLLIN COMPOUND), ARSENIC-SULFUR COMPOUND, ARSENIC TRIOXIDE, ASAFETIDA, ASAFETIDA NUX VOMICA AND ZINC PHOSPHIDE COMPOUND RX A, ATROPINE SULFATE, BARBITAL, BELLADONNA EXTRACT, BELLADONNA CUBEB AND NUX VOMICA COMPOUND, BISMUTH BETANAPHTHOL AND ZINC PHENOLSULFONATE COMPOUND, BISMUTH SUBCARBONATE, BISMUTH SUBGALLATE, BISMUTH SUBNITRATE, BISMUTH AND MAGNESIA, BISMUTH AND PAREGORIC COMPOUND, BISMUTH AND PEPSIN COMPOUND, BISMUTH-SALOL COMPOUND, BISMUTH MAGNESIA AND SODA, BITTER TONIC, BLANK (NOT MEDICATED), BLAUD (BLAUD'S MASS), BLAUD ARSENIC AND STRYCHNINE COMPOUND, BLAUD ARSENIC STRYCHNINE AND COROSIVE SUBLIMATE COMPOUND, BLAUD ARSENIC STRYCHNINE AND MANGANESE COMPOUND, BLAUD LAXATIVE COMPOUND WITH ARSENIC AND STRYCHNINE, BLAUD WITH ARSENIC, BLAUD NUX VOMICA AND CASCARA, BLAUD NUX VOMICA CASCARA AND ARSENIC, BORIC ACID, BORIC ACID AND ZINC SULFOCARBOLATE, BROWN MIXTURE MODIFIED (WITHOUT OPIUM), BROWN MIXTURE COMPOUND WITH AMMONIUM CHLORIDE, BUCHU AND HYOSCYAMUS COMPOUND, BUCHU AND ATROPHINE COMPOUND ACID, BUCHU AND ATROPINE COMPOUND ALKALINE, CACTUS AND STRYCHNINE COMPOUND, CAFFEINE CITRATED, CALCIUM CARBONATE AROMATIC, CALCIUM GLUCONATE, CALCIUM HYDROXIDE, CALCIUM IODIDE, CALCIUM LACTATE, CALCIUM LACTATE COMPOUND, CALCIUM SULFIDE, CALOMEL (MERCUROUS CHLORIDE MILD), CALOMEL COMPOUND, CALOMEL IPECAC AND SODA, CALOMEL AND PHENOLPHTHALEIN, CALOMEL AND RHUBARB, CALOMEL AND RHUBARB COMPOUND, CALOMEL RHUBARB AND COLOCYNTH COMPOUND, CALOMEL AND SODA, CALOMEL SODA AND PODOPHYLLIN, CAMPHOR HYOSCYAMUS AND VALERIAN, CASCARA COMPOUND, CASCARA COMPOUND WITH STRYCHNINE, CASCARA COMPOUND WITH STRYCHNINE MODIFIED, CASCARA COMPOUND WITHOUT STRYCHNINE, CASCARA AND PODOPHYLLIN COMPOUND, CASCARA NUX VOMICA AND PODOPHYLLIN COMPOUND, CASCARA SAGRADA EXTRACT, CASCARIN ALOIN AND PODOPHYLLIN COMPOUND, CATHARTIC ACTIVE, CATHARTIC VEGETABLE, CATHARTIC COMPOUND, CATHARTIC COMPOUND IMPROVED, CERIUM OXALATE, CHARCOAL, CHARCOAL AND PEPSIN, CHARCOAL AND PEPSIN COMPOUND, CHLORAL HYDRATE, CHROMIUM SULFATE, CINCOPHEN, COLCHICINE, COLD LAXATIVE, COLD LAXATIVE FOR CHILDREN, COLOCYNTH IPECAC AND BLUE MASS, CONJUNCTIVITIS (LOCAL USE), COPAIBA AND CUBEB COMPOUND, COPPER ARSENITE, CORYZA, CREOSOTE, CUBEB AND COPAIBA COMPOUND, CYSTITIS, DAMIANA NUX VOMICA AND ZINC PHOSPHIDE

COMPOUND, DERMATITIS, DIARRHEA, DIASTASE AND PEPSIN COMPOUND, DIETHYLBARBITURIC ACID, DIGESTIVE AROMATIC, DIGITALIN PURE, DIGITALIS AND STROPHANTHUS, DIURETIC, DOBELL SOLUTION, DOVER'S POWDER, ENDOMETRITIS, ENZYME COMPOUND AROMATIC, ERGOTIN, ERGOTIN AND ALOE COMPOUND, EUPHORBIA IODIDE AND BROMIDE COMPOUND, EXPECTORANT, FEVER, FLATULENCE, FOLLICULAR TONSILLITIS, FORMIN, GALLIC ACID AND HYDRASTIN COMPOUND, GALITHOS, GARGLE, GENTIAN STRYCHNINE AND RHUBARB COMPOUND, GOLD AND SODIUM CHLORIDE, GUAIAC COLCHICINE AND IODIDE COMPOUND, HEART STIMULANT, HEPATIC, HEXAMETHYLENAMINE, HEXAMETHYLENAMINE WITH SODIUM ACID PHOSPHATE, HYOSCINE HYDROBROMIDE, INCONTINENCE, INFANT (IVES), IODO-CASEIN, IODO-CASEIN WITH CHOCOLATE, IPECAC AND ANTIMONY, IPECAC AND OPIUM, IRON ARSENIC AND STRYCHNINE, IRON OXIDE SACCHARATED, IRON QUININE AND STRYCHNINE, IRON QUININE STRYCHNINE AND ARSENIC, IRON REDUCED, KISSINGEN ARTIFICIAL EFFERVESCENT, LEAD-OPIUM COMPOUND, LIME WATER, LITHIUM CITRATE EFFERVESCENT, LITHIUM SALICYLATE AND COLCHICINE COMPOUND, LITHIUM AND SODIUM SALICYLATE, LITHOS EFFERVESCENT, MAGNESIA AND SODA, MAGNESIUM SALICYLATE, MAGNESIUM TRISILICATE, MANGANESE DIOXIDE, MENORRHAGIC, MERCURIC IODIDE RED, MERCUROUS CHLORIDE MILD, MERCUROUS IODIDE YELLOW, MERCURY WITH CHALK, METHENAMINE (HEXAMETHYLENAMINE), METHENAMINE WITH SODIUM ACID PHOSPHATE, METHYLENAMINE BLUE, METHYLENE BLUE COMPOUND, METHYLENAMINE BLUE AND KAVA KAVA COMPOUND, MIGRAINE, MIXED TREATMENT, NEOCINCHOPHEN, NEPHRITIC, NITROGLYCERIN, NITROGLYCERIN AND DIGITALIS COMPOUND, NITROGLYCERIN DIGITALIS AND STRYCHNINE COMPOUND, NITROGLYCERIN DIGITALIN AND STRYCHNINE, NORMAL SALT, NUX VOMICA EXTRACT, NUX VOMICA AND PEPSIN, OXGALL AND NUX VOMICA COMPOUND, PAPAIN AND SODA COMPOUND, PAPOYDIN AND PANCREATIN COMPOUND, PEPSIN SACCHARATED, PEPSIN WITH AROMATICS, PEPSIN BISMUTH AND CHARCOAL, PEPSIN AND CHARCOAL, PEPSIN AND NUX VOMICA, PEPSIN PANCREATIN AND NUX VOMICA COMPOUND, PHENACETIN (ACETOPHENETIDIN), PHENACETIN AND QUININE, PHENACETIN AND SALOL, PHENOLPHTHALEIN AND ALOIN COMPOUND, PHENOBARBITAL, PHENOBARBITAL SOLUBLE (PHENOBARBITAL SODIUM), PHENOLPHTHALEIN, PHENOLPHTHALEIN AND CHOCOLATE, PHENYLCINCHONINIC ACID, PHOSPHORUS NUX VOMICA AND DAMIANA, PLACEBO (BLANK), PODOPHYLLIN, PODOPHYLLIN AND ALOIN COMPOUND, POTASSIUM BICARBONATE, POTASSIUM BROMIDE, POTASSIUM CHLORATE, POTASSIUM IODIDE, POTASSIUM PERMANGANATE, PROCAINE HYDROCHLORIDE SOLUBLE (MAKING EXTEMPORANEOUS SOLUTIONS), QUININE ARSENIC STRYCHNINE AND CORROSIVE SUBLIMATE COMPOUND, QUININE BISULFATE, QUININE LAXATIVE COMPOUND WITH ACETANILID AND PODOPHYLLIN, QUININE SULFATE, RHEUMATIC (LITHIUM SALICYLATE AND COLCHICINE COMPOUND), RHEUMATIC THROAT (SALICYLATE COMPOUND, QUINLAN), RHINITIS FULL STRENGTH, RHINITIS HALF STRENGTH, RHUBARB AND ALOE COMPOUND, RHUBARB POWDERED, RHUBARB IPECAC AND NUX VOMICA, COMPOUND, RHUBARB IPECAC AND SODA COMPOUND, RHUBARB AND SODA, RHUBARB AND SODA COMPOUND, RINGER SOLUTION, SACCHARIN SOLUBLE, SALICIN, SALICYLATE AND COLCHICUM COMPOUND, SALICYLIC ACID AND COLCHICUM COMPOUND, SALOL, SANTONIN, SANTONIN AND CALOMEL, SCOPOLAMINE HYDROBROMIDE, SEDATIVE, SEDATIVE MODIFIED, SODA MINT, SODA MINT AND CHARCOAL, SODA MINT AND PEPSIN, SODIUM ACID PHOSPHATE, SODIUM BENZOATE, SODIUM BICARBONATE, SODIUM BROMIDE, SODIUM CHLORIDE, SODIUM NITRITE, SODIUM OLEATE COMPOUND, SODIUM OXY-MERCURY-ORTHO-PHENOLATE, SODIUM PHENOBARBITAL, SODIUM SALICYLATE, SODIUM SUCCINATE, SPARTEINE SULFATE, STRONTIUM BROMIDE, STRONTIUM SALICYLATE, STROPHANTHUS AND DIGITALIS, STRYCHNINE NITRATE, STRYCHNINE SULFATE, SULFANILAMIDE, SULFOCARBOLATES COMBINED, SULFONAL (SULFONMETHANE), SULFONETHYLMETHANE (TRIONAL), SULFUR AND ARSENIC COMPOUND, SULFUR AND CREAM OF TARTAR, SUMBUL AND ARSENIC COMPOUND, SUN CHOLERA, SUN MIXTURE WITHOUT OPIUM, TANNIN CASEINATE, TARTAR EMETIC AND IPECAC, TERPIN HYDRATE, TERPIN HYDRATE COMPOUND PREFERRED, TERPIN HYDRATE AND STRYCHNINE COMPOUND, THEOBROMINE AND PHENOBARBITAL, THEOBROMINE WITH SODIUM SALICYLATE, SODIUM CHLORIDE AND DEXTROSE, THREE IODIDES, THROAT MENTHOLATED MODIFIED, TONIC (AITKEN), TONIC FOR CHILDREN, TONSILLITIS, TONSILLITIS GARGLE, TONSILLITIS IMPROVED, TRIONAL TRIPLE BROMIDES, VAGINAL DOUCHE ASTRINGENT, VIBURNUM AND HELONIAS COMPOUND, VIBURNUM AND NUX VOMICA COMPOUND, VICHY ARTIFICAL EFFERVESCENT, WARBURG'S TINCTURE, ZINC SULFOCARBOLATE; ALSO THE FOLLOWING, FOR EXAMPLE, IN THE FORM OF DISPENSARY TABLETS: ARSENIC TRIOXIDE, ATROPINE SULFATE, MERCURY BICHLORIDE (CORROSIVE SUBLIMATE), STRYCHNINE SULFATE; ALSO THE FOLLOWING, FOR EXAMPLE, IN THE FORM OF SOLUBLE HYPODERMIC TABLETS: ACONITINE, ATROPINE SULFATE, BLANK (PLACEBO) NOT MEDICATED, BORIC ACID AND PROCAINE, CAFFEINE WITH SODIUM BENZOATE, CARDIAC, DIGITALIN PURE, DIGITALIN AND STRYCHNINE, EMETINE HYDROCHLORIDE, ESERINE SALICYLATE, ESERINE SULFATE, GLONOIN, HYOSCINE HYDROBROMIDE, HYOSCINE AND MORPHINE, MERCURY SUCCINIMIDE, NITROGLYCERIN, NITROGLYCERIN DIGITALIN AND STRYCHNINE, NORMAL SALT (PHYSIOLOGICAL SALT), PHYSOSTIGMINE SALICYLATE, PHYSOSTIGMINE SULFATE, PILOCARPINE HYDROCHLORIDE, PLACEBO (BLANK), PROCAINE HYDROCHLORIDE, QUININE AND UREA HYDROCHLORIDE, RINGER SOLUTION, SCOPOLAMINE HYDROBROMIDE, SPARTEINE SULFATE, STRYCHNINE NITRATE, STRYCHNINE SULFATE; ALSO THE FOLLOWING, FOR EXAMPLE, IN THE FORM OF TINCTURES: ACONITE, ALOE, ALOE AND MYRRH, ARNICA, ASAFETIDA, BELLADONNA, BENZOIN, BENZOIN COMPOUND, BRYONIA, CALUMBA, CANTHARIDES, CAPSICUM, CAPSICUM AND MYRRH, CARDAMON COMPOUND, CIMICIFUGA, CINCHINA, CINCHINA COMPOUND, COLCHICUM SEED, DIGITALIS, FERRIC CHLORIDE, FERRIC CITROCHLORIDE, GAMBIR COMPOUND, GELSEMIUM, GENTIAN, GENTIAN COMPOUND, GUAIAC, GUAIAC AMMONIATED, HYDRASTIS, HYOSCYAMUS, IODIDES, IODINE IPECAC AND OPIUM, KINO, KRAMERIA (RHATANY), LAVENDER COMPOUND, LOBELIA, MYRRH, NUX VOMICA, OPIUM CAMPHORATED, PHYSOSTIGMA, QUASSIA, RHUBARB COMPOUND, RHUBARB AROMATIC, RHUS TOXICODENDRON (POISON IVY), SANGUINARIA, STRAMONIUM, STROPHANTHUS, TOLU BALSAM, VALERIAN, VALERIAN AMMONIATED, VIBURNUM OPULUS COMPOUND (WARBURG), AND WARBURG WITHOUT ALOE; ALSO THE FOLLOWING, FOR EXAMPLE, IN THE FORM OF WATER: CAMPHOR, CHERRY, LAUREL, CINNAMON, ORANGE FLOWER, PEPPERMINT, AND ROSE; ALSO THE FOLLOWING, FOR EXAMPLE, IN THE FORM OF WINES: ANTIMONIAL, BEEF WINE AND IRON, BITTER WINE OF IRON, COLCHICUM CORM, COLCHICUM SEED, IPECAC; ALSO THE FOLLOWING, FOR EXAMPLE, IN THE FORM OF MISCELLANEOUS PRODUCTS: ANTISEPTIC TABLETS MERCURY BICHLORIDE (BERNAY'S), ANTISEPTIC TABLETS MERCURY BICHLORIDE U. S. P. WILSON'S FORMULA, ANTISEPTIC TABLETS MERCURY CYANIDE, ASTRINGENT GARGLE, BISMUTH SUBSALICYLATE IN OIL, BROWN MIXTURE, CASTOR OIL AROMATIC, CATAPLASM OF KAOLIN, COD LIVER OIL PURE NORWEGIAN U. S. P.; COLORING AND FLAVORING SOLUTIONS INCLUDING LIQUOR AURANTII DULC, LIQUOR FUSCUS DULC, LIQUOR ROSAE DULC; EPHEDRINE PREPARATIONS INCLUDING AMPULS EPHEDRINE SULFATE, DRY-FILLED CAPSULES EPHEDRINE HYDROCHLORIDE, DRY-FILLED CAPSULES, EPHEDRINE SULFATE, OINTMENT EPHEDRINE NASAL CREAM, EPHEDRINE HYDROCHLORIDE SOLUTION, EPHEDRINE INHALANT PLAIN, EPHEDRIN INHALANT COMPOUND, EPHEDRIN SULFATE 3%; ERGOTIN BONJEAN, ETHYL CHLORIDE U. S. P., GELATIN COMPOUND PHENOLIZED; GLANDULAR PRODUCTS, FOR EXAMPLE, THE FOLLOWING, ADRENAL COMP. RECTAL SUPPOSITORIES, ADRIN SOLUTION; CORPUS LUTEUM DESICCATED POWDER, AMPULS OF CORPUS-LUTEUM EXTRACT, DRY-FILLED CAPSULES, COMPRESSED TABLETS, CHOCOLATE-COATED TABLETS; EPINEPHRIN HYDROCHLORIDE SOLUTION, INSULIN, LIVER EXTRACT; OVARIAN SUBSTANCE DESICCATED (WHOLE OVARY) POWDER, OVARIAN EXTRACT AMPULS, DRY-FILLED CAPSULES, COMPRESSED TABLETS, CHOCOLATE-COATED TABLETS; OVARIAN RESIDUE DESICCATED POWDER, OVARIAN RESIDUE EXTRACT AMPULS; PARATHYROID GLAND DESICCATED COMPRESSED TABLETS; PITUITARY EXTRACT AMPULS, AMPULS SURGICAL; PITUITARY BODY, WHOLE GLAND, DESICCATED; PITUITARY BODY, ANTERIOR LOBE, DESICCATED POWDER, AMPULS, TABLETS; THYROID GLANDS DESICCATED POWDER, TABLETS; INSULIN-FREE EXTRACT OF PANCREAS; IMITATION VIOLET FLAVOR LOZENGES; MENTHYMOL CRYSTAL PASTILLES; SOFT SOAP LINIMENT; MILK OF MAGNESIA, MINERAL OIL; OXGALL INSPISSATED; OXGALL POWDERED EXTRACT; PANCREATIN; PEPSIN POWDERED AND SPONGY GRANULES; PEPSIN ESSENCE; PEPSIN LACTICATED POWDERED; PEPSIN SACCHARATED; PETROLATUM LIQUID, PETROLATUM WHITE, PETROLATUM YELLOW; RENNIN, SANTAL OIL, SILVER NITRATE SOLUTION (WAX AMPULS); PRESCRIPTION INGREDIENTS, NAMELY, COFFEE SOLUBLE CONCENTRATED EXTRACT ROOT BEER FLAVOR, AND VANILLA PRODUCTS; SODIUM PHOSPHATE GRANULAR; EXTRACT OF VANILLA FOR PHARMACEUTICAL USE, IMITATION EXTRACT OF VANILLA FOR PHARMACEUTICAL USE, TINCTURE VANILLA FOR PHARMACEUTICAL USE; ZINC OXIDE U. S. P. POWDERED; PHENOLS, CRESOLS AND RESORCINOLS AND ALKYL AND AMINO AND ALKYL DERIVATIVES THEREOF, DERIVATIVES OF BARBITURIC ACID, SULFANILAMIDE AND DERIVATIVES OF SULFANILAMIDE AND COMPOSITIONS CONTAINING THEM, PREPARATIONS FOR TREATMENT OF AFFECTIONS OF THE NERVOUS SYSTEM, AND ALKALOID COMPOSITIONS.

Claims use since Apr. 2, 1930, on antiseptic solutions, antiseptic lozenges and tooth paste; since on or about Nov. 4, 1931, on a preparation of essential dietary factors, dietary supplement, tonics; and since on or about Oct. 15, 1938, on all the other goods.

Ser. No. 454,788. WALLACE & TIERNAN PRODUCTS INCORPORATED, Belleville, N. J. Filed Aug. 7, 1942.

SULFAFILM

FOR GERMICIDAL COMPOSITIONS.
Claims use since July 19, 1942.

Ser. No. 455,271. ERIC LOCKE, doing business as Locke and Company, Los Angeles, Calif. Filed Sept. 2, 1942.

OVOCALCIUM

FOR CALCIUM PREPARATION USED IN THE TREATMENT OF CALCIUM DEFICIENCY.
Claims use since Feb. 5, 1942.

Ser. No. 457,476. SPIROS C. MARKATOS, doing business as Diamond Products M'f'g Co., New York, N. Y. Filed Dec. 17, 1942.

DIAMOND

FOR CHEMICAL COMPOUND FOR BLEACHING HATS.
Claims use since Mar. 1, 1910.

Ser. No. 457,543. MAX FACTOR & Co., Los Angeles, Calif. Filed Dec. 21, 1942.
The words "Cake Make-Up" are disclaimed apart from the mark.

PAN-CAKE MAKE-UP

FOR COSMETIC IN THE NATURE OF A SOLIDIFIED CREAM USED FOR A MAKE-UP BASE.
Claims use since Jan. 2, 1935.

Ser. No. 457,544. MAX FACTOR & Co., Los Angeles, Calif. Filed Dec. 21, 1942.
All words other than the word "Pan" are disclaimed apart from the mark.



FOR COSMETIC IN THE NATURE OF A SOLIDIFIED CREAM USED FOR A MAKE-UP BASE.
Claims use since Jan. 2, 1935.

Ser. No. 457,612. EDWARD M. B. OWNEN, doing business as Hi-Lo Products, St. Louis, Mo. Filed Dec. 26, 1942.

No claim is made to the words "Balanced Vitamins and Minerals" apart from the mark.



FOR VITAMIN AND MINERAL PRODUCT.
Claims use since October, 1941.

Ser. No. 458,762. SCHUTTE LABORATORIES, Beaver Falls, Pa. Filed Feb. 25, 1943.

The term "Rat" is disclaimed apart from the mark.

RAT MASTER

FOR POISON IN PASTE FORM FOR RODENTS AND ROACHES.
Claims use since Dec. 22, 1941.

Ser. No. 459,819. FREDERICK M. TURNBULL, Los Angeles, Calif. Filed Apr. 12, 1943.

The word "Plastic" is disclaimed apart from the mark.

SULFA-PLASTIC

FOR MEDICATED SURGICAL DRESSING FOR BURNS, WOUNDS, ABRASIONS, AND OPENINGS AND INFECTIONS OR THE LIKE IN SKIN AND MEMBRANE.
Claims use since Mar. 9, 1943.

Ser. No. 460,001. WENDEL KIRSCH, New York, N. Y. Filed Apr. 19, 1943.

The illustration is fanciful.



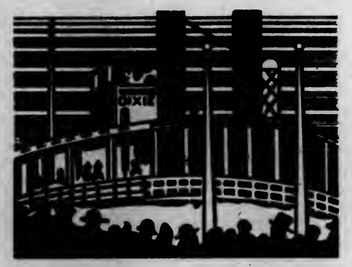
FOR HAND AND SKIN LOTIONS.
Claims use since August, 1942.

Ser. No. 460,107. MARY E. FESLER, doing business as Geo. C. V. Fesler Company, Montgomery, Ala. Filed Apr. 23, 1943.

TRICHOTINE

FOR MEDICINAL POWDER FOR VAGINAL IRRIGATION.
Claims use since Aug. 6, 1936.

Ser. No. 460,159. THE PENNSYLVANIA SALT MANUFACTURING COMPANY, Philadelphia, Pa. Filed Apr. 24, 1943.



FOR LYE.
Claims use since July, 1934.

Ser. No. 460,402. HOUSE OF WESTMORE, INC., New York, N. Y. Filed May 4, 1943.

JAROL

FOR LIPSTICKS AND DRY OR CAKE ROUGE.
Claims use since Dec. 14, 1942.

Ser. No. 460,408. SMITH, KLINE & FRENCH LABORATORIES, Philadelphia, Pa. Filed May 4, 1943.

MICRAFORMA

FOR SULFONAMIDES AND PREPARATIONS CONTAINING A SULFONAMIDE.
Claims use since Apr. 22, 1943.

Ser. No. 460,672. ALEX KERR, BRO. & CO., INC., Philadelphia, Pa. Filed May 17, 1943.

KERROCK

FOR SALT FOR INDUSTRIAL PURPOSES.
Claims use since Apr. 27, 1943.

Ser. No. 460,676. PARKE, DAVIS & COMPANY, Detroit, Mich. Filed May 17, 1943.

KALCIN

FOR PREPARATION FOR THE TREATMENT OF MIGRAINE AND ALLIED FUNCTIONAL DISORDERS.
Claims use since Apr. 16, 1943.

Ser. No. 460,678. HELENA RUBINSTEIN, INC., New York, N. Y. Filed May 17, 1943.

BAROQUE

FOR PERFUMES AND TOILET WATERS.
Claims use since Aug. 6, 1936.

Ser. No. 460,686. CLARENCE C. BARRINEAU, doing business as Ceetoe Laboratories, Charleston, S. C. Filed May 18, 1943.



FOR LINIMENT FOR THE TREATMENT OF MUSCULAR PAINS, ARTHRITIS, RHEUMATISM.
Claims use since Apr. 22, 1943.

Ser. No. 460,705. JOHN HUDSON MOORE, INC., New York, N. Y. Filed May 18, 1943.

JUBILANT

FOR PERFUMES AND COLOGNES.
Claims use since Apr. 19, 1943.

Ser. No. 460,707. JOHN HUDSON MOORE, INC., New York, N. Y. Filed May 18, 1943.

SUBMISSION

FOR PERFUME, COLOGNE, AND DUSTING POWDER.
Claims use since Apr. 19, 1943.

Ser. No. 460,783. ATLAS POWDER COMPANY, Wilmington, Del. Filed May 21, 1943.

PYCAL

FOR PLASTICIZING, DISPERSING, AND WETTING AGENTS.
Claims use since Oct. 14, 1941.

CLASS 11

INKS AND INKING MATERIALS

Ser. No. 457,220. A. E. HANDSCHY COMPANY, Chicago, Ill. Filed Dec. 5, 1942.

HANCO

FOR PRINTING INKS, LACQUER SOLUTIONS FOR INTENSIFYING AND PROTECTING THE IMAGE ON LITHOGRAPHIC PLATES AND ALBUMEN DEVELOPING INKS.
Claims use since Apr. 3, 1941.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 458,367. JOHNS-MANVILLE CORPORATION, New York, N. Y. Filed Feb. 6, 1943.

AMOFIL

FOR ASBESTOS FIBER FOR USE AS AN INSULATION FILLER.
Claims use since Jan. 21, 1943.

Ser. No. 458,656. INTEGRAL DOWEL BAR CORPORATION, Chicago, Ill. Filed Feb. 20, 1943.

No claim is made to the word "Bar" except as used in association with the letter "H."

H-BAR

FOR DOWEL UNITS FOR CONCRETE PAVEMENT SLABS.
Claims use since Aug. 23, 1942.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 459,328. CHICAGO FORGING & MANUFACTURING CO., Chicago, Ill. Filed Mar. 25, 1943.

Sealflex

FOR METAL TUBE FITTINGS.
Claims use since Nov. 29, 1942.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 459,519. THE INTERNATIONAL NICKEL COMPANY, INC., New York, N. Y. Filed Mar. 30, 1943.



FOR NICKEL CONTAINING ALLOYS—NAMELY, THOSE CONTAINING NICKEL AND COPPER, IN THE FORM OF BLOOMS, BILLETS, SLABS, SHEET BARS, RODS, PLATE, SHEET, STRIP, TUBING, WIRE, WELDING RODS, CASTINGS, SHOT, AND BLOCK.
Claims use since Apr. 29, 1919.

CLASS 16

PAINTS AND PAINTERS' MATERIALS

Ser. No. 459,440. ROXALIN FLEXIBLE FINISHES, INC., Elizabeth, N. J. Filed Mar. 27, 1943.

PALADIN

FOR LACQUERS, PAINT ENAMELS, VARNISHES, PRIMERS, AND PAINT THINNERS.
Claims use since Mar. 11, 1943.

CLASS 19

VEHICLES, NOT INCLUDING ENGINES

Ser. No. 455,810. VEGA AIRCRAFT CORPORATION, Burbank, Calif. Filed Sept. 26, 1942.



FOR AIRPLANES AND STRUCTURAL PARTS.
Claims use since Aug. 8, 1941.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 459,562. ELECTRONIC LABORATORIES, INCORPORATED, Indianapolis, Ind. Filed Apr. 1, 1943.



FOR ELECTRICAL POWER SUPPLY UNITS FOR CONTROLLING OR RECTIFYING A GIVEN ELECTRIC POWER TO SUIT A USE, CONVERTERS AND INVERTERS, AND PORTABLE RADIO COMMUNICATION APPARATUS AND VISIBLE SIGNALLING APPARATUS FOR PRODUCING A VISIBLE SIGNAL OF LIGHT BY FLASHES OR OTHERWISE AND NOT BY PHYSICAL MOTION OF ANY DEVICE.
Claims use since Feb. 1, 1943.

Ser. No. 459,697. WESTINGHOUSE ELETRIC & MANUFACTURING COMPANY, East Pittsburgh, Pa. Filed Apr. 7, 1943.

MOT-O-TROL

FOR ELECTRONIC APPARATUS FOR CONTROLLING ELECTRIC MOTORS.
Claims use since Feb. 16, 1943.

Ser. No. 460,167. VICTOR J. ANDREW CO., Chicago, Ill. Filed Apr. 26, 1943.
The drawing is lined for red.



FOR RADIO ANTENNA AND TRANSMISSION LINE EQUIPMENT—NAMELY, COAXIAL ANTENNAS, COAXIAL CABLES AND PARTS THEREFOR, COAXIAL CABLE ACCESSORIES, TRANSMITTING INDUCTORS, IMPEDANCE MATCHING AND PHASING DEVICES, PHASE MONITORS, AND ANTENNA CODE BEACONS AND OBSTACLE LIGHTS.
Claims use since June 1940.

Ser. No. 460,168. VICTOR J. ANDREW CO., Chicago, Ill. Filed Apr. 26, 1943.



FOR RADIO ANTENNA AND TRANSMISSION LINE EQUIPMENT—NAMELY, COAXIAL ANTENNAS, COAXIAL CABLES AND PARTS THEREFOR, COAXIAL CABLE ACCESSORIES, TRANSMITTING INDUCTORS, IMPEDANCE MATCHING AND PHASING DEVICES, PHASE MONITORS, AND ANTENNA CODE BEACONS AND OBSTACLE LIGHTS.
Claims use since February 1937.

Ser. No. 460,905. PRESS WIRELESS, INC., Chicago, Ill. Filed May 25, 1943.

MODUPLEX

FOR RADIO TELEPHONE, TELEGRAPH, AND FACSIMILE TRANSMITTERS; RADIO TELEPHONE, TELEGRAPH, AND FACSIMILE RECEIVERS, AND COMPONENT PARTS OF EACH OF THE FOREGOING.
Claims use since May 13, 1943.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 461,046. G AND G MANUFACTURING COMPANY, INC., Memphis, Tenn. Filed May 31, 1943.

★ VICTORY EXPRESS ★

FOR TOY WAGONS.
Claims use since Apr. 1, 1943.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 459,640. ANTON SMIT & CO., INC., New York, N. Y. Filed Apr. 5, 1943.

NICOLITE

FOR DIAMOND DRILL AND CORE BITS.
Claims use since August 1941.

Ser. No. 459,641. ANTON SMIT & CO., INC., New York, N. Y. Filed Apr. 5, 1943.

CASTOLITE

FOR DIAMOND DRILL AND CORE BITS.
Claims use since August 1941.

Ser. No. 460,258. JOSEPH V. ECKER, doing business as Sav-A-Blade Company, Chicago, Ill. Filed Apr. 29, 1943.
Applicant disclaims the term "Blade" apart from the association shown.

SAV-A-BLADE

FOR RAZOR BLADE SHARPENERS.
Claims use since Apr. 6, 1943.

Ser. No. 460,444. THE DELTA MANUFACTURING COMPANY, Milwaukee, Wis. Filed May 6, 1943.

UNIVISE

FOR WORK HOLDING ATTACHMENTS FOR GRINDING MACHINES.
Claims use since Apr. 16, 1943.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 460,126. SACHS QUALITY FURNITURE INC., New York, N. Y. Filed Apr. 23, 1943.

OPTICONOMY

FOR OPTICAL GOODS—NAMELY, SPECTACLES, EYEGLASSES, BINOCULARS.
Claims use since Sept. 1, 1942.

Ser. No. 460,737. S. S. HOLLENDER, INC., Chicago, Ill. Filed May 19, 1943.

"HOLLCO"

FOR OPTICAL FRAMES, MOUNTINGS, LENSES, AND PARTS THEREOF.
Claims use since Dec. 1, 1938.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 459,501. TAVANNES WATCH CO. INC., New York, N. Y. Filed March 29, 1943, under 10-year proviso. Applicant is the owner of Reg. No. 54,530 (renewed) and Reg. No. 271,497.

TAVANNES

FOR WATCHES AND WATCH MOVEMENTS.
Claims use since 1894.

Ser. No. 460,618. LEXA WATCH CO., INC., New York, N. Y. Filed May 14, 1943.

LEXA

FOR WATCHES AND CLOCKS.
Claims use since May 1, 1943.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 457,309. COLONIAL BEAD CO., INC., New York, N. Y. Filed Dec. 10, 1942.

Variglo BY COLONIAL

FOR IRIDESCENT COSTUME JEWELRY—NAMELY, BEADS, NECKLACES, CLIPS, EARRINGS, PINS, AND BRACELETS.
Claims use since Nov. 24, 1942.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 460,790. LOUIS P. CASS, New York, N. Y. Filed May 21, 1943.



FOR SHAVING BRUSHES.
Claims use since March 1943.

Ser. No. 460,886. HENRY L. SWEITZ, doing business as Dakin Manufacturing Company, Chicago, Ill. Filed May 24, 1943.

SPEEDEMOP

FOR MOPS.
Claims use since Apr. 28, 1943.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 456,782. WILLIAM VOLKER & COMPANY OF MISSOURI, INC., Kansas City, Mo. Filed Nov. 12, 1942.

Sunchek

FOR VENETIAN BLINDS.
Claims use since December 1936.

Ser. No. 460,243. SAMUEL L. GROSSMAN, doing business as Reel Kumfort Co., Los Angeles, Calif. Filed Apr. 28, 1943.

REEL KUMFURT

FOR FURNITURE—NAMELY, DIVANS.
Claims use since Oct. 15, 1942.

Ser. No. 460,749. AMERICAN FURNITURE NOVELTY CO., Chicago, Ill. Filed May 20, 1943.

AMERGOLD

FOR FURNITURE—NAMELY, LAMP TABLES, END TABLES, COCKTAIL TABLES, DRUM TABLES, DESKS, AND COMMODES.
Claims use since Apr. 5, 1943.

CLASS 33

GLASSWARE

Ser. No. 458,925. TORSTENSON GLASS CO., Chicago, Ill. Filed Mar. 5, 1943.

CERAMI

FOR FLAT GLASS, TABLE, AND COOKING GLASSWARE AND GLASS BOTTLES.
Claims use since April 1938.

CLASS 37

PAPER AND STATIONERY

Ser. No. 454,619. ANGIER CORPORATION, Framingham, Mass. Filed July 31, 1942.

INDUWRAP

FOR PAPER FOR ENCLOSING METAL PARTS WHICH HAVE BEEN SLUSHED WITH OIL AND COMPRISING AN INFUSED BODY AND AN OIL BARRIER STRATUM.
Claims use since June 18, 1942.

Ser. No. 459,606. STRATHMORE PAPER COMPANY, West Springfield, Mass. Filed Apr. 3, 1943.
Applicant is the owner of registrations 29,613 renewed, and 142,335 renewed. Applicant disclaims "Papers" apart from the mark.

Strathmore Expressive Papers

FOR WRITING AND PRINTING PAPER.
Claims use since February 1916.

Ser. No. 460,607. AMERICAN LEAD PENCIL COMPANY, Hoboken, N. J. Filed May 14, 1943.
Applicant is the owner of Reg. Nos. 22,273, 87,308, 101,614, 242,671, and 243,540.

VELVET

FOR MECHANICAL PENCILS AND FOUNTAIN PENS.
Claims use since Mar. 31, 1936, on mechanical pencils, and since Apr. 26, 1943, on fountain pens.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 452,549. VITA-MIN-GO, INC., New York, N. Y. Filed Apr. 23, 1942.

VITA-MIN-GO

FOR PRINTED GAME RULES AND PRINTED DATA ON VITAMINS, WHICH ARE CONJOINTLY USED TO TEACH THE VALUES OF THE VITAMIN CONTENTS OF FOODS, AND WHICH ARE PUBLISHED FROM TIME TO TIME.
Claims use since Mar. 16, 1942.

Ser. No. 456,594. DELL PUBLISHING COMPANY, INC., New York, N. Y. Filed Nov. 2, 1942.

YOUR FUTURE

FOR PRINTED PUBLICATION ISSUED ANNUALLY AND TREATING PRINCIPALLY WITH THE SUBJECT OF HOROSCOPY.
Claims use since Dec. 10, 1937.

Ser. No. 459,593. EASTMAN KODAK COMPANY, Jersey City, N. J., and Rochester, N. Y. Filed Apr. 3, 1943.

KODAKERY

FOR NEWSPAPER.
Claims use since Mar. 12, 1943.

Ser. No. 460,597. FRANCIS I. DU PONT & CO., New York, N. Y. Filed May 13, 1943.

Baron Bull

FOR DAILY FINANCIAL NEWS AND STATISTICAL LETTERS.
Claims use since Apr. 20, 1943.

CLASS 39

CLOTHING

Ser. No. 457,468. IRVING FRIEDRICKS, doing business as Irving Friedricks Co., New York, N. Y. Filed Dec. 17, 1942.

Melvatone

FOR LADIES' COATS AND SUITS.
Claims use since Nov. 3, 1942.

Ser. No. 459,530. ALPHA MILLS, Schuylkill Haven, Pa. Filed Mar. 31, 1943.

Alpha Bits

FOR WOMEN'S UNDERWEAR—NAMELY, VESTS, UNION SUITS, PANTS, AND BRIEFS, AND MEN'S, CHILDREN'S, AND INFANTS' UNDERWEAR, AND FOR CHILDREN'S SWEATERS, CREEPERS, AND SLEEPING GARMENTS.
Claims use since Jan. 27, 1943.

Ser. No. 460,074. THE G. EDWIN SMITH SHOE COMPANY, Columbus, Ohio. Filed Apr. 21, 1943.

Actionette

FOR WOMEN'S SHOES MADE OF LEATHER, FABRIC, AND COMBINATIONS THEREOF.
Claims use since Mar. 15, 1943.

Ser. No. 460,611. EDWIN CLAPP & SON, INCORPORATED, East Weymouth, Mass. Filed May 14, 1943.

ARCH-WAY

FOR BOOTS AND SHOES OF LEATHER, RUBBER, FABRIC, OR COMBINATIONS THEREOF, FOR MEN, WOMEN, AND CHILDREN.
Claims use since May 13, 1922.

Ser. No. 460,803. THE MANHATTAN SHIRT COMPANY, New York, N. Y. Filed May 21, 1943.

MADRIN

FOR OUTER SHIRTS.
Claims use since May 18, 1943.

Ser. No. 460,973. ANNA WHELLAN, New York, N. Y. Filed May 27, 1943.

Cunadier

FOR JUNIOR COATS AND DRESSES.
Claims use since May 15, 1943.

Ser. No. 460,975. WHELLKIN COAT COMPANY, INC., New York, N. Y. Filed May 27, 1943.

WELYUTH

FOR SUITS, COATS, AND SPORT COATS FOR LADIES AND MISSES.
Claims use since May 7, 1943.

Ser. No. 461,063. ISIDORE SMITH, New York, N. Y. Filed May 31, 1943.

Doveglow

FOR WOMEN'S, MISSES', AND JUNIOR MISSES' COATS AND SUITS.
Claims use since June 15, 1935.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 458,872. AMERICAN LACE LEATHER CO., Richmond, Va. Filed Mar. 3, 1943.

BIG CHIEF

FOR LEATHER LACES FOR SHOES AND BOOTS.
Claims use since 1939.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS

Ser. No. 455,423. BAXTER, WOODHOUSE & TAYLOR LIMITED, Stockport, England. Filed Sept. 9, 1942.

PYRAK

FOR PIECE GOODS OF COTTON, RAYON, WOOL, WORSTED, LINEN, SILK, NYLON, OR OF ADMIXTURE OF ANY OF THESE MATERIALS.
Claims use since Apr. 24, 1942.

Ser. No. 457,327. BRISTOL FABRICS, INC., Boston, Mass. Filed Dec. 11, 1942.

LUSTREFLEX

FOR SHOE FABRICS MADE OF COTTON, RAYON, SILK, OR COMBINATIONS THEREOF.
Claims use since Aug. 27, 1942.

Ser. No. 460,450. MOUAKAD BROS., INC., New York, N. Y. Filed May 6, 1943.

Light Breeze

FOR PIECE GOODS—TO WIT, SILK, WOOL, COTTON, RAYON, AND COMBINATIONS THEREOF.
Claims use since Mar. 1, 1943.

Ser. No. 460,717. L. & E. STIRN INC., New York, N. Y. Filed May 18, 1943.

CONQUEST

FOR TEXTILE FABRICS IN THE PIECE MADE OF SILK, RAYON, AND A MIXTURE THEREOF.
Claims use since Mar. 12, 1940.

Ser. No. 460,718. L. & E. STIRN INC., New York, N. Y. Filed May 18, 1943.

Elcova

FOR TEXTILE FABRICS IN THE PIECE MADE OF SILK, RAYON, AND A MIXTURE THEREOF.
Claims use since July 21, 1938.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 457,902. STRONG WOOD TURNING CORPORATION, Strong, Maine. Filed Jan. 13, 1943.

AMBASSADOR

FOR WOODEN TOOTH PICKS.
Claims use since Jan. 20, 1927.

Ser. No. 459,601. JOHNSON PAPER AND SUPPLY COMPANY, Minneapolis, Minn. Filed Apr. 3, 1943.
The word "Squares" is disclaimed apart from the mark.

MATERNITY SQUARES

FOR THIN GLASSINE PAPER SHEETS FOR PROTECTING AND CONDITIONING THE NIPPLES OF NURSING MOTHERS.
Claims use since Oct. 6, 1938.

Ser. No. 460,467. C. J. BATES & SON, Chester, Conn. Filed May 7, 1943. Under 10-year proviso.

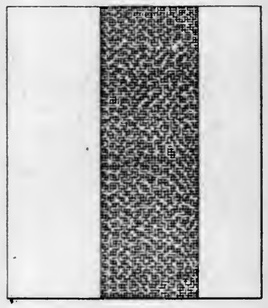
Bates

FOR NAIL-BUFFERS, NAIL FILES, MANICURE-STICKS, MANICURE KNIVES, TWEEZERS, NAIL CLIPPERS, NAIL SCISSORS, NAIL NIPPERS, AND NAIL POLISHERS.
Claims use since Jan. 1, 1884.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 450,808. OSCAR MAYER & CO., Chicago, Ill. Filed Feb. 6, 1942.
The applicant company is the owner of the following U. S. trade-mark registrations: No. 353,927, registered Jan. 25, 1938; No. 385,549, registered Mar. 11, 1941; No. 392,607, registered Jan. 6, 1942; No. 393,039, registered Jan. 27, 1942; No. 368,246, registered June 13, 1939; and No. 353,762, registered Jan. 18, 1938. The drawing is lined to represent the color yellow. The representation of a wrapper or label apart from the mark as shown is disclaimed. No common law rights, however, are waived. The trade-mark consists of a relatively wide yellow stripe or band applied substantially centrally to a label or wrapper and spaced well away from the sides of the label or wrapper. The extent of the band is substantially less than the over-all width of the label or wrapper.



FOR MEAT PRODUCTS—NAMELY, COOKED FRESH HAM, COOKED HAM, HAM, BACON, COOKED PORK, MEAT LOAF (INCLUDING TONGUE LOAF AND LOAVES MADE OF A COMBINATION OF PORK, BEEF, AND VEAL WITH OTHER INGREDIENTS.
Claims use since March 1929.

Ser. No. 456,383. EXETER ORCHARDS ASSOCIATION, Exeter, Calif. Filed Oct. 24, 1942.

Air Chief

FOR FRESH CITRUS FRUITS.
Claims use since Sept. 29, 1942.

Ser. No. 458,260. MAX AMS, INC., New York, N. Y. Filed Feb. 1, 1943.
Applicant disclaims the word "Prune" apart from the mark.

PRUNE-CENTRATE

FOR BOTTLED PRUNE CONCENTRATE USED AS A BUTTER OR SPREAD.
Claims use since Jan. 20, 1943.

Ser. No. 458,298. J. L. WHAITES, Phoenix, Ariz. Filed Feb. 1, 1943.
The picture of the girl is fanciful. No claim is made to the words "Phoenix" or "Best in the West" apart from the mark.



FOR FRESH VEGETABLES.
Claims use since Jan. 10, 1936.

Ser. No. 460,152. F. H. HOGUE COMPANY, doing business as F. H. Hogue, Yuma, Ariz., and Kent, Wash. Filed Apr. 24, 1943.
The picture of the girl is fanciful.



FOR FRESH VEGETABLES.
Claims use since Dec. 15, 1938.

Ser. No. 460,154. F. H. HOGUE COMPANY, Yuma, Ariz., and Kent, Wash. Filed Apr. 24, 1943.

ON RUSH

FOR FRESH VEGETABLES AND MELONS.
Claims use since May 10, 1933.

Ser. No. 460,289. COLUMBIA RIVER SALMON CO. INC., Astoria, Oreg. Filed Apr. 30, 1943.

Applicant is the owner of trade-mark registration No. 170,515, registered July 17, 1923, and renewed. No claim is made to the representation of the fish apart from the mark.

BLUE A LETTER

FOR CANNED TUNA.
Claims use since 1932.

Ser. No. 460,393. V. R. SMITH, doing business as V. R. Smith Olive Company, Lindsay, Calif. Filed May 3, 1943.

Translated, the mark means "Hillock."

ALTILLO

FOR OLIVES IN GLASS.
Claims use since November 1939.

Ser. No. 460,490. ABBOTTS DAIRIES, INCORPORATED, Philadelphia, Pa. Filed May 8, 1943.

AMEROQUE

FOR FLAVORED CREAM CHEESE SPREAD.
Claims use since Apr. 20, 1942.

Ser. No. 460,993. GERBER & Co. INC., New York, N. Y. Filed May 28, 1943.

Applicant is the owner of trade-mark registration No. 220,169, of Nov. 2, 1926.

Fortuna

FOR HONEY.
Claims use since Apr. 17, 1943.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Ser. No. 447,905. CAPITOL WINE & SPIRIT CORP., New York, N. Y. Filed Oct. 18, 1941. Under 10-year proviso.

EMPIRE CLUB

FOR WHISKEY.
Claims use since 1888.

Ser. No. 458,930. CALIFORNIA WINE COMPANY, INCORPORATED, Chicago, Ill. Filed Mar. 6, 1943.

The representation of the Star of David and word "Kosher" in Hebrew characters are disclaimed apart from the mark. The portraits are fanciful.



FOR BRANDY.
Claims use since Feb. 1, 1934.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 459,146. CELANESE CORPORATION OF AMERICA, New York, N. Y. Filed Mar. 16, 1943. Under the act of February 20, 1905, as amended June 10, 1938.

COTTOLITE

FOR RETICULAR MATERIAL COVERED WITH A TRANSPARENT FILM USED AS A SUBSTITUTE FOR GLASS.
Claims use since Mar. 11, 1943.

Ser. No. 460,078. WAR STOPPER CO., San Francisco, Calif. Filed Apr. 21, 1943.

The word "Stopper" is disclaimed apart from the mark.

WAR-STOPPER

FOR BOTTLE CORKS.
Claims use since July 23, 1942.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

JULY 20, 1943

402,388. HOSE FITTINGS AND PIPE COUPLINGS FOR FLUIDS. THE AEROQUIP CORPORATION, Jackson, Mich.
Filed January 17, 1941. Serial No. 439,741. PUBLISHED MAY 11, 1943. Class 13.

402,389. OPAQUE, A GRAPHITIC MATERIAL IN THE NATURE OF AN INK FOR BLACKING OUT UNDESIRED PORTIONS OF A PHOTOGRAPHIC NEGATIVE. DAVIDSON MANUFACTURING CORPORATION, Chicago, Ill.
Filed February 8, 1941. Serial No. 440,449. PUBLISHED MAY 4, 1943. Class 11.

402,390. ASPHALT ROOFING SHINGLES. UNITED STATES GYPSUM COMPANY, Chicago, Ill.
Filed April 7, 1941. Serial No. 442,377. PUBLISHED MAY 11, 1943. Class 12.

402,391. STUFFING AND PADDING USED IN MATTRESSES, BOX-SPRINGS, COUCHES, AND CUSHIONS. BURTON-DIXIE CORPORATION, Chicago, Ill.
Filed August 1, 1941. Serial No. 445,835. PUBLISHED MAY 11, 1943. Class 32.

402,392. POULTRY FEED. G. FRED OBRECHT, doing business as Gerard Milk Products Company, Baltimore, Md.
Filed August 12, 1941. Serial No. 446,175. PUBLISHED MAY 12, 1942. Class 46.

402,393. VITAMIN TABLETS. LEVER BROTHERS COMPANY, Cambridge, Mass.
Filed December 6, 1941. Serial No. 449,233. PUBLISHED FEBRUARY 17, 1942. Class 6.

402,394. CUT FRESH MEATS, STEAKS, AND SMALL IRREGULAR CUTS OF MEATS. U. S. SLICING MACHINE COMPANY, La Porte, Ind.
Filed February 28, 1942. Under the act of February 20, 1905, as amended June 10, 1938. Serial No. 451,328. PUBLISHED MAY 11, 1943. Class 46.

402,395. BOOK COVER PAPER, SAMPLE CARD PAPER, DESK PAD COVER PAPER, DISPLAY CARD PAPER, PHOTOGRAPHIC MOUNT PAPER, PENCIL BOX COVER PAPER, FILE BOX COVER PAPER, GREETING CARD PAPER, AND LAMP SHADE PAPER. SPRINGFIELD COATED PAPER CORPORATION, Camden, N. J.
Filed March 30, 1942. Serial No. 452,029. PUBLISHED MAY 11, 1943. Class 37.

402,396. LECITHIN PRODUCTS CONSISTING ESSENTIALLY OF THE PHOSPHATIDE WITH AN EDIBLE CARRIER OF OTHER MATERIALS SUCH AS SUGAR, MILK POWDER, ETC., FOR USE IN ICE CREAM MIXES, AND OTHER FROZEN CONFECTIONS. AMERICAN LECITHIN COMPANY, Cleveland, Ohio.
Filed May 21, 1942. Serial No. 453,149. PUBLISHED MAY 11, 1943. Class 46.

402,397. SUIT CASES, OVERNIGHT CASES, VANITY CASES, PULLMAN CASES, HAT CASES, SHOE CASES, COMBINATION HAT AND SHOE CASES, SINGLE AND MULTIPLE WARDROBES, AND GLADSTONE BAGS. WESTERN AUTO SUPPLY COMPANY, Kansas City, Mo.
Filed July 20, 1942. Serial No. 454,353. PUBLISHED MAY 11, 1943. Class 3.

402,398. CHAINS AND HOIST HOOKS. THE BILLINGS & SPENCER COMPANY, Hartford, Conn.
Filed August 8, 1942. Serial No. 454,795. PUBLISHED MAY 11, 1943. Class 13.

402,399. CHEMICAL COMPOSITIONS OF AN ACID-SOLUBLE, STABLE, SURFACE-ACTIVE CHARACTER, HAVING A GENERAL USE IN THE INDUSTRIAL ARTS, ETC. COMMERCIAL SOLVENTS CORPORATION, New York, N. Y.
Filed August 29, 1942. Serial No. 455,174. PUBLISHED MARCH 9, 1943. Class 6.

402,400. INSULATED CONTAINERS ADAPTED TO HOLD A QUART FRUIT JAR AND TO RETAIN THE CONTENTS OF SAID JAR HOT OR COLD FOR AN EXTENDED PERIOD. LAWRENCE A. LOCKWOOD, doing business as Lockwood Products, Chicago, Ill.
Filed September 21, 1942. Serial No. 455,659. PUBLISHED MAY 11, 1943. Class 2.

402,401. LEDGER PAPER. THE ALLING & CORY COMPANY, Rochester, N. Y.
Filed October 3, 1942. Serial No. 455,945. PUBLISHED MAY 11, 1943. Class 37.

402,402. TREATED TEXTILE CORD. THE DAYTON RUBBER MANUFACTURING COMPANY, Dayton, Ohio.
Filed October 16, 1942. Serial No. 456,238. PUBLISHED MAY 11, 1943. Class 7.

402,403. FURNITURE CASTER WHEELS. FAULTLESS CASTER CORPORATION, Evansville, Ind.
Filed October 24, 1942. Serial No. 456,384. PUBLISHED FEBRUARY 9, 1943. Class 13.

402,404. AIRPLANES, AND STRUCTURAL PARTS THEREOF. CURTISS-WRIGHT CORPORATION, New York and Buffalo, N. Y., Columbus, Ohio, and St. Louis, Mo.
Filed October 27, 1942. Serial No. 456,463. PUBLISHED MAY 11, 1943. Class 19.

402,405. PAINT PIGMENT. UNIVERSAL ZONOLITE INSULATION CO., Chicago, Ill.
Filed November 6, 1942. Serial No. 456,679. PUBLISHED APRIL 27, 1943. Class 16.

402,406. NUTRITIVE FOOD SUPPLEMENT USED AS A SUPPLEMENT FOR OR EXTENDER OF EGG YOLKS AND COMPRISING VEGETABLE PROTEINS AND ARTIFICIALLY MODIFIED FATS. R. T. VANDERBILT COMPANY, INC., New York, N. Y.
Filed December 8, 1942. Serial No. 457,291. PUBLISHED MAY 11, 1943. Class 46.

402,407. GLAZING PUTTY FOR WINDOWS AND THE LIKE. DUSSEK BROTHERS & COMPANY LIMITED, Crayford, England.
Filed December 11, 1942. Serial No. 457,331. PUBLISHED APRIL 27, 1943. Class 16.

402,408. MATTRESSES, PILLOWS, AND UPHOLSTERY PADDING. THE PACIFIC LUMBER COMPANY, San Francisco, Calif.
Filed December 15, 1942. Serial No. 457,421. PUBLISHED MAY 11, 1943. Class 32.

402,409. LIQUID CLEANER, POLISHES AND A DYE AND DRESSING PREPARATION FOR SUEDE, FABRIC, AND LEATHER ARTICLES—NAMELY, FOR SHOES, AND HEEL AND EDGE TRIM FOR SHOES. THE NU-DI PRODUCTS COMPANY, Cleveland, Ohio.
Filed December 26, 1942. Serial No. 457,611. PUBLISHED MAY 4, 1943. Class 4.

402,410. AIRPLANES. AERONCA AIRCRAFT CORPORATION, Middletown, Ohio.
Filed December 31, 1942. Serial No. 457,669. PUBLISHED MARCH 23, 1943. Class 19.

402,411. CLOTHESPIN BAGS MADE OF CLOTH AND WIRE. S. & F. COMPANY, Hartford, Conn.
Filed December 31, 1942. Serial No. 457,688. PUBLISHED MAY 11, 1943. Class 2.

402,412. DUCT HOSE COMPRISING A FABRIC BASE TREATED WITH A SEALING MATERIAL USED BY AIRCRAFT ENGINEERS, ETC. UNITED STATES RUBBER COMPANY, New York, N. Y.
Filed January 21, 1943. Serial No. 458,085. PUBLISHED MAY 11, 1943. Class 35.

402,413. GLASS FRUIT JARS. ANCO CORPORATION. Pittsburgh, Pa.
Filed January 25, 1943. Serial No. 458,143. PUBLISHED MAY 11, 1943. Class 33.

402,414. ANTISEPTIC HOME CLEANING COMPOUND IN POWDER FORM FOR GENERAL USE, HAVING INCIDENTAL WATER SOFTENING PROPERTIES. JOHN W. HOLMES, doing business as Wilmer Products, Carnegie, Pa.
Filed January 26, 1943. Serial No. 458,175. PUBLISHED APRIL 27, 1943. Class 4.

402,415. COATED FABRIC SWATCHES AND TAPE RENDERED ADHESIVE BY HEAT AND USED FOR MENDING PURPOSES. DRITZ-TRAUM COMPANY, INC., New York, N. Y.
Filed January 30, 1943. Serial No. 458,236. PUBLISHED MAY 11, 1943. Class 5.

402,416. RYE FLOUR AND WHEAT FLOUR MIXTURE. PILLSBURY FLOUR MILLS COMPANY, Minneapolis, Minn.
Filed January 30, 1943. Serial No. 458,247. PUBLISHED MAY 11, 1943. Class 46.

402,417. FRESH CITRUS FRUITS. GEORGE ZANINOVICH, doing business as Zaninovich Bros., Dinuba, Calif.
Filed February 1, 1943. Serial No. 458,299. PUBLISHED MAY 11, 1943. Class 46.

402,418. EXTRACT FROM CORN GLUTEN FOR THE MANUFACTURE OF PLASTICS, ADHESIVES, AND VARNISHES IN THE NATURE OF RAW OR PARTLY PREPARED MATERIALS. CORN PRODUCTS REFINING COMPANY, New York, N. Y.
Filed February 3, 1943. Serial No. 458,312. PUBLISHED MAY 11, 1943. Class 1.

402,419. ATOMIZERS FOR INDUSTRIAL USE. THE BAHNSON COMPANY, Winston-Salem, N. C.
Filed February 8, 1943. Serial No. 458,383. PUBLISHED MAY 11, 1943. Class 13.

402,420. STRIPS OF ZIGZAG FOLDED PRINTED CONTINUOUS BLANK FORMS—NAMELY, INVOICE FORMS, PURCHASE ORDER FORMS, ETC. UNITED AUTOGRAPHIC REGISTER CO., Chicago, Ill.
Filed February 12, 1943. Serial No. 458,501. PUBLISHED MAY 11, 1943. Class 37.

402,421. METALLIC TOOL CHESTS AND BOXES, TOTE BOXES, STACK BINS, STOCK AND PARTS RACKS, AND WASTE BASKETS. THE COOLERATOR COMPANY, Duluth, Minn.
Filed February 15, 1943. Serial No. 458,529. PUBLISHED MAY 11, 1943. Class 2.

402,422. MOPS AND DUSTERS. GEM PRODUCTS, INC., Milwaukee, Wis.
Filed February 15, 1943. Serial No. 458,535. PUBLISHED MAY 11, 1943. Class 29.

402,423. CHEMICAL COMBINATION IN TABLET FORM FOR USE AS A FUEL. EMERGENCY PRODUCTS, LIMITED, London, England.
Filed February 18, 1943. Serial No. 458,609. PUBLISHED MAY 11, 1943. Class 6.

402,424. LABORATORY, EXPERIMENTAL, HOSPITAL, CLINICAL, CHEMICAL, AND SCIENTIFIC GLASSWARE. MACALASTER BICKNELL COMPANY, Cambridge, Mass.
Filed February 19, 1943. Serial No. 458,633. PUBLISHED MAY 11, 1943. Class 26.

402,425. PAPER FOR INTERLEAVING OR LINING TRAYS. MARATHON PAPER MILLS COMPANY, Menasha, Wis.
Filed February 22, 1943. Serial No. 458,689. PUBLISHED MAY 11, 1943. Class 37.

402,426. COMMINUTED CHEMICAL COMPOSITION TO BE DISSOLVED IN WATER FOR WASHING FRUITS AND VEGETABLES. RAY A. WASHBURN, doing business as the VegaRinse Company, Chicago, Ill.
Filed February 22, 1943. Serial No. 458,696. PUBLISHED MAY 4, 1943. Class 4.

402,427. GLASS TABLEWARE. PITMAN-DREITZER AND CO., INC., New York, N. Y.
Filed February 24, 1943. Serial No. 458,740. PUBLISHED MAY 11, 1943. Class 33.

402,428. INSULATION BOARD. UNITED STATES GYPSUM COMPANY, Chicago, Ill.
Filed February 27, 1943. Serial No. 458,824. PUBLISHED MAY 11, 1943. Class 12.

402,429. TOY COIN BANKS. RALPH VICTOR MORAN, doing business as Vic Moran, Bradford, Pa.
Filed March 1, 1943. Serial No. 458,845. PUBLISHED MAY 11, 1943. Class 22.

402,430. TOY COIN BANKS. RALPH VICTOR MORAN, doing business as Vic Moran, Bradford, Pa.
Filed March 1, 1943. Serial No. 458,846. PUBLISHED MAY 11, 1943. Class 22.

402,431. LIPSTICKS. PETER R. FRIEDLAND, doing business as The Peter R. Friedland Co., New York, N. Y.
Filed March 5, 1943. Serial No. 458,916. PUBLISHED MAY 11, 1943. Class 6.

402,432. VITAMINIC PREPARATIONS. E. R. SQUIBB & SONS, New York, N. Y.
Filed March 5, 1943. Serial No. 458,924. PUBLISHED MAY 11, 1943. Class 6.

402,433. CHEMICALLY-TREATED MONTMORILLONITE CLAY, ADAPTED FOR USE AS AN ADSORBENT AND AS A CATALYST. FILTROL CORPORATION, Los Angeles, Calif.
Filed March 6, 1943. Serial No. 458,936. PUBLISHED MAY 11, 1943. Class 6.

402,434. WRAPPING PAPER. UNION BAG & PAPER CORPORATION, New York N. Y.
Filed March 6, 1943. Serial No. 458,954. PUBLISHED MAY 11, 1943. Class 37.

402,435. ABRASIVE WHEELS. UNIVERSAL WHEEL & ABRASIVE CORP., Chicago, Ill.
Filed March 8, 1943. Serial No. 458,976. PUBLISHED APRIL 27, 1943. Class 4.

402,436. WOOL AND COTTON BATTS OR BATTING. LOCKPORT COTTON BATTING CO., Lockport, N. Y.
Filed March 9, 1943. Serial No. 458,986. PUBLISHED MAY 11, 1943. Class 1.

402,437. WOOL AND COTTON BATTS OR BATTING. LOCKPORT COTTON BATTING CO., Lockport, N. Y.
Filed March 9, 1943. Serial No. 458,987. PUBLISHED MAY 11, 1943. Class 1.

402,438. LIQUID HERB LAXATIVE. WILLIAM T. BRENNAN, doing business as The Miner's Medicine Company, Beckley, W. Va., and Columbus, Ohio.
Filed March 10, 1943. Serial No. 458,997. PUBLISHED MAY 11, 1943. Class 6.

402,439. POWDER PUFFS. HYGIENOL COMPANY, INC., New Rochelle, N. Y.
Filed March 10, 1943. Serial No. 459,007. PUBLISHED MAY 11, 1943. Class 29.

402,440. EGG EMULSIFIER CONSISTING OF CEREALS, SKIM MILK SOLIDS, LECITHIN, POWDERED EGG YOLKS, VEGETABLE OIL, MINERAL AND ORGANIC SALTS, AND DEXTROSE. GEORGE G. YOUNG, doing business as Midland Laboratories, Kansas City, Mo.
Filed March 11, 1943, under act of February 20, 1905, as amended June 10, 1938. Serial No. 459,035. PUBLISHED MAY 11, 1943. Class 46.

402,441. BELT DRESSING, BELT PRESERVATIVE, AND BELT TREATMENT COMPOSITION IN LIQUID AND SOLID FORM. CANTOL WAX COMPANY, Bloomington, Ind.
Filed March 13, 1943. Serial No. 459,069. PUBLISHED MAY 11, 1943. Class 4.

402,442. SALVE FOR TREATING PIMPLES AND OTHER SKIN IRRITATIONS. EDNA SHRIEVES, doing business as Osyth Laboratories, New York, N. Y.
Filed March 13, 1943. Serial No. 459,090. PUBLISHED MAY 11, 1943. Class 6.

402,443. COMPRESSED TABLETS AND LOZENGES AND PASTILLES, BEING SWEETS. W. B. CARTWRIGHT, LIMITED, Rawdon, near Leeds, England.
Filed March 17, 1943. Serial No. 459,160. PUBLISHED MAY 11, 1943. Class 46.

402,444. FIRE-EXTINGUISHING COMPOUND. CUNNINGHAM CHEMICAL LABORATORIES, INC., New York, N. Y.
Filed March 18, 1943. Serial No. 459,193. PUBLISHED MAY 11, 1943. Class 6.

402,445. VITAMIN CAPSULES. THE GROVE LABORATORIES, INC., Wilmington, Del., and St. Louis, Mo.
Filed March 18, 1943. Serial No. 459,197. PUBLISHED MAY 11, 1943. Class 6.

402,446. MOTH-PROOFING MATERIALS TO BE USED IN PAINTS AND OTHER COATING COMPOSITIONS. THE MOTHTONE COMPANY, Needham, Mass.
Filed March 19, 1943. Serial No. 459,226. PUBLISHED MAY 11, 1943. Class 6.

402,447. COUGH SYRUP. HYMAN KARNO, doing business as Altone Chemical Co., New Orleans, La.
Filed March 20, 1943. Serial No. 459,243. PUBLISHED MAY 11, 1943. Class 6.

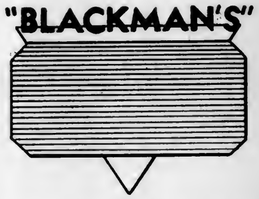
402,448. BOARD GAMES. THE VEEP COMPANY, INC., Hanover, N. H.
Filed March 20, 1943. Serial No. 459,248. PUBLISHED MAY 11, 1943. Class 22.

402,449. NUTRITIVE SUBSTANCE COMPOSED LARGELY OF AMINO ACIDS, A PROTEIN SUBSTITUTE. FREDERICK STEARNS & COMPANY, Detroit, Mich.
Filed March 22, 1943. Serial No. 459,277. PUBLISHED MAY 11, 1943. Class 6.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

402,450. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JULIUS BLACKMAN CORPORATION, New York, N. Y. Filed Dec. 26, 1942. Serial No. 457,599.



FOR MEDICINES AND PHARMACEUTICAL PREPARATIONS OF LIVER, IRON AND VITAMIN B CAPSULES, VITAMIN B CAPSULES, DECALCIUM PHOSPHATE WITH CALCIUM GLUCONATE AND VIOSTEROL CAPSULES, AND VARIOUS OTHER VITAMIN PREPARATIONS.
Claims use since Nov. 1, 1941.

402,451. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) DOMESTIC MANUFACTURING COMPANY, INC., Los Angeles, Calif. Filed June 29, 1940. Serial No. 433,525.

Domestic

FOR THERMOSTATIC GAS AND ELECTRIC DEVICES—NAMELY, AUTOMATIC PILOT VALVES, CONTACT PILOTS, TEMPERATURE RELIEF VALVES AND THERMOSTATS.
Claims use since Aug. 10, 1935.

402,452. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HEGGBLADE-MARGUELEAS COMPANY, San Francisco, Calif. Filed Mar. 22, 1940. Serial No. 429,854.



FOR FRESH FRUITS—NAMELY, FRESH GRAPES.
Claims use since Feb. 16, 1940.

402,453. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FLORIDA CITRUS OIL COMPANY, Lake Alfred, Fla. Filed July 6, 1942. Serial No. 454,070.

Best
FLAVOR

FOR CITRUS FRUIT OILS FOR FOOD PURPOSES.
Claims use since Mar. 14, 1942.

402,454. (CLASS 32. FURNITURE AND UPHOLSTERY.) O'HEARN MANUFACTURING COMPANY, Gardner, Mass. Filed Apr. 29, 1943. Serial No. 460,269.

O'HEARN

FOR CHAIRS, SOFAS, STOOLS, DRESSERS, DIVANS, AND CUSHIONS AND PADS FOR CHAIRS, SOFAS, AND DIVANS.
Claims use since September 1922.

402,455. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) ST. PIERRE CHAIN CORPORATION, Worcester, Mass. Filed June 24, 1942. Serial No. 453,863.

SOLID–FORGE

FOR CHAINS AND CHAIN LINKS.
Claims use since May 30, 1942.

402,456. (CLASS 12. CONSTRUCTION MATERIALS.) PLIBRICO JOINTLESS FIREBRICK COMPANY, Chicago, Ill. Filed Apr. 24, 1942. Serial No. 452,568.

FIRE HEARTH

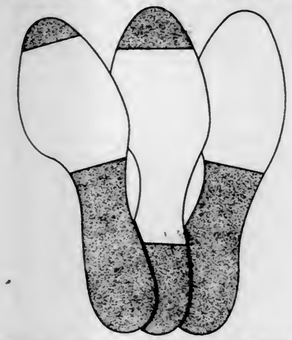
FOR DRY AGGREGATE READY TO MIX WITH WATER TO FORM A PLASTIC HEAT INSULATING MATERIAL.
Claims use since Nov. 13, 1941.

402,457. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) THE REPRODUCTION COMPANY, Chicago, Ill. Filed June 24, 1942. Serial No. 453,849.

Original HONOROLL TRADE MARK Plaque

FOR DIRECTORY PLAQUES.
Claims use since Apr. 20, 1942.

402,458. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) SEWALL & SON, INC., Auburn, Maine. Filed Nov. 27, 1939. Serial No. 426,010.



FOR STRIPS OF COMPOSITE MATERIAL FROM WHICH INSOLES MAY BE CUT.
Claims use since Oct. 5, 1939.

402,459. (CLASS 17. TOBACCO PRODUCTS.) A. SIEGEL & SONS, INC., New York, N. Y. Filed Apr. 29, 1942. Serial No. 452,679.

A. Siegel & Sons
FACTORY BRAND

FOR CIGARS.
Claims use since Mar 17, 1942.

402,460. (CLASS 43. THREAD AND YARN). BERNHARD ULLMANN CO. INC., New York, N. Y. Filed June 10, 1942. Serial No. 453,589.

CREWELPOINT

FOR ART NEEDLEWORK YARNS.
Claims use since May 28, 1942.

402,461. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS. THE WELLMAN BRONZE & ALUMINUM COMPANY, Cleveland, Ohio. Filed Apr. 17, 1943. Serial No. 459,970.

WELLCAST

FOR RAW, UNFINISHED, AND PARTLY FINISHED CASTINGS—VIZ., ALLOY CASTINGS HAVING AN ALUMINUM BASE; ALLOY CASTINGS HAVING A MAGNESIUM BASE; AND ALLOY CASTINGS IN THE NATURE OF BRASSES AND BRONZES.
Claims use since July 1, 1937.

TRADE-MARK REGISTRATIONS RENEWED

23,666. **REPRESENTATION OF A LION.** RUBBER-SOLED CANVAS SHOES. Registered October 3, 1893. NORTH BRITISH RUBBER COMPANY, LIMITED, Edinburgh, Scotland, and London, England. Re-renewed October 3, 1943, to The North British Rubber Company, Limited, Edinburgh, Scotland, a corporation of the United Kingdom of Great Britain and Northern Ireland.

23,823. **SOMATOSE.** PHARMACEUTICAL OR DIETETICAL COMPOUNDS. Registered November 14, 1893. FARBENFABRIKEN, VORMALS FR. BAYER & CO., Elberfeld, Germany. Re-renewed November 14, 1943, to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York, by merger.

168,574. **"STAR" AND DRAWING.** NOODLES AND CUT AND TWISTED ALIMENTARY PASTE PRODUCTS. Registered May 29, 1923. THE JOHN B. CANEPA COMPANY, Chicago, Ill., a corporation of Illinois. Renewed May 29, 1943.

168,945. **IROVERSO.** CERTAIN NAMED VALVES, CHECK VALVES, STOP VALVES, AND BLOW-OFF VALVES, MADE WITH EITHER UNION BONNET OR BOLTED YOKE AND MAY HAVE A REVERSIBLE OR AN IRREVERSIBLE DISK AND SEAT. Registered May 29, 1923. THE D. T. WILLIAMS VALVE COMPANY, Cincinnati, Ohio, a corporation of Ohio. Renewed May 29, 1943.

168,946. **REVERSO.** CERTAIN NAMED VALVES, CHECK VALVES, STOP VALVES, AND BLOW-OFF VALVES, MADE WITH EITHER UNION BONNET OR BOLTED YOKE AND MAY HAVE A REVERSIBLE OR AN IRREVERSIBLE DISK AND SEAT. Registered May 29, 1923. THE D. T. WILLIAMS VALVE COMPANY, Cincinnati, Ohio, a corporation of Ohio. Renewed May 29, 1943.

169,953. **LANCET.** WATCHES, WATCH MOVEMENTS, AND PARTS OF THE SAME. Registered July 10, 1923. HIPP, DIDISHEIM COMPANY, INC., New York, N. Y. Renewed July 10, 1943, to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York, assignee by mesne assignments.

170,926. **BROOKFIELD.** BUTTER, CHEESE, EGGS, AND SAUSAGE. Registered July 24, 1923. SWIFT AND COMPANY, Chicago, Ill., a corporation of Illinois. Renewed July 24, 1943.

170,946. **UNDER ALL.** CORSETS, BRASSIÈRES, CORSET COVERS, WAISTS AND UNDERWEAR OF TEXTILE FABRIC FOR WOMEN. Registered July 24, 1923. KOPS BROS. Renewed July 24, 1943, to Kops Bros., Inc., New York, N. Y., a corporation of New York, assignee.

171,408. **SIRIUS.** BRONZE POWDERS AND BRONZING LIQUID. Registered August 7, 1923. UNITED STATES BRONZE POWDER WORKS, INC., New York, N. Y., a corporation of New York. Renewed August 7, 1943.

171,429. **HOOSIER.** DRESSED POULTRY AND LARD. Registered August 7, 1923. THE EVANSVILLE PACKING COMPANY, Evansville, Ind. Renewed August 7, 1943, to Swift and Company, Chicago, Ill., a corporation of Illinois, assignee by mesne assignments.

171,744. **FASHIONS OF THE HOUR.** BI-MONTHLY MAGAZINES. Registered August 14, 1923. MARSHALL FIELD & COMPANY, Chicago, Ill., a corporation of Illinois. Renewed August 14, 1943.

172,234. **NOW YOU'LL LIKE BRAN.** CEREAL BREAKFAST FOODS. Registered August 28, 1923. POSTUM CEREAL COMPANY, Incorporated, New York, N. Y., and Battle Creek, Mich. Renewed August 28, 1943, to General Foods Corporation, New York, N. Y., a corporation of Delaware, assignee by mesne assignments.

172,437. **STARTENA.** POULTRY FEED. Registered August 28, 1923. RALSTON PURINA COMPANY, St. Louis, Mo., a corporation of Missouri. Renewed August 28, 1943.

172,461. **"FULLER'S OLD HOMESTEAD" AND DRAWING.** SMOKED MEATS, DRIED BEEF, SAUSAGE, HAM, BACON, LARD, BUTTER. Registered August 28, 1923. IOWA PACKING CO., Des Moines, Iowa. Renewed August 28, 1943, to Swift and Company, Chicago, Ill., a corporation of Illinois, assignee by mesne assignments.

172,873. **DEW MAID.** CANNED PEAS. Registered September 11, 1923. CENTRAL WISCONSIN CANNERIES, Beaver Dam, Wis., a corporation of Wisconsin. Renewed September 11, 1943.

172,936. **POINT LACE.** WHEAT FLOUR. Registered September 11, 1923. DUNLOP MILLING CO., Clarksville, Tenn. Renewed September 11, 1943, to Dunlop Milling Company, Inc., New York, N. Y., a corporation of Tennessee, assignee.

173,306. **CICCO AMBER JACK SIX.** COAL. Registered September 18, 1923. CENTRAL INDIANA COAL CO. Renewed September 18, 1943, to Central Indiana Coal Company, Inc., Indianapolis, Ind., a corporation of Indiana, successor.

173,647. **FIBORE.** MANILA ROPE. Registered October 2, 1923. WHITLOCK CORDAGE CO., Jersey City, N. J., and New York, N. Y., a corporation of New Jersey. Renewed October 2, 1943.

173,720. **"THE WITMARK BLACK AND WHITE SERIES" AND DRAWING.** SHEET MUSIC. Registered October 2, 1923. M. WITMARK & SONS, New York, N. Y., a corporation of New York. Renewed October 2, 1943.

174,078. **"FOAMITE" AND DRAWING.** HAND-OPERATED, PORTABLE, AND STATIONARY FIRE-EXTINGUISHING APPARATUS. Registered October 2, 1923. FOAMITE-CHILDS CORPORATION, Utica, N. Y. Renewed October 2, 1943, to American-La France-Foamite Corporation, Elmira, N. Y., a corporation of New York, assignee by mesne assignments.

174,227. **MOVAR.** VARNISH FOR ALL INTERIOR AND EXTERIOR PURPOSES. Registered October 9, 1923. BENJAMIN MOORE & CO., Jersey City, N. J., and Brooklyn, N. Y. Renewed October 9, 1943, to Benjamin Moore & Co., Flemington, N. J., and New York, N. Y., a corporation of New Jersey.

174,231. **OIL-O-LARD.** CUTTING OIL. Registered October 9, 1923. SMITH OIL & REFINING COMPANY, Rockford, Ill., a corporation of Illinois. Renewed October 9, 1943.

174,342. **REPRESENTATION OF A RED CONNECTOR.** ANTISKID CHAINS FOR VEHICLE WHEELS. Registered October 16, 1923. AMERICAN CHAIN COMPANY, INC., New York, N. Y., and Bridgeport, Conn. Renewed October 16, 1943, to American Chain & Cable Company, Inc., Bridgeport, Conn., a corporation of New York, by change of name.

174,377. **GLOSPAR.** READY-MIXED PAINTS, VARNISHES, PAINT ENAMELS. Registered October 16, 1923. CHARLES DRABEK, doing business as Painters Supply Co. Renewed October 16, 1943, to The S. C. Wagenman Paint Stores Company, Cleveland, Ohio, a corporation of Ohio, assignee.

174,432. **CUNNINGHAM.** THERMIONIC DETECTOR, AMPLIFIER, AND OSCILLATOR TUBES. Registered October 16, 1923. ELMER T. CUNNINGHAM, San Francisco, Calif. Renewed October 16, 1943, to Radio Corporation of America, New York, N. Y., a corporation of Delaware, by merger.

174,446. **DE FOREST.** CERTAIN NAMED RADIO TELEPHONE AND TELEGRAPH APPARATUS AND SUPPLIES. Registered October 16, 1923. DE FOREST RADIO TELEPHONE AND TELEGRAPH COMPANY, Jersey City, N. J. Renewed October 16, 1943, to Radio Corporation of America, New York, N. Y., a corporation of Delaware, assignee.

174,489. **VENUS.** BRONZE POWDERS, BRONZING LIQUID. Registered October 16, 1923. UNITED STATES BRONZE POWDER WORKS, INC., New York, N. Y., a corporation of New York. Renewed October 16, 1943.

174,501. **OCB.** CIGARETTE PAPER. Registered October 16, 1923. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C., a corporation of New Jersey. Renewed October 16, 1943.

174,796. **MARVIN.** NURSES' COLLARS, CUFFS, APRONS, CAPS, BIBS, UNIFORMS, OPERATING GOWNS, PATIENTS' BEDGOWNS, AND LADIES' COLLARS AND CUFFS. Registered October 23, 1923. E. W. MARVIN COMPANY, Troy, N. Y., a corporation of New York. Renewed October 23, 1943.

174,801. **"AMERICAN" AND DRAWING.** COTTON DRILLING IN THE PIECE. Registered October 23, 1923. MINOT, HOOPER & CO., New York, N. Y., a firm. Renewed October 23, 1943.

174,889. **CLASPER.** BRACELETS, WRISTLETS, NECK CHAINS, WATCH CHAINS, TIE CLASPS, COAT CHAINS, AND BELT CHAINS. Registered October 23, 1923. EISENSTADT MANUFACTURING COMPANY, St. Louis, Mo., a corporation of Missouri. Renewed October 23, 1943.

174,944. **ANDREWS LIVER SALT.** MEDICATED PREPARATION FOR HUMAN USE FOR LIVER AILMENTS. Registered October 30, 1923. SCOTT AND TURNER, LIMITED, Newcastle-on-Tyne, England, a corporation of United Kingdom of Great Britain and Northern Ireland. Renewed October 30, 1943.

175,011. **"AB-SCENT" AND DRAWING.** PERSPIRATION DEODORANT. Registered October 30, 1923. JEAN JORDEAU, INC., South Orange, N. J., and New York, N. Y. Renewed October 30, 1943, to Jean Jordeau, Inc., South Orange, N. J., a corporation of New Jersey.

175,020. **OXFORD CROSS.** LACE CURTAINS AND NETS OR CURTAIN LACE IN PIECE GOODS. Registered October 30, 1923. QUAKER LACE COMPANY, Philadelphia, Pa., a corporation of Pennsylvania. Renewed October 30, 1943.

175,049. **"BDA" AND DRAWING.** DYED COTTON PIECE GOODS AND PIECE GOODS OF SILK, WOOL, ARTIFICIAL SILK, OR COMBINATIONS THEREOF. Registered October 30, 1923. THE BRADFORD DYERS' ASSOCIATION, LIMITED, Bradford, England, a corporation of United Kingdom of Great Britain and Northern Ireland. Renewed October 30, 1943.

175,059. **FOAMITE.** HAND-OPERATED PORTABLE AND STATIONARY FIRE EXTINGUISHING APPARATUS. Registered October 30, 1923. FOAMITE-CHILDS CORPORATION, Wilmington, Del., and Utica, N. Y. Renewed October 30, 1943, to American-La France-Foamite Corporation, Elmira, N. Y., a corporation of New York, assignee by mesne assignments.

175,127. **OIL-O-WAX.** CLEANER AND POLISH FOR AUTOMOBILES, FURNITURE, FLOORS, CORK-CARPETS, AND LINOLEUMS. Registered October 30, 1923. SMITH OIL & REFINING COMPANY, Rockford, Ill., a corporation of Illinois. Renewed October 30, 1943.

175,433. **SCALOL.** PHOTOGRAPHIC DEVELOPER. Registered November 6, 1923. JOHNSON & SONS, New York, N. Y., and London, England. Renewed November 6, 1943, to Johnson & Sons, Manufacturing Chemists, Limited, London, England, a corporation of United Kingdom of Great Britain and Northern Ireland.

175,434. **MERITOL.** PHOTOGRAPHIC DEVELOPER. Registered November 6, 1923. JOHNSON & SONS, New York, N. Y., and London, England. Renewed November 6, 1943, to Johnson & Sons, Manufacturing Chemists, Limited, London, England, a corporation of United Kingdom of Great Britain and Northern Ireland.

175,790. **VOSCO.** LARD. Registered November 13, 1923. F. G. VOGT & SONS, INC., Philadelphia, Pa., a corporation of Pennsylvania. Renewed November 13, 1943.

175,940. **PURITAN AMBER.** VINEGAR. Registered November 13, 1923. M. A. GEDNEY COMPANY, Minneapolis, Minn., a corporation of Minnesota. Renewed November 13, 1943.

175,956. **PASCO.** READY-MIXED PAINTS, VARNISHES, PAINT ENAMELS, STAINS, POLISHES FOR PAINTED AND LACQUERED SURFACES. Registered November 13, 1923. CHARLES DRABEK, doing business as Painters Supply Co. Renewed November 13, 1943, to The S. C. Wagenman Paint Stores Company, Cleveland, Ohio, a corporation of Ohio, assignee.

176,014. **DE LUXE.** CAPS AND HATS OF FELT, STRAW, SILK, CLOTH, AND FUR, FOR MEN AND WOMEN. Registered November 13, 1923. THE CROFUT & KNAPP CO., South Norwalk, Conn. Renewed November 13, 1943, to Hat Corporation of America, Norwalk, Conn., a corporation of Delaware, assignee by mesne assignments.

176,047. **VACO.** READY-MIXED PAINTS. Registered November 13, 1923. BENJAMIN MOORE & CO., Jersey City, N. J., and Brooklyn, N. Y. Renewed November 13, 1943, to Benjamin Moore & Co., Flemington, N. J., and New York, N. Y., a corporation of New Jersey.

176,060. **LIQUID TILE.** READY-MIXED PAINTS AND PAINT ENAMELS. Registered November 13, 1923. CHARLES DRABEK, doing business as Painters Supply Co. Renewed November 13, 1943, to The S. C. Wagenman Paint Stores Company, Cleveland, Ohio, a corporation of Ohio, assignee.

176,127. **"RELIANCE" AND DRAWING.** MEN'S HATS AND MEN'S DRESS, NEGLIGEE, AND WORK SHIRTS. Registered November 20, 1923. L. KLEIN, INC., Chicago, Ill., a corporation of Illinois. Renewed November 20, 1943.

176,165. **SUPRANOL.** SOLUTION OF SUPRARENAL EXTRACT. Registered November 20, 1923. NOVOCOL CHEMICAL MFG. CO. INC., Brooklyn, N. Y., a corporation of New York. Renewed November 20, 1943.

176,216. **CHAS. H. PHILLIPS.** PREPARATIONS OF MAGNESIA, PREPARATIONS OF COD-LIVER OIL, AND TONIC MEDICINES. Registered November 20, 1923. THE CHARLES H. PHILLIPS CHEMICAL CO., Glenbrook, Conn., and New York, N. Y. Renewed November 20, 1943, to Sterling Drug Inc., Wilmington, Del., a corporation of Delaware, assignee.

176,217. **PHILLIPS'.** PREPARATIONS OF MAGNESIA, PREPARATIONS OF COD LIVER OIL, AND TONIC MEDICINES. Registered November 20, 1923. THE CHARLES H. PHILLIPS CHEMICAL CO., Glenbrook, Conn., and New York, N. Y. Renewed November 20, 1943, to Sterling Drug Inc., Wilmington, Del., a corporation of Delaware, assignee.

176,268. **"QUALITY DE LUXE KNAPP-FELT" AND DRAWING.** CAPS AND HATS OF FELT, STRAW, SILK, CLOTH, AND FUR, FOR MEN AND WOMEN. Registered November 20, 1923. THE CROFUT & KNAPP Co., South Norwalk, Conn. Renewed November 20, 1943, to Hat Corporation of America, Norwalk, Conn., a corporation of Delaware, assignee by mesne assignments.

176,275. **"OLD SOL" AND DRAWING.** KNITTED COATS. Registered November 20, 1923. ELY & WALKER DRY GOODS COMPANY, St. Louis, Mo., a corporation of Missouri. Renewed November 20, 1943.

176,315. **SHEROLINE.** MEDICINAL PETROLEUM PRODUCTS—NAMELY, SYNTHETIC PETROLATUM AND PETROLEUM JELLY. Registered November 20, 1923. SHERWOOD PETROLEUM COMPANY, INC., Brooklyn, N. Y. Renewed November 20, 1943, to Sherwood Refining Company, Inc., Englewood, N. J., a corporation of New Jersey, assignee.

176,408. **ESSO.** REFINED, SEMIREFINED, AND UNREFINED OILS MADE FROM PETROLEUM, BOTH WITH AND WITHOUT ADMIXTURE OF ANIMAL, VEGETABLE, OR MINERAL OILS, FOR ILLUMINATING, BURNING, POWER, AND LUBRICATING PURPOSES, AND GREASES. Registered November 27, 1923. STANDARD OIL COMPANY (NEW JERSEY), Bayonne, N. J. Renewed November 27, 1943, to Standard Oil Company of New Jersey, Wilmington, Del., a corporation of Delaware, assignee.

176,427. **"SILV-O-DENT" AND DRAWING.** FOUNDATION AND PULP PROTECTOR USED IN MAKING METAL DENTAL FILLINGS. Registered November 27, 1923. HARRY B. GARRISON, doing business as The Silvodent Co., Portland, Oreg. Renewed November 27, 1943.

176,437. **BIG 3 PACKAGE.** CANDIES. Registered November 27, 1923. LOFT, INC., New York, N. Y. Renewed November 27, 1943, to Loft Candy Corporation, Long Island City, N. Y., a corporation of New York, assignee.

176,451. **"BOUNTY" AND DRAWING.** WHEAT FLOUR. Registered November 27, 1923. PHOENIX FLOUR MILL, Evansville, Ind. Renewed November 27, 1943, to Igleheart Brothers, Incorporated, New York, N. Y., a corporation of Delaware, assignee.

176,465. **"SPAULDING-MOSS COMPANY" AND DRAWING.** CERTAIN NAMED DRAWING AND DRAFTING INSTRUMENTS AND ACCESSORIES, CERTAIN NAMED SURVEYORS' INSTRUMENTS AND ACCESSORIES, MACHINES FOR BLUE PRINTING SENSITIZED PAPER AND CLOTH FOR BLUE PRINTS AND BROWN PRINTS, AND SENSITIZED PAPER FOR LITHOGRAPHS. Registered November 27, 1923. SPAULDING-MOSS COMPANY, Boston, Mass., a corporation of Massachusetts. Renewed November 27, 1943.

176,488. **AMERICAN HEN.** POULTRY FEED. Registered November 27, 1923. THE QUAKER OATS COMPANY, Chicago, Ill., a corporation of New Jersey. Renewed November 27, 1943.

176,492. **"AA DOUBLE-A-AA" AND DRAWING.** BREAD. Registered November 27, 1923. WARD BAKING COMPANY, New York, N. Y., a corporation of New York. Renewed November 27, 1943.

176,497. **REPRESENTATION OF A BUCKLE.** CITROUS FRUITS—NAMELY, ORANGES, LEMONS, AND GRAPEFRUIT IN THEIR NATURAL STATE. Registered November 27, 1923. GOLD BUCKLE ASSOCIATION, East Highlands, Calif., a corporation of California. Renewed November 27, 1943.

176,498. **BUCKLE.** CITROUS FRUIT—NAMELY, ORANGES, LEMONS, AND GRAPEFRUIT IN THEIR NATURAL STATE. Registered November 27, 1923. GOLD BUCKLE ASSOCIATION, East Highlands, Calif., a corporation of California. Renewed November 27, 1943.

176,509. **YEAST FOAM.** YEAST, AND VITAMIN FOOD PRODUCTS WHICH INVOLVE THE USE OF YEAST, SPECIFICALLY YEAST TABLETS, YEAST CAKES, YEAST IN GROUND FORM, YEAST PASTE, YEAST IN SOLUTION, YEAST POWDER. Registered November 27, 1923. NORTHWESTERN YEAST COMPANY, Chicago, Ill., a corporation of Illinois. Renewed November 27, 1943.

176,535. **"KINGFRUIT" AND DRAWING.** FRESH APPLES. Registered November 27, 1923. CASHMERE FRUIT GROWERS UNION, Cashmere, Wash., a corporation of Washington. Renewed November 27, 1943.

176,544. **PARA-FLAT.** FLAT UNDERCOAT PAINT FOR INTERIOR WORK. Registered November 27, 1923. THE PARAFFINE COMPANIES, INC., San Francisco, Calif., a corporation of Delaware. Renewed November 27, 1943.

176,545. **PARA-TONE.** FLAT UNDERCOAT PAINT FOR INTERIOR WORK. Registered November 27, 1923. THE PARAFFINE COMPANIES, INC., San Francisco, Calif., a corporation of Delaware. Renewed November 27, 1943.

176,551. **"KIELEY" AND DRAWING.** VALVES, TRAPS, AND REGULATORS FOR PIPE LINES, PLUMBING, STEAM FITTING, AND THE LIKE. Registered November 27, 1923. KIELEY & MUELLER, INC., New York, N. Y. Renewed November 27, 1943, to Kieley & Mueller, Inc., North Bergen, N. J., a corporation of New York.

176,574. **SNOW FLAKE.** HOMINY. Registered November 27, 1923. AMERICAN HOMINY COMPANY, Chicago, Ill. Renewed November 27, 1943, to Knefler-Bates Company, Indianapolis, Ind., a corporation of Indiana, assignee by mesne assignments.

176,579. **"EAFCO" AND DRAWING.** PLUMBERS' SUPPLIES—NAMELY, VENT CAPS, REPAIR PLATES, WATER-BOX LIDS, PLUGS FOR FRESH-AIR INLETS, STABLE TRAP BELLS, AND NO-BOLT WATER-BOX LIDS. Registered November 27, 1923. THE EASTERN FOUNDRY COMPANY, Boyertown, Pa., a corporation of Pennsylvania. Renewed November 27, 1943.

176,611. **POWER CITY.** CANNED TOMATOES AND PRESERVED PICKLES. Registered November 27, 1923. KEOKUK CANNING COMPANY, Keokuk, Iowa, a corporation of Iowa. Renewed November 27, 1943.

176,613. **PHILLIPS'.** COCOA AND CHOCOLATE. Registered November 27, 1923. THE CHARLES H. PHILLIPS CHEMICAL CO., Glenbrook, Conn., and New York, N. Y. Renewed November 27, 1943, to Sterling Drug Inc., Wilmington, Del., a corporation of Delaware, assignee.

176,614. **GRANT.** WHEAT FLOUR. Registered November 27, 1923. THE QUAKER OATS COMPANY, Chicago, Ill., a corporation of New Jersey. Renewed November 27, 1943.

176,623. **SOLUNA.** NEGLIGEE SHIRTS, COLLARS, PYJAMAS, DRESSING GOWNS AND JACKETS, BLOUSES, NIGHTDRESSES, KNITTED UNDERWEAR, AND CHILDREN'S DRESSES, HOSIERY AND BOOTEES. Registered November 27, 1923. WILLIAM HOLLINS & CO. LTD., London and Mansfield, England. Renewed November 27, 1943, to William Hollins & Company, Limited, Nottingham, England, a United Kingdom corporation.

176,638. **REPRESENTATION OF A STRIPED BUCKET.** LARD. Registered November 27, 1923. THE E. KAHN'S SONS COMPANY, Cincinnati, Ohio, a corporation of Ohio. Renewed November 27, 1943.

176,640. **CRUSADER.** STOCK FEED, PARTICULARLY HORSE AND MULE FEED. Registered November 27, 1923. THE UBIKO MILLING COMPANY, Cincinnati, Ohio. Renewed November 27, 1943, to The Ubiko Milling Company, St. Bernard, Ohio, a corporation of Ohio.

176,660. **QUEENTEX.** HOSIERY. Registered November 27, 1923. THOMAS G. PLANT COMPANY, Boston, Mass. Renewed November 27, 1943, to International Shoe Company, St. Louis, Mo., a corporation of Delaware, assignee by mesne assignments.

176,718. **CARAVEL.** CANNED FRUITS AND VEGETABLES. Registered November 27, 1923. FRAZAR & COMPANY, San Francisco, Calif. Renewed November 27, 1943, to Frazar & Company, New York, N. Y., a copartnership.

176,736. **MAZ-ALL.** STOCK FEEDS. Registered November 27, 1923. THE QUAKER OATS COMPANY, Chicago, Ill., a corporation of New Jersey. Renewed November 27, 1943.

176,737. **THE BIG "Q".** WHEAT FLOUR AND STOCK FEEDS. Registered November 27, 1923. THE QUAKER OATS COMPANY, Chicago, Ill., a corporation of New Jersey. Renewed November 27, 1943.

176,745. **"DIAMOND" AND DRAWING.** TANKAGE. Registered November 27, 1923. THE E. KAHN'S SONS COMPANY, Cincinnati, Ohio, a corporation of Ohio. Renewed November 27, 1943.

176,763. **"JIM DANDY" AND DRAWING.** CORN MEAL, CORN GRITS, HORSE FEED, COW FEED, HEN FEED, LAYING MASH, GROWING MASH. Registered November 27, 1923. WESTERN GRAIN COMPANY, Birmingham, Ala., a corporation of Alabama. Renewed November 27, 1943.

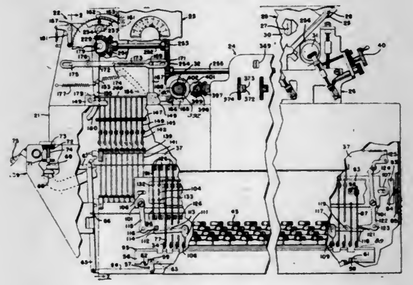
22,350

KEYBOARD PERFORATOR AND COUNTER

Lewis R. Cook and Maurus T. Goetz, Chicago, Ill., assignors, by mesne assignments, to Teletypesetter Corporation, a corporation of Delaware

Original No. 2,179,493, dated November 14, 1939, Serial No. 111,795, November 20, 1936. Application for reissue January 16, 1943, Serial No. 472,632

74 Claims. (Cl. 164—112)



1. In combination, an element movable in variable additive amounts, a periodically operable instrumentality, a source of power for operating said instrumentality periodically, a plurality of rotatable impellers, means acting by negative operation for conditioning said impellers permutably for rotation by said instrumentality, and a differential accumulator interposed between said impellers and said element operative to move said element an amount proportioned to the combined rotations of said impellers by said instrumentality.

22,351

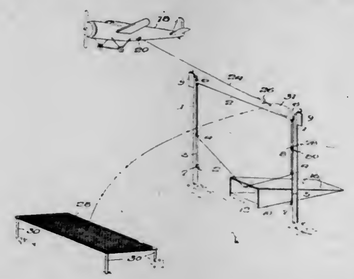
AIRPLANE PACKAGE TRANSFER APPARATUS

Roy L. Cooper, Sheffield, Ill.

Original No. 2,250,153, dated July 22, 1941. Serial No. 337,283, May 25, 1940. Application for reissue June 22, 1942, Serial No. 448,010

13 Claims. (Cl. 258—1.6)

9. Apparatus for transferring articles to a moving airplane comprising a catapult, means for exerting a propelling force tending to operate said catapult to project an article carried thereby, a latch for holding said catapult against said force, and means for releasing said latch to render said catapult effective for projecting the article, a pair of relatively rigid spaced supports stationary with respect to the ground, a loop having a portion adapted for connection with the article and a portion adapted to be suspended with respect to said supports, a loop engaging device adjacent and supported by one of said supports at a point spaced a substantial distance above the lower end thereof, said engaging device comprising finger elements biased toward each other and arranged to receive there-



between a section of the suspended portion of said loop, and means operatively connected to said engaging device and operative by said finger elements upon movement thereof toward each other upon the pulling of the suspended portion of said loop by an airplane-carried element, for operating said latch-releasing device.

22,352

POLYCARBOXYLIC ACIDS

Wilber O. Teeters, Bergenfield, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Original No. 2,316,636, dated April 13, 1943, Serial No. 345,418, July 13, 1940. Application for reissue May 7, 1943, Serial No. 486,083

1 Claim. (Cl. 260—534)

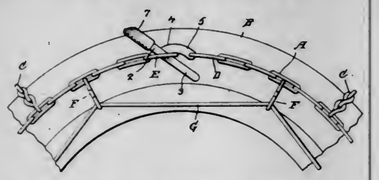
The process for preparing the triacetic acid derivative of ethanol amine which consists in admixing a solution containing 39 parts by weight sodium chloracetate in 56 parts by weight water with 6.77 parts of ethanol amine and 21 parts by weight monohydrated sodium carbonate, allowing the mixture to stand for four hours at room temperature, then heating the mixture for five hours at 85 to 95° C., cooling the reaction solution, filtering off liberated sodium bicarbonate, and acidifying the filtrate to liberate a free acid of the formula

$$(HOOCCH_2)_2NCH_2CH_2OCH_2COOH$$

PATENTS

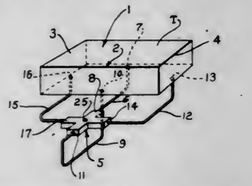
GRANTED JULY 20, 1943

2,324,463
TIRE CHAIN APPLICATOR AND FASTENING DEVICE
Vernon E. Brady, McKeesport, Pa.
Application March 6, 1942, Serial No. 433,659
5 Claims. (Cl. 152—219)



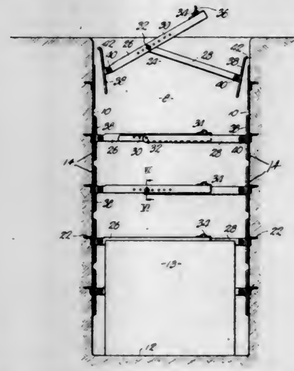
2. A device for applying and fastening an anti-skid chain including side chains to a vehicle tire, comprising a substantially U-shaped body including a bight member having a straight intermediate portion and outwardly inclined outer portions extending from the straight portion in diverging relation, parallel limbs formed on the inclined portions, arms including curved inner portions fixed to said inclined portions, parallel outer portions formed on the curved inner portions and arranged outwardly of one side of said limbs but in planes between and paralleling the limbs, said arms adapted to straddle the tire and having one of the end links of each side chain connected thereto for the said links to act as pivots for the device, and said limbs adapted to be passed through the opposite end links of the side chains to draw the anti-skid chain taut about the tire and for fastening said chain thereto.

2,324,464
VALVE FOR FUEL TANKS
Arthur L. Parker, Cleveland, Ohio
Application March 31, 1941, Serial No. 386,212
3 Claims. (Cl. 137—21)



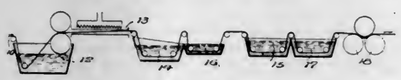
1. The combination of a fuel tank for aircraft said tank having end and side walls, said fuel tank having outlets arranged in two pairs at the bottom thereof, said pairs being disposed in lines substantially at right angles to each other with the outlets of one pair adjacent the end walls and the outlets of the other pair adjacent the side walls, a valve housing mounted in fixed relation to said tank, said valve housing having intake ports arranged in pairs and in lines corresponding to the pairs and lines of outlets in the fuel tank, and pipes connecting said valve housing intake ports with said tank outlets, a valve seat associated with each intake port, and a valve co-operating with each valve seat, said valve being gravity-actuated independently in response to the tilting of the tank for controlling the intake ports so that when the tank is in a tilted position fuel will be supplied from the pipe or pipes leading from the lowermost portion of the tank and the other intake ports will be closed.

2,324,465
GRAVE CRIBBER
Gaylord P. Bleakley, Kansas City, Mo.
Application May 9, 1941, Serial No. 392,692
7 Claims. (Cl. 61—41)



1. In cribbing of the character described, a series of oppositely disposed side plates; braces extending between the side plates; and flanged feet pivotally secured to the braces formed to hang on the plates with the faces thereof in abutting relation therewith throughout their lengths as the braces are swung about the pivots to and from the operative position.

2,324,466
SPONGE RUBBER AND METHOD OF MAKING SAME
Kenneth H. Bowen and Leonard W. Gane, Auburn, N. Y., assignors to Columbian Rope Company, Auburn, N. Y., a corporation of New York
Application September 26, 1940, Serial No. 358,528
1 Claim. (Cl. 18—48)

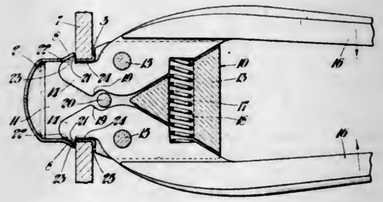


1. The method of producing porous or sponge rubber which consists in associating a plurality of vegetable fibers into a self-containing body, said fibers being loosely compacted in said body whereby interstices are formed throughout the interior thereof, applying an aqueous dispersion of rubber to said fibers to coat them with rubber, successively subjecting the fibers to acid and alkaline baths to disintegrate at least a portion of the individual fibers and to check the disintegration thereof, and curing said rubber composition, the porosity or sponginess of the resulting product being dependent upon the intersticed relationship of the fibers in said self-sustaining mass and upon the extent to which said fibers are removed by treatment in said acid and alkaline baths.

2,324,467
RECOVERY OF ORGANIC MATERIALS
Robert Louis Brandt, New York, N. Y., and Hans George Kirschenbauer, Palisade Park, N. J., assignors to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware
No Drawing. Application April 25, 1940, Serial No. 331,604
12 Claims. (Cl. 260—627)

1. A process for the recovery of phenols from mixtures comprising essentially unsaponifiable substances, carboxylic acids and volatile phenols which comprises neutralizing the carboxylic acids and phenols, heating the neutralized carboxylic acids and neutralized phenols in an inert atmosphere to a temperature not lower than the melting point of the substantially anhydrous soap mixture in order to remove volatile non-saponifiable materials therefrom, and then heating the mixture to a temperature not lower than the melting point of the substantially anhydrous soap in the presence of an acid weaker than the carboxylic acid in the mixture, thus freeing the phenols in the mixture from their phenate salt form, and distilling the relatively pure volatile phenols therefrom.

2,324,468
TOOL
Alan E. Brickman, Monongahela, Pa., assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
Application July 18, 1942, Serial No. 451,479
3 Claims. (Cl. 81—5.1)



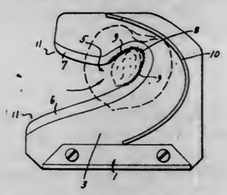
1. A tool for punching out a projection from the side wall of an open-ended shell and which includes a frame from which projects a longitudinally slotted stud insertable through the shell open end, said stud being substantially the same size as the opening, said frame having a lever arm swinging radially of the stud in its slot, a pivot for said lever arm mounted on the frame, the axis of said pivot being transverse, aligned and substantially tangent thereto, and the stud side with the swinging arm end having a punch projecting outwardly respecting the stud slot with a flat base transverse of the arm tangent to an arc about the pivot axis and an outside that tapers from the base toward the arm end and which forms a sharp cornered junction with the base, the arm being shaped between the punch base and the arm pivot throughout the slot length to remain at least flush with the stud side when the arm is swung outwardly respecting the stud slot to cause the punch to project to shell side wall punching position beyond the stud side.

2,324,469
ANTIGLARE DEVICE
Francis A. Brunson, Sumter, S. C.
Application January 18, 1941, Serial No. 375,072
3 Claims. (Cl. 88—1)



1. A device for use in overcoming the glare from blinding lights consisting of two prisms, one prism having oppositely arranged flat faces having an angular degree of substantially 4° for producing a spectrum, said prism having an index of refraction of substantially 1.539, the other prism having oppositely arranged flat faces having an angular degree slightly lower than 4° to produce a spectrum, the second named prism having an index of refraction of substantially 1.629, the refracting angles of the prisms being below the critical angles of the individual prisms for preventing blurring of the object, the prisms having their inner faces overlapping in close relation and one prism being inverted with relation to the other prism, the outer faces of the assembled overlapping prisms forming the sides of the device, the arrangement being such that the action of the prism with the higher angular degree and lower index of refraction produces a lesser spectrum than the action of the prism with the lower angular degree and higher index of refraction whereby a resultant spectrum is obtained by the light passing through the sides of the overlapping prisms for overcoming the blinding effect of the light while the refracting action of the two overlapping prisms so neutralize each other that the deviation of the object is eliminated or substantially eliminated, and means to support the device in position in front of the eyes of the user so that the light passes through the sides of the device.

2,324,470
FREESTONE PEACH PITTER
Eathel O. Burling, Yakima, Wash., assignor to Pacific Machinery Company, San Francisco, Calif., a corporation of California
Application August 19, 1941, Serial No. 407,432
3 Claims. (Cl. 146—30)



1. A device for pitting fruit of the freestone variety, including a halving blade adapted to be supported in a substantially vertical plane, the blade having a pit path formed therein, the edges of the blade in the path being sharpened to provide means for cutting the flesh of the fruit to the depth of the pit, the path terminating in a pit pocket extending at an angle from the said cutting edges and limiting flanges carried by the blade against which the periphery of the fruit is engaged to require rotation of the fruit halves to separate the halves from the pit.

2,324,471
FUMIGANT MIXTURE
William W. Allen and Joseph Carl Dawson, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application October 17, 1941, Serial No. 415,408
4 Claims. (Cl. 99—225)

1. In a method for fumigating insect infested grain stored in bins the step of introducing a volatile fumigant comprising as a major toxic ingredient a mixture of propylene chloride with a substantial proportion of methyl bromide in the top of the bin and onto the surface of stored grain.

2,324,472
FUMIGANT MIXTURE
William W. Allen and Fred W. Fletcher, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application October 17, 1941, Serial No. 415,409
3 Claims. (Cl. 99—225)

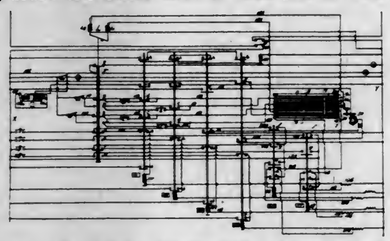
2. A volatile liquid fumigant comprising a mixture of methylene chloride with a substantial proportion of methyl bromide.

2,324,473
METHOD OF PREPARING BITUMINOUS EMULSIONS
John J. Allinson, El Dorado, Ark., assignor to Lion Oil Refining Company, El Dorado, Ark., a corporation of Delaware
No Drawing. Application January 29, 1940, Serial No. 316,214
3 Claims. (Cl. 252—311.5)

1. The method of preventing pellet formation in bituminous paving emulsions of the asphalt-in-water type, which comprises reducing an asphalt of relatively high penetration, which in aqueous emulsions tends to form pellets through coagulation of previously dispersed particles, to a penetration not substantially below approximately 77 mm./10 (100 grams, 5 seconds) at 77° F., and then mixing with said asphalt prior to its emulsification, substantially ½ to 10 per cent. by weight of a petroleum fraction of boiling range substantially between the lower boiling point limit of kerosenes and the upper boiling point limit of lubricating oils, said asphalt being of such nature that, if emulsified in the absence of said reduction and mixing, pellet formation will occur through coagulation of previously dispersed particles.

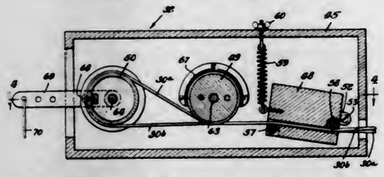
2,324,474
SUCCESSIVE SWITCHING APPARATUS
Henry J. Appel, Philadelphia, Pa., assignor, by mesne assignments, to Houdry Process Corporation, Wilmington, Del., a corporation of Delaware
Application December 21, 1940, Serial No. 371,181
18 Claims. (Cl. 171—97)

15. An electric time switch which comprises a support having front and rear faces, a plurality of spaced rows of segments on one face of said support, said rows extending in substantially straight and parallel lines, brush means mounted on said support for movement relative to said segments for engaging a segment of each row simultaneously, current supply means for energizing said brush means, driving means on said support for reciprocating said brush means over the segment rows so that the segments of each row are energized in sequence and a cycle of operations completed by the reciprocating travel of the brush means, terminal posts in engagement with the segments of each row and extending from the other face of said panel, said ter-



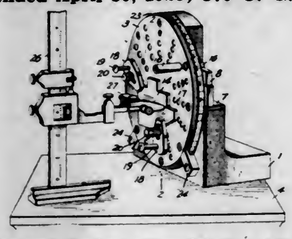
minal posts being selectively usable to receive electrical connections for supplying current to control the operations of a predetermined number of mechanisms and to effect simultaneously the operations of a plurality of mechanisms.

2,324,475
CONTROL MECHANISM
Charles A. Arens, Chicago, Ill., assignor to Arens Controls, Inc., Chicago, Ill., a corporation of Illinois
Application July 29, 1940, Serial No. 348,190
13 Claims. (Cl. 74—531)



1. A control mechanism comprising a control handle, a device to be controlled thereby, control connections between the control handle and said device to be controlled including a pair of operating members selectively operable to operate the controlled device in opposite directions, means normally operative to hold the operating members against operation, and means automatically operable as the control handle is shifted to operate one of said operating members to vary the operative connection between the holding means and the other of said operating members and thereby release the holding action therebetween.

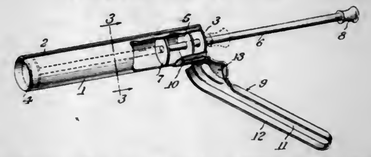
2,324,476
LAYOUT AND CHECKING DEVICE
George L. Becker, Cleveland, Ohio
Application March 9, 1939, Serial No. 260,761
5 Claims. (Cl. 33—174)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A layout device comprising a support pro-

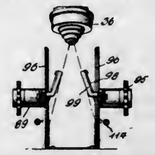
vided with a plate-orienting indexing means and a predeterminately located measuring-block-supporting surface, a work-supporting plate rotatably mounted on said support and having spaced predeterminately located openings therein, means for fastening to said plate material which is to be laid out or checked, and a pin adapted to be placed in a selected opening in said plate and having a portion adapted to engage said indexing means to orient said plate and to also engage selected measuring blocks placed on said supporting surface.

2,324,477
ICE-CREAM DIPPER
Morris A. Berns, Chicago, Ill.
Application February 9, 1942, Serial No. 430,136
3 Claims. (Cl. 107—48)



1. A dipper for semisolid material, comprising a material receiving cylindrical body slotted longitudinally throughout the length thereof, a wall fixed to and closing one end of the body and the opposite end thereof being open and beveled to provide a cutting edge, a partition fixed within said body and spaced from said wall, a plunger including a handled rod mounted for slidable movement through the partition and said wall to be guided thereby, a piston secured to the inner end of the rod for reciprocation within the body, and a handle secured to the body at the closed end thereof and extending at a lateral and upward inclination therefrom.

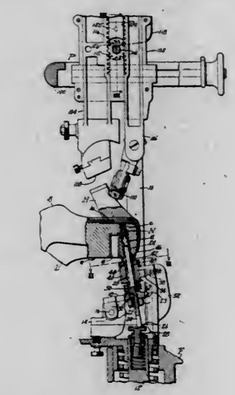
2,324,478
APPARATUS FOR STRIPING ROADWAYS
Purling A. Bleakley, Toledo, Ohio, and Tennies F. Kolts, Chicago, Ill.
Application January 31, 1940, Serial No. 316,502
4 Claims. (Cl. 91—12)



4. In a road striping apparatus, a metal projecting gun, a mobile carrier therefor, an electric motor driven wire feeder for propelling a wire through the gun, a control means for periodically and automatically interrupting operation of the feeder whereby to produce breaks in the applied stripe.

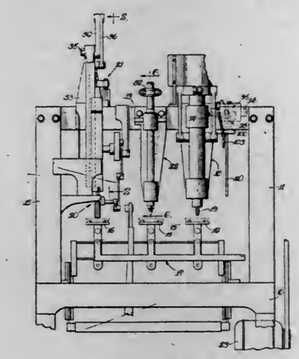
2,324,479
FASTENING-INSERTING MACHINE
Francis L. Brandt, Bridgeport, Conn., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application December 29, 1941, Serial No. 424,740
37 Claims. (Cl. 1—32)

1. A shoe-support comprising a plurality of members one of which supports and positions a shoe initially, and means for moving another of the members to support the shoe and to elevate it from the supporting surface of the initial sup-



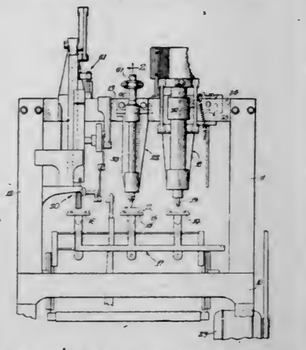
port while said initial support continues to exert a positioning action upon the shoe.

2,324,480
BRUSHMAKING MACHINE
John I. Carlson, Aurora, Ill., assignor to Carlson Tool & Machine Co., Aurora, Ill., a partnership composed of John I. Carlson and Clifford D. Carlson
Application June 5, 1940, Serial No. 338,859
13 Claims. (Cl. 1—2)



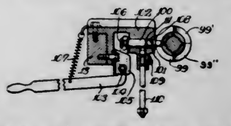
5. In a staple driving mechanism for a brush making machine, a first slide having a longitudinally extending channel formed in the underneath side thereof, a second slide having a longitudinally extending channel formed in the underneath side thereof and a longitudinally extending slot formed therein, a member interconnecting said slides having one end received in the channel in said first slide and rigidly secured thereto and having its other end slidably received in the channel in said second slide, a block carried by said member and slidably received in the slot in said second slide, and a staple driver mounted on said block to be carried by said interconnecting member.

2,324,481
BRUSHMAKING MACHINE
John I. Carlson, Aurora, Ill., assignor to Carlson Tool & Machine Co., Aurora, Ill., a partnership composed of John I. Carlson and Clifford D. Carlson
Original application June 5, 1940, Serial No. 338,859. Divided and this application February 20, 1941, Serial No. 379,807
5 Claims. (Cl. 300—11)



1. In a brush making machine, a first table for supporting a blank brush back to be drilled, a second table for supporting a drilled brush back to be tufted, and a third table supporting a multiple recessed master template, said tables all being interconnected, a hole finder mechanism adapted to cooperate with the template on said third table comprising a support, a hole finder rod having a tapered operative end reciprocably mounted in said support, an actuating lever for said rod, a cam for positively driving said lever to effect the operative, template engaging stroke of said rod for forcibly inserting said tapered end into a recess in said template to position positively said interconnected tables, and a spring for retaining said lever in engagement with said cam and for effecting the return stroke of said rod.

2,324,482
CLUTCH THROWOUT MECHANISM
John I. Carlson, Aurora, Ill., assignor to Carlson Tool & Machine Co., Aurora, Ill., a partnership composed of John I. Carlson and Clifford D. Carlson
Original application June 5, 1940, Serial No. 338,859. Divided and this application February 20, 1941, Serial No. 379,808
6 Claims. (Cl. 192—33)

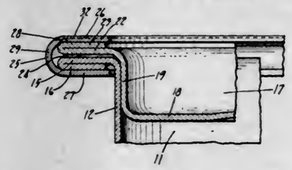


1. A throw-out mechanism for a clutch comprising, in combination, an axially shiftable pin having a projected and a withdrawn position, a locking groove formed in said pin, a lever engaging said pin operable to shift the same to either its retracted or its projected position, a spring engaging said lever normally urging the same to shift the pin to projected position, and a locking bolt operable to engage the locking groove in said pin when in retracted position to hold the same retracted against the action of said spring.

2,324,483
PROCESS OF PREPARING SYNTHETIC RESINS
Pierre Castan, Zurich, Switzerland
No Drawing. Application February 16, 1942, Serial No. 431,157. In Switzerland August 23, 1938
10 Claims. (Cl. 260—47)

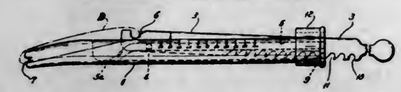
1. A process for the production of thermosetting resins which comprises condensing a polybasic carboxylic acid anhydride with the product of reaction, in alkaline solution, of a phenol having at least two phenolic hydroxy groups and of an epichlorhydrine the said product containing at least two ethylene oxide groups.

2,324,484
CONTAINER
Joseph Cereghino, Los Angeles, Calif., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application March 26, 1941, Serial No. 385,361
2 Claims. (Cl. 220—61)



1. A hermetically sealed sheet metal container, comprising a tubular body having a laterally extended flange at its outer end constituting a shoulder terminating in a hemmed edge, a cover for said body having a depressed countersunk section defined by an upstanding wall disposed in frictional engagement with the interior wall of said body, said wall merging into an outwardly extended flange terminating in a hemmed edge, a sealing gasket interposed between the body shoulder and the cover flange, and a sealing ring for sealing the container, said sealing ring having upper and lower substantially parallel annular spaced walls enclosing the hemmed body and cover edges in a hermetically sealed joint, the outer of said sealing band walls being set off by a score line from the remainder of said band to constitute a removable rip-strip, said rip-strip being severable from said sealing ring to break said sealed joint and permit removal of the cover when the sealing ring is thus removed.

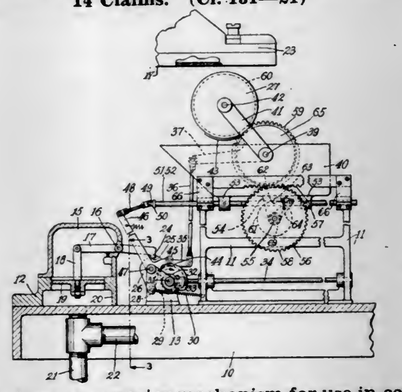
2,324,485
DIAPHRAGM INSERTER
George H. Chamberlain, Jr., San Jose, Calif.
Application May 26, 1941, Serial No. 395,121
8 Claims. (Cl. 128—127)



1. An inserter comprising a long body member having a longitudinally disposed slot therein, and a readily separable companion member having longitudinal slide engagement in said slot, the forward ends of said members having means of engagement with a flexible diaphragm to be inserted, said companion member being adapted to occupy a position beyond the surface of said body member, for engagement of the diaphragm, and to occupy an idle position substantially flush with the outer surface of said body member, pin and inclined groove means of slidable interengagement between said members for effecting

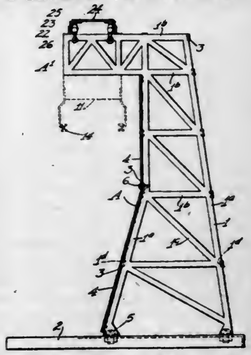
adjustment of said companion members from one of said positions to the other as it is slid along the slot of said body member, a projection upon one of said members at the rear end thereof, and the other of said members having a plurality of forwardly pitched notches and a normally disposed notch for engagement with said projection for holding said companion member in active and idle positions, respectively, and a guard means for limiting the relative movement between said members during disengagement of said projection and notches.

2,324,486
WRAPPER PASTER ROLL
Sigurd Clausen, Brooklyn, N. Y., assignor to International Cigar Machinery Company, a corporation of New Jersey
Application September 16, 1939, Serial No. 295,173
14 Claims. (Cl. 131—21)



1. A wrapper paster mechanism for use in conjunction with a cigar machine of the type provided with a suctional transfer head having means to maintain its suctional effect, and means to move said head through a predetermined transfer cycle, operating with a dwell at a given station, said mechanism comprising a paster roll having a raised paste-applying surface of substantially curvilinear contour, and means to cause said raised paste-applying surface to be engaged rotatively with said wrapper at said dwell.

2,324,487
AERIAL RAILWAY APPARATUS
Alphonso Davino, Los Angeles, Calif.
Application May 3, 1937, Serial No. 140,366
6 Claims. (Cl. 104—124)



1. In an educational toy of the class described, a plurality of towers and truss sections, each comprising opposite side members and transverse tie members, each side member formed of a single piece simulating a fabricated steel frame, the tie members securing together the respective side members in spaced relation to simulate wholly fabricated steel towers and truss sections, two sections being butted end to end and secured with said abutted ends to a single tower, pairs of cables adjustably suspended between adjacent towers, and hooks securing the truss sections to the cables at the end portions of the sections.

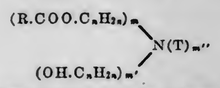
2,324,488
PROCESS FOR BREAKING PETROLEUM EMULSIONS
Melvin De Groote, University City, and Bernhard Keiser, Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del., a corporation of Delaware
No Drawing. Application July 7, 1941, Serial No. 401,376
10 Claims. (Cl. 252—341)

1. A process for breaking petroleum emulsions of the water-in-oil type, characterized by subjecting the emulsion to the action of a demulsifying agent comprising a water-soluble esterification product derived by reaction between one mole of a polybasic compound and two moles of a hydroxylated acylated amino-ether compound; the polybasic compound being the esterification product of (A) a polyalkylene glycol having at least 7 and not more than 17 ether linkages, and the alkylene radical thereof containing at least 2 and not more than 6 carbon atoms; and (B) a polybasic carboxy acid having not more than 6 carbon atoms; and the ratio of the esterifying reactants being within the range of more than 1 and not over 2 moles of the polybasic acid for each mole of the glycol; and said hydroxylated acylated amino-ether containing: (*a*) a radical derived from a basic hydroxyamino-ether, and said radical being of the kind containing at least one amino nitrogen free from attached aryl and amido-linked acyl radicals; said hydroxy amino-ether radical being further characterized by the presence of at least one radical derived from a basic hydroxyamine and being attached by at least one ether linkage to at least one radical selected from the class consisting of glycerol radicals, polyglycerol radicals, glycol radicals, polyglycol radicals, basic hydroxyamine radicals, amido hydroxyamine radicals, and aryl alkanolamine radicals; said basic hydroxyamino-ether radical being characterized by containing not over 60 carbon atoms; and (*b*) an acyl radical derived from a detergent-forming monocarboxy acid having at least 8 carbon atoms and not more than 32 carbon atoms, said acylated amino-ether being additionally characterized by the fact that said aforementioned acyl radical is a substituent for a hydrogen atom of an alcoholic hydroxyl radical.

2,324,489
PROCESS FOR BREAKING PETROLEUM EMULSIONS
Melvin De Groote, University City, and Bernhard Keiser, Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del., a corporation of Delaware
No Drawing. Application July 7, 1941, Serial No. 401,377
10 Claims. (Cl. 252—341)

1. A process for breaking petroleum emulsions of the water-in-oil type, characterized by subjecting the emulsion to the action of a demulsify-

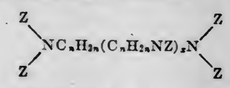
ing agent comprising a water-soluble esterification product derived by reaction between one mole of a polybasic compound, and 2 moles of a hydroxylated acylated monoamino compound free from ether linkages; the polybasic compound being the esterification product of (A) a polyalkylene glycol having at least 7 and not more than 17 ether linkages, and the alkylene radical thereof containing at least 2 and not more than 6 carbon atoms; and (B) a polybasic carboxy acid having not more than 6 carbon atoms; and the ratio of the esterifying reactants being within the range of more than 1 and not over 2 moles of the polybasic acid for each mole of the glycol; and said hydroxylated acylated amino compound free from ether linkages being of the following type:



in which R.COO represents the oxy-acyl radical derived from a monobasic detergent-forming acid; T represents a member of the class consisting of hydrogen atoms, non-hydroxyl hydrocarbon radicals, and acylated radicals, obtained by replacing a hydrogen atom of the hydroxyl group of an alkylol radical by the acyl radical of a monobasic carboxy acid having less than 8 carbon atoms; n represents a small whole number which is less than 10; m represents the numeral 1, 2, or 3; m' represents the numeral 0, 1, or 2; and m'' represents the numeral 0, 1, or 2, with the proviso that $m+m'+m''=3$.

2,324,490
PROCESS FOR BREAKING PETROLEUM EMULSIONS
Melvin De Groote, University City, and Bernhard Keiser, Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del., a corporation of Delaware
No Drawing. Application July 7, 1941, Serial No. 401,378
10 Claims. (Cl. 252—341)

1. A process for breaking petroleum emulsions of the water-in-oil type, characterized by subjecting the emulsion to the action of a demulsifying agent comprising a water-soluble esterification product, derived by reaction between one mole of a polybasic compound and two moles of a basic hydroxylated acylated polyamino compound free from ether linkages; the polybasic compound being the esterification product of (A) a polyalkylene glycol having at least 7 and not more than 17 ether linkages, and the alkylene radical thereof containing at least 2 and not more than 6 carbon atoms; and (B) a polybasic carboxy acid having not more than 6 carbon atoms; and the ratio of the esterifying reactants being within the range of more than 1 and not over 2 moles of the polybasic acid for each mole of the glycol; and said basic hydroxylated acylated polyamino compound free from ether linkages being of the following formula:



in which n represents a small whole number varying from 2 to 10; x is a small whole number varying from 0 to 10; Z is a member of the class consisting of H, RCO, R'CO, and D, in which RCO represents an acyl radical derived from a detergent-forming monocarboxy acid; R'CO is an acyl radical derived from a lower molecular weight carboxy acid having 6 carbon atoms or less; and D is a member of the class consisting of alkyl, hydroxyalkyl, aminoalkyl, and acyloxyalkylene, in which instance the acyl group is a member of the class consisting of RCO and R'CO; and the acylated polyamine is further characterized by the fact that there must be present a member of the class consisting of (*a*) acyloxyalkylene radical in which the acyl group is RCO; and (*b*) joint occurrence of an amino radical in which the acyl group is RCO and a hydroxyalkyl radical.

2,324,491
PROCESS FOR BREAKING PETROLEUM EMULSIONS
Melvin De Groote, University City, and Bernhard Keiser, Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del., a corporation of Delaware
No Drawing. Application July 7, 1941, Serial No. 401,379
10 Claims. (Cl. 252—341)

1. A process for breaking petroleum emulsions of the water-in-oil type, characterized by subjecting the emulsion to the action of a demulsifying agent comprising a water-soluble esterification product, derived by reaction between one mole of a polybasic compound and two moles of a substituted oxyalkylated imidazoline; the polybasic compound being the esterification product of (A) a polyalkylene glycol having at least 7 and not more than 17 ether linkages, and the alkylene radical thereof containing at least 2 and not more than 6 carbon atoms; and (B) a polybasic carboxy acid having not more than 6 carbon atoms; and the ratio of the esterifying reactants being within the range of more than 1 and not over 2 moles of the polybasic acid for each mole of the glycol; said imidazoline being an oxyalkylated imidazoline substituted in 2-position, by a radical containing from 11–22 carbon atoms selected from the group consisting of alicyclic hydrocarbon radicals, aliphatic hydrocarbon radicals, and aliphatic hydrocarbon radicals substituted by hydroxyl radicals; said oxyalkylated imidazolines containing a member of the class consisting of:

—N—(R—O)$_n$H and —NH—(R—O)$_n$H—

radicals, wherein R denotes an aliphatic radical and n is a whole number greater than 2 and less than 11.

2,324,492
PROCESS FOR BREAKING PETROLEUM EMULSIONS
Melvin De Groote, University City, and Bernhard Keiser, Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del., a corporation of Delaware
No Drawing. Application July 7, 1941, Serial No. 401,380
10 Claims. (Cl. 252—341)

1. A process for breaking petroleum emulsions of the water-in-oil type, characterized by subjecting the emulsion to the action of a demulsifying agent comprising a water-soluble esterification product, derived by reaction between one mole of a polybasic compound and two moles of a hydroxylated substituted pyridinium halogen compound; the polybasic compound being the esterification product of (A) a polyalkylene glycol having at least 7 and not more than 17 ether linkages, and the alkylene radical thereof containing at least 2 and not more than 6 carbon atoms;

and (B) a polybasic carboxy acid having not more than 6 carbon atoms; and the ratio of the esterifying reactants being within the range of more than 1 and not over 2 moles of the polybasic acid for each mole of the glycol; said hydroxylated substituted pyridinium halogen compound containing as a substituent for the pyridinium hydrogen atom, a radical containing at least 8 and not more than 59 carbon atoms, and having as an integral part thereof at least one alcoholiform hydroxyl radical.

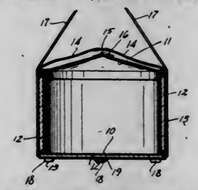
2,324,493
PROCESS FOR BREAKING PETROLEUM EMULSIONS
Melvin De Groote, University City, and Bernhard Keiser, Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del., a corporation of Delaware
No Drawing. Application July 7, 1941, Serial No. 401,381
10 Claims. (Cl. 252—341)

1. A process for breaking petroleum emulsions of the water-in-oil type, characterized by subjecting the emulsion to the action of a demulsifying agent comprising a water-soluble esterification product, derived by reaction between one mole of a polybasic compound and two moles of a hydroxylated acylated amide; the polybasic compound being the esterification product of (A) a polyalkylene glycol having at least 7 and not more than 17 ether linkages, and the alkylene radical thereof containing at least 2 and not more than 6 carbon atoms; and (B) a polybasic carboxy acid having not more than 6 carbon atoms; and the ratio of the esterifying reactants being within the range of more than 1 and not over 2 moles of the polybasic acid for each mole of the glycol; said hydroxylated acylated amide containing: (*a*) an amino nitrogen-linked acyl radical derived from a monocarboxy acid having not more than 5 carbon atoms; (*b*) an acyl radical derived from a detergent-forming monocarboxy acid having at least 8 and not more than 32 carbon atoms; and (*c*) an alcoholiform hydroxyl radical.

2,324,494
PROCESS FOR BREAKING PETROLEUM EMULSIONS
Melvin De Groote, University City, and Bernhard Keiser, Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del., a corporation of Delaware
No Drawing. Application July 7, 1941, Serial No. 401,384
10 Claims. (Cl. 252—341)

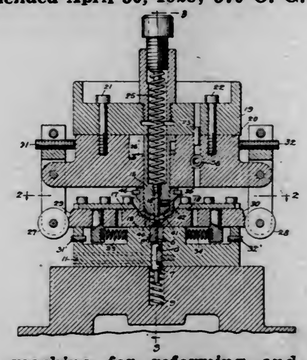
1. A process for breaking petroleum emulsions of the water-in-oil type, characterized by subjecting the emulsion to the action of a demulsifying agent comprising a water-soluble esterification product, derived by reaction between one mole of a polybasic compound and two moles of a hydroxylated acylated diamide; the polybasic compound being the esterification product of (A) a polyalkylene glycol having at least 7 and not more than 17 ether linkages, and the alkylene radical thereof containing at least 2 and not more than 6 carbon atoms; and (B) a polybasic carboxy acid having not more than 6 carbon atoms; and the ratio of the esterifying reactants being within the range of more than 1 and not over 2 moles of the polybasic acid for each mole of the glycol; said hydroxylated acylated diamide containing: (*a*) an acyl radical derived from a polybasic carboxy acid having not more than 6 carbon atoms, and the acyl radical thereof linked to two amino nitrogen atoms; (*b*) an acyl radical derived from a detergent-forming monocarboxy acid having at least 8 and not more than 32 carbon atoms; and (*c*) an alcoholiform hydroxyl radical.

2,324,495
GAME CARRIER
Clarence E. Deming, Worthington, Minn.
Application December 14, 1940, Serial No. 370,164
1 Claim. (Cl. 150—52)



A game carrier comprising an oblong rigid container having side and bottom walls and open top, a layer of heat insulating material covering the side and bottom walls, a displaceable rigid cover having a raised centrally crowned portion providing a ridge extending longitudinally thereof and a marginal rim extending from the crowned portion at right angles to the side walls of the container adapted to fit the open top of the container, a flexible fabric cover closely fitting the layer of insulating material on the container walls to the open top thereof and having a pair of flexible closure flaps extending therebeyond, each of said flaps being of a length substantially equal to that of the container and of a width substantially equal to one-half the width of the container, said flaps being equipped along their free edges with coacting separable fastening means which may be progressively engaged from one end of the container to the other over the centrally crowned ridge of the cover to hold the container and its cover against displacement within the bag and to provide a dead air heat insulating space between the flaps of the bag and the displaceable cover of the container.

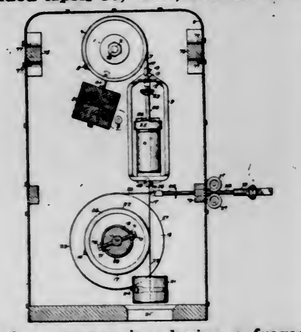
2,324,496
RESIZING AND SHAVING DIE SET
Augusto De Rentiis, Prospect Park, Pa.
Application September 13, 1940, Serial No. 356,630
10 Claims. (Cl. 29—33)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A machine for reforming and finishing escapement levers for clockwork fuses, said levers having pallets bent at an angle to the plane of

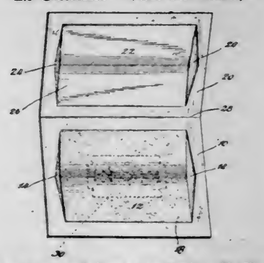
the lever proper, and said pallets having knife edges, said machine comprising a bed for the reception of the lever and a ram movable to and from said bed to hold said lever for work operations, dies movable crosswise of the direction of travel of the ram to engage said pallets in pressing engagement to reform the same at their proper angle, and a tool movable in the direction of the ram for motion along one of said knife edges to remove burrs and otherwise smooth said edges.

2,324,497
FORCE MEASURING DEVICE
Augusto De Rentiis, Prospect Park, Pa.
Application August 8, 1941, Serial No. 405,960
3 Claims. (Cl. 265—62)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



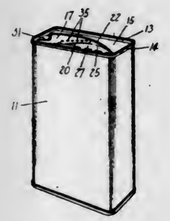
1. In a force measuring device, a frame, a pulley concentrically mounted on a horizontal shaft on the frame, a weight eccentrically mounted on the pulley and swung upward against the force of gravity by a force rotating the pulley in clockwise direction, a flexible band secured at one end to said pulley and wrapped about its periphery, a two diameter pulley below the first and similarly mounted in the frame, a second flexible band connected at one end to the smaller diameter part of the lower pulley and at the other to the first mentioned band, a flexible band secured at one end to the larger diameter part of the lower pulley and at the other to a device the force of which is to be measured, a scale on the frame and an indicator secured to the lower pulley for movement relative to the scale when the lower pulley is rotated.

2,324,498
HONE
George W. Emmert, Chicago, Ill.
Application June 18, 1942, Serial No. 447,487
12 Claims. (Cl. 51—211)



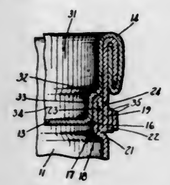
1. A hone comprising a substantially flat sheet having an embossment therein extending out of the plane thereof, a facing of abrasive material integrated with said embossment to provide a honing surface, and a protecting covering for said facing.

2,324,499
CONTAINER
George C. Erb, Forest Hills West, N. Y., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application September 30, 1939, Serial No. 297,398
2 Claims. (Cl. 221—62)



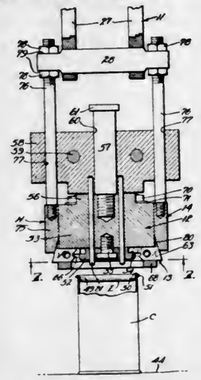
1. In a sealed rectangular dredge top can wherein a perforated slide member is movably confined within a slideway on an imperforate can end member seamed to the can body, for sliding movement within the confines of the end seam into a plurality of closing and dispensing positions relative to a prelocated dispensing area in the can end member, the improvement comprising said slideway and slide member being of conforming arcuate configuration with the slideway extending from one seam edge to an angularly disposed adjoining seam edge of the container end member, to obtain movement of said slide member in a curved path of travel, whereby to obtain a maximum movement of the slide member into said plurality of positions on the end of a can of relatively small cross sectional size.

2,324,500
CONTAINER
George C. Erb, Forest Hills West, N. Y., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application November 18, 1939, Serial No. 305,139
4 Claims. (Cl. 220—54)



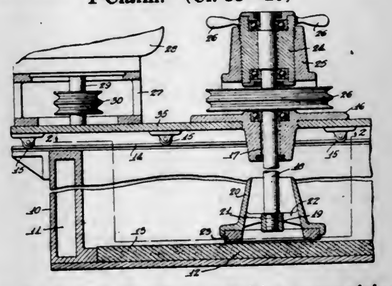
1. A sheet metal can comprising a tubular body, top and bottom ends double seamed to said body, said body having a wall folded upon itself adjacent a said end double seam to provide a three wall thickness at the fold, and a multiple wall tearing strip formed in the outer and intermediate folds of said triple body wall and set off by a pair of spaced score lines respectively cut in said outer and intermediate folds and disposed outwardly from the line of fold therebetween, said multiple wall tearing strip being adapted for removal by breaking of the score lines in opening the can.

2,324,501
SEAMING MACHINE
William J. Geist, St. Louis, Mo., assignor, by mesne assignments, to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application February 17, 1941, Serial No. 379,335
12 Claims. (Cl. 113—18)



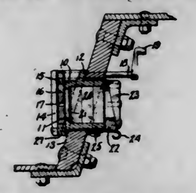
1. In a machine for seaming ends on containers, a support for a container which has an end arranged thereon, a chuck movable into and out of engagement with said end, the chuck including an anvil adapted to engage said end to fit within its seam, dies shiftably carried by the chuck for bodily movement toward and away from the anvil, a cam telescopically related to the chuck for movement toward and away from said end and operable to actuate the dies inwardly into seaming engagement with said end upon movement toward said end relative to the chuck, and parts on the chuck and cam initially supporting the chuck where the chuck is spaced from said end and disengaged to allow movement of the cam relative to the chuck when the chuck has come into engagement with said end.

2,324,502
GRINDING MILL
William F. Heller, Manhasset, N. Y.
Application November 8, 1940, Serial No. 364,787
1 Claim. (Cl. 83—10)



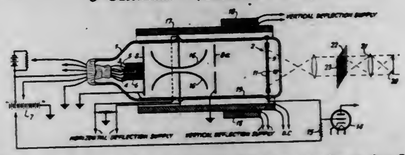
An improved grinding machine comprising, a rectangular tank, a rectangular flat grinding stone mounted in the bottom of the tank, a trackway mounted on the top of the tank, a carriage mounted for reciprocating movement thereon with respect to the tank, a rotatably mounted vertical shaft on the carriage, a tubular holder carried by the shaft, an annular grinding stone mounted on the lower end of said holder and in grinding relation with the face of the first said grinding stone, said holder extending upwardly from the annular grinding stone and terminating below the material level in the tank, means within the holder for feeding material outward between the grinding surfaces, and means for driving the shaft to rotate the annular grinding stone.

2,324,503
ARMORED OBSERVATION UNIT
Arthur W. Herrington, Indianapolis, Ind., assignor to Marmon-Herrington Company, Inc., Indianapolis, Ind., a corporation of Indiana
Application January 9, 1942, Serial No. 426,152
2 Claims. (Cl. 109—58.5)



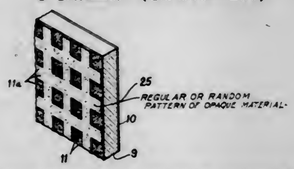
1. An armored observation unit comprising, a main body frame defining an aperture, inwardly-projecting means intermediate the length of said aperture forming a seat for a transparent unit insertable in said aperture, said transparent unit seatable within the inner end of the frame aperture, an apertured protector plate seated in said frame adjacent the outer end of said frame aperture, means accessible at the inner end of said frame aperture by which said protector may be moved to and from position blocking the outer end of said frame aperture, and movable means accessible at the inner end of said frame aperture for retaining the transparent unit in place.

2,324,504
TELEVISION TRANSMITTING SYSTEM
Harley A. Iams, Summit, and Albert Rose, East Orange, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application November 28, 1940, Serial No. 367,516
9 Claims. (Cl. 178—7.2)



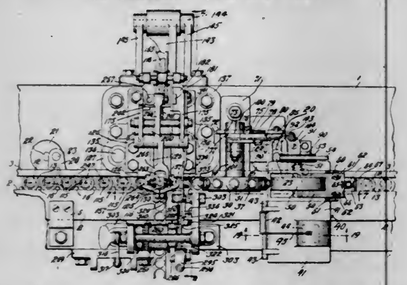
1. In a television transmitting system including a tube having a cathode to emit a beam of electrons and a mosaic target of photosensitive particles substantially all of which are exposed to said beam and adapted to be scanned by said beam, means to scan said beam in two coordinate directions over said target, means to maintain said cathode and substantially all of said particles in the absence of light and during scansion of said beam at substantially the same potential whereby the electron beam is unable to impinge said particles, means to project light representative of an optical image on said target to develop a positive electrostatic image on said target, and means to maintain small localized areas of said target mixed with areas representative of said optical image at substantially the potential of said cathode to limit the photo-emission of illuminated areas on said target whereby the emission of photo-electrons is made non-linear with light intensity.

2,324,505
TELEVISION TRANSMITTING TUBE AND ELECTRODE STRUCTURE
Harley A. Iams, Summit, and Albert Rose, East Orange, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Original application November 28, 1940, Serial No. 367,516. Divided and this application February 6, 1942, Serial No. 429,756
3 Claims. (Cl. 250—167)



1. A light sensitive electrode comprising a substantially transparent foundation, a light sensitive electrically discontinuous mosaic structure on one side of said foundation and an opaque signal plate in capacitive relation with said structure said signal plate being provided with apertures distributed over the surface thereof to allow light to be projected through said foundation and upon said structure as discrete areas separated one from another by areas in shadow and by said signal plate.

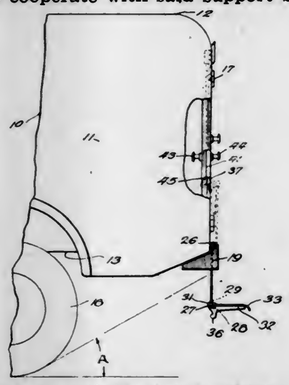
2,324,506
SPOT MACHINE
Clarence S. Jackson, Brooklyn, and Alexander C. Parlini, Freeport, N. Y., and Eugene Hascher, Newark, N. J., assignors to Peters Bros. Rubber Co., Inc., Brooklyn, N. Y., a corporation of New York
Application June 11, 1940, Serial No. 339,898
28 Claims. (Cl. 113—80)



1. A machine for applying spots to caps of the crown type having a shell and a cushion liner, comprising means for feeding said caps past a spot applying station, means at said station to supply and position said spots on the cushion liners of said caps, means for holding said spots in position thereon, and means at said station operable subsequent to the operation of said holding means for inserting a mechanical securing means through said spot and cushion liner to secure said spots to said liners while the spot is so held in position.

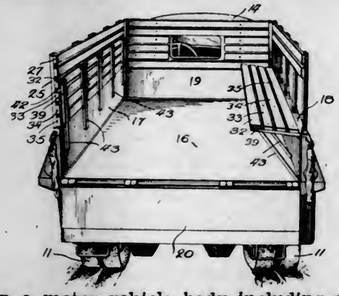
2,324,507
AMBULANCE STEP
William B. Johnson, United States Army, Baltimore, Md.
Application October 16, 1941, Serial No. 415,228
9 Claims. (Cl. 280—166)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A shiftable vehicle step including a mounting pivot below the floor of the vehicle body, adjacent the rear edge of the vehicle, and comprising a single metal rod extending in a generally horizontal direction between a pair of brackets secured to the vehicle; a pair of step supports spaced apart from each other and mounted on said mounting pivot, each of said supports comprising a relatively flat metal bar having an upper loop arranged to telescope over the aforementioned mounting pivot to establish a pivotal supporting connection for the bars; lugs arranged to cooperate with said support bars and



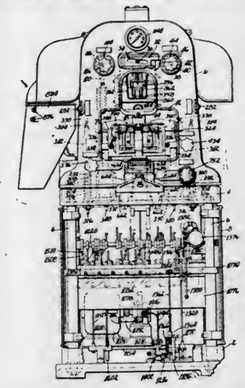
the stationary portions of the vehicle body to limit the pivoted movement of the bars and thus support weights resting on the step to be hereinafter described, pivot supporting loops at the lower end of each of the step supporting bars, a step pivot supported within said loops, and a pair of step brackets carried by said step pivot; limit lugs cooperating between said step brackets and supports to limit the pivotal movement of the brackets, and a step plate supported by said brackets.

2,324,508
MILITARY VEHICLE BODY
William B. Johnson, United States Army, Baltimore, Md.
Application March 21, 1942, Serial No. 435,697
3 Claims. (Cl. 296—36)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a motor vehicle body including a relatively wide, flat floor and low side walls, the combination of a plurality of stake sockets disposed in rows adjacent the opposite sides of the vehicle floor and positioned immediately outside of, and on the outside face of, the side walls; a plurality of removable, generally vertical, supporting sleeves adapted to be telescoped into said supporting stake sockets, a plurality of the supporting sleeves being joined by side rails permanently secured to said supporting sleeves and thus arranged in groups capable of being inserted in or removed from the aforementioned stake sockets as a unit; the side rails interconnecting said supporting sleeves being permanently mounted adjacent the upper ends of the sleeves and in a position substantially above the extreme upper edge of the vehicle side wall; said side rails also being positioned on the inner faces of the supporting sleeves so as to lie directly above the upper edge of the side wall of the vehicle; pivots associated with said sleeves substantially above the floor of the vehicle and above the upper edge of the vehicle side wall; a seat support mounted on each of said pivots, said supports being arranged to pivot between a vertical position and a horizontal position; and a plurality of seat rails extending between and secured to said supports, said seat rails being secured on the upper side of the supports, so that when the supports are in horizontal position the seat rails will present a continuous, smooth, uninterrupted seat surface, and when the supports are shifted to vertical position the seat rails will lie above the side wall of the vehicle below the side rails and in the exact plane of the side wall and side rails.

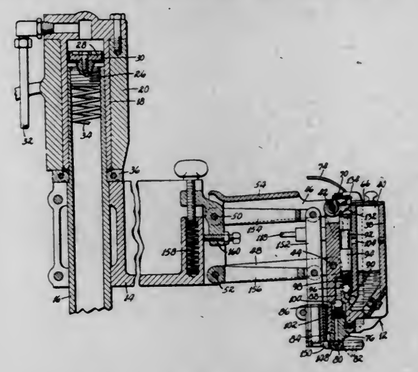
2,324,509
MACHINE FOR USE IN THE MANUFACTURE OF SHOES
Bernhardt Jorgensen, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application February 4, 1941, Serial No. 377,347
202 Claims. (Cl. 12—14)



1. In a machine for shaping uppers over lasts, upper-gripping means for gripping the margin of an upper at the toe end of a last and for pulling the upper, upper-trimming means arranged to sever surplus marginal material from the toe end of the upper after such pulling of the upper, means for applying cement to the shoe for securing the margin of the toe end of the upper to an insole on the last, and means for lasting the margin of the trimmed upper over the insole into position to be secured thereto by the cement.

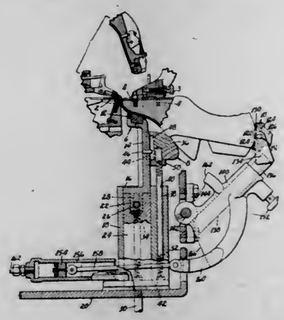
2,324,510
CEMENT-APPLYING MECHANISM
Bernhardt Jorgensen, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Original application February 4, 1941, Serial No. 377,347. Divided and this application March 24, 1942, Serial No. 435,989
16 Claims. (Cl. 12—80)

1. In a shoe machine, a cement receptacle having a cement-containing chamber, a pump located outside of said chamber, said receptacle and pump being movable as a unit toward a shoe heightwise thereof into position to apply cement to the shoe and reversely movable thereafter away from the shoe, means providing a passage leading from said chamber to the pump, a valve



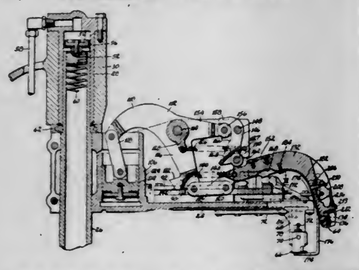
controlling said passage, and means for operating said pump to deliver cement in response to the movement of the receptacle and pump toward the shoe and for thereafter operating the pump to withdrawn cement from said chamber past said valve in response to the movement of the receptacle and pump away from the shoe.

2,324,511
SHOE-SUPPORTING MEANS FOR SHOE MACHINES
Bernhardt Jorgensen, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Original application February 4, 1941, Serial No. 377,347. Divided and this application March 24, 1942, Serial No. 435,990
10 Claims. (Cl. 12—123)



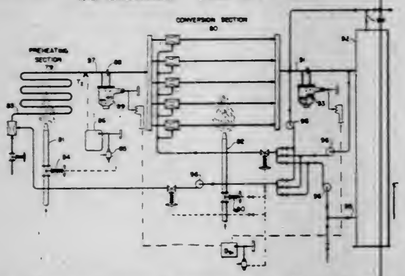
1. In a machine for operating on shoes, the combination with means for applying pressure to the bottom of a shoe on a last, of a toe rest and an instep support movable heightwise of the shoe into positions to support the shoe against said pressure and relatively movable also heightwise of the shoe to permit them to adjust themselves to the shoe, and fluid-operated means for moving said toe rest and instep support into their shoe-supporting positions while permitting such relative movement thereof.

2,324,512
UPPER-TRIMMING MEANS
Bernhardt Jorgensen, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Original application February 4, 1941, Serial No. 377,347. Divided and this application May 15, 1942, Serial No. 443,097
40 Claims. (Cl. 12—83.5)



1. In a shoe machine, means for trimming the margin of an upper on a last, said upper-trimming means being movable relatively to the last into position for operating on the upper, a fluid-operated device for thus moving the upper-trimming means by fluid pressure, and another fluid-operated device movable with said upper-trimming means for thereafter operating said trimming means to trim the upper.

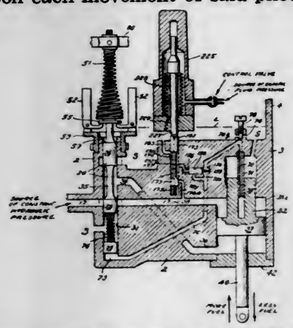
2,324,513
CONTROL SYSTEM
Raymond D. Junkins, Cleveland Heights, Ohio
Application January 5, 1940, Serial No. 312,516
28 Claims. (Cl. 196—132)



1. The method of operating a forced circulation fluid treating system wherein the entering fluid contains a material percentage of liquid, which includes, heating the treating zone of the forced circulation path to a degree whereby a portion of the entering liquid is vaporized, passing the treated fluid to a relatively quiescent separator zone, recirculating a portion of the treated fluid to the entrance of the treating zone, and varying the percentage recirculated responsive to a density manifestation of the liquid-vapor mixture of the treated fluid.

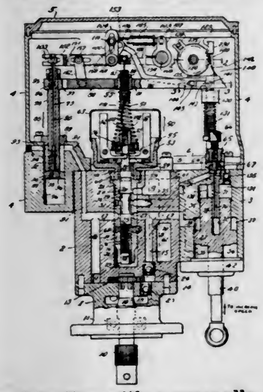
2,324,514
GOVERNOR
Albert Kalin, Cleveland, Ohio
Application March 26, 1941, Serial No. 385,228
5 Claims. (Cl. 121—42)

1. In a governor mechanism, a hydraulic regulating relay including a regulating servo-motor, a pilot valve actuatable in opposite directions from a normal position for controlling application of hydraulic pressure to the servo-motor and weighing means operatively connected to the pilot valve, a fluid operated compensation system operatively connected to the pilot valve in a manner tending to restore the pilot valve to normal position upon each movement of said pilot valve out



of normal position, and means including a normally closed valve arranged to subject said system to fluid pressure from a source outside said system whereby to cause an actuation of the pilot valve in one direction independently of the action of the weighing means thereon.

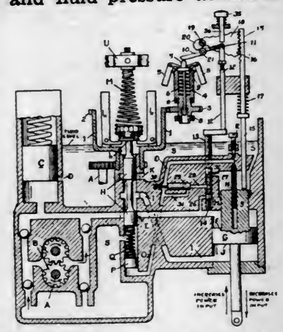
2,324,515
GOVERNOR
Albert Kalin, Cleveland, Ohio
Application June 2, 1941, Serial No. 396,338
21 Claims. (Cl. 264—3)



1. In combination with a normally isochronous speed governor having adjustable speed setting means and other means operative to adjust a part of the speed setting means to obtain a desired percentage of speed droop on part of the machine to be governed during operation of the governer at one speed setting; of means operated by the speed setting means and operative on said other means to maintain substantially the same percentage of speed droop as the speed setting means is adjusted to a different speed setting.

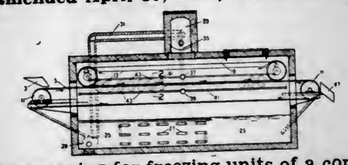
2,324,516
GOVERNOR
Albert Kalin, Cleveland, Ohio
Application September 10, 1941, Serial No. 410,283
2 Claims. (Cl. 264—3)

1. A speed governor combination comprising a main speed responsive governor mechanism including control means and regulating means adapted and arranged to cause increased input to a prime mover upon increase in load and vice versa, an inversely operating speed responsive governor mechanism including a normally closed valve and a fluid supply line controlled by the valve, said line having a portion connected with the valve and another portion into which fluid from the supply line is directed when the valve is opened, and fluid pressure actuatable means



operatively associated with the main governor control means and caused to act thereon in a manner to oppose the usual action thereof upon decrease in speed of the governed prime mover, whereby in event excessive load on the prime mover depresses the speed thereof to such an extent that increased input is then undesirable, said inversely operating mechanism can, by control of said valve, prevent the first governor mechanism from causing further increase of input to the prime mover in said event.

2,324,517
APPARATUS FOR FREEZING FOODSTUFFS
David W. King, Knoxville, Tenn.
Application April 1, 1942, Serial No. 437,285
1 Claim. (Cl. 62—104)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

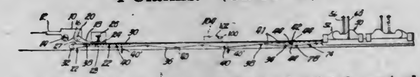


An apparatus for freezing units of a comestible which comprises the combination of a chamber providing a refrigeration zone; a mobile member traversing said chamber, said member comprising a laterally supported sheet of highly flexible material having the characteristic of being able to conform at low temperatures substantially to the shape of units of comestible contacting the same; a second like mobile member moving contiguous to and above said first mentioned mobile member; means for directing refrigerant liquid against the bottom and top, respectively, of the flexible material of said first and second mobile members; means for disposing units of comestible on said first mentioned mobile member; and means for progressing said mobile members moving at different rates and the units of comestible between them through said chamber, thereby causing a change of surface contact of units of comestible disposed between the flexible material of said mobile members with the freezing of the comestible units by thermal transfer through said flexible material.

2,324,518
PROCESS OF CARRYING OUT REACTIONS WITH CARBONACEOUS MATERIALS
Hans Klein, Mannheim, Rudolf Seidler, Heidelberg, and Fritz Stoewener, Ludwigshafen-on-the-Rhine, Germany; vested in the Alien Property Custodian
No Drawing. Application October 23, 1940, Serial No. 362,406. In Germany June 8, 1939
8 Claims. (Cl. 196—52)

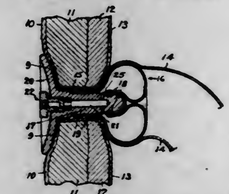
1. A process for the production of a hydrocarbon oil by the thermal treatment of a carbonaceous material at a temperature above 300° C. in the presence of a catalyst which comprises employing a catalyst obtained by removing the air from the pores of a silica gel by means of a gaseous substance readily soluble in water, then treating the gel with an aqueous solution of a salt of a polyvalent metal which salt is capable of conversion to the corresponding oxide, washing and drying the mass.

2,324,519
DRYING OF DISTENDED FIBROUS PRODUCTS
Otto J. Krueger, Western Springs, and John Caresio, Chicago, Ill., assignors to Masonite Corporation, a corporation of Delaware
Application August 3, 1940, Serial No. 351,030
4 Claims. (Cl. 34—7)



1. Process of treating relatively thick wet sheet material containing fibers held in distended relationship by relatively stable bubbles, which comprises delivering added water to the upper part of the sheet, and then drying the sheet by directing hot circulating gases toward the sheet surface to obtain uniform and increased speed in drying of the sheet whereby the fibers are substantially fixed in their distended relationship and improved strength obtained with substantially no charring.

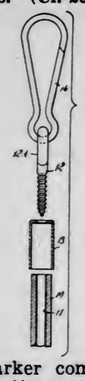
2,324,520
APPARATUS AND METHOD FOR CLOSING ABNORMAL OPENINGS IN WALL-LIKE MEMBERS OF THE ANATOMY
Otis F. Lamson, Seattle, Wash.
Application April 7, 1941, Serial No. 387,233
3 Claims. (Cl. 128—283)



1. A device for periodically closing and opening the stoma of a patient who has been subjected to a colostomy, comprising a pad member having an inner annular contacting surface portion, said pad member being positionable external of a patient and with said surface portion in relatively close proximity to the stoma and in continuous supporting relation with the epithelium layer surrounding the stoma; a tubular member insertable in the stoma of a patient and carrying at one end portion thereof the said pad member; and an inflatable and deflatable mem-

ber secured to the other end portion of the tubular member, and positioned in spaced relation to said pad member when inflated a distance substantially less than the normal thickness of the tissue between the epithelium layer and the peritoneal lining of a patient, whereby said inflatable and deflatable member may be inserted when deflated, and adapted, upon inflation, to move a portion of the intestine of a patient substantially parallel to the body wall, thereby to compress the said portion of the intestine and the tissue of the patient between the epithelium layer and the peritoneal lining and thereby effectively block fecal discharge of liquids, solids and gases from the intestine leading to the stoma.

2,324,521
LUMINOUS MARKER
Clarence B. Lee and Clarence W. Wallhausen, Morristown, N. J., assignors to United States Radium Corporation, New York, N. Y., a corporation of Delaware
Application November 25, 1941, Serial No. 420,334
9 Claims. (Cl. 250—73)



1. A luminous marker comprising a flexible tube of organic plastic material of relatively high tensile strength and reasonable transparency coated on the inside with a paint comprising a luminescent pigment in a flexible binder, the tube and binder being sufficiently flexible and the relationship of the tube length to its cross-section being such that the marker may be formed into a coil of relatively small diameter.

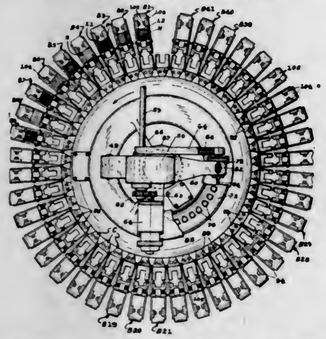
2,324,522
PROCESS FOR THE MANUFACTURE OF KETONES OF THE CYCLOPENTANO POLYHYDROPHENANTHRENE SERIES
Willy Logemann, Berlin-Friedenau, and Walter Hildebrand, Berlin-Pankow, Germany, assignors to Schering Corporation, Bloomfield, N. J., a corporation of New Jersey
No Drawing. Application December 22, 1939, Serial No. 310,540. In Germany January 6, 1939
10 Claims. (Cl. 260—397.4)

1. Process for the production of ketones of the cyclopentano polyhydrophenanthrene series, comprising heating and reacting compounds of the cyclopentano polyhydrophenanthrene series having at the 17-carbon atom of the ring system a member of the class consisting of the hydroxy group and groups convertible thereinto with the aid of hydrolysis, and also a side-chain of the formula

$$—CHR—CH_2.R_1$$

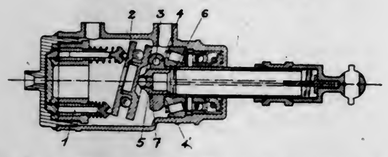
wherein R is a member of the class consisting of a hydroxy group and a group convertible thereinto and R_1 consists of a member of the class composed of hydrogen, a hydroxy group and groups convertible thereinto with the aid of hydrolysis with zinc particles.

2,324,523
MACHINE FOR ASSEMBLING STORAGE BATTERY PLATES AND SEPARATORS
Arthur D. Lund, Minneapolis, Minn., assignor to Solar Corporation, Milwaukee, Wis., a corporation of Delaware
Application September 15, 1941, Serial No. 410,881
11 Claims. (Cl. 29—84)



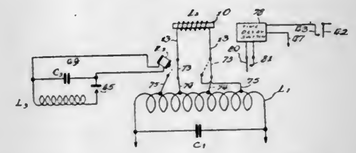
1. A battery plate assembling machine comprising a series of magazines for respectively containing supplies of positive grid plates, negative grid plates, and separator plates, a series of holders, a continuously operating element for effecting step-by-step movements of one of said series relative to the other series to sequentially place the magazines and holders in registry for transfer of the plates from the magazines to the holders, and means for successively projecting the plates from the magazines towards the respective holders and means for transferring the projected plates to the holders in the order in which such positive, negative, and separator plates occur in a battery.

2,324,524
PUMP
Jean Mercier, Neuilly-sur-Seine, France; vested in the Alien Property Custodian
Application June 29, 1939, Serial No. 281,861
In France July 6, 1938
4 Claims. (Cl. 103—173)



1. In a wabble plate pump, in combination, a plurality of pump cylinders disposed in a circular series about, and substantially equidistantly from, a pump axis, each cylinder having an associated piston and the several pistons being disposed in parallel relationship to each other and to said axis, a cam disposed transversely of said axis and so as to engage and act upon the heads of the said pistons, a cam supporting member disposed adjacent said cam, said member and said series of cylinders being relatively revoluble about said axis, means pivotally connecting said member and cam whereby the cam and member are constrained to rotate together and the cam is supported for rocking movement about an axis disposed in a plane normal to said pump axis and tangent to a circle in said plane which is centered on said pump axis, the radius of said circle being less than the radius of a cylinder which includes the piston axes, and means for resisting with a substantially constant force rocking movement of the cam produced by increase in the resultant pressure exerted on the cam by the pistons, and for rocking said cam in the reverse direction when said resultant pressure of the pistons decreases.

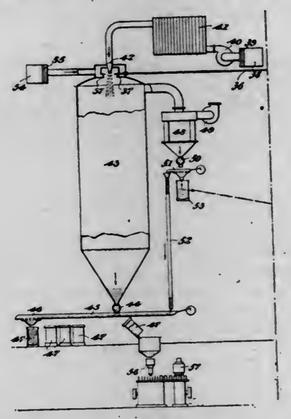
2,324,525
METHOD OF AND APPARATUS FOR HEAT TREATING METAL
Eugen Mittelmann, Chicago, Ill.
Application March 22, 1941, Serial No. 384,662
15 Claims. (Cl. 219—13)



1. The method of heat treating an object the electrical characteristics of which vary with temperature, which method comprises closely coupling an object to be heated with heating means to which high frequency energy is supplied from an electronic high frequency generator so that the impedance of the heating means varies proportionately with the variation in electrical characteristics of the object, coupling said heating means to the generator of high frequency electrical energy at substantially unity impedance ratio between the equivalent resultant impedance of the heating means with the object coupled to it and the internal impedance of the generator between the points of coupling, and varying the last coupling to maintain that impedance ratio substantially equal to unity as the electrical characteristics of the object vary with temperature.

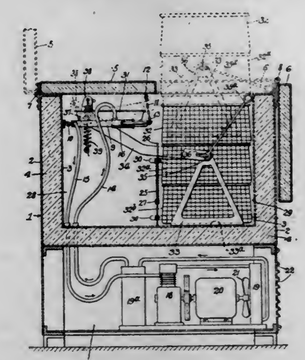
2,324,526
PROCESS FOR THE MANUFACTURE OF SOLUBLE DRY EXTRACTS
Max Rudolf Morgenthaler, Vevey, Switzerland, assignor to Inredeco, Inc., Panama City, Panama, a corporation of Panama
Application August 8, 1940, Serial No. 351,802
In Switzerland February 18, 1937
13 Claims. (Cl. 99—71)

1. A method of making a dry powdered coffee extract from ground and roasted coffee, which consists in extracting said ground and roasted coffee with hot water which is sufficiently low in dissolved carbohydrates so that said hot water makes a liquid coffee extract which is substantially the same as the liquid coffee extract which is made by treating roasting and ground coffee with pure hot water, then cooling said liquid coffee extract, while maintaining said extract in liquid form, to a temperature which is below 15° C. while preventing any substantial escape of the volatile constituents of said coffee from said liquid extract, then dissolving an edible and and liquid coffee extract, sufficient carbohydrate water-soluble flavor-retaining carbohydrate other than sucrose in said cooled and liquid coffee extract, and then spray-drying the cooled



being thus dissolved so that the percentage of carbohydrate of the final dried extract is from sixty per cent. to ninety per cent. by weight of the total weight of the dried extract.

2,324,527
REFRIGERATING APPARATUS
Willard L. Morrison, Lake Forest, Ill.
Application August 14, 1939, Serial No. 289,940
6 Claims. (Cl. 62—89)



1. A refrigerating apparatus comprising a refrigerating receptacle closed at the bottom, ends and sides, a cooling element in said refrigerating receptacle, located near the top thereof and extending part way across said receptacle, and a partition which divides the receptacle into two chambers of unequal temperatures, said partition extending from the bottom of the receptacle upwardly, with its upper edge below the cooling element, the air around the cooling element being cooled thereby and dropping by gravity into the chamber below the cooling element and causing the warmer air to rise and pass over the top of the partition into the other chamber, so that two connected chambers are provided, cooled to different temperatures by the same cooling element.

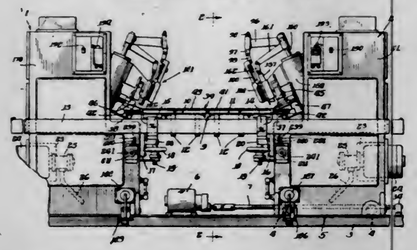
2,324,528
COPPER-ALUMINUM-MANGANESE ALLOY
Cresap M. Moss, Salt Lake City, Utah, assignor to Chicago Development Company, Chicago, Ill.
No Drawing. Application August 15, 1941, Serial No. 407,004
3 Claims. (Cl. 75—161)

1. Alloys of copper, aluminum and manganese containing from about 7 to 9% aluminum, from about 1% to 10% manganese having a purity of at least 99%, balance substantially all copper, said alloys being essentially entirely free from the oxides of aluminum and silicon and containing not more than 0.05% iron.

2,324,529
MANUFACTURE OF PAPER AND BOARD
Sidney Musher, New York, N. Y., assignor to Musher Foundation, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application June 5, 1939, Serial No. 277,453
4 Claims. (Cl. 8—115.6)

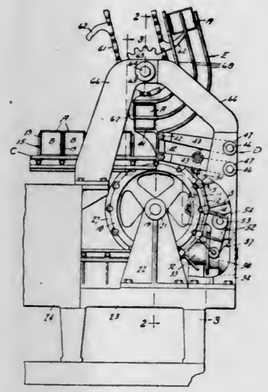
2. A process of treating a paperboard subject to oxidative deterioration to render the same resistant to oxidative deterioration which comprises passing the board through a trough containing an aqueous bath composed of a major proportion of water and a minor proportion of a starch lecithin mixture, said mixture consisting of a minor proportion of lecithin and a major proportion of starch, and then passing the board over heated rolls at an elevated temperature above 180° F. until dry, the final board containing between about 0.01% and 2% of lecithin.

2,324,530
MACHINE FOR FORMING LOOPS ON THE ENDS OF THE WIRES OF WIRE-BOUND BOXES
Walter F. Newhouse and Leslie M. Hile, Benton Harbor, Mich., assignors to Saranac Patents Holding Company, Benton Harbor, Mich., a corporation of Michigan
Application August 3, 1940, Serial No. 350,970
41 Claims. (Cl. 140—93)



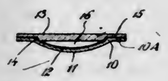
1. In a machine for forming loops on the ends of the wires of a wirebound box blank, the combination of means to trim the wire to the proper length, to bend the wire into an upstanding position, to bend the wire into hairpin loop form, for gripping said loop, for twisting the two sides of the loop together, leaving a closed loop at the outer end thereof, for releasing the gripping means, and for stripping the loop from the twisting means, leaving the loop projecting from the end of the blank and then repeating these operations on the next wire of the same blank in combination with means for supporting the blank in a stationary position during each of the said successive operations on the end portions of the binding wires.

2,324,531
CONVEYING MECHANISM
Ronald E. J. Nordquist, Maplewood, N. J., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application February 17, 1940, Serial No. 319,549
3 Claims. (Cl. 198—27)



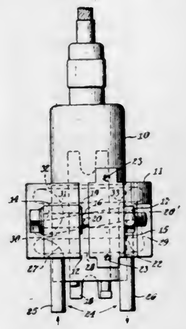
1. In a container making machine, the combination of an intermittently movable conveyor for advancing containers in spaced relation thereon in a predetermined path of travel, a continuously movable endless conveyor spaced above said first mentioned conveyor and having a plurality of can engaging and propelling elements disposed in spaced relation thereon, a vertically movable transfer device disposed between said conveyors, said device when in lowered position successively receiving the advanced containers from said intermittently movable conveyor, means for moving said conveyors in timed relation, and means for actuating said transfer device in opposite vertical directions in time with the movement of said intermittently movable conveyor and when the latter is momentarily at rest, to successively elevate the containers advanced and received thereon into the path of travel of said endless conveyor in position to be successively engaged and propelled by said elements in a different path of travel.

2,324,532
LUMINESCENT MARKER
John E. Paul, South Orange, N. J., assignor to United States Radium Corporation, New York, N. Y., a corporation of Delaware
Application October 1, 1941, Serial No. 413,106
10 Claims. (Cl. 250—71)



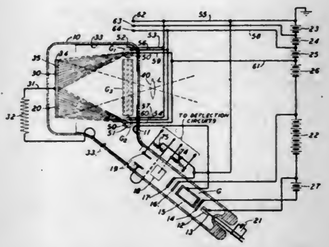
1. A luminous marker comprising substantially water-free zinc sulfide containing a radioactive material, a partially evacuated relatively thick-walled container of organic thermoplastic material that is substantially non-absorbent with respect to water, at least a portion of the container wall being transparent, and the pigment being hermetically sealed in said container.

2,324,533
COOLING MEANS
Robert W. Pearson and John Bender, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 26, 1941, Serial No. 412,467
7 Claims. (Cl. 250—27.5)



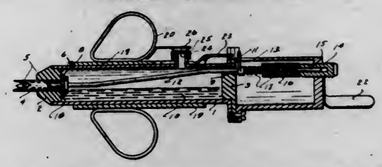
1. A cooling means for devices of the character of ignitrons and the like, comprising a split housing having a cylindrical device-engirdling interior surface for circumferential surface engagement with said device, said housing adapted to be spread and contracted, means for contracting and clamping said housing tightly in place on said device with juxtaposed surfaces intimately engaged, and a cooling-medium flow-passage coil embedded in said housing, said coil spreading and contracting with said housing.

2,324,534
TELEVISION TRANSMITTER
John R. Pierce, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 30, 1941, Serial No. 412,937
18 Claims. (Cl. 178—7.2)



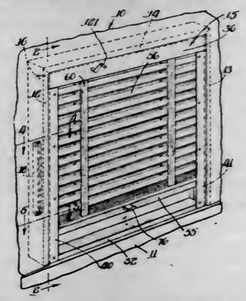
1. The method of operating a cathode ray tube of the highly evacuated type having a mosaic of light-sensitive elements electrically insulated from each other and from a supporting structure and having a collecting electrode for electrons which is common to said elements, which method comprises scanning said mosaic with a beam of high velocity electrons and spraying said mosaic with a stream of low velocity electrons, the axis of said stream being at an angle with respect to the normal to the mosaic surface which has a cosine falling within the range between 0.9 and 1.0

2,324,535
VACCINE INJECTOR
Edward Powell, Portland, Oreg.
Application January 29, 1942, Serial No. 428,660
7 Claims. (Cl. 128—215)



1. A vaccine applicator, including a vaccine reservoir, a perforating point at one end of the reservoir, a plunger operative in such point, a sealing element on the plunger to close the point against the reservoir when the plunger is in operative position, means for automatically moving the plunger to operative position, and means for manually withdrawing the plunger to inoperative position relative to the point, said manual means withdrawing the sealing element to permit free communication between the point and reservoir.

2,324,536
CLOSURE STRUCTURE
Raymond C. Pratt, Chicago, Ill., assignor to Transportation Equipment Co., Chicago, Ill., a corporation of Illinois
Application January 19, 1942, Serial No. 427,243
20 Claims. (Cl. 160—172)

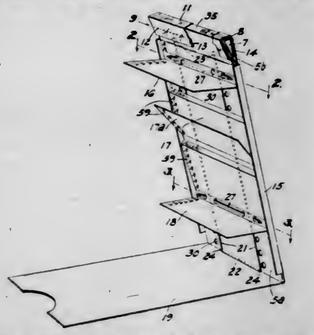


1. A closure structure comprising a closure member adapted to be drawn across an opening to be closed, said closure member being slidably shiftable in opposite directions of travel, a frame for supporting the closure member and for guiding it in its movements, and a support structure for supporting the frame, said frame and closure member being bodily shiftable as a unit with respect to said support structure from an operative to an inoperative position.

2,324,537
SELF-LABELING VISIBLE INDEX
John T. Quigley, Los Angeles, Calif.
Application February 16, 1942, Serial No. 431,097
21 Claims. (Cl. 129—16)

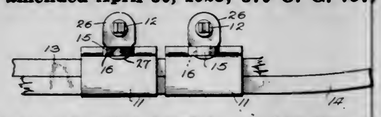
2. In a device of the kind described, an upstanding back panel, a pair of parallel spaced apart retaining strips mounted upon said panel in an overlying detached relation to the face thereof, and a plurality of separate record sheets each of which is attached to said retaining strips to slide along them to and from an adjacent relation to the upper end of said panel, the uppermost of said record sheets having a deflectable indexed upper edge portion, and means car-

ried by said panel to deflect said indexed edge



to a more nearly horizontal position when said indexed sheet arrives at its uppermost position.

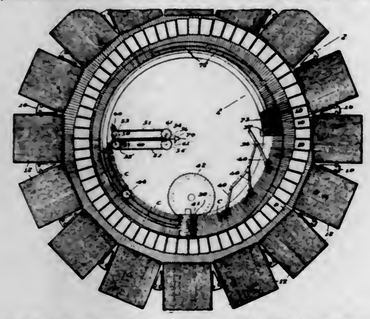
2,324,538
CONTRACTION BAND
Bestor Robinson, United States Army, Oakland, Calif.
Application July 13, 1942, Serial No. 450,782
1 Claim. (Cl. 24—19)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



In a contraction band in combination, a relatively long, narrow, and extremely thin flexible metal band having a pair of terminal fittings adapted to be drawn into engagement with each other by a clamping screw, the entire structure being characterized by the construction of the terminal fitting including a threaded nut adapted to receive the clamping screw, said nut including a pivot at a right angle to the axis of the clamping screw and normal to the plane of the flexible band; a main terminal fitting comprising an enlarged body portion mounted for pivotal movement on the pivot of the nut, and having a pair of cylindrical trunnions extending outwardly from the body at right angles to the axis of the pivot on the aforementioned nut; and a pair of ears on the thin metal band, said ears being spaced apart from each other a distance approximately equivalent to the diameter of the body of the terminal fitting, and said ears being each formed in a reverse loop around one of the trunnion members of the body, to provide long, slender trunnion bearings interconnecting the end of the flexible band with the main terminal fitting.

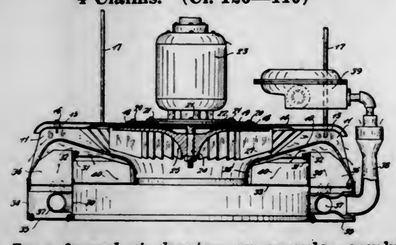
2,324,539
SLIVER FORMING MACHINE
Leslie A. Runton, Andover, Mass.
Application December 16, 1939, Serial No. 309,602
2 Claims. (Cl. 19—1)

1. In a sliver forming machine the combination comprising a stationary bed, a rotary table bearing inner and outer sets of pins, means for rotating said table, a plurality of packages carried by said table each bearing wound strands of continuous filament and from which packages the wound strands may be withdrawn, a stationary guard covering said pins for a substantial distance along and above the path thereof as the table is rotated, means borne by said rotary table for drawing the strands from said packages during determinate periods of arcuate movement of said table as it is rotated and for feeding the strands inwardly over said guard to rest thereon whereby lap lifted from out of the outer set of pins and resting upon said guard will be moved inwardly and the lap progressively deepened by strands drawn from said packages with ends forming an inward fringe forming extension to said lap, means for maintaining the strands in proper aligned position during their passage over said guard as the table is rotated, means for impaling the fringe carrying lap in the pins after the lap has left the guard in the rotation of the table, means for severing the impaled lap where-



by the fringe carrying portion of the lap, severed from the portion of the lap remaining in the outer set of pins, will lie impaled only upon the inner set of pins, drawing means whereby the fringe carrying portion of the lap remaining in the inner set of pins will be withdrawn therefrom to form a sliver with overlapping strands through draft applied to the ends of said fringe as said ends of the fringe are brought into engagement with said drawing means in the rotation of the table, and means whereby the lap left in the outer set of pins after the severance of the fringe forming portion thereof as aforesaid will be lifted to pass onto said guard during the rotation of the table.

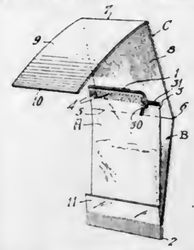
2,324,540
FORCED AIR HEATER
Eric H. Ryden, Bedford, and Frank R. Higley, Cleveland Heights, Ohio, assignors to The Bryant Heater Company, Cleveland, Ohio, a corporation of Ohio
Application September 13, 1941, Serial No. 410,746
4 Claims. (Cl. 126—110)



1. In a forced air heater, an annular combustion chamber, an annular conductor for hot gases concentric with and adjacent to said combustion chamber, a common cover for said combustion chamber and conductor leaving an upper annular passage between them, said conductor having an exit for combustion gases, means on the upper side of the cover and cooperating therewith to

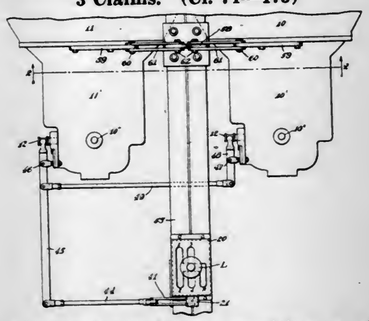
provide an air diffuser discharging peripherally, and a centrifugal blower rotor mounted concentric with said combustion chamber and conductor to receive air axially and discharge it directly into said diffuser in contact with the upper surface of said cover.

2,324,541
FOLD-CLOSED PACKAGE
Leroy L. Salfisberg, South Orange, N. J., assignor to Ivers-Lee Company, Newark, N. J., a corporation of Delaware
Application September 26, 1940, Serial No. 358,377
16 Claims. (Cl. 206—46)



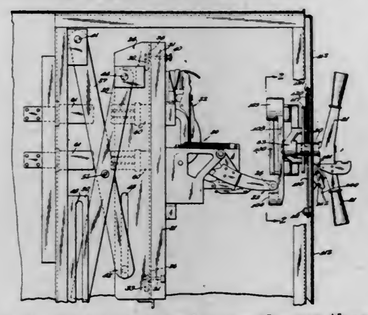
1. A package comprising a bag openable at one end and closable by a transverse fold in the bag, a cover consisting of a strip of material secured to the bag at the side of said fold opposite said open end and foldable transversely of itself to extend around the bag lengthwise of the latter, said cover having a closure flap foldable over said transverse fold of the bag and provided with a portion to separably enter said transverse fold and hold the fold between said portion of the flap and one fold of said cover as the cover is folded around the bag, and means for releasably holding said closure flap with said portion thereof in said transverse fold of the bag as described.

2,324,542
DUAL TRANSMISSION CONTROL
Pierre Schon, Indianapolis, Ind., assignor to Marmon-Herrington Company, Inc., Indianapolis, Ind., a corporation of Indiana
Application September 14, 1942, Serial No. 458,289
3 Claims. (Cl. 74—473)



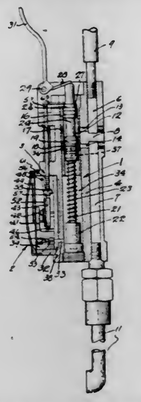
1. In a motor vehicle comprising, a chassis frame, two engines supported thereon and oscillable about parallel axes, and two speed-varying transmissions, one associated with each engine to partake of its said oscillations and each including a reciprocatory selector rod, two levers, one pivoted on each transmission and engaging the adjacent selector rod, a connection between said levers, a manually-operated master control lever, a connection between said control lever and one of said first-mentioned levers, and snubbing means connecting the two transmissions whereby lateral oscillations of one will be transmitted to the other.

2,324,543
ENCLOSED CIRCUIT BREAKER OPERATING MECHANISM
William M. Scott, Jr., Bryn Mawr, Pa., assignor to I. T. E. Circuit Breaker Company, Philadelphia, Pa., a corporation of Pennsylvania
Application February 6, 1941, Serial No. 377,605
25 Claims. (Cl. 200—168)



1. A circuit breaker and an enclosure therefor, a front panel on said enclosure, operating mechanism carried on said front panel and operable from outside said enclosure; said circuit breaker being movable between two limiting positions toward and away from said panel, said operating mechanism being in operative engagement with said circuit breaker at each of said limiting positions.

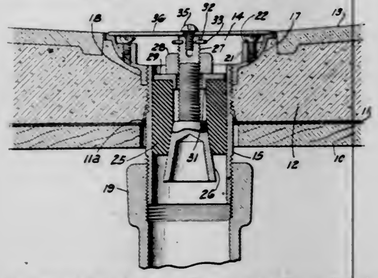
2,324,544
VALVE AND GAUGE
Frank C. Sutliffe, Mill Valley, and Roy Ashley, Almonte, Calif., assignors to Air Balance Instrument Co., San Francisco, Calif.
Application June 19, 1940, Serial No. 341,300
11 Claims. (Cl. 137—69.5)



1. In a combination valve and gauge, a movable reading indicator mechanism in the gauge, means to by-pass pressure medium from one side of said valve to said gauge, means to actuate the valve to open communication through the valve, and means connected to said reading indicator

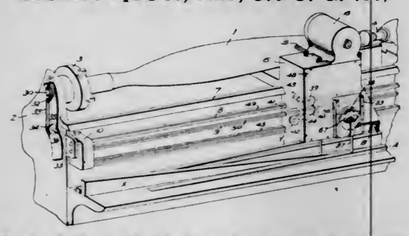
mechanism and to said valve actuating means to stop the reading indicator in its instant indicating position when the valve is actuated to open said communication.

2,324,545
PIPE PLUG
Bennett Svirsky, Los Angeles, Calif.
Application May 5, 1941, Serial No. 391,891
4 Claims. (Cl. 72—16)



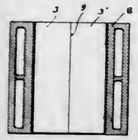
3. In combination, a floor structure having a drainage outlet construction which includes a floor drain recess and a drain pipe section leading from said recess downwardly through the floor, a diametrically expansible tubular member insertable through the open top of, and fitted within the upper part of said pipe section, a rigid frusto-conical follower plug having its smaller end portion fitted within the lower end portion of said tubular member, a screwthreaded stem projecting from said smaller end of said follower plug in a fixed axial relation thereto, a buffer washer seated upon the upper end of said tubular member, a nut abutting against the upper face of said washer and having a screwthreaded relation to said stem for applying traction thereto thereby to cause said follower plug to expand said tubular member, said stem having a screwthreaded bore in its upper end, a temporary cover plate for said recess having a central hole through it, and an attaching screw for said cover plate extending through said hole and screwed into said bore, said cover plate being imperforate except for said central bore.

2,324,546
AUTOMATIC FORM GENERATING MACHINE
Lester M. Taylor, Dayton, Ohio
Application January 31, 1941, Serial No. 376,859
3 Claims. (Cl. 90—13.7)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



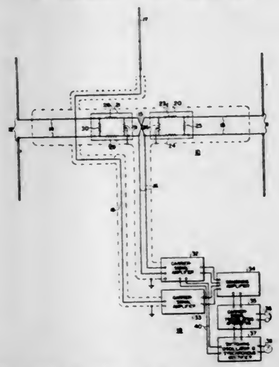
1. A device adapted to be associated with a tool and servo mechanism for operatively positioning the same to shape an object, which object in its completed form varies in width, thickness, angle of pitch which one dimension of the object makes with respect to a given plane, and angle which the length of the blade makes with respect to a given plane; comprising rotatably and slidably mounted master cam, means for controlling the rotation of said cam in accordance with changes in the said angle of pitch, means for controlling the sliding of the said cam in accordance with changes in the said angle which the length of the blade makes with respect to a given plane, a cam follower for engaging said cam for determining the width and thickness of the said object, and for modifying the effect of the said cam follower.

2,324,547
ENGINE CYLINDER LINER AND METHOD
Frederick A. Wagner, Oakland, Calif.
Application July 5, 1938, Serial No. 217,371
12 Claims. (Cl. 29—156.4)



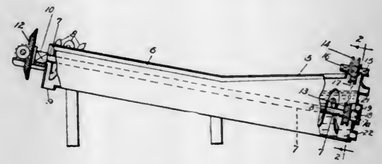
1. The method of lining an internal combustion engine cylinder having a true bore, which comprises forming sheets of thin flexible metal of uniform thickness into a plurality of duplicate longitudinal straight-edged segments of a cylinder with all longitudinal edges parallel to the axis of the cylinder and of a size to form when assembled with longitudinal edges abutting a complete cylindrical sleeve of a size to form a press fit within the engine cylinder, assembling the segments into such cylindrical form with edges abutting substantially throughout their length and unattached, and thereafter simultaneously forcing the thus assembled unattached segments longitudinally and tightly into the cylinder.

2,324,548
DIRECTIVE ANTENNA SYSTEM
Harold A. Wheeler, Great Neck, N. Y., assignor to Hazeltine Corporation, a corporation of Delaware
Application September 18, 1941, Serial No. 411,292
8 Claims. (Cl. 250—33)



1. A directive antenna system comprising, an Adcock antenna including a pair of spaced parallel dipoles and two sections of interconnecting balanced transmission line in series and cross-connected at their junction, a balanced lead-in transmission line coupled to said two sections at the junction thereof, said antenna having a natural resonant frequency in the vicinity of the band of frequencies over which the system is to be operated, and means for reducing at predetermined operating frequencies the disturbing effect on the directive characteristic of said antenna of electrical unbalances of the components thereof with relation to the point at which said lead-in transmission line is coupled thereto comprising resistive means included in each of said transmission-line sections and having at least one effectively resistive element in the series paths of said sections which interconnect said pair of dipoles.

2,324,549
CLASSIFIER
Paul L. Wigton, Denver, Colo., assignor to Morse Bros. Machinery Company, Denver, Colo., a limited partnership
Application December 24, 1940, Serial No. 371,544
5 Claims. (Cl. 209—464)

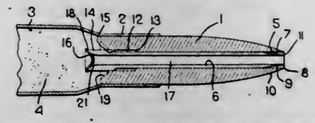


1. In classifiers of the spiral conveyor type, an inclined tank for pulp having feed and discharge means determining a liquid level at the lower end of the tank, a rotary spiral conveyor, inclusive of a shaft, extending lengthwise of the tank, a self-aligning bearing at the upper end of the tank in which the shaft is journalled, driving means on the tank for rotating said shaft, and a support for the lower end of said shaft comprising a chamber of slightly larger diameter than the shaft into which the submerged end of the shaft extends for limited lateral movement therein, a sheave on the shaft adjacent said chamber, a second sheave supported from the tank above its liquid level in alinement with said first mentioned sheave, and an endless member reeved over said sheaves to maintain the submerged end of the conveyor in a suspended position in the tank.

2,324,550
LITHOGRAPHIC PRINTING INK AND THE METHOD OF MAKING THE SAME
Herbert J. Wolfe, Maspeth, Long Island, N. Y., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application March 8, 1939, Serial No. 260,657
5 Claims. (Cl. 106—30)

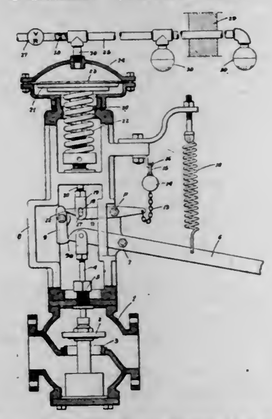
1. The process of making a quick drying printing ink designed for application to metal and similar non-absorbent surfaces at relatively high baking temperatures, which comprises mixing a rapid drying oil of high iodine value as a plasticizer with a varnish type resin, cooking the mixture at an elevated temperature to produce a homogeneous solution, cooling the solution, adding a tri-alkyl phosphate and thoroughly mixing the same to produce a carrying vehicle, and then incorporating a color pigment in said vehicle to provide an ink of the desired color, said tri-alkyl phosphate functioning as a quick drying solvent having the characteristic of extremely rapid evaporation when said ink is baked at relatively high temperatures, whereby to leave a dry, hard, tenaciously adhesive, ink film on said metal surface not susceptible to smudging on contact.

2,324,551
PROJECTILE
George Norman Albree, Winchester, Mass.
Application February 5, 1942, Serial No. 429,669
9 Claims. (Cl. 102—50)



1. A projectile for firearms comprising a body portion provided with a through axial bore, and a tubular core member mounted in said bore having a tapered forward end, said core member providing a passage through the projectile and being movable in said bore from a retracted position in which the tapered end is located within said bore to a forward operative position in which the tapered end projects beyond the body portion and forms the tip of the projectile nose, the rear end of said core being exposed to the pressure developed in the firearm when it is fired, said core being maintained by such pressure in its forward operative position during the traveling movement of the projectile through the barrel of the firearm.

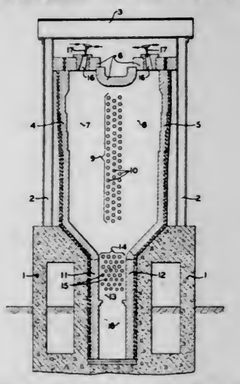
2,324,552
HEAT ACTUATED SAFETY SHUTOFF VALVE
Charles M. Bailey, San Francisco, Calif., assignor to Charles M. Bailey Co., Inc., a corporation
Application September 11, 1940, Serial No. 356,263
3 Claims. (Cl. 137—139)



1. A safety control mechanism for a self-closing valve having releasable means associated therewith to normally hold the valve open, said means including a member movable to release the same, said control mechanism comprising a pressure responsive unit adapted to be arranged in communication with a fluid pressure conduit, means connecting said pressure responsive unit with said holding means whereby the unit is operative to release said holding means upon predetermined variation in the fluid pressure in said conduit, a separate unit responsive to fire heat adjacent the valve, and separate means connecting said separate unit and the common holding

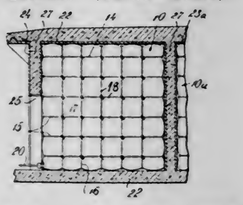
means whereby said separate unit is operative to release said holding means; the connecting means for the pressure responsive unit having limited loose-play connection with said member, and the separate connecting means for said fire-heat responsive unit comprising a normally slack flexible element of non-combustible material connected to said member whereby either unit may separately and independently move said member and release said holding means.

2,324,553
HEATING OF FLUIDS
Marion W. Barnes, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application November 8, 1940, Serial No. 364,832
4 Claims. (Cl. 122—356)



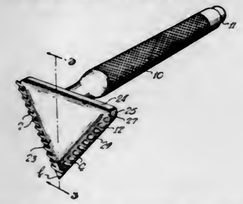
1. A heater for fluids comprising, in combination, refractory side and end walls defining a combustion and heating chamber, a fluid conduit comprising three vertically parallel, serially connected rows of horizontal tubes disposed substantially midway between said walls within said chamber, and means for directing flames and hot gases resulting from the combustion of fuel over the inner surfaces of said refractory side walls in a substantially vertical direction through said chamber, each of the tubular elements of said fluid conduit being exposed to heating by radiation from said flames and hot gases and from said refractory side walls.

2,324,554
BUILDING CONSTRUCTION
Karl P. Billner, New York, N. Y., assignor to Vacuum Concrete, Inc., a corporation of Pennsylvania
Application August 12, 1940, Serial No. 352,195
3 Claims. (Cl. 25—131.5)



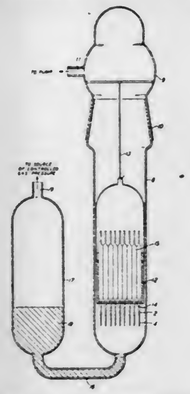
1. In the construction of concrete buildings, and the like, the method which comprises erecting inner and outer rigid supports of the desired form for receiving the concrete, inflating an expansible body within the inner form to brace said inner form, pouring concrete between the forms, and deflating and removing the expansible body after preliminary setting of the concrete.

2,324,555
SAFETY RAZOR
William E. Blunk, McGregor, Tex.
Application May 8, 1942, Serial No. 442,200
5 Claims. (Cl. 30—59)



1. A safety razor including a hollow handle having a bifurcated end and a triangular head in hinged sections, one of said sections being stationary with respect to the handle, the companion and guard section being hinged to said first section along one edge and having two castellated edges, a flat resilient element lying in the bifurcated end of said handle and having its ends bent abruptly and extended through apertures in said stationary section, means on said guard section and engaging said ends to latch said guard section to said stationary section, a spring between said sections, a plunger in said handle adapted to bear upon said resilient element to release said guard section to the influence of said spring to swing said guard section to open position.

2,324,556
MANUFACTURE OF SEALED ARTICLES
John T. L. Brown, Short Hills, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 4, 1942, Serial No. 445,757
11 Claims. (Cl. 226—20)



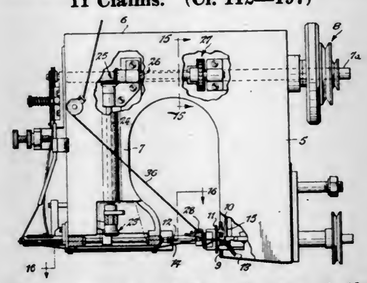
11. A device for altering the atmosphere within and sealing gas-tight vessels having sealable ports which comprises an enclosed chamber adapted to be evacuated, supporting means within said chamber for supporting at least one of said vessels and means for establishing contact within said chamber between the surface of a pool of molten sealing material and the sealable port of at least one of said vessels so supported.

2,324,557
GASEOUS ELECTRICAL DISCHARGE DEVICE
Martin Andreas Claesson, Stockholm, Sweden, assignor to Aktiebolaget Bofors, Bofors, Sweden, and Aktiebolaget Standard Radiofabrik, Stockholm, Sweden, both Swedish joint-stock companies
Application June 3, 1941, Serial No. 396,477
In Sweden July 12, 1939
5 Claims. (Cl. 250—27.5)



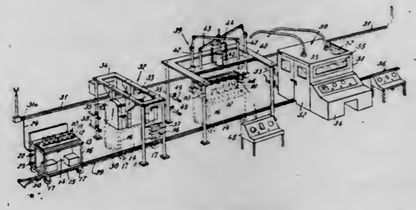
1. A method of manufacturing a gaseous electrical discharge tube comprising vacuum-tightly uniting a solid body of insulating material to a metallic rod intermediate the ends thereof, vacuum-tightly sealing one end of a tubular body of vacuum-tightly compressed metal by said body, exhausting and gas-filling said tubular body at its opposite end, and vacuum-tightly sealing said tubular body at a distance from the inner end of said rod.

2,324,558
SEWING MACHINE
Harry E. Clayton, Holland, N. Y., assignor, by mesne assignments, to Bagpak, Inc., a corporation of Delaware
Application April 16, 1941, Serial No. 388,723
11 Claims. (Cl. 112—197)



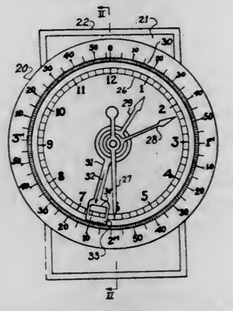
1. In a sewing machine having a threaded needle, a threaded looper, and means for moving said needle and looper to form a series of concatenated needle thread and looper thread loops defining a line of two thread chain stitches; the combination of means associated with said needle for forming a binder thread into a plurality of spaced connected loops, each of said loops being formed at the beginning of a cycle of stitch formation whereby in the completed line of stitches said binder thread loops will be disposed on the needle side of the work, said last named means comprising an auxiliary looper, loop receiving means, and means to move said loop receiving means into and out of a position wherein it is adapted to receive a loop of binder thread formed by said auxiliary looper and to support said loop in a position encompassing the path of travel of said needle until said needle has entered said binder thread loop, the movement of said loop receiving means away from said position releasing each successively formed binder thread loop for encompassing engagement with a needle thread loop.

2,324,559
MANUFACTURE OF VACUUM APPARATUS
Herbert Sherwood Cooke, Stamford, Conn., assignor to Machlett Laboratories Incorporated, Springdale, Conn., a corporation of Connecticut
Application April 5, 1943, Serial No. 481,813
9 Claims. (Cl. 250—27.5)



8. In apparatus for manufacturing vacuum tubes, a movable carriage, a vacuum pumping system on the carriage provided with a tubulation adapted to have vacuum tubes connected to it, a track along which the carriage is movable, and means for supplying current to the pumping system throughout the traverse of the track by the carriage.

2,324,560
NAVIGATIONAL TIMEPIECE AND SETTING MECHANISM
Thomas P. Conlon, New York, N. Y.
Application January 20, 1940, Serial No. 314,840
9 Claims. (Cl. 58—3)

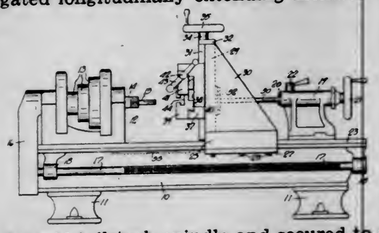


1. In a navigational timepiece, a dial, hour, minute and second hands, a correction hand, a clock train, means for moving all the hands around the dial from the clock train, graduations on the dial for the indication of time by the hour, minute and second hands, as such time is reckoned according to one system, and graduations on the dial for the indication by the correction hand of the difference between the time as indicated by the hour, minute and second hands and the corresponding time as reckoned according to another system.

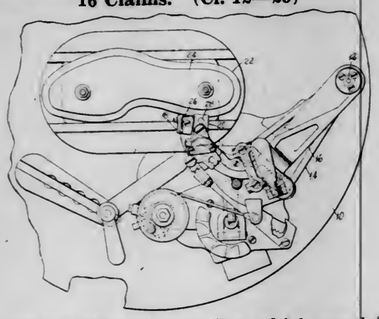
2,324,561
MILLING ATTACHMENT FOR LATHES
Maxwell L. Cripe, South Bend, Ind.
Application May 16, 1941, Serial No. 393,702
6 Claims. (Cl. 90—58)

1. The combination with a lathe having a bed and a tailstock, said tailstock including a tailstock spindle, of a work holder clamped upon said

bed and longitudinally adjustable thereon, and an elongated longitudinally extending member carried by said tailstock spindle and secured to said work holder.

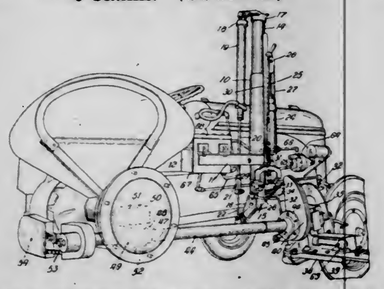


2,324,562
METHOD OF AND MEANS FOR ROUNDING WORKPIECES
Roy W. Cummings, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application January 6, 1942, Serial No. 425,760
16 Claims. (Cl. 12—25)



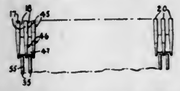
1. The method of rounding, which consists in cutting a blank of sheet-material along a line following the general contour of the finished piece to divide from the margin of the sheet a peripherally extending chip, such cut leaving a projecting margin, and cutting the blank to remove the margin, the two cuts being made during an uninterrupted rounding operation.

2,324,563
TRACTOR MOWER ASSEMBLY
John M. Custenborder, Peoria, Ill.
Application August 16, 1941, Serial No. 407,152
6 Claims. (Cl. 56—25)



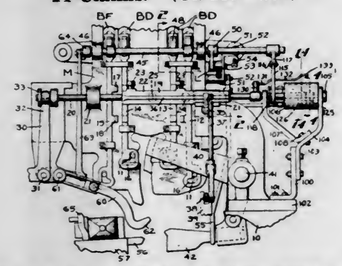
1. In a mowing machine, a sickle bar driving head, a cutter bar carrying said sickle bar mounted on said driving head, dual pivoted supporting means for said head to permit both vertical and horizontal pivoting of the driving head and bar, vertically slidable support means for said pivotal support means, said cutter bar being operable while being adjusted and in all its adjusted positions and a jointed thrust member attached to the head to resist horizontal movement of the head and bar in all positions of the bar.

2,324,564
NOSE BOARD FOR AXMINSTER LOOMS
Edward J. Dacey, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts
Application December 26, 1941, Serial No. 424,456
6 Claims. (Cl. 139—9)



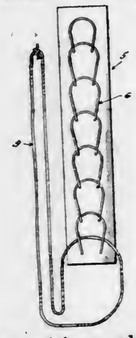
6. In an Axminster loom having a lay provided with spaced reed dents movable forwardly and operating with a set of spaced guide plates each in alignment with the reed dent corresponding thereto, means to reciprocate the guide plates toward and from the reed dents, and a cloth supporting nose board having teeth spaced by slots in which lint tends to collect during the operation of the loom, said slots being located to receive said guide plates as the latter reciprocate, said teeth being so formed that the slots between them diverge downwardly so that the lower ends of the slots offer less resistance to the removal of lint than the upper parts of the slots when the guide plates by their movement through the slots disturb the lint in said slots.

2,324,565
BOBBIN DELIVERY CONTROL FOR WEFT MAGAZINES
Manuel Daniels, New Bedford, Mass., assignor to Gosnold Mills Corporation, New Bedford, Mass., a corporation of Massachusetts
Application July 12, 1941, Serial No. 402,057
14 Claims. (Cl. 139—232)



1. In a weft replenishing loom operating with two shuttles having alternate periods of activity, one of said shuttles having weft which is depleted at a slow rate and the second shuttle having weft which is depleted at a fast rate during the weaving operation, a full supply of weft in said second shuttle being more than that needed to weave during any one period of activity of said second shuttle, a magazine having a plurality of stacks of reserve weft, certain of said stacks arranged in a group and having reserve weft corresponding to said second shuttle and the remainder of said stacks having reserve weft corresponding to said one shuttle, a stack selector movable into registry with each of said stacks, one at a time, means to cause the selector to register with said remainder of stacks when said one shuttle is active, mechanism to cause the selector to be located in selecting position with respect to the stacks of the group in a given order in a succession of replenishing operations involving reserve weft of the group, said mechanism including an actuator to have an actuating movement incident to each replenishing operation of the loom and positioning elements to be moved by the actuator, said elements arranged so that successive movements thereof by the actuator locates the selector in said order, and preventer means operative when said one shuttle is active to prevent movement of said elements by said actuator.

2,324,566
PUZZLE
Fay P. Davis, Omak, Wash.
Application August 24, 1942, Serial No. 455,928
2 Claims. (Cl. 273—159)



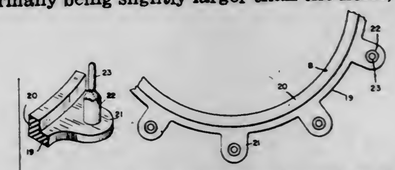
1. A puzzle comprising a plate body, a series of substantially horse-shoe shaped single-wire loops with open ends spaced along one side of said body substantially parallel to the face of said board, said loops consisting of bight portions and stem portions with hooked free ends forming securing elements supportably connected in sockets furnished in said body, and a looped cord loosely encircling the stem portions of one of the wire loops.

2,324,567
MANUFACTURE OF ARTIFICIAL FILAMENTS, THREADS, AND THE LIKE
Camille Dreyfus, New York, N. Y., and George Schneider, Montclair, N. J., assignors to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application March 20, 1941, Serial No. 384,262
4 Claims. (Cl. 18—54)

1. In a process for the production of filamentary materials by extruding a spinning solution comprising cellulose acetate dissolved in acetone through orifices of a spinning jet into an evaporative medium, the step of preventing formation of deposit in said orifices by incorporating in said spinning solution finely divided aluminum hydrate.

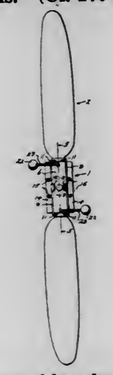
2,324,568
PAINT MASK STRUCTURE
James Edward Duggan, Detroit, Mich.
Application April 8, 1942, Serial No. 438,189
10 Claims. (Cl. 91—65)

1. A mask structure formed from resilient material and having a masking element shaped to conform to angularly disposed surfaces or portions of an article, said masking element having projections engageable with holes in said article to fasten the element thereto, said projections normally being slightly larger than the holes, and



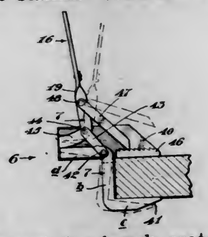
means to stretch the projections to contract them within said holes, said projections being adapted when the stretching means is released to expand within and frictionally engage the walls of said holes to maintain the parts in assembled relation.

2,324,569
PROPELLER
Walter W. Everts, Baltimore, Md., assignor to Everel Propeller Corporation, Baltimore, Md., a corporation of Maryland
Application July 3, 1940, Serial No. 343,889
6 Claims. (Cl. 170—164)



1. A propeller assembly adapted to be mounted on a drive shaft of an airplane comprising a sleeve adapted to be secured to the drive shaft, spaced arms extending radially from the sleeve, a propeller blade pivotally mounted between the said arms, a counterweight for said assembly, a section of said counterweight extending through the said arms and forming the pivot upon which the blade is mounted, said section lying in a plane perpendicular to the plane of rotation of the propeller, and the axis of said section intersecting the axis of rotation at an angle of less than 90°.

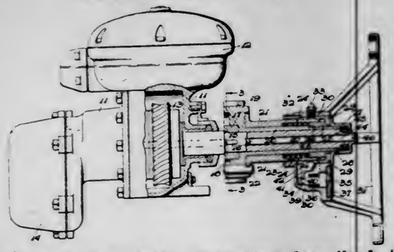
2,324,570
PORTABLE BACK FOR BENCHES
Donald P. Figgins, San Bernardino, Calif.
Application March 2, 1940, Serial No. 321,923
5 Claims. (Cl. 155—133)



1. A back-rest for bench seats comprising a

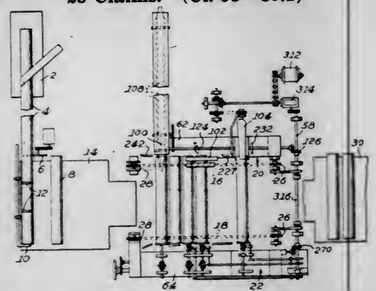
frame, a back-rest panel on said frame, and spaced pairs of vertical pivotally connected jaws pivotally carried by said frame adapted to engage a marginal portion of a seat and relative to which said frame is tiltable, stop means carried by certain of the jaws and said frame for limiting the tilting of said frame, and means for locking said jaws in clamped position.

2,324,571
VALVE OPERATING MECHANISM
Edward J. Fitz, Fairfield, Conn., assignor to Jenkins Bros., New York, N. Y., a corporation of New Jersey
Application February 17, 1942, Serial No. 431,304
8 Claims. (Cl. 74—407)



1. In a device of the character described, the combination of a drive shaft, a driving gear rotatably mounted on said shaft, means for establishing a driving connection between said shaft and said gear, manually actuatable means for rotating said gear including a hand wheel, a member rotatable with, but movable axially relatively to, said gear, means for drivingly connecting said hand wheel and member so constructed and arranged as to permit a limited rotational movement of said hand wheel relatively to said member and to simultaneously produce an axial movement of the latter relatively to said gear, and means actuated by the axial movement of said member for disestablishing the driving connection between said shaft and said gear.

2,324,572
MEANS AND METHOD FOR SECURING ENDS TO TUBES
Robert R. Frederick, Cheltenham, and Adolph W. Awot, Upper Darby, Pa., assignors to Sloane-Blabon, Trenton, N. J., a corporation of New Jersey
Application May 12, 1941, Serial No. 393,136
23 Claims. (Cl. 93—39.1)

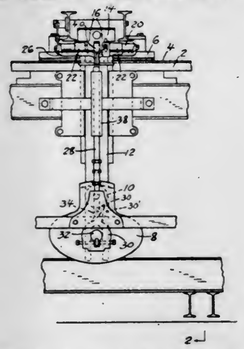


1. A machine for securing end members to tubes comprising, a carrier for receiving the tubes, intermittent drive means for advancing the carrier and tubes one step at a time through the machine, devices for applying an end member to each tube, for applying tape to each tube, and for stapling the end members to the tube, said devices being arranged in spaced relation longitudinally of said carrier, and means coordinating the operation of said devices and the operation of said carrier drive means to cause said devices to operate simultaneously on different tubes upon completion of each advancing movement of said carrier and tubes through the machine.

13. Mechanism for applying tape to tubes comprising a source of tape, means for pressing tape from said source against a tube, means for rotating said tube in one direction about its axis to cause the end of the tape to be pressed against the tube, and means to rotate the tube in the opposite direction about its axis to wrap the tape about the tube.

20. The method of applying tape to tubes which comprises the steps of passing tubes with their axes parallel past a source of tape, pressing the tape against the tubes to secure the tape thereto, severing the tape between tubes to which it is secured, and rotating the tubes between which the tape is severed in opposite directions about the axes thereof to press the severed ends of the tape against the tubes.

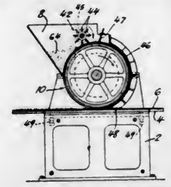
2,324,573
METHOD AND MEANS FOR PRINTING FLOOR COVERINGS
Walter B. Frederick, Oakford, and Thomas J. Kelly, Philadelphia, Pa., assignors to Sloane-Blabon, Trenton, N. J., a corporation of New Jersey
Application August 19, 1941, Serial No. 407,400
13 Claims. (Cl. 101—198)



1. The method of printing designs in paint on a web of backing material by means of a block printing machine, which comprises the steps of applying paint to one block of the machine and printing on said web with said block, thereafter applying differently colored paint to a second block of the machine, printing with paint from said second block on the area printed by the first block while the first paint is still wet, and moving the second printing block in a plane parallel to the web and while engaging the paint thereon whereby the paint from the second block is blended into the paint from the first block as it is applied to the web.

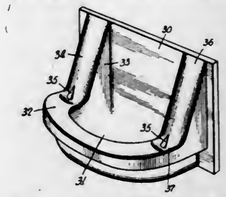
4. In a block printing machine, a printing block, means for moving a web of material step by step longitudinally of the machine beneath said printing block, means for moving said block into position to apply paint to the surface of said material while said material is at rest, and means for moving said block longitudinally of the machine while in said printing position.

2,324,574
MEANS FOR THE MANUFACTURE OF FLOOR COVERINGS OR THE LIKE
Fred W. Gans, Trenton, N. J., assignor to Sloane Blablon, Trenton, N. J., a corporation of New Jersey
Application January 29, 1941, Serial No. 376,427
8 Claims. (Cl. 154—23)



1. A machine for use in the manufacture of floor covering or the like comprising a carrier having a plurality of thin spaced partitions thereon, means for varying the depth of the spaces between said partitions, means for filling said spaces with granules of uncured linoleum, means for removing excess granules from said spaces, means for moving a sheet of backing material through said machine, means for depositing granules from said spaces on adjacent areas of the upper surface of said backing material to form a continuous layer of granules of predetermined thickness, and means for varying the space between the extremities of said partitions and said sheet to exceed the depth of said spaces whereby said partitions will leave the granules of said layer undisturbed after the granules are deposited on said sheet.

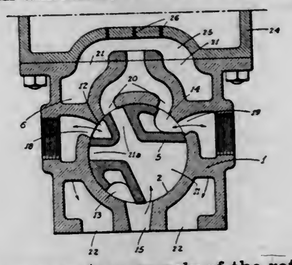
2,324,575
PASTE TUBE HOLDER AND CLOSURE
Franz M. Groedel, New York, N. Y.
Application July 11, 1941, Serial No. 401,999
5 Claims. (Cl. 45—28)



4. A combined paste tube holder and closure comprising a bathroom tile having unitary therewith an upwardly sloping protruding ledge, and an upwardly tapering stud unitary with said ledge and at right angles thereto and over which the open mouth of a paste tube may be telescoped for supporting the same in position, said tile presenting a concavity lengthwise of and serving to accommodate the curvature of the tube.

2,324,576
ROTARY VALVE
Albert G. Gurries, Gilroy, Calif.
Application October 10, 1941, Serial No. 414,472
2 Claims. (Cl. 251—155)

1. A rotary valve comprising a body having a cylindrical bore and a chamber beyond one end of the bore, a valve rotor turnable in the bore and at one end forming an end wall of the chamber, opposed passages in the body leading from the bore for connection with opposite ends of a hydraulic unit, a pressure intake passage in the body leading to the bore from one exterior face of the body and an outlet passage in the body leading from the chamber to a termination at said face in alinement with the adjacent end of

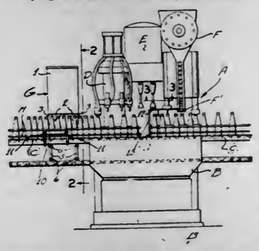


the intake passage transversely of the rotor; said rotor being passaged and ported to establish communication in predetermined order between the various body passages.

2,324,577
METHOD AND COMPOSITION FOR CORROSION PREVENTION
Harold J. Haffner, St. Louis, and George A. Siegelman, Overland, Mo., and George Hugo von Fuchs, Alton, Ill., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application December 30, 1940, Serial No. 372,430
8 Claims. (Cl. 106—14)

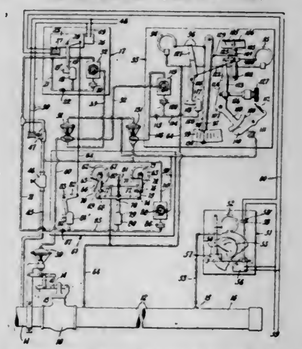
1. A composition of matter suitable for protecting metals from corrosion comprising an aqueous colloidal dispersion of a polycarboxylic acid possessing anticorrosive properties and having at least 16 carbon atoms, said polycarboxylic acid being substantially chemically stable when exposed to atmospheric conditions, the amount of said acid in said dispersion being between .0001% and .1%.

2,324,578
BOTTLING MACHINE
Francis C. Hamilton, Chattanooga, Tenn., assignor of one-half to L. Ray Schuessler, St. Louis, Mo.
Original application March 4, 1939, Serial No. 259,756. Divided and this application May 7, 1942, Serial No. 442,006
7 Claims. (Cl. 226—2)



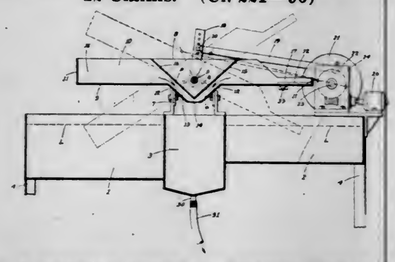
1. A bottling machine adapted to seal sippers in bottles in which fluid is bottled by the bottling machine, including means for moving bottles through the machine, and means for restraining the sippers from moving upwardly in the fluid within the bottles prior to the sealing of said bottles, said means comprising a plate in contact with the lower face of which said sippers move as the bottles in which said sippers are located travel relative to said means.

2,324,579
AUTOMATIC CONTROL APPARATUS
Eugene H. Hart, Waterbury, Conn., assignor to The Bristol Company, Waterbury, Conn., a corporation of Connecticut
Application February 28, 1941, Serial No. 380,984
18 Claims. (Cl. 50—10)



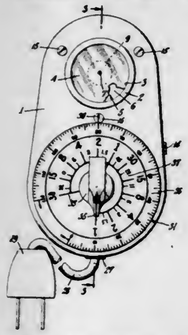
1. In a system for the distribution of a fluid at a regulated pressure: a main controller for regulating said pressure and responsive only to cyclical impulses to establish the value of said pressure, and an instrument for producing in successive uniform time cycles a series of impulses representative of values of a pressure to be regulated, electrical means for communicating said impulses to said main controller, an auxiliary controller dependent for its operation solely upon fluid pressure conditions, and means for transferring the regulating function from said main controller to said auxiliary controller upon cessation of said series of impulses.

2,324,580
LIQUID METERING AND MIXING APPARATUS
Herbert S. Hight, Linden, Calif., assignor to San Joaquin Valley Walnut Growers Association, Linden, Calif., a cooperative association
Application April 3, 1942, Serial No. 437,592
12 Claims. (Cl. 221—96)



1. A metering device for different liquids, comprising a pair of open topped supply tanks disposed in adjacent but spaced relation, an open topped receiving tank between said pair of supply tanks, means to maintain a substantially constant quantity of different liquids in said supply tanks, a rocker assembly disposed above the receiver tank and at the ends overhanging said supply tanks, said rocker assembly being formed with a dipper at each end, means mounting said assembly for rocking movement about an axis intermediate its ends for movement of the dippers through up and down cycles, each dipper at the lower end of its cycle being in the corresponding supply tank, means included in the rocker assembly to discharge the liquid contents of each dipper into the receiving tank as said dipper reaches an elevated position in its cycle, and means to rock said assembly.

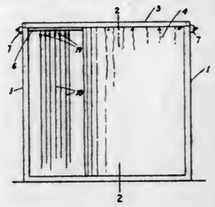
2,324,581
PHOTOMETER
Artemas Jean Haynes, Jackson Heights, N. Y.
Application June 13, 1939, Serial No. 278,805
2 Claims. (Cl. 88—23)



1. A photometer for use in making photographic enlargements from negatives which comprises a casing; a comparison field in the casing, said comparison field having a light transmitting area and a light reflecting area; a lamp mounted within the casing to cast light rays upon said light transmitting area; a shaft rotatably mounted in the casing; means connected with said shaft to vary the intensity of the light cast from said lamp upon said light transmitting area logarithmically upon equal increments of rotation of said shaft for balancing the light cast upon the transmitting area on the inside of the casing with the light reflected from the reflecting area on the outside of the casing; two scales concentric with respect to said shaft and movable relatively to each other, the first scale bearing arithmetically spaced divisions representing paper speeds, the second scale bearing logarithmically spaced divisions representing exposure time, the graduations of the scales being so arranged that the divisions of one scale read upon the divisions of the other scale, one of said scales being rotatable with said shaft, the other scale being stationary, whereby for any given negative the exposure time may be read directly from said scales for different paper speeds when said balance is made.

2,324,582
TRACING HANGER
Loiell L. Hyler, Peoria, Ill., assignor to R. G. Le Tourneau, Inc., Stockton, Calif., a corporation
Application April 21, 1942, Serial No. 439,853
2 Claims. (Cl. 24—154)

1. A sheet hanging unit adapted to be secured in plurality and in spaced relation along the upper edge of a sheet so as to suspend the latter from a horizontal wire or the like; said unit comprising a horizontally elongated eye disposed above and extending along the upper edge of the sheet with the lower run of the eye adjacent said edge, means connected between said lower run of the eye and the sheet, securing the eye to the same, a wire engaging hook upstanding from the upper run of said eye intermediate the ends of the latter, said hook being vertically elongated and the free leg thereof being extended downwardly to a point closely adjacent but short of said upper run of the eye; such extended leg being resilient in relation to the eye, and the space between the lower end of said resilient leg and said upper run of the eye being less than the diameter of the supporting wire.

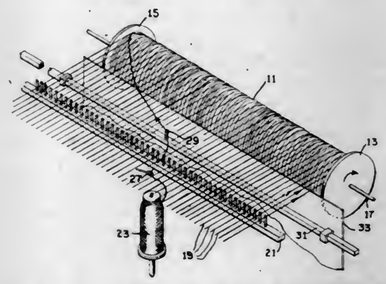


2,324,583
CORD FOR USE IN THE COVERS OF PNEUMATIC TIRES AND OTHER REINFORCED ARTICLES OF RUBBER AND SIMILAR MATERIALS
Thomas Jackson and Thomas Barnard Frearson, Spondon, near Derby, England, assignors to Celanese Corporation of America, a corporation of Delaware
Application May 21, 1941, Serial No. 394,436
In Great Britain June 10, 1940
3 Claims. (Cl. 57—140)



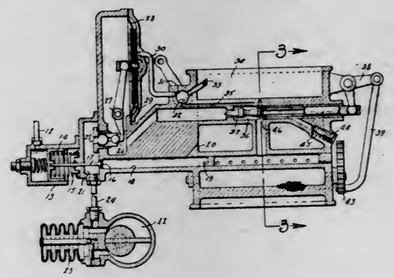
3. Cords for pneumatic tires and other reinforced articles of rubber or similar materials, said cord comprising a cabled assembly of a number of heavy singles yarns of regenerated cellulose staple fibers with 15 to 20 turns per inch of twist in one direction cabled together with 5 to 12 turns per inch of opposite twist.

2,324,584
YARN WINDING
George M. Karns, Swarthmore, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application December 30, 1941, Serial No. 424,845
11 Claims. (Cl. 28—32)



1. A beam package of yarn comprising a plurality of yarns wound in parallel, side-by-side relationship without substantial traverse, and a single yarn wound with a traverse from end to end of said package between layers of said plurality of yarns, said single yarn readily withdrawable in the subsequent unwinding of said plurality of yarns to prevent objectionable entanglements of filaments.

2,324,585
TORQUE RESPONSIVE DEVICE
Milton J. Kittler, Detroit, Mich., assignor to George M. Holley and Earl Holley
Application December 2, 1940, Serial No. 368,172
7 Claims. (Cl. 123—119)



1. In an internal combustion engine provided with torque responsive means, external carburetion means comprising a source of fuel supply under a substantially constant pressure, a fuel supply chamber connected thereto, a pressure reducing valve therefor adapted to maintain a relatively low pressure of constant value in said chamber, a fuel outlet passage from said chamber adapted to discharge into said carburetor, a second fuel passage connecting the high pressure fuel directly to the carburetor, a second fuel valve in said passage, and means responsive to said engine torque responsive means for opening said second valve when the troque exceeds a predetermined minimum value.

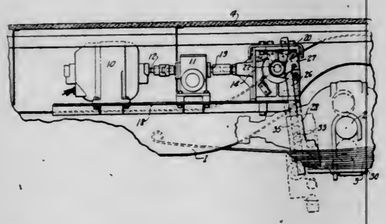
2,324,586
HARDNESS TESTER
Maximilian Klein, Sellersville, and Ernest H. Grauel, Perkasie, Pa., assignors to United States Gauge Company, Sellersville, Pa., a corporation of Pennsylvania
Application July 24, 1940, Serial No. 347,326
7 Claims. (Cl. 265—19)



1. In a measuring instrument a mechanism assembly comprising a movable plunger having

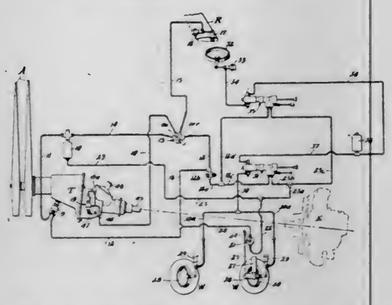
an enlarged head, an indicator and means transmitting motion of said plunger to said indicator, a plate upon which said assembly is mounted, an upstanding apertured lug on said plate, said plunger projecting through said lug, a second lug on said plate spaced from the first lug, a cantilever spring having one end mounted on said second lug and the other end extending into engagement with the head of said plunger to urge the head of said plunger against said first lug, a block attached to said plate and adjustable means threaded in said block and engaging the spring between the plunger and the second lug to vary the force exerted by said spring on the head of said plunger, and indicator dial support posts rigid with said plate.

2,324,587
LEVELING MEANS FOR VEHICLE BODIES
Peter O. Krogh, Lima, Ohio, assignor to Superior Coach Corporation, Lima, Ohio, a corporation of Ohio
Application July 31, 1941, Serial No. 404,931
24 Claims. (Cl. 280—6)



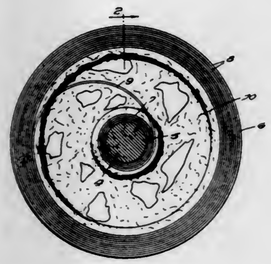
2. In a vehicle body leveling means, a jack having separate parts for connection respectively to the body and chassis axle of a vehicle and normally disengaged for free relative movements, means electrically operable to couple said jack parts together to prevent relative movements thereof, and electrically controlled means operable to actuate the jack to raise or lower the connected portions of a vehicle body relative to its chassis axle when the jack parts are coupled together.

2,324,588
ROTATIVE WINGED AIRCRAFT
Agnew E. Larsen, Jenkintown, Pa., assignor to Autogiro Company of America, Willow Grove, Pa., a corporation of Delaware
Application October 31, 1940, Serial No. 363,593
31 Claims. (Cl. 244—18)



1. For an aircraft having a variable pitch sustaining rotor and mechanism for driving the rotor including a disconnectible device, mechanism for varying the rotor blade pitch angle between a substantially zero pitch setting and a positive autorotational pitch setting, means for actuating said device to connect and disconnect the rotor drive, and a control system for said pitch varying mechanism and for said actuating means including mechanism operated by take-off of the aircraft and connected with the pitch varying mechanism to render the pitch varying mechanism incapable of changing the blade pitch angle from said autorotational pitch setting to said substantially zero pitch setting when the aircraft takes off, and said mechanism operated by take-off further being connected with the means for actuating the device for connecting and disconnecting the rotor drive to render said actuating means incapable of connecting the rotor drive mechanism when the aircraft takes off.

2,324,589
ELECTROCONDUCTIVE WHEEL
Robert W. Lytle, Cincinnati, Ohio, assignor to The Formica Insulation Company, a corporation of Ohio
Application July 10, 1942, Serial No. 450,385
2 Claims. (Cl. 301—63)

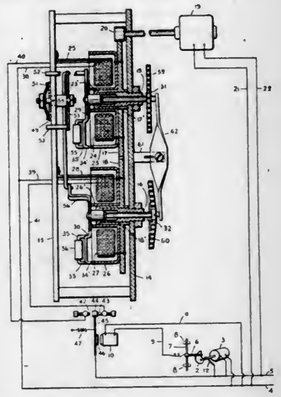


1. A molded electroconductive wheel comprising: rim portion and hub portion closely wound laminations of fabric coated with a powdered electrical conducting material and impregnated with a thermosetting binder; a fabric strip similarly treated and extending spirally from the hub laminations to the rim laminations; and a web portion of macerated fabric impregnated with said thermosetting binder and packed about said spiral strip, the assembly having been consolidated under heat and pressure and the binder transformed into a hard infusible and substantially insoluble condition.

2,324,590
ELECTROMAGNETIC CLUTCH APPARATUS
Irving O. Miner, East Providence, R. I., assignor to Builders Iron Foundry, Providence, R. I., a corporation of Rhode Island
Application April 10, 1940, Serial No. 328,834
5 Claims. (Cl. 192—84)

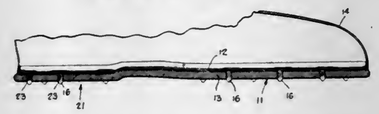
1. An armature for an alternating current electromagnet, said armature comprising a member having at one end a central projection, a pair of other projections at opposite sides of said central projection, said projections providing separate paths for magnetic flux, each of said projections having a lip at its free end, said central projection being offset with relation to said side

projections and carrying a shading coil, and inserts of non-magnetic metal positioned between



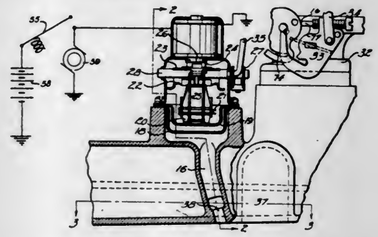
the lips of said projections for tying the same together.

2,324,591
SHOE
Charles E. Olson, Bridgeport, Conn.
Application February 21, 1942, Serial No. 431,797
17 Claims. (Cl. 36—59)



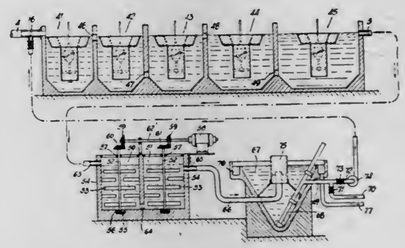
1. A rubber boot or shoe having a flexible laminated sole; a plurality of flexible plate-like members, each having a perimeter including reentrant angles, located between the laminations of the sole in predetermined relation in the tread area of the sole and held in place by the bonding of the laminations together in face-to-face contact in said reentrant angles; a screw-threaded nipple carried by each of said flexible members, said nipple extending through an aperture in the laminations; and a screw-threaded stud removably secured in each nipple to project from the sole and form a traction surface.

2,324,592
HEAT CONTROL
Elmer Olson, Detroit, Mich., assignor to George M. Holley and Earl Holley
Application October 23, 1941, Serial No. 416,207
7 Claims. (Cl. 123—122)



1. A heating device for a thermostat adapted to control the mixture ratio and the idling speed of an automobile engine during the warm-up period, comprising an exhaust passage, a heating cup adapted to be directly heated by said exhaust, a second heating cup arranged inside of said first heating cup and separated therefrom by an air jacket, the second heating cup being adapted to enclose and support the said thermostat.

2,324,593
METHOD FOR THE PURIFICATION OF SEWAGE
Alef Ruben Persson, Hedemora, and Johan Olof Nauclér, Stocksund, Sweden
Application January 30, 1939, Serial No. 253,648
In Sweden January 29, 1938
2 Claims. (Cl. 210—8)
(Granted under the provisions of sec. 14, act of March 2, 1927; 357 O. G. 5)



1. A method of purifying impure waters, including sewage, according to the activated sludge method, consisting in aerating the mixed liquor of sewage and activated sludge with a gas containing free oxygen, subjecting said mixed liquor after aeration to slow agitation so as to expedite controlled aggregating of the particles suspended in the water, and subjecting the mixed liquor so agitated to settling to separate purified water from sludge.

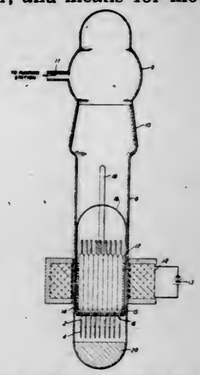
2,324,594
SOLVENT EXTRACTION PROCESS
Herbert S. Polin, New York, N. Y.
No Drawing. Application May 10, 1941, Serial No. 392,935
2 Claims. (Cl. 99—70)

1. Process for extracting caffein and the oily constituents from raw coffee material which comprises, extracting said material with a solvent mixture comprising a relatively small proportion of chloroform for dissolving the caffein, and a relatively large proportion of hydrocarbon solvent by which the greater part of said oily constituents are dissolved.

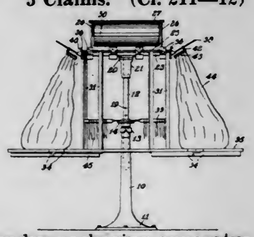
2,324,595
MANUFACTURE OF SEALED APPARATUS
Charles E. Pollard, Jr., Hohokus, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 4, 1942, Serial No. 445,758
10 Claims. (Cl. 226—20)

10. A device for altering the atmosphere within and sealing gas-tight vessels having sealable ports, which comprises an enclosed chamber adapted to be evacuated, vertically movable means within said chamber for supporting at least one of said vessels, a pool of solidifiable

liquid sealing material in the lower portion of said chamber, and means for moving said supporting means vertically within said enclosed chamber.

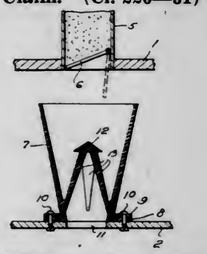


2,324,596
REVOLVING LAUNDRY ASSEMBLY UNIT
Mark Quain, Bronx, N. Y.
Application April 21, 1942, Serial No. 439,949
5 Claims. (Cl. 211—12)



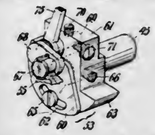
4. A laundry packaging apparatus comprising a stationary standard, an upright shaft adjustable therein, said shaft having a plurality of transverse holes, a radial bearing on the upper end of said shaft, a combined radial and thrust bearing spaced on the shaft therebelow, its under side having a transverse groove, a pin engageable selectively in the holes of said shaft on which the groove of the last named bearing rests, a radial armed spider carried by each bearing, a circular frame supported by said spiders, means removably connected with the upper part of said frame to supportingly engage the tops of laundry bags, and a circuitous platform carried by the lower part of said frame to receive the bottoms of the bags.

2,324,597
COFFEE CAN FILLING MACHINE FUNNEL
Vincent J. Ruggiero, North Bergen, N. J.
Application December 18, 1941, Serial No. 423,530
1 Claim. (Cl. 226—31)



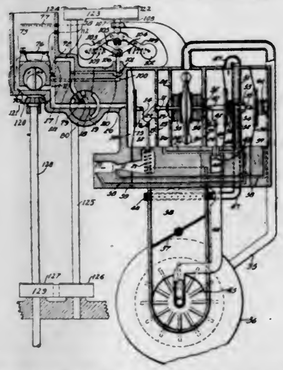
A coffee can filling machine funnel comprising a substantially tapered, resilient body of polygonal horizontal section having an outlet in its lower portion, an integral external flange on the lower end of the body, a ring on said flange, means extending through the ring and flange for securing the body on a support, upwardly converging legs in the body, said legs being integral with said body and extending upwardly from points adjacent the outlet thereof, and a substantiallly conical spreader integral with the upper ends of said legs.

2,324,598
SEWING MACHINE
George Sauer, Berwyn, Ill., assignor to Union Special Machine Company, Chicago, Ill., a corporation of Illinois
Application August 22, 1940, Serial No. 353,647
3 Claims. (Cl. 112—221)



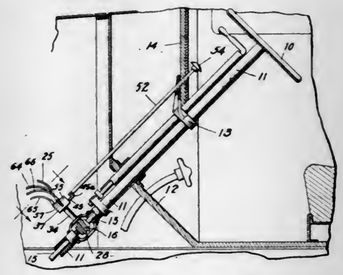
1. In a sewing machine, a feeding element; a drive shaft; means deriving motion from the shaft for actuating the feeding element; a needle; mechanism for actuating the needle including a two-part crank member whereof one component is rigid with and forms one end terminus of the shaft and has a flat surface of relatively large area transverse to the shaft, and whereof the other component is counterweighted and rotatively adjustable on the shaft, carries the crank center and has a flat transverse surface of relatively large area in frictional contact with the flat surface of the rigid component; and clamp means for releasably securing said adjustable component to said rigid component, and a pitman connecting the crank member with the needle.

2,324,599
PRESSURE CARBURETOR
Carl F. Schorn, Detroit, Mich., assignor to George M. Holley and Earl Holley
Application January 12, 1942, Serial No. 426,419
4 Claims. (Cl. 123—119)



1. A pressure carburetor for an internal combustion engine, said carburetor having an air entrance, a throttle valve therein, a source of fuel under pressure, an entrance for said fuel, an engine-driven pump which generates pressure in proportion to the square of the revolutions per minute of the engine, a moving wall responsive on one side to said variable pressure, means for admitting fuel to the other side of the moving wall, means for controlling the fuel pressure to balance the pressure generated by the pump, a fuel chamber associated with said moving wall in which the fuel pressure is maintained at the pressure of said pump, a valve controlling the outlet from said chamber, an air outlet from said carburetor, and means responsive to the pressure in said outlet for opening said valve in proportion to an increase in the pressure in said outlet.

2,324,600
ELECTRIC LIGHTING MEANS AND CONTROL THEREFOR
Joseph Earl Scott, Pratt, Kans.
Application December 21, 1940, Serial No. 371,217
2 Claims. (Cl. 200—59)

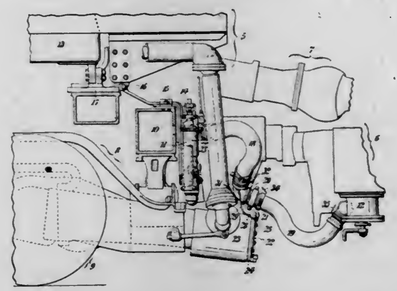


1. In an electric switch device for the control of three electric circuits; said switch device having a switch arm carried on a shaft and being swingable in opposite directions thereby, three contact elements, said contact elements being arranged in a segment of a circle, the second of said contact elements being stationarily positioned, the first and third contact elements being carried, each on a swingable element that is revolvable about an axis that is the center axis of said shaft so that the first and third contact elements may be moved in an arc toward or away from the second contact element, and operating means connected to the first and third contact carrying elements for the simultaneous movement of said elements to equally space the first and third contact elements at varied distances from the second contact element, said operating means being movable from remote distances, said switch arm being adapted to engage the said contact elements separately during the swinging movement of the arm, and electrical contact means for each electrical contact element and said switch arm for the delivery of electric current as described.

2,324,601
SIZING
Edgar W. Spanagel, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 21, 1940, Serial No. 357,757
24 Claims. (Cl. 260—32)

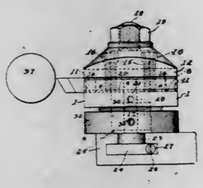
2. A yarn sizing composition comprising an aqueous solution of a hydroxylated polyvinyl resin and 5%–25% boric acid based on the weight of the resin, said resin being sufficiently water-sensitive to be readily removable from a yarn with hot water.

2,324,602
LOCOMOTIVE HOSE CONNECTION
George D. Sprankle, Lower Merion Township, Montgomery County, Pa., assignor to The Pennsylvania Railroad Company, Philadelphia, Pa., a corporation of Pennsylvania
Application March 27, 1942, Serial No. 436,449
3 Claims. (Cl. 105—47)



1. In a locomotive including a trailer truck the combination with the boiler injector and the tender feed water tank valve of two lengths of hose in tandem therebetween, an elbow coupling the adjoining ends of said hose lengths with the forward and rear ends respectively attached to the injector and the tank valve, and a bracket projection from the elbow for attachment to a rigid part of the locomotive trailer truck.

2,324,603
COMBINATION TOOLHOLDER FOR LATHES
Samuel Strobl, Chicago, Ill.
Application November 18, 1940, Serial No. 366,081
3 Claims. (Cl. 29—48)

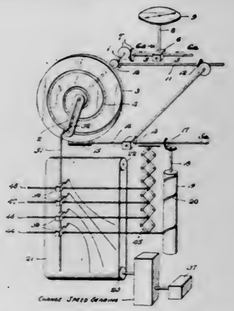


1. In a combination tool holder for lathes, a standard, a head carried thereby, a bed adapted for rotation about said standard releasably secured to said head, said bed and head being movable manually as an unit, said bed being formed with recesses extending completely thereacross to receive tools, index fingers arranged in said standard for yielding locking engagement with said bed, and means for locking said bed to a lathe.

2,324,604
METHOD AND MEANS FOR DETERMINING ALTITUDE
Antonin Svoboda, Forest Hills, N. Y., assignor to Abax Corporation, New York, N. Y., a corporation of New York
Application May 1, 1941, Serial No. 391,248
In France May 3, 1940
5 Claims. (Cl. 33—18)

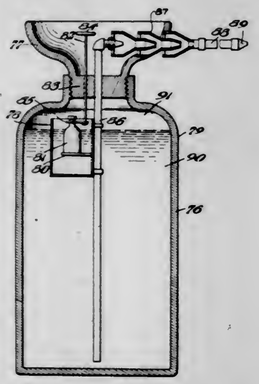
1. The method of determining the altitude of an airplane from the angular elevation and angular bearing of sound received from the airplane

at a single station, which consists in plotting from the acoustical elevation and bearing of the airplane a family of curves representing as a function of time one and the same rectangular coordinate of a horizontal projection of the airplane for different assumed values attributed to the altitude, and selecting the one of these curves which



most closely approximates a straight line to ascertain which of the assumed values is the closest to the real altitude.

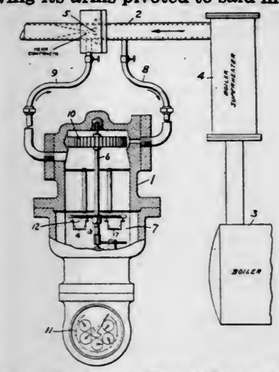
2,324,605
APPARATUS FOR MAKING CELLULAR MASSES
Radcliffe Morris Urquhart, Montgomeryville, Pa.
Original application May 26, 1937, Serial No. 144,885. Divided and this application June 21, 1940, Serial No. 341,938
1 Claim. (Cl. 261—76)



Apparatus for making a cellular mass, which comprises a container adapted to hold a liquid; chemical reagents in said container, adapted to coact to generate a gas for urging said liquid toward a point of discharge; an aspirator through which said liquid passes in a manner to aspirate air from the atmosphere into said liquid; and means for bringing said chemical reagents into coacting relation to each other to generate gas.

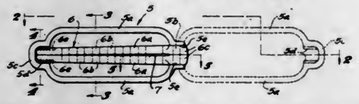
2,324,606
FLOWMETER
Walter C. Wagner, Ardmore, Pa.
Application November 23, 1940, Serial No. 366,808
3 Claims. (Cl. 73—230)

1. In a fluid meter, a rotor equipped with a radial member, a generally U-shaped paddle element having its arms pivoted to said member and



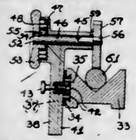
having a marginal web disposed crosswise of the paddle element.

2,324,607
CURLING DEVICE
Frank C. Wallace, Los Angeles, Calif., assignor to Monogram Manufacturing Co., Los Angeles, Calif., a corporation of California
Application November 25, 1941, Serial No. 420,380
1 Claim. (Cl. 132—41)



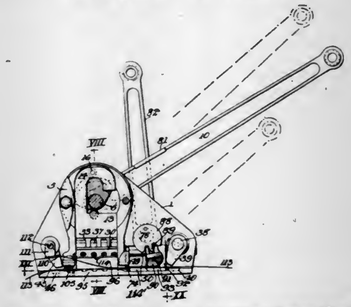
A hair curler comprising a frame consisting of side members and transverse end members, a curl winding mandrel comprised of two parallel segments pivotally mounted at their inner ends on one of the end members and means associated with the other end member for resiliently clamping the outer ends of the segments together, the inner opposed faces of the segments being cut away from a point adjacent their inner ends to provide therebetween a narrow enough to permit said opposed faces to receive and hold against longitudinal escape a strand of hair therebetween, but wide enough to prevent said hair strand from being crushed therebetween when the outer ends of the segments are clamped together.

2,324,608
CLAMPING FIXTURE FOR MACHINE TOOLS
Clyde E. Walling, Cleveland, Ohio
Application July 23, 1941, Serial No. 403,742
2 Claims. (Cl. 51—220)



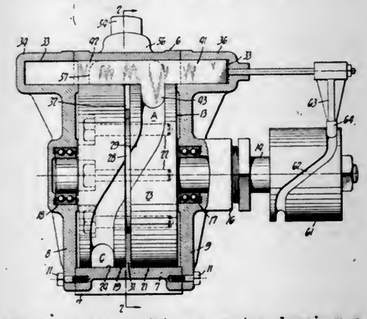
1. A clamping fixture for machine tools comprising a V-shaped base member, a slide member horizontally slidably connected to one side of said base member, a bracket vertically adjustably mounted in said slide member, a rotatable clamping cam of spiral peripheral surface mounted on said bracket and arranged above the apex of the V of said V-shaped base member, and a spring means for automatically rotating said clamping cam into clamping position.

2,324,609
BAND TIGHTENING AND SEALING TOOL
Burton L. Watt, Marquette, Mich., and Charles F. Osgood, Jr., Hohokus, N. J., assignors to General Strapping Corporation, New York, N. Y., a corporation of New York
Application August 10, 1939, Serial No. 289,352
11 Claims. (Cl. 81—9.1)



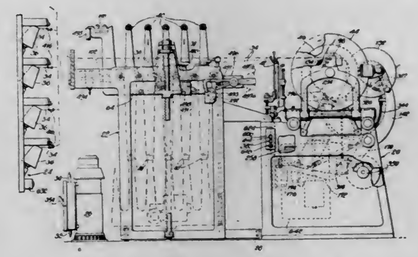
1. A device of the character described comprising, means for holding portions of a strap in overlapping position, means for sealing said overlapped portions to each other and for severing the excess portion of the strap, said severing means including cooperating movable and stationary elements, the stationary element being rotatably mounted at an angle to the line of movement of the movable element, and means to adjust said stationary element in a rotary direction for bringing the elements into and maintaining them in precise cooperative relationship.

2,324,610
PUMP
Benjamin F. Williams, Douglas, Ariz.
Application December 5, 1941, Serial No. 421,789
6 Claims. (Cl. 103—123)



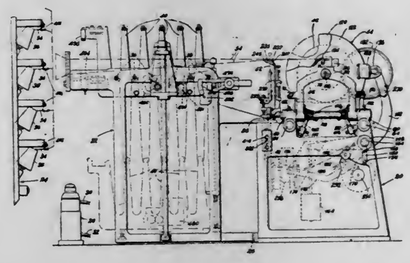
1. A pump comprising a rotor having a continuous irregular groove therein, said groove having a pair of uniformly separated side walls, a stator forming a closure for said groove, a baffle on said stator interrupting both of the side walls of said groove and forming a complete dividing wall across said groove at spaced points along said groove, an abutment member adapted to occupy part of said groove for substantially the full depth and width of said groove and to pierce said baffle, a fluid inlet to said groove adjacent one side of said abutment member, a fluid outlet from said groove adjacent the other side of said abutment member, said inlet and outlet being adapted to communicate with the groove on opposite sides of the baffle during rotation of the rotor, and means for rotating said rotor.

2,324,611
ELECTRICAL CONTROL SYSTEM FOR WARPING OR BEAMING PLANTS
Fritz Lambach, Fairview, N. J.
Application November 21, 1941, Serial No. 419,832
30 Claims. (Cl. 28—51)



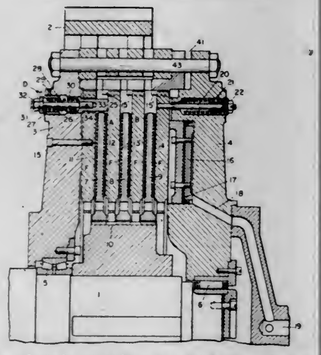
1. An electrical control system for a warping or beaming plant, comprising a source of current, an electromotor for driving a beam, a motor circuit for connecting said source of current with said electromotor, and automatic electrical controlling means electrically connected with the circuits of said system for varying the electrical conditions thereof for a variation of the operating speed of the electromotor, said automatic electrical controlling means being responsive to the building up of the winding on the beam so as to provide for a substantially constant travelling speed of the warp yarns.

2,324,612
WARPING OR BEAMING MACHINE
Fritz Lambach, Fairview, N. J.
Application November 21, 1941, Serial No. 419,835
24 Claims. (Cl. 28—32)



1. A warping or beaming machine for winding a warp on a beam having a flange on each of its ends and having a center hole in each of its flanges, comprising a drive, a driving head arranged for driving engagement with one of the center holes of the beam, said driving head being connected with said drive, an idling head arranged for engagement with the other center hole of the beam, and a bracket, said idling head being journalled in said bracket, said bracket being movable from an operative position with the idling head engaged with the center hole of the beam into an inoperative position with the idling head disengaged from said center hole, and said movable bracket permitting free access to the flange of the beam when it is in the inoperative position.

2,324,613
CLUTCH
William W. Criley, Shaker Heights, Ohio, assignor to The Ajax Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application April 24, 1941, Serial No. 390,093
11 Claims. (Cl. 192—69)



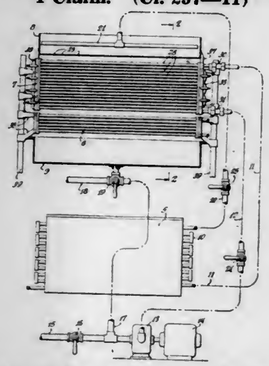
1. In a clutch, driving and driven plates axially movable into and out of engagement with each other, one of said plates being located intermediate of the others, means for moving said plates into engagement, yieldable means contacting said one of said plates for urging it out of engagement with the others, means for limiting the movement of said yieldable means, said limiting means being directly connected to said yieldable means and projecting to the exterior of said clutch, and means for indicating the amount of movement of said yieldable means, said indicating means being visible on the exterior of said clutch, said indicating means being an integral part with said limiting means.

2,324,614
SIGNAL
Thomas L. Dalton, Kansas City, Mo.
Application September 9, 1940, Serial No. 356,008
6 Claims. (Cl. 116—28)



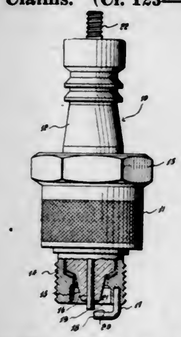
1. In an apparatus of the character described, a support, a warning signal mounted on the support, said warning signal including a telescopic pole, flexible means having sufficient rigidity to act as a column in compression attached to the outermost section of the pole and extending through said pole for raising and lowering said pole, and means on the support cooperative with the lower end of the pole for hinging said pole to operative and inoperative condition respectively.

2,324,615
PASTEURIZING APPARATUS
Edward C. Damrow, Fond du Lac, Wis., assignor to Damrow Brothers Company, Fond du Lac, Wis., a corporation of Wisconsin
Application August 18, 1941, Serial No. 407,335
1 Claim. (Cl. 257—11)



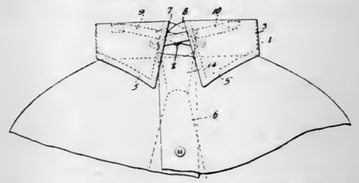
In a pasteurizing apparatus of the character described, the combination with means for heating the liquid to tbe treated to a pasteurizing temperature, of a distributor trough for the heated liquid, a regenerator for the liquid to be pasteurized having a coil disposed below said trough in the path of heated liquid therefrom, a cooling coil below the coil of said regenerator over which the heated liquid flows, means including a pump for forcing milk through the coil of said regenerator, piping connecting the inlet of said pump with a source of milk supply, a collecting trough below said cooling coil to receive the pasteurized liquid, a discharge pipe leading from said collecting trough, a pipe connecting said trough with the inlet of said pump, and a valve to control flow of the cooled liquid either to said discharge pipe or said last named pipe.

2,324,616
SPARK PLUG
Joseph A. D'Elia, Fairfield, Conn.
Application November 13, 1941, Serial No. 418,872
3 Claims. (Cl. 123—169)



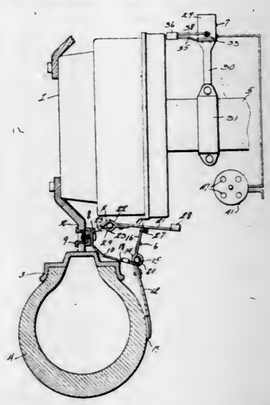
1. A spark plug having a pair of wire-like electrodes exposed at its inner end, said electrodes being flat across their said inner ends, said electrodes arranged with a flat end face of one parallel with a side of the other but spaced therefrom whereby the adjacent portions of the electrodes forming a spark-gap comprise a pair of the sharp corner or edge portions of the free ends of the electrodes.

2,324,617
COLLAR SUPPORT
Wilfrid H. Des Jardins, Fullerton, Calif.
Application December 21, 1942, Serial No. 469,650
5 Claims. (Cl. 2—141)



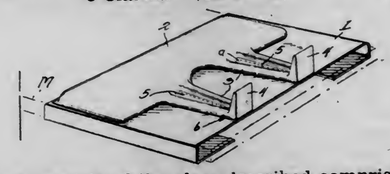
1. In a soft collar having a neckband and a turned-down collar portion, the neckband being separated and adapted to be secured together at its separated ends by a fastening member, of a pair of strip-supporting members secured in position at the juncture of the neckband and collar portion, releasable fastening members secured to the turned-down collar portions and to the free ends of the supporting members, and the ends of said supporting members being crossed in position over the neck band fastening member and releasably secured to the opposite collar portion whereby a sling is formed for supporting a cravat knot.

2,324,618
REDUCED TIRE PRESSURE INDICATOR
Otto E. Dietrich, Morton, Ill.
Application July 23, 1940, Serial No. 347,016
3 Claims. (Cl. 200—58)



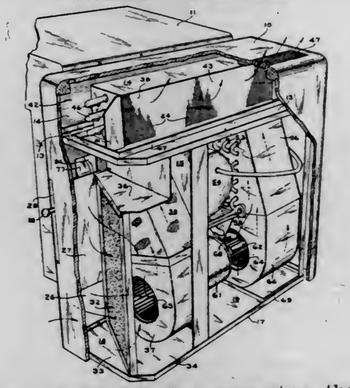
1. An actuator for a tire pressure signal control switch having a shiftable element, comprising a pair of spring actuated arms, a bracket common to said arms and securing the same to the inner side of a vehicle wheel, one of said arms being constantly in contact with the inner side of the tire and the other arm extending inwardly from the wheel, the said spring actuating means for the said other one of the arms normally urging the oscillation of the arm toward the axial center of the wheel, and a latch finger coupled with the first one of the arms and engaging the said other one of the arms to hold the same against movement, the said other one of the arms when released by the latch means moving radially inwardly for intermittent engagement with the switch shiftable element during rotation of the wheel to actuate said switch.

2,324,619
BED COMFORTER
Maude Dunn, Birmingham, Ala.
Application January 17, 1942, Serial No. 427,167
3 Claims. (Cl. 5—91)



1. An article of the class described comprising a main sheet, a substantially rectangular inflatable body imposed thereon, means for securing from end to end the rear marginal portion of the body to the sheet along a marginal portion thereof, said body being otherwise free of connection with the sheet, said inflatable body being provided at the front marginal portion with spaced extensions to provide leg supports, and means for inflating the body, the leg extensions being provided therealong with depressions to receive the legs of a person.

2,324,620
AIR CONDITIONING APPARATUS
Arthur H. Eberhart, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 2, 1940, Serial No. 321,875
10 Claims. (Cl. 62—129)

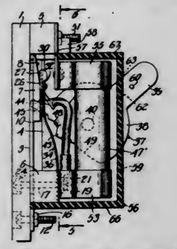


1. In air conditioning apparatus, the combination of a cabinet, an evaporative cooling unit and a condenser therein, a duct having a portion extending exteriorly of said cabinet, said duct circulating air from exterior of said cabinet over said condenser, other devices associated with said air conditioning apparatus, said other devices comprising a compressor for withdrawing vaporized refrigerant from said evaporative cooling unit and passing said vapor to the condenser, and a motor for driving said compressor, some of said devices being located in the portion of the duct extending exteriorly of said cabinet.

2,324,621
ELECTRIC SWITCH
Stephen S. Grady, Magnolia, N. C.
Application June 30, 1942, Serial No. 449,044
5 Claims. (Cl. 200—114)

1. In an electric switch, an incoming conduc-

tor, an outgoing conductor, a fixed contact connected to the incoming conductor, a movable contact normally urged into engagement with said fixed contact, a fuse disposed adjacent to said fixed contact, one end of said fuse connected to the outgoing conductor, an auxiliary con-



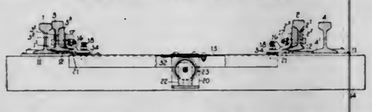
ductor extending from said movable contact to the other end of said fuse whereby said fixed contact, auxiliary conductor and fuse assume a compact fan-folded relationship to one another, and an interposer slidably mounted on said fixed contact and operable to space said movable contact from said fixed contact into circuit interrupting position.

2,324,622

TRACK SWITCH FOR RAILROADS

Ralph W. Hewes, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.

Application January 29, 1942, Serial No. 428,733
1 Claim. (Cl. 246—449)



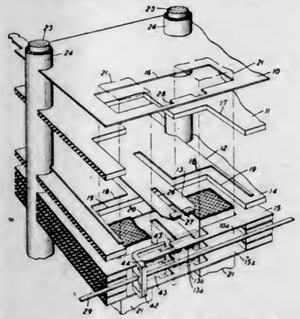
A roller bearing support for railway switch points comprising, in combination with railway ties, a track switch including two double-rail tracks converging into a single double-rail track by two switch points one constituting a part of one converging double-rail track and the other constituting a part of the other converging double-rail track which converging double-rail tracks converge into a departing double-rail track and all supported on said ties, said switch points lying between the two rails of said departing double-rail track and engaging the rails of said departing double-rail track one at a time; and switch point supporting means comprising a tie-bar of inverted U-shaped cross-sectional configuration securing said switch points rigidly to each other in relatively fixed spaced relation, said supporting means including means for adjustably securing said tie-bar to said switch points, a rigid bracket supported by two adjacent ties at a point substantially midway between the rails of said departing double-rail track, a roller, means rigidly fixed to said bracket for pivotally supporting said roller on said bracket and between said adjacent ties with its axis substantially at right angles to said tie-bar and with its rolling surface living within and engaging the bottom of the U of said tie-bar for supporting said tie-bar for rolling endwise movement at a fixed distance above the bottom of said ties and in turn supporting said switch points for sidewise movement, whereby said switch points are adjustably supported substantially wholly by said roller and whereby said inverted U-shaped tie-bar also constitutes a shelter for said roller.

2,324,623

SWITCHING DEVICE

Clarence N. Hickman, Jackson Heights, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application December 30, 1941, Serial No. 424,865
5 Claims. (Cl. 179—27.54)



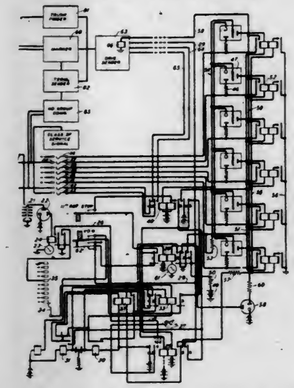
1. In a coordinate switch, a series of horizontal magnetic contact plates, a layer of magnetic contact springs between each pair of adjacent plates, energizing coils each surrounding a group of separate springs comprising one spring from each layer, a control finger interposed between each spring and the plate below it; means for shifting the group of fingers associated with each layer of springs to remove said fingers from between the associated springs and the plate below, said parts being so arranged that the energization of a coil and shifting of a group of fingers causes the spring surrounded by said coil and whose associated finger has been shifted to be magnetically attracted to the adjacent plate above it to establish an electrical connection between said plate and spring.

2,324,624

COMMUNICATION SYSTEM

William H. T. Holden, Woodside, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application October 15, 1941, Serial No. 414,992
5 Claims. (Cl. 179—18)



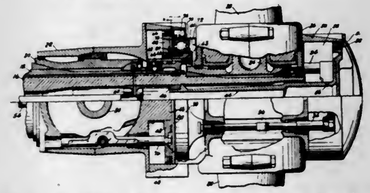
1. In a communication system, a plurality of subscriber's lines, each said line having a relay connected thereto responsive to switchhook and dial operation on said line, a line finder, a source of alternating current, a signaling conductor individual to each said line, said relay operating to connect said source of alternating current to said individual signaling conductor, a first branch of said signaling conductor connected to means for starting said line finder, a second branch of said signaling conductor connected to a bank terminal of said line finder, an impulse receiving circuit connected to a brushing of said line finder, means responsive to alternating current connected to said brush of said line finder for stopping said line finder with said brush on said terminal and means in said impulse receiving circuit responsive to alternating current impulses created by the response of said line relay to dial operation on said line.

2,324,625

TRANSFER BEARING

Walter S. Hoover, Montreal, Quebec, Canada

Original application June 13, 1939, Serial No. 278,859. Divided and this application December 10, 1940, Serial No. 369,459
6 Claims. (Cl. 308—187)



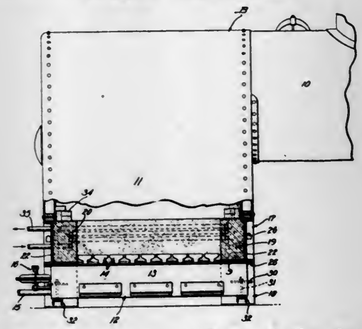
1. In combination with a bearing having an inner race and an outer race, means for rotating said races in opposite directions, means for supplying lubricant under pressure to said bearing, means rotating with one of said races and forming a chamber for collecting the lubricant that has passed through said bearing and has been thrown radially outward by centrifugal force, means rotating with the other race inside of said collecting means and radially outside of said bearing and directing said lubricant under the action of centrifugal force to said collecting means, a pump rotating with said one race for returning said lubricant to said supply, said pump having an intake port opening into, and adjacent the largest radius of, said chamber, and means associated with the other race for operating said pump.

2,324,626

BOILER MOUNTING

Robert C. Hopkins, Long Beach, Calif.

Application February 5, 1940, Serial No. 317,230
1 Claim. (Cl. 110—88)



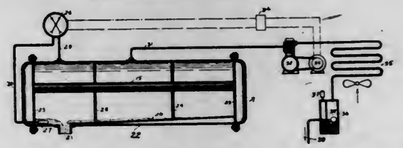
A portable mounting for a boiler having a fire box open at its lower end, the mounting comprising spaced side I-beam members, spaced end I-beam members extending between and rigidly joined with the side beam members to form a rigid tubular body conforming generally to the lower end of the fire box, the upper flanges of the I-beam members forming a support for the fire box and the interior of the body communicating with and forming a downward continuation of the interior of the fire box, a refractory lining on the interior of the body between the upper and lower flanges of the beam members, and legs secured to and extending downwardly from certain of said lower flanges to support the body.

2,324,627

REFRIGERATION

Walter Jones, Princeton, N. J., assignor to Carrier Corporation, Syracuse, N. Y., a corporation of Delaware

Application August 1, 1940, Serial No. 349,155
14 Claims. (Cl. 62—2)



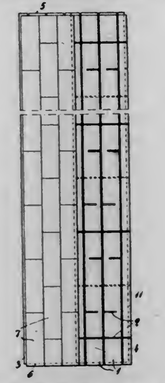
6. In a system of the character described a condenser, a thermal bulb within the condenser, means operative in response to the change in temperature of said thermal bulb for indicating a pressure corresponding to the condensing temperature of a refrigerant in the condenser, means for measuring the total pressure in the condenser, and means for evacuating non-condensible gases from the condenser when the difference in said pressures exceeds a predetermined number of pressure units.

2,324,628

COMPOSITE BOARD STRUCTURE

Gustaf Kähr, Stockholm, Sweden

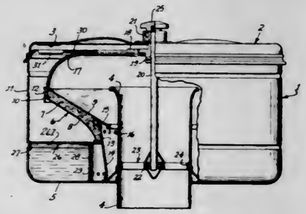
Application August 20, 1941, Serial No. 407,677
In Sweden February 7, 1941
1 Claim. (Cl. 20—91)



A board particularly for flooring, composed of a plurality of wood layers glued together comprising at least three different layers, the uppermost of these layers being a parquet veneer layer formed of parquet veneer rods, the second

layer being an intermediate filling layer consisting of lengths extending in the longitudinal direction of the board and at least partially cut through in the transversal direction at several places, the third layer being a binding layer arranged between the parquet veneer layer and the intermediate layer and consisting of veneer the run of grain of which extends in the transversal direction of the board.

2,324,629
ROTARY AIR CLEANER
Robert A. Kelsey and Harry Wright, San Diego, Calif., assignors, by mesne assignments, to Airmax Corporation, San Diego, Calif., a corporation of Nevada
Application July 5, 1940, Serial No. 344,090
9 Claims. (Cl. 183—9)

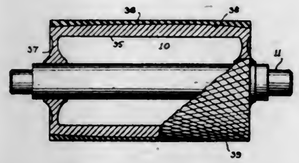


1. A gas cleaner comprising a stationary casing having a central gas conduit extending downwardly through the bottom wall thereof and defining therewith an annular chamber for containing a pool of liquid, a rotor in the form of an inverted cup having its edge dipping into said liquid and dividing the space in said casing above the liquid into inner and outer compartments, respectively, the inner compartment being in open communication with said gas conduit, means supporting said rotor for free rotation and means for rotating it, means defining passages in said rotor for the flow of gas therethrough, the portion of said rotor below said passages converging inwardly and downwardly into said liquid, whereby rotation of the rotor forces liquid upwardly therealong to said passages by centrifugal force, and means communicating with said outer compartment to complete a path for gas flow through said cleaner.

2,324,630
PATENTING STEEL
Elmer E. Legge, West Hartford, Conn.
No Drawing. Application May 4, 1942, Serial No. 441,678
3 Claims. (Cl. 148—21)

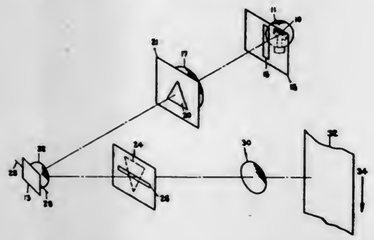
1. In the art of patenting steel by continuously moving it successively through an austenitizing heating zone and a liquid patenting quench maintained at a temperature within the range causing rapid transformation of austenite to pearlite, the improvement comprising continuously moving the austenitized steel leaving said zone and prior to its entering said quench, through a liquid prequench having a temperature and length reducing the temperature of the steel at least approximately to that of the patenting quench in a time period too short to permit more than minor amounts of the steel's austenite to transform, whereby the steel enters the patenting quench at a temperature not substantially higher than that of this quench and avoids the formation therein of a higher temperature zone.

2,324,631
PRINTING MACHINE PRESSURE CYLINDER
John Harold May, Cranston, R. I., assignor to Cranston Print Works Company, Cranston, R. I., a corporation of Rhode Island
Application May 13, 1941, Serial No. 393,211
1 Claim. (Cl. 101—407)



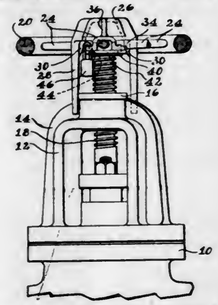
A backing cylinder associated with the printing roll in a textile printing machine comprising a rigid support provided with a convex crowned surface and an elastic deformable layer secured thereto which has a substantially cylindrical peripheral surface, said layer comprising a vulcanized rubber compound containing separate, short, reinforcing fibres incorporated therein, said rubber compound having a plastometer reading of from 5 to 10 and an elasticity which permits its surface to deform into a narrow concave band of contact between a fabric being printed and the printing roll under a normal pressure load, and the fibres forming a rough anti-slipping surface and reinforcing the rubber and limiting its flow while permitting deformation thereof.

2,324,632
REDUCTION OF STRAY LIGHT
John A. Maurer, Jr., New York, N. Y., assignor, by mesne assignments, to J. A. Maurer, Inc., a corporation of New York
Application August 2, 1940, Serial No. 349,514
4 Claims. (Cl. 88—24)



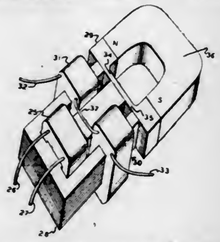
1. In an optical system for the photographic recording of the vibrations of a mirror, which optical system includes an elongated light source whose greatest dimension extends horizontally, a first screen with an opening, said opening being illuminated by said light source, and means forming an image of said opening, said image being movable by said vibrations of said mirror, the combination of a second screen having an aperture which is a rectangle with one of its sides extending vertically, said second screen being placed between said light source and said first screen; and a condensing lens having one surface spherical and one surface cylindrical with its cylinder axis vertical and simultaneously imaging substantially on said mirror said light source by its action in the vertical plane and said aperture by its action in the horizontal plane.

2,324,633
LOCKING DEVICE
Harry McCarthy and Jesse R. Brasel, Kewanee, Ill., assignors to Walworth Patents Inc., Boston, Mass., a corporation of Massachusetts
Application April 30, 1942, Serial No. 441,124
2 Claims. (Cl. 70—180)



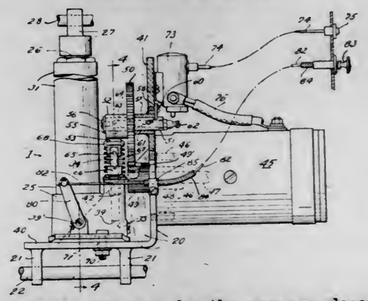
1. A locking device for use on mechanisms operated by a handwheel having spaced arms adjacent a relatively stationary portion of the mechanism, said device comprising a hub portion engageable with one side of the arms, a leg portion projecting from said hub between adjacent arms and engageable with the stationary portion to restrain movement of the handwheel, a locking flange carried by said hub and engageable with at least one other of the arms on the side engageable by said hub, and means pivoted on said flange for insertion between arms adjacent said flange and being adapted for movement laterally thereof into operative engagement with said one other arm on another side thereof, said flange and pivoted means having openings adapted to register upon said operative engagement to receive locking means preventing unauthorized withdrawal of the device from the handwheel.

2,324,634
ELECTROMAGNETIC INDUCTANCE APPARATUS
Harold J. McCreary, Lombard, Ill.
Application December 31, 1940, Serial No. 372,484
12 Claims. (Cl. 172—281)



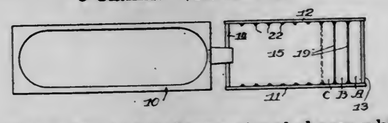
11. In an inductive device for converting an alternating current of one frequency into an alternating current of a higher frequency, a magnetic circuit comprising a core of soft iron having a center leg and a pair of outer legs, a coil encircling the center leg, said coil included in a circuit containing alternating current of said one frequency, the alternating current in said coil causing an alternating magnetic flux to flow in said magnetic circuit, a portion of each outer leg of said core having a restricted cross sectional area, a permanent magnet having its poles adjacent said core on opposite sides of one such area to thereby cause magnetic saturation thereof, a second permanent magnet similarly mounted to cause magnetic saturation of the other area, other coils encircling portions of said core, said other cores included in an output circuit, said saturated areas controlling the alternating magnetic flux in said core in such a manner as to cause an alternating current of the higher frequency to flow in said output circuit.

2,324,635
IMPLEMENT HANDLING MECHANISM
Edward B. Meyer, Cleveland, Ohio
Original application May 19, 1939, Serial No. 274,630. Divided and this application May 5, 1941, Serial No. 391,834
5 Claims. (Cl. 60—52)



3. A power lift unit for the purpose described, said unit comprising a frame having means enabling it to be pivotally connected to a supporting structure, a self-contained hydraulic jack unit mounted on the frame and having a pump, a reservoir, a working cylinder and power plunger therein, said power plunger having means thereon for enabling the same to be pivotally connected to a work member to be raised relative to the supporting structure, an electric motor rigidly mounted on the frame and operatively connected to the pump, means for adjustably securing the jack unit to the frame so as to adjustably position the pump with respect to the motor, means adapted and arranged to energize the motor from a point remotely of the unit for raising the power plunger, a release valve for the working cylinder operable to block and unblock passage of hydraulic fluid from the cylinder to the reservoir, and means connected with the valve and extending remotely of the unit for enabling operation of the valve to permit the power plunger to be lowered by the weight of the work member.

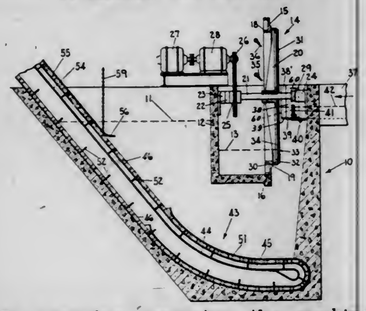
2,324,636
METHOD AND APPARATUS FOR CHEESE MAKING
Raymond Miollis, Elmwood Park, Ill.
Application October 7, 1941, Serial No. 413,969
5 Claims. (Cl. 31—47)



1. The method of making natural cheese which includes treating a relatively large batch of milk or the like to form curds and whey, supporting said batch in a non-porous vat while said batch is in a fluid state, inserting upright partitions in said vat while said curds are distributed sub-

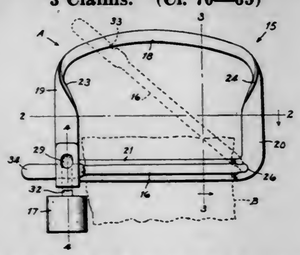
stantially equally throughout the area of said batch, said partitions being so located that a plurality of compartments will be formed, each containing a predetermined fraction of the curds in the original whole batch, and successively releasing curds and whey from each of said compartments so as to empty individually the several compartments formed by said upright partition members.

2,324,637
LIQUID SCREENING APPARATUS
William C. Moor, Fort Worth, Tex., assignor to The Jeffrey Manufacturing Company, a corporation of Ohio
Application October 4, 1939, Serial No. 297,905
13 Claims. (Cl. 210—196)



1. In screening apparatus, the combination with a sedimentation tank, of a sluice for directing influent into the upper portion of said tank, an effluent sluice in the upper portion of said tank having a closed end therein and being in position to be partially immersed in the liquid therein and having an opening through which liquid from said influent sluice flows thereto, a rotary screen positioned across said opening in said effluent sluice located adjacent said influent sluice and, mechanism supporting said rotary screen with its lower portion immersed in the liquid from said influent sluice flows thereto, non-immersed portion adjacent the outlet from said influent sluice, and means for rotating said screen while permitting the liquid and finer solids to pass through the same from said influent sluice into said effluent sluice, the screen being constructed and arranged to act as a baffle to deflect the larger solids into said sedimentation tank.

2,324,638
KIT BAG HANDLE AND LOCK
Joseph J. O'Connor, Toronto, Ontario, Canada
Application August 3, 1942, Serial No. 453,459
3 Claims. (Cl. 70—65)

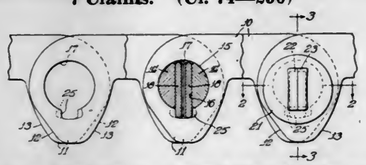


1. In a bag handle and lock of the character described, a frame member including a handle member provided with depending leg members, a transverse bar member fixedly connecting the depending leg members, a U-shaped receiving socket formed at one end of a depending leg member provided with shackle receiving openings, a locking bar pivotally mounted on the frame member having its free end movably engageable with the receiving socket, a recess formed in the locking bar designed to register with the shackle receiving openings in the socket when the locking bar is in a bag holding position and to be engaged by a shackle and a longitudinal opening formed between the transverse bar member and the locking bar when the locking bar is in a locking position for retaining a kit bag and the like in locked engagement between the said bar members.

2,324,639
METHOD OF UTILIZING GRAPES AND PRODUCT PRODUCED THEREBY
Antonio Perelli-Minetti, Delano, Calif.
No Drawing. Application June 2, 1941, Serial No. 396,283
6 Claims. (Cl. 99—105)

1. A palatable, unfermented food stuff comprising: grape syrup substantially free from added lime and containing naturally occurring mineral salts and organic acids, said syrup also containing dairy cream homogeneously dispersed therein in quantities sufficient to mask the acid content of the syrup and permit its use as a food stuff without causing puckering.

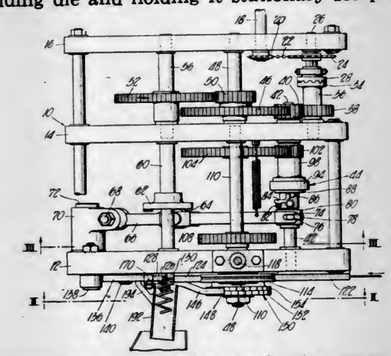
2,324,640
CHAIN
David B. Perry, Ithaca, N. Y., assignor to Morse Chain Company, Ithaca, N. Y., a corporation of New York
Application January 19, 1942, Serial No. 427,273
7 Claims. (Cl. 74—256)



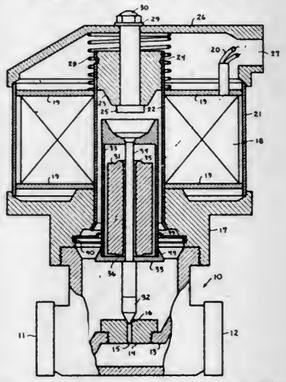
1. In a drive chain, a plurality of links having pintle apertures, a pintle comprising a pair of complementary sections having opposed arcuate bearing surfaces in engagement with opposite sides of said apertures, and spring means interposed between said sections and urging them apart, said spring means being of full elliptic form, with the central regions thereof bowed outwardly into engagement with the central regions of the pintle sections and the end portions of said spring means out of bearing engagement with said pintle sections, whereby straightening of the spring means under chain tension will develop a rolling and non-sliding engagement between the spring means and the pintle sections.

2,324,641
SPRING COILING MACHINE
Carl H. Peterson, Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
Application November 5, 1942, Serial No. 464,631
9 Claims. (Cl. 153—65)

1. A machine for making noncircular springs comprising a fixed arbor, a skew member adjacent thereto, means for feeding spring wire stock into coaction with the arbor and skew member, a bending die mounted in juxtaposition to said arbor and skew member for movement relative thereto, and means for sequentially moving said bending die and holding it stationary for predetermined intervals while said feeding means are advancing the wire stock into coaction with the arbor, skew member and bending die, whereby a noncircular spring is coiled about the arbor in such manner that each convolution includes a plurality of bent cold-worked portions connected by straight unworked portions.

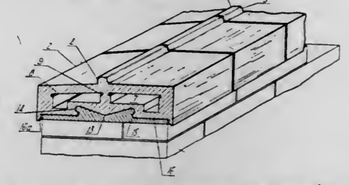


2,324,642
ELECTROMAGNETIC VALVE OPERATOR
Clarence L. Peterson, Berkeley, Calif., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application May 3, 1940, Serial No. 333,148
1 Claim. (Cl. 175—341)



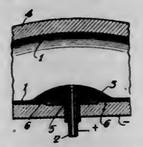
An electromagnetic actuating mechanism comprising a coil having a central cylindrical opening therein, said opening being closed at one end and open at its other end, means including a cylindrical wall defining the coil opening for sealing said coil against the access of fluid thereto, a rod disposed centrally of said cylindrical coil opening for axial movement therein and having one end projecting through the open end of the cylindrical coil opening for actuation of a controlled device, a cylindrical armature of magnetic material comprising the sole means for shifting said rod in one direction upon energization of the coil and being operative to impart a driving movement to the rod on deenergization of the coil, and a closed cylindrical casing of smaller diameter than the coil opening and composed entirely of non-magnetic material housing the cylindrical armature and sealing the same against the access of fluid thereto, said casing surrounding the rod and being fixed at its opposite ends thereto for axial movement with the rod in the coil opening in spaced relation to the coil opening wall, the armature having a small central bore slidably receiving the rod and centering the armature for free movement axially of the casing and the rod, the armature being sufficiently smaller in diameter than the casing as to be movably guided by the rod in spaced relation to the surrounding wall of the casing, the opposite ends of the armature casing being spaced apart a distance greater than the length of the armature to provide for limited axial movement of the armature in the casing between such ends, but said casing being so located on the rod that the armature is at all times located at least partially within the coil and capable of actuation upon energization of the coil from its outermost position relative to the coil to move axially into engagement with one end of the armature casing and thereafter shift the rod and casing axially, and protuberant elements of small area located on the opposite ends of the armature and surrounding the rod for preventing sticking contact of the armature ends with the ends of the armature casing.

2,324,643
COPING TILE
John H. Phillips, Pittsburgh, Pa.
Application November 15, 1940, Serial No. 365,728
5 Claims. (Cl. 72—86)



1. A building block having its mortar-engaging face recessed to form a dovetail the full length of the block, and the bottom wall of the dovetail portion having a projection extending therefrom in the shape of a V and acting as a wedge to displace the mortar into the mortar gripping grooves.

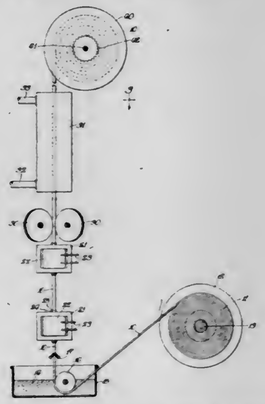
2,324,644
VULCANIZING RUBBER ARTICLES
Ernest Frederick Powell, Sutton Coldfield, and Douglas Bulgin and Philip Walter Badham, Erdington, Birmingham, England, assignors to Dunlop Tire and Rubber Corporation, Buffalo, N. Y., a corporation of New York
Application January 22, 1942, Serial No. 427,738
In Great Britain November 11, 1940
7 Claims. (Cl. 18—38)



1. The method of vulcanizing rubber which comprises applying external heat to electrically conductive unvulcanized rubber to be vulcanized and passing an electric current through said electrically conductive rubber.

7. The method of vulcanizing in a mold a pneumatic tire tube of non-conductive rubber having a valve base flange of conductive rubber which comprises partially insulating said valve base flange from said mold, applying external heat to said mold and to said electrically conductive unvulcanized rubber base tire flange and passing an electric current through said electrically conductive rubber.

2,324,645
APPARATUS FOR IMPREGNATING AND FORMING FABRIC TUBING
William C. Prehler, Cleveland, Ohio
Application March 14, 1940, Serial No. 323,962
3 Claims. (Cl. 91—53)



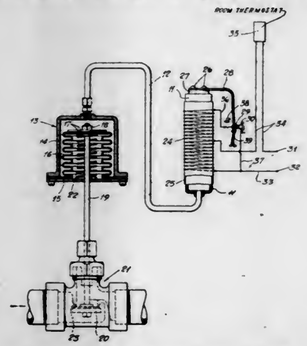
1. A device for shaping and sizing a fabric tubing impregnated and coated with a liquid insulating material comprising an electromagnet, a non-magnetic cylinder extending through said magnet of a size to permit said tubing, in its finished shape, to be passed therethrough, a ball-like member of magnetic material within said cylinder and said tubing, said electromagnet being of a strength sufficient to hold said ball-like member against displacement when said tubing is moved and said ball-like member being of size and shape to give said tubing, when pulled over said ball, the required size and shape, and means for moving said tubing over said member.

2,324,646
LYMPHOGRANULOMA VENEREUM ANTIGEN AND METHOD OF PREPARING IT
Geoffrey W. Rake, Kingston, and Morris F. Shaffer and Clara M. McKee, New Brunswick, N. J., assignors to E. R. Squibb & Sons, New York, N. Y., a corporation of New York
No Drawing. Application March 8, 1941, Serial No. 382,334
18 Claims. (Cl. 167—78)

1. A lymphogranuloma venereum antigen essentially comprising a non-infectious preparation of fowl-embryo material of the group consisting of yolk, yolk-sacs, and combined yolk and yolk-sacs, which has been diseased with lymphogranuloma venereum.

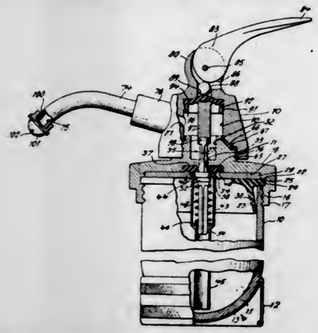
2,324,647
THERMAL OPERATOR
William A. Ray, Glendale, Calif.
Application May 3, 1941, Serial No. 391,757
5 Claims. (Cl. 60—25)

1. In a heat motor: a first vessel having a movable wall, a second vessel in communication with said first vessel and forming therewith a closed system, a volatile fluid in said system, said second vessel being of elongated form and constructed of metal having good heat conductivity, an electrical heating coil surrounding one portion of said second vessel, a bimetallic member mounted on another portion of said second vessel and in good heat-conducting relation thereto, said bimetallic member being spaced closely ad-



jacent a portion of said heating coil so that it is affected to a minor degree also by heat radiated therefrom, and switching means actuated by said bimetallic member for controlling the energization of said heating coil, the effect of said radiated heat upon said bimetallic member being to cause deenergization of the heating coil by said switching means when the temperature of the second vessel is below that which it subsequently reaches due to the thermal lag of the heating coil.

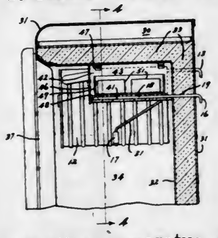
2,324,648
CREAM WHIPPING APPARATUS
Paul F. Roeder, Brooklyn, N. Y.
Application June 4, 1940, Serial No. 338,779
4 Claims. (Cl. 221—74)



1. In a pressure vessel comprising a container, an apertured closure cap therefor, a head removably carried by the closure cap, a tube leading from the closure cap into the container, and a dispensing spout leading from the head, the combination of a valve structure comprising a shank positioned within the aperture in the closure cap and having a cross-sectional area shaped to fit the aperture, the shank having a plurality of recesses of varying lengths above the closure cap, and a valve member lying below such closure cap, whereby progressive downward movement of the

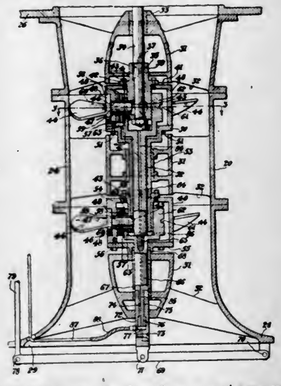
shank provides a progressively increased valve opening, means for urging the valve member upwardly into closed position, manual means for depressing the valve member comprising a lever provided with a cam surface at the upper end of the head, such cam surface lying adjacent to the upper terminal of the shank, and a resilient disc positioned between such upper terminal and the cam surface.

2,324,649
REFRIGERATING APPARATUS
Nelson J. Smith, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application January 24, 1941, Serial No. 375,825
10 Claims. (Cl. 62—89)



1. A refrigerating apparatus comprising in combination, a cabinet having a food storage chamber therein, a closed refrigerating system associated with said cabinet and containing a volatile refrigerant, said closed system including a refrigerant compressing and liquefying unit operatively connected with an evaporator disposed in said cabinet and adapted to cool air within said chamber, means within said chamber and forming a support for a receptacle therein, an element adapted to apply heat to said receptacle support, and said refrigerating system being arranged to utilize the sensible heat of liquid refrigerant flowing from said unit toward said evaporator for applying heat to said heating element.

2,324,650
CONTROLLING DEVICE FOR PUMPS
Alexey J. Stepanoff, Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y., a corporation of New Jersey
Application April 15, 1941, Serial No. 388,583
2 Claims. (Cl. 103—93)



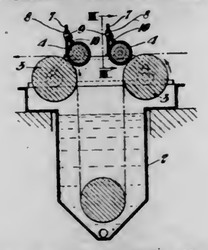
1. A controlling device for a rotary pump, comprising a casing having inlet and outlet openings, a rotary shaft in the casing, a hollow extension on the shaft to form a continuation of the shaft, a plurality of hubs spaced along the length of the hollow extension each having a group of vanes connected rotatably thereto, means for securing one hub to the shaft, bearings within the casing for the shaft and the hollow extension, means reciprocable in the hollow extension and the hubs for rotating the vanes to vary their impelling effect, means extending through the free end of the extension for actuating the second mentioned means, and a bearing in the casing to guide the last mentioned means.

2,324,651
REINFORCING BAR
Joseph D. Stites, New York, N. Y.
Application February 25, 1942, Serial No. 432,173
10 Claims. (Cl. 72—111)



1. A twisted and stretched reinforcing bar for concrete and the like, comprising a plurality of outer sections of substantially equal cross-sectional area, a center core of less cross-sectional area than any individual outer section, and relatively narrow webs integrally connecting said core with said outer sections, the cross-sectional area of said inner core being such that when said bar is twisted about the axis of said core, the unit compressive stresses on said core are substantially equal to the total unit tensile stresses on said outer sections.

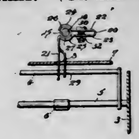
2,324,652
APPARATUS FOR CONTINUOUSLY CONDITIONING CONVEYER ROLLS
Robert J. Stoker, Gary, Ind., assignor to Carnegie-Illinois Steel Corporation, a corporation of New Jersey
Application July 30, 1940, Serial No. 348,530
1 Claim. (Cl. 204—206)



In apparatus for electrolytically producing tin plate in strip form, a tank, a conductor roll located above the level of electrolyte in the tank, a freely rotating roll cooperating therewith for holding the strip against the conductor roll and for conveying the strip with entrained plating solution thereon from the plating tank, said second-named roll having a resilient non-metallic surface directly in contact with said strip throughout the width of the latter, and means for conditioning the said contacting surface of the said second roll comprising a stationary bristle brush extending axially of the roll in contact with the effective width of its said surface, and means for pressing said brush against said second roll with sufficient strength to

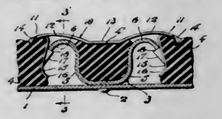
scratch the surface of said roll, said brush having bristles of a temper sufficient to prevent glazing of the roll surface by the said entrained plating solution.

2,324,653
SHEET METAL ADJUSTING NUT OR THE LIKE
George A. Tinnerman, Cleveland, Ohio, assignor to Tinnerman Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application July 26, 1940, Serial No. 347,796
9 Claims. (Cl. 151—21)



1. A nut device comprising a sheet metal body having a bend providing a pair of spaced arms extending in the same general direction, outwardly bent portions on said arms defining a passage for a threaded member, a thread surface on the inner face of one of said outwardly bent portions of the arms for threadedly engaging said threaded member, and means between the junction of the spaced arms and said passage for the threaded member for drawing said spaced arms toward each other to effect a tightened threaded engagement of said thread surface with said threaded member.

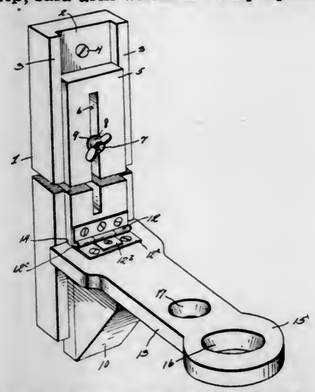
2,324,654
WALL CONSTRUCTION
George A. Tinnerman and George A. Hansman, Cleveland, Ohio, assignors to Tinnerman Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application January 2, 1942. Serial No. 425,442
8 Claims. (Cl. 189—34)



7. A fastener of the character described comprising a single strip of sheet metal providing an intermediate portion and two longitudinal outwardly bowed head portions, tongues formed from the head portions by longitudinal cuts and bent inwardly while attached thereto at their ends distant from the intermediate portion, and projecting barbs formed of the material of the tongues.

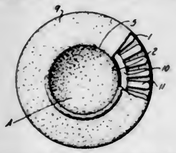
2,324,655
FUNNEL SUPPORT
Clayton N. Tozer, Julian, Calif.
Application January 20, 1942, Serial No. 427,525
4 Claims. (Cl. 248—94)

4. A funnel support, comprising an elongated body designed to be secured vertically to a support, said body having a channel lengthwise of its face, an elongated slide strip lying in said channel and having an opening formed therethrough and lengthwise thereof through the major portion of its length, a bolt secured to the body and projecting forwardly through said opening, a binding nut threaded on the projecting end of the bolt and adapted to press against the face of the strip to secure the strip in adjusted position in the channel, a bracket carried by the strip at its lower end and having a flat top, an arm having an end hinged to the strip above the bracket to be swung from an upright, inoperative position to a working position perpendicular to the strip, said arm when in said perpendicular



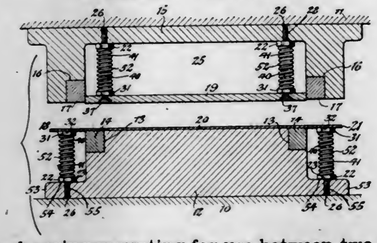
position resting upon the bracket, the arm being formed to receive a funnel, and means at the inner end of the arm forming a further coupling between the arm and slide, in addition to the hinged connection, when the arm is in the last mentioned position.

2,324,656
PESSARY
Cranston G. Vincent, Kansas City, Mo.
Application September 3, 1940, Serial No. 355,127
4 Claims. (Cl. 128—127)



1. In a pessary of the character described, a resilient dome-shaped hollow diaphragm having an open end, a resilient skirt on the diaphragm at the open end thereof, and a ring in the skirt having contractible normally outwardly extending fingers thereon.

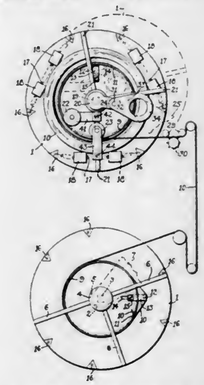
2,324,657
SPRING MOUNTING FOR PRESSES
George F. Wales, Buffalo, N. Y.
Application July 17, 1941, Serial No. 402,783
5 Claims. (Cl. 267—1)



1. A spring mounting for use between two relatively movable members, comprising two relatively movable heads adapted to engage respectively

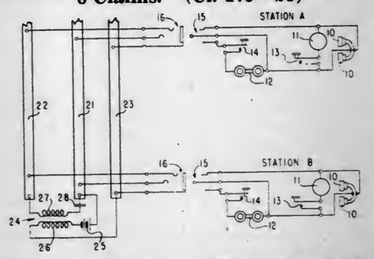
with said members, two telescopic tubes engaging respectively with said heads, spring means interposed between said heads, a retaining bolt arranged within said tubes and connected with one of said heads and one of said members, and means for preventing relative rotation of the inner of said tubes and the retaining bolt but permitting relative longitudinal movement of the same consisting of a spline arranged lengthwise on the inner tube and engaging with a corresponding groove in said bolt.

2,324,658
ADAPTER FOR NONREWIND EXPANSIBLE FILM REELS
Barney Wandel, Boston, Mass., assignor to No Rewind Reel Corp., a corporation of Massachusetts
Application August 6, 1941, Serial No. 405,591
4 Claims. (Cl. 88—18.7)



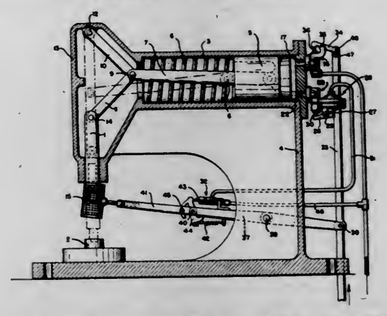
1. An adapter for non-rewind expansible film reels comprising, in combination, a casing housing an idling axle and provided with an arm, a collar provided with set screws, an abutment, and an arm and a pin uniting the arm of the casing at a point intermediate its length and the arm of the collar at its ends and serving as a pivot upon which the arm of the casing can be rotated until it makes contact with the abutment of the collar at both ends of the arc of its rotation.

2,324,659
TELEPHONE SYSTEM
Albert E. Woodruff, Oak Park, Ill., assignor to Associated Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application December 22, 1941, Serial No. 423,889
8 Claims. (Cl. 179—28)



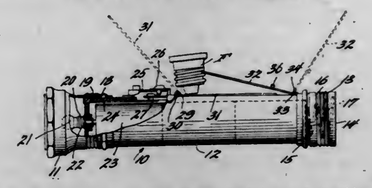
1. A telephone system comprising a plurality of stations; each of said stations including first and second separable connectors, a receiver, a first microphone of the voltage-generating sound-wave-actuated type, a second microphone of the battery vibrating-muscular-actuated type, and a circuit network operatively connecting said receiver to said first connector and selectively controllable operatively to connect either said first microphone or said second microphone to said first connector, and a coupling network operatively interconnecting said second connectors.

2,324,660
SAFETY CONTROL FOR RIVETING MACHINES AND THE LIKE
Basil J. Yanchenko, Syracuse, N. Y., assignor to The Prosperity Company, Inc., Syracuse, N. Y., a corporation of New York
Application January 20, 1942, Serial No. 427,479
9 Claims. (Cl. 192—133)



1. In a safety control for machines which include a stationary element and a head having an opening and closing movement toward and from the stationary element, and mechanism for actuating the head; the combination of a control for the actuating mechanism and operator-operated means for the control, a guard movable in advance of the head to close the space between the head and the stationary element, a carrier for the guard including relatively movable members, one connected to the operator-operated means to be operated thereby and the other to the guard, the latter being normally movable as a unit with the former and relatively thereto upon the guard encountering an obstruction, and means operated by the relative movement of the members of the carrier to disable the actuating mechanism.

2,324,661
COMBINATION FLASHLIGHT AND TESTING DEVICE
William E. Woodington, Washington, D. C.
Application August 24, 1940, Serial No. 354,140
11 Claims. (Cl. 175—183)



1. In a combination flashlight and testing device including an elongated casing, a battery in said casing, a lamp and means to connect one terminal of said lamp to one of the terminals of said battery, a pair of relatively long conducting arms longitudinally disposed relative to said

casing carried on longitudinally spaced portions of said casing at one of their ends, and adapted to be swung away from said casing at the other of their ends, and means to connect the casing ends of said arms to a second terminal of said battery and a second terminal of said lamp respectively, said arms being so proportioned and positioned on said casing that they contact one another to connect said second lamp terminal with said second battery terminal when the free ends of the arms are positioned in close proximity to said casing.

2,324,662

STENCIL CUTTING METHOD AND RIBBON

Moe I. Aaron, Denver, Colo.
Application February 24, 1941, Serial No. 380,160
4 Claims. (Cl. 197—6)

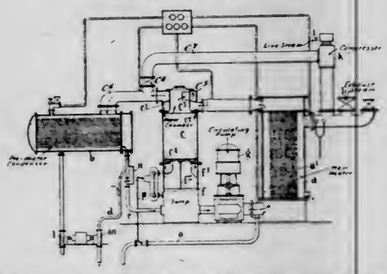


1. A new article of manufacture, namely a ribbon, for typewriters and like machines, composed of two longitudinally parallel strips, one of said strips being inked fabric and the other strip being a stencil-cutting strip of a thinner, smooth, flexible, imperforate and uninked material and having its inner edge reinforced by an attachment to the fabric strip.

2,324,663

APPARATUS FOR DISTILLING LIQUIDS

John Arthur Aiton, Derby, England, assignor to Aiton & Company Limited, Derby, England
Application March 12, 1941, Serial No. 382,992
In Great Britain March 30, 1940
7 Claims. (Cl. 202—180)

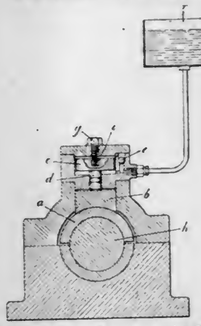


1. Distilling apparatus of the kind referred to comprising in combination, a preheater condenser in which the distillate is condensed and raw liquid preliminarily heated, a main heater in which the raw liquid is finally heated, an intermediate vapour chamber to which the liquid passes from the said heater, nozzles in said intermediate vapour chamber for directing the liquid tangentially on to the sides of the chamber and to cause flashing of the liquid to vapour, a sump at the bottom of the vapour chamber and outlet nozzles in the bottom of the latter through which that portion of the liquid which is not flashed into vapour passes to the sump, the latter being connected both with the preheater condenser and the said main heater so that the liquid delivered from the preheater condenser can be passed to the sump for delivery therefrom to the main heater and the liquid discharged into the sump from the vapour chamber recirculated through the main heater, and means whereby the feed can be passed from the condenser to the sump and the residue dumped and the vapour passed to the condenser.

2,324,664

SPINDLE BEARING

Harry Hales Asbridge, Ashton-on-Mersey, England, assignor to The Churchill Machine Tool Company Limited, Broadheath, near Altrincham, England, a British company
Application August 20, 1941, Serial No. 407,664
In Great Britain September 13, 1940
5 Claims. (Cl. 308—9)



1. Loading means for a spindle bearing comprising a piston operatively connected to the bearing, a spring loading said piston and bearing, a passage for hydraulic fluid leading to the opposite sides of said piston, and a non-return valve preventing escape of fluid along said passage from the side of the piston loaded by the spring.

2,324,665

SLEEPING BAG

Martha Oathout Ayres, Los Angeles, Calif.
Application December 13, 1941, Serial No. 422,866
1 Claim. (Cl. 5—343)



A sleeping device comprising: a relatively rigid underlying base; a relatively flexible cover, detachably secured to said base, said cover having a permanent head opening that is spaced substantially equidistantly from two mutually opposed edges of said base and having a closeable opening extending lengthwise of said cover and terminating in said permanent opening; an upwardly extending, arched stay secured to said base and adjacent said permanent opening to support said cover above the sleeper.

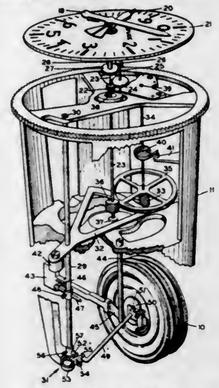
2,324,666

ADJUSTABLE LINKAGE FOR PRESSURE MEASURING INSTRUMENTS

Walter Angst, Manhasset, N. Y., assignor to Square D Company, Detroit, Mich., a corporation of Michigan
Application October 3, 1940, Serial No. 359,555
5 Claims. (Cl. 73—4)

4. In a pressure responsive device of the character described having a pressure responsive diaphragm, a rockshaft, and means operatively connected to said rockshaft for moving an indicator; mechanism for connecting said rockshaft

and diaphragm which comprises a substantially U-shaped member providing an adjustably mounted lever and having one leg thereof connected to said rockshaft, said member having in one leg thereof an opening to receive an adjusting screw, an adjusting screw extending through said opening with its end contacting the opposite leg of said member and adapted upon being turned to spread or contract said legs for lengthening and shortening the effective lever length of said U-shaped member, means providing pri-

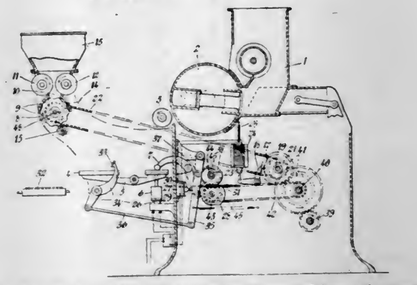


mary adjustment of said first mentioned leg of said U-shaped member to said rockshaft, a bifurcation at the end of the leg of said U-shaped member remote from said rockshaft to provide a pivot connection and a link pivotally connected at one end to said last mentioned leg and having its opposite end connected to said diaphragm, said adjusting screw providing secondary minute adjustment for the effective lever length of said U-shaped member to facilitate calibration of said device.

2,324,667

DIVIDING AND WEIGHING OF BREAD DOUGH AND LIKE PLASTIC MASSES

Barton Dell Baker, Laurence Seymour Harber, and John Edward Pointon, Peterborough, England
Application October 2, 1941, Serial No. 413,290
In Great Britain May 7, 1940
5 Claims. (Cl. 249—5)

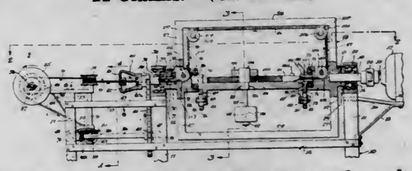


1. Apparatus for the production of bread, comprising a dough divider set to divide under-weight dough pieces and adapted to deliver these successively to a scale pan, means for locking the scale during such delivery and for immediately thereafter releasing the same and a rotary pocketed drum adapted to deliver a series of dough pellets or pats to a dough piece on the scale; means for starting the operation of the pocketed drum on delivery of such a divided piece on the scale and means for halting rotation of the drum as soon as the scale balances.

2,324,668

MACHINE FOR MAKING TWISTED PAPER

Leslie F. Barnum, Detroit, Mich.
Application January 23, 1942, Serial No. 427,852
11 Claims. (Cl. 57—31)

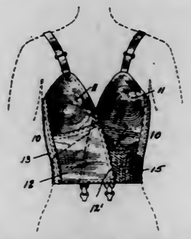


1. In a machine for making twisted cordage, a rotatable frame, a holder for a supply of material in flat strip form, means for guiding the strip from said supply in a path forming a loop within the confines of said frame and including the axis of rotation of said frame, means for rotating said frame at one end thereof, means for feeding said material from said supply through said loop and die forming means at the other end of the frame for frictionally engaging the strand and for smoothing the convolutions thereof to impart a further twist thereto between the frame and feeding means.

2,324,669

BRASSIÈRE

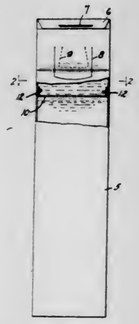
Sophie Berdach, New York, N. Y., assignor to Lily of France Corset Company, Inc., New York, N. Y.
Application January 6, 1942, Serial No. 425,709
1 Claim. (Cl. 2—42)



A brassière composed of two separate and symmetrical units, each unit comprising a forwardly bulging breast-receiving pocket; a bodice-piece attached to and along the lower edge of said pocket and extending downwardly sufficient to overlie and constrain the fatty portion of the diaphragm of a wearer below a breast, said pocket and bodice-piece having an inner lateral edge cut on a bias so that the bodice-piece of one unit will overlap the bodice-piece of the other unit below the center of the chest of the wearer and provide overlapping portions of the bodice-piece of each unit over the mid-portion of the diaphragm when the brassière is in use; a waist-line-piece attached along the outer lateral edges of said pocket and bodice and adapted to fold around one side and cover the fatty portions at the waist and at one side of the back of the wearer, the waist-line piece of each unit being sufficiently extensive in length to overlap the other at the back of the wearer; a pair of elastic waist-pieces adapted to lie against the side of the wearer's waist opposite from their associated breast-receiving pocket,

one of said elastic waist-pieces extending from the inner lateral edge of said bodice-piece and the other extending from the outer lateral edge of said waist-line-piece at the back of the wearer; disengageable elements for joining the free ends of said elastic waist-pieces; said breast-receiving pocket, bodice-piece, waist-line-piece and elastic waist-pieces being fitted to constrain the covered fleshy portions of the wearer and to hold the breast in the pocket when tightened around the body of the wearer by said elastic waist-pieces; and a shoulder strap attached to said pocket and said waist-line piece.

2,324,670
MILK CONTAINER
Von M. Bergen, Huntington Park, Calif.
Application August 3, 1939, Serial No. 288,079
1 Claim. (Cl. 229—7)

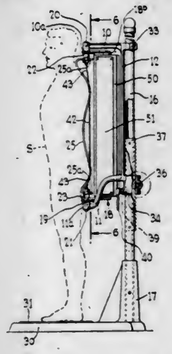


A device of the class described comprising vertical side walls providing a container of substantially squared cross-section having corner portions, a substantially horizontal division wall mounted between said side walls and dividing the container interior into an upper and a lower chamber, said division wall having an inwardly uniformly curved edge portion normally spaced from an adjacent side wall, said curved portion extending from substantially one corner portion to the opposite corner portion to provide an elongated communication opening between said chambers, the degree of curvature being such that the side wall portion adjacent said inwardly curved portion is sufficiently flexible to be inwardly compressed into contact with said inwardly curved edge portion to seal said opening.

2,324,671
PRINTING INK
Isidor M. Bernstein, Brooklyn, N. Y., assignor to H. D. Roosen Company, Brooklyn, N. Y., a corporation of New York
No Drawing. Application November 29, 1941, Serial No. 421,026
11 Claims. (Cl. 106—29)

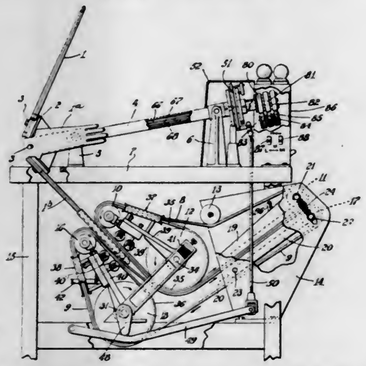
1. A heat-set printing ink comprising a pigment dispersed in a vehicle containing a volatile solvent and a solvent evaporation retardent comprising a wax and a substance selected from the group consisting of monohydric alcohols having from 8 to 30 carbon atoms each, dihydric alcohols having from 8 to 12 carbon atoms each and higher hydroxylated fatty acids.

2,324,672
MEANS FOR MEASURING AND RECORDING POSTURE
William Bierman, New York, and Abraham W. Schenker, Richmond Hill, N. Y.
Application June 21, 1941, Serial No. 399,096
8 Claims. (Cl. 33—175)



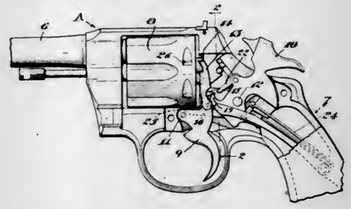
1. In a posture measuring device of the class described, in combination, a member adapted to be manually bent to conform to the contour of the spine for simultaneously measuring anteroposterior and lateral spinal curvatures, and means for supporting said member, said supporting means comprising a base, an upright on said base, a frame mounted on said upright for up and down movement thereon, said member being mounted on said frame for movement therewith.

2,324,673
MACHINE FOR PRESSING GLOVES
Teobaldo G. Boldizzoni, New York, N. Y.
Application December 23, 1942, Serial No. 469,910
8 Claims. (Cl. 223—57)



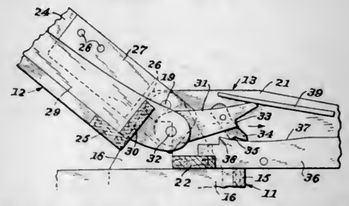
1. In a machine for pressing gloves, two belts, means for driving said belts in opposite directions in close proximity to one another, means for moving said belts over a part of their surfaces from and to one another, a plurality of forms, means for heating said forms, means for moving said forms over a path passing between the relatively movable parts of said belts, a mangle comprising two irons engaging said belts over another part of their surfaces, means for heating said irons, and a mounting for said irons arranged to allow for the passage of said belts and a glove between them.

2,324,674
FIREARM ACTION
J D Buchanan, Los Angeles, Calif.
Application July 3, 1939, Serial No. 282,614
2 Claims. (Cl. 42—65)



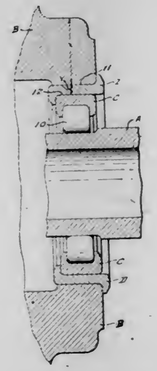
1. A firearm action comprising the combination of a pivoted trigger extension terminating in a rearwardly facing V notch providing a comparatively short lower lip and an elongated upper lip, the outer end of said elongated upper lip terminating at the extremity of said trigger extension, a hammer having a cooperating pivotal hammer extension having a rounded end bearing on the underside of said trigger extension at a place inwardly of said notch when said hammer is in uncocked position, said pivoted extensions being so constructed and arranged that said rounded end slides outwardly from said place in engagement with said lower lip and then enters said notch as said hammer is moved into cocked position, a sear face on the side of said rounded end engageable with that side of said V notch defining said lower lip, a cylinder for said firearm action, and stepping means for said cylinder associated with said trigger extension, said rounded end of said hammer extension and said V notch being so constructed and arranged that said rounded end of said hammer extension has slidable engagement along that side of said V notch defining said elongated upper lip to permit said hammer extension, when manually moved to cocked position, to move said trigger extension and said stepping means beyond their normal cocked position, thereby to gradually increase the throw of said stepping means as it wears.

2,324,675
SOFA BED
Robert Allen Burton, High Point, N. C., assignor to Burton Upholstery Company, a corporation of North Carolina
Application December 31, 1942, Serial No. 470,779
7 Claims. (Cl. 5—37)



7. A sofa bed having hinged back and seat sections, each section including an end panel, a rail positioned longitudinally of and adjacent one of said panels and having a top surface constituting a latch supporting shelf, said rail having a shoulder formed thereon adjacent the inner end thereof, a latch pivotally carried by said other section and having a notch formed therein and engageable with the shoulder to maintain the sections in one position of adjustment, said latch being supported on the top surface of said rail and slidable on the same during movement of the sections from one position to another, means carried by said latch for disengaging the latch notch from the shoulder to permit the latch to slide on the rail and thereby allow movement of the sections to another position of adjustment, and spring means carried by one of said sections and engageable with said latch to urge it into contact with the rail shelf.

2,324,676
BEARING
John P. Butterfield, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application June 6, 1941, Serial No. 396,792
10 Claims. (Cl. 308—23)

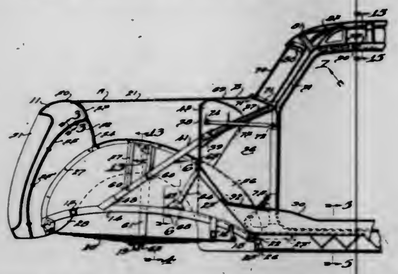


1. A bearing comprising a case having an opening fitted with a sleeve so as to remain tight in the case over a substantial temperature change to which the bearing is subjected, a member disposed with clearance within the sleeve and arranged in load transferring relationship with respect to the sleeve and case, the case and the member having relatively different coefficients of expansion, the sleeve having a cofficient of expansion differing from that of the case and member, and the radial effective thicknesses of the case and sleeve adjacent said opening being of such relative values in relation with each other and in relation with the coefficients of expansion of said case, member, and sleeve, so as to control undesired variation of said clearance within said range of temperature change.

2,324,677
VEHICLE BODY
Robert Cadwallader, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application May 17, 1939, Serial No. 274,243
4 Claims. (Cl. 296—28)

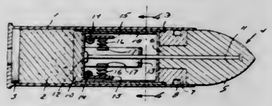
1. In a motor vehicle body structure having a cowl structure forwardly of the driver's compartment, an engine and wheel supporting frame extending forwardly of said cowl structure; said cowl structure comprising a stamping having a transverse dash portion and inwardly offset portions at each side thereof; a strut member structurally connecting each of said offset portions

and said frame at each side of said body structure; and an additional strut member structurally



connecting said dash and said frame at each side of said body structure.

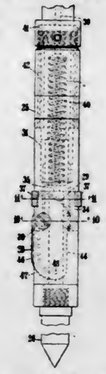
2,324,678
BULLET
Robert R. Clark, Chapel Hill, N. C.
Application March 27, 1941, Serial No. 385,550
1 Claim. (Cl. 102—88)



A bullet of the class described comprising a nose, said nose comprising a reduced rear end portion, a comparatively soft compressible, distortable ring mounted on said reduced end portion of the nose, said ring having a circumferential groove therein, a tubular chamber mounted on the ring and projecting rearwardly therefrom, a removable plug in the rear end portion of said chamber, a plurality of expansible wings pivotally mounted on the plug and engageable in the chamber for retention thereby in folded position, a stem mounted longitudinally in the nose and projecting rearwardly therefrom into the chamber and engaged with the plug for ejecting said plug from the chamber, said stem being operable upon compression and distortion of the ring when the nose strikes an object, a substantially U-shaped connector on the plug slidable on the stem, a head on one end of the stem for retaining the connector thereon, and springs in the chamber engaged with the wings for opening said wings when the plug is ejected from the chamber.

2,324,679
ROCK BORING AND LIKE TOOL
Percy Cox, Keston Park, England; Nellie Louise Cox administratrix of Percy Cox, deceased
Application April 9, 1941, Serial No. 387,729
In Great Britain April 26, 1940
4 Claims. (Cl. 255—76)

1. A counterboring tool comprising a body adapted to be introduced into a hole, means on the body whereby it may be rotated and fed forwardly within the hole, said body having a slot, pivoted cutters located in said slot, said cutters being in overlapping relation, means adapted to have thrust engagement with the bottom of the hole for effecting lateral movement of the cutters into operative cutting position, and guide and abutment means on said body adapted to contact along a lower portion of the side of each cutter to afford support against lateral thrust on the cutter when in the extending position in counterboring, said abutment means comprising

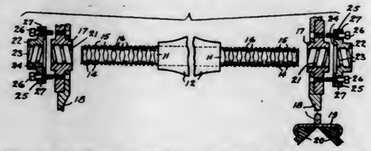


thrust members secured to said body and extending partly into said slot.

2,324,680
ADHESIVE COMPOSITION
Albert P. d'Andrea, Brooklyn, N. Y.
No Drawing. Application August 2, 1940, Serial No. 350,115
2 Claims. (Cl. 106—170)

1. A quick drying flexible transparent adhesive capable of enclosing a colored print or ink in an envelope or mold, to which the print or ink is adapted to adhere more firmly than it does to the foundation on which the ink or color was printed, and comprising approximately 3600 cc. collodion, 100 cc. linseed oil, and 150 cc. amyl acetate.

2,324,681
ADJUSTABLE TRACTOR WHEEL MOUNTING MEANS
Otto Dekker, Granger, Wash.
Application May 26, 1941, Serial No. 395,228
6 Claims. (Cl. 301—128)

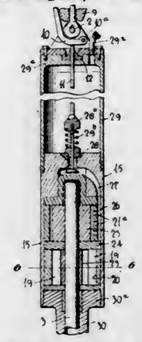


1. In a tractor, a driven axle having right and left hand threads provided on the same portion thereof in relatively crossed relation; a wheel hub having threads interfitting one set of threads on said axle; and nut means interfitting the other set of threads on said axle locking said wheel hub against rotation relative to said axle.

2,324,682
SIDE WALL CORING TOOL
Raleigh De Long, Houston, Tex., assignor of forty per cent to Fohs Oil Company, Houston, Tex., a corporation of Delaware
Application March 26, 1941, Serial No. 385,325
2 Claims. (Cl. 255—1.4)

1. In a coring device of the type having a rotary core barrel and a guide for the barrel, the improvement which comprises a chamber arranged above the guide and having an open upper end, a fluid-operated motor operatively connected

to said barrel and having an exhaust duct communicating with the chamber, a valve controlling said duct, whereby when the chamber is partially submerged in liquid or drilling fluid in a well and the valve is open, the motor will be ac-



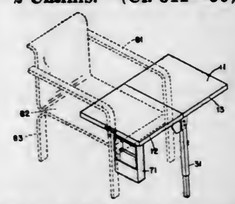
tuated by said liquid or fluid due to the differential pressure between the well and the interior of said chamber, and means adapted to be controlled from the top of the well for opening said valve.

2,324,683
SOCKET FOR FLUORESCENT LAMPS
Victor R. Despard, Syracuse, N. Y., assignor to Pass & Seymour, Inc., Syracuse, N. Y., a corporation of New York
Application November 20, 1940, Serial No. 366,494
6 Claims. (Cl. 173—328)



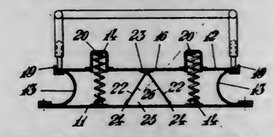
6. The combination with a socket for fluorescent lamps having a member of insulating material with substantially parallel front and rear faces and a connecting edge substantially normal thereto, with a deep recess in one face spaced from said edge and connected thereto by a slot, of a spring clip in snap engagement with said socket to close off the slot, said clip comprising a length of springy metal strip having an intermediate portion closing the entrance to said slot and recess through said edge, and end portions in cooperative engagement with the said edge and the wall of said recess to retain the strip in position.

2,324,684
PORTABLE TABLE
William C. F. Dietz, Amberley, Ohio
Application August 18, 1941, Serial No. 407,296
2 Claims. (Cl. 311—90)



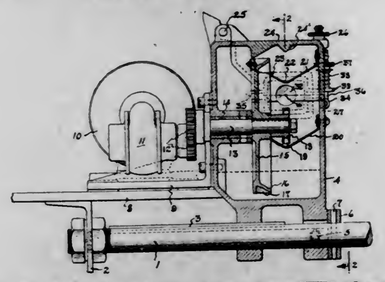
1. A portable foldable table comprising a pair of table sections having hinge connection between them and provided with a compartment between them when folded to closed position, a hinge comprising a pair of sections having hinge connection with both said table sections on a pivotal axis at substantial right angles to the pivotal axis of said first-named hinge connection and said hinge sections having a hinge connection between them forming part of said first-named hinge connection when said hinge is folded toward said table sections and forming a brace between said table sections when unfolded to open position, and a leg for said table sections, said leg having attachment with said hinge and located adjacent to said first-named hinge connection when folded and foldable into said compartment on said second-named hinge connection.

2,324,685
RESILIENT STRETCHER-SUPPORTING DEVICE FOR VEHICLES
Olof Ingemar Harald Ekman, Stockholm, and Hans Teodor Nicou, Sodra Angby, near Stockholm, Sweden
Application March 4, 1940, Serial No. 322,234
In Sweden December 7, 1938
2 Claims. (Cl. 296—19)



1. A resilient stretcher-supporting device for vehicles comprising a box-like structure including a rigid bottom, elastic or flexible side and end walls, a cover carried by said side and end walls so as to be capable of moving upwardly and downwardly, springs to support said cover, partitions in said box-like structure comprising rigid members in pivotal connection with the cover of the structure and in sliding connection with the bottom thereof, said partitions dividing the interior of the structure into a plurality of chambers, said chambers being connected to each other and to the atmosphere by ports of restricted areas of passage to allow the air contained in the chambers to act as a medium for damping the movements of the cover under the action of a load thereon, while the structure is carried by a travelling vehicle.

2,324,686
ADHESIVE APPLIER
Charles B. Fantone, Lyndhurst, N. J., assignor to Syncro Machine Company, Rahway, N. J., a corporation of New Jersey
Application August 23, 1941, Serial No. 408,044
6 Claims. (Cl. 91—44)



1. In a device of the type described the combination including a container for holding a body of adhesive, resilient apertured members mounted

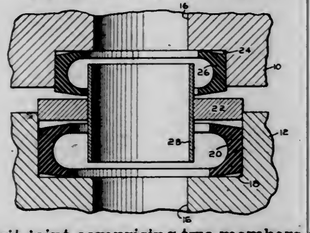
on the container through which a wire to be coated enters and leaves the container along a path above the adhesive body, a rotatable wheel dipping in the adhesive body for throwing adhesive against the undersurface of the top of the container, distributing means on which the adhesive falls for delivering adhesive to the top surface of the wire, a distributing device rotatably mounted under the path of the wire; and an adhesive trough into which said distributor dips for projecting adhesive against the undersurface of the wire.

2,324,687
FASTENER
Donald H. Finkle, Los Angeles, Calif.
Application June 22, 1942, Serial No. 447,937
6 Claims. (Cl. 85—3)



1. In a temporary fastener, a body, a pin passing through said body, a clamping member pivotally mounted at the end of said pin, link means connecting said body to said clamping member to pivot said clamping member when said body is moved in relation to said pin.

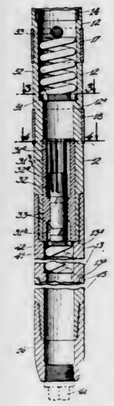
2,324,688
POWER TRANSMISSION
William G. Finlayson, Detroit, L. Raymond Twyman, Bloomfield Township, Oakland County, and Ralph L. Tweedale, Detroit, Mich., assignors to Vickers Incorporated, Detroit, Mich., a corporation of Michigan
Application March 8, 1941, Serial No. 382,290
1 Claim. (Cl. 285—192)



A conduit joint comprising two members carrying portions of a conduit to be joined in register, said members having flat surfaces adapted to be secured in abutment, annular recesses, one in each member surrounding the conduit and one of larger diameter than the other, a pressure-operated flexible sealing ring in each recess, and a rigid ring between the sealing rings and in contact with the cylindrical outer wall of the large diameter recess, said rigid ring being exposed to pressure over a greater area in the larger recess than in the smaller recess and consequently remaining in contact with the member having the smaller recess when the members separate whereby extrusion of the sealing rings is inhibited even when the members are relatively widely separated.

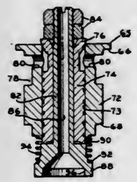
2,324,689
VALVE FOR OIL WELL SWABS
Robert B. Fraser, Ventura, Calif.
Application December 19, 1940, Serial No. 370,778
4 Claims. (Cl. 251—118)

1. In a well swab, a cylinder open at the upper and lower portions, a tubular casing for supporting the cylinder, a piston reciprocally mounted within the cylinder, the cylinder and piston being so constructed as to provide by-pass means between the cylinder and piston when the latter



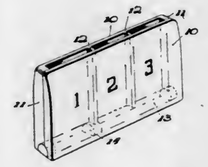
is at either end of its stroke, a single spring for urging the piston upwardly to an intermediate position in which the cylinder is sealed by the piston, and a resilient bumper for limiting the upward, opening movement of the piston.

2,324,690
VALVE DEVICE
Duncan B. Gardiner and Raymond S. Miller, Detroit, Mich., assignors to Vickers Incorporated, Detroit, Mich., a corporation of Michigan
Application January 16, 1941, Serial No. 374,616
3 Claims. (Cl. 303—54)



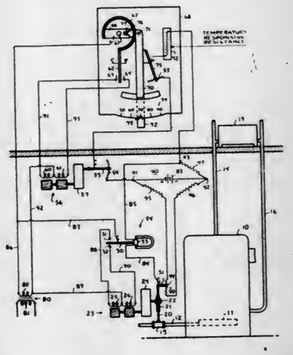
1. An equalizing valve comprising a body having a longitudinal bore providing a motor port, an exhaust port and a pressure port intermediate said other ports, a cartridge removably mounted in said bore having one end exposed to the motor port and its opposite end exposed to the exhaust port, said cartridge constituting a unitary subassembly comprising an inlet valve and an exhaust valve seat together with a sleeve member providing a mounting and seat for the inlet valve, said sleeve having a transverse passage communicating with the pressure port and sealed from the other ports, an exhaust valve seating on the exhaust valve seat and adapted to transmit lifting forces to the inlet valve, and means for operating said valves conjointly to variably regulate the pressure in the motor port, said cartridge having all of its parts assembled in operative and nonseparable relationship prior to assembly into the bore.

2,324,691
GAME OR PUZZLE DEVICE
Edward Gardner, Ashtabula, Ohio, assignor to Reed O. Hulbert, Ashtabula, Ohio
Application October 19, 1942, Serial No. 462,603
14 Claims. (Cl. 273—1)



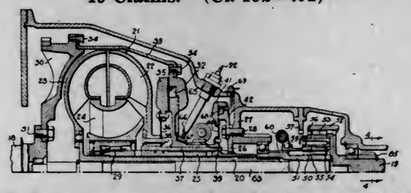
1. A game device comprising a box having a plurality of adjoining compartments all having normally open and mutually aligned top openings and normally open and mutually aligned bottom openings, and means for selectively obstructing any one only of the plurality of bottom openings while leaving the remainder of the bottom openings unobstructed.

2,324,692
LOAD COMPENSATED CONTROL SYSTEM
Willis H. Gille, St. Paul, Minn., and John V. Sigford, Wabash, Ind., assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application April 14, 1941, Serial No. 388,368
8 Claims. (Cl. 236—74)



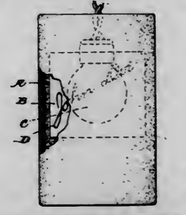
8. In combination, a device to be positioned in a plurality of positions for controlling the value of a condition, means for modulatingly positioning said device, normally balanced control means for said positioning means, means responsive to changes in a condition indicative of the need for operation of said device for producing an unbalancing effect in said control means, means operated by said positioning means for opposing said unbalancing effect and rebalancing said control means, first means for varying the relationship between said unbalancing and rebalancing effects in response to deviations of said controlled condition from a predetermined value, second means for varying said relationship manually, and means associated with said second means and operated simultaneously therewith to change said predetermined value by an amount corresponding to the change in said relationship.

2,324,693
TRANSMISSION
Walter R. Griswold, Detroit, and Forest R. McFarland, Huntington Woods, Mich., assignors to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan
Application November 19, 1941, Serial No. 419,748
19 Claims. (Cl. 192—.01)



7. In a transmission for driving a motor vehicle having an internal combustion engine and driver operable engine throttle control means, an engine operated driving shaft, a driven shaft, a hydraulic torque converter connected in driving relation with the driven shaft and including an impeller, drive mechanism including a clutch for connecting the driving shaft with the impeller, means for braking the impeller, electromagnetic means operable to control said clutch and said brake, and control means for the electromagnetic means responsive to movement of the engine throttle control means.

2,324,694
METHOD OF ETCHING INSIGNIA UPON ARTICLES OF GLASSWARE
Carl W. Gustkey, Wheeling, W. Va., assignor to Imperial Glass Corporation, Bellaire, Ohio, a corporation of Ohio
Application December 11, 1942, Serial No. 468,725
4 Claims. (Cl. 41—43)

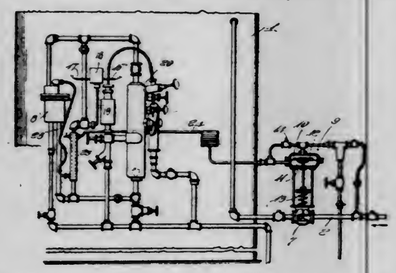


1. The herein described method of etching insignia upon articles of glassware, which resides in coating opposed faces of the article with acid resistant material, then placing an insignia bearing media against one face of the coated article, subjecting the media to a source of light, removing the acid resistant material from the opposite face of the article at points coinciding with the insignia, etching the glass surface at the points of removal of the material, and finally removing the acid resistant material.

2,324,695
FUEL AND WATER CONTROLLER FOR BOILERS OR STEAM GENERATORS
William S. H. Hamilton, Larchmont, and Kendall B. Rowell, New York, N. Y., assignors to The New York Central Railroad Company, a corporation of New York
Application March 24, 1942, Serial No. 436,044
2 Claims. (Cl. 122—448)

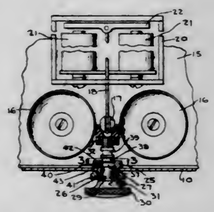
1. In a fuel controller for steam generators, a boiler, a burner for heating the same, a conductor for supplying fuel to the burner, a water

feed governor controlling the supply of water to the generator, said governor including a spring closed valve and a controlling diaphragm therefor subjected on its opposite sides to feed water and boiler pressures, a float controlled element for controlling communication between the boiler and diaphragm, a vertically disposed tube in communication with the boiler above and below the normal water level line and containing relatively cool water therein below the water level line and hot water and steam above the water level line, a cut out valve in the fuel conductor, means for controlling the valve including a ther-



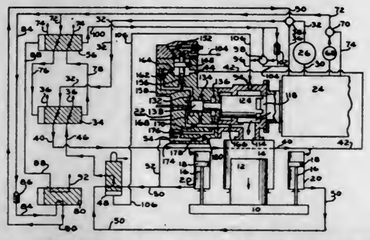
mostatic device located in said tube below the water level line so as to be normally immersed in relatively cool water and to control said means to hold the valve open and adapted to be subjected to the action of hot water and steam descending in the tube at a low water level condition in the boiler and operated to control said means to effect the closing of the valve, and a connection between the tube, float controlled element and feed water pressure side of the diaphragm for flow of water around the tube from the governor prior to its admission to the float controlled element.

2,324,696
TELEPHONE SUBSCRIBER'S RINGER CONTROL
Cleon M. Hannaford, Toledo, Ohio; Marie L. Hannaford executrix of said Cleon M. Hannaford, deceased
Application July 25, 1941, Serial No. 404,062
12 Claims. (Cl. 116—149)



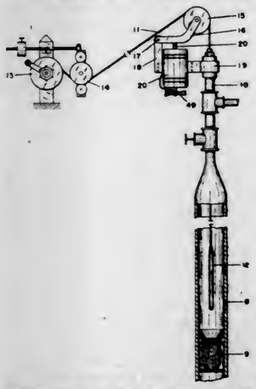
5. A control for telephone subscriber's ringer device in combination with a subscriber's telephone mechanism including an enclosure therefor, a member relatively movable with respect to said enclosure, said member being arranged for manipulation exteriorly of said enclosure, nonmetallic means associated with said member and formed with a frusto conical recess arranged to receive a bell striker for retaining the striker in non-ringing position, and adjustable means associated with said member for urging the nonmetallic means in striker engaging position.

2,324,697
POWER TRANSMISSION
Ferris T. Harrington and Ralph L. Tweedale, Detroit, Mich., assignors to Vickers Incorporated, Detroit, Mich., a corporation of Michigan
Application October 14, 1940, Serial No. 361,116
3 Claims. (Cl. 60—97)



2. A prefill valve assembly for hydraulic presses of the type having main, booster and return cylinders, a supply tank, and means for selectively supplying pressure fluid to the booster cylinder or the return cylinder, said assembly comprising a housing having main ports connected respectively with the tank and with the main cylinder, a shiftable valve for selectively opening or closing communication between said ports, hydraulic means for shifting the valve to closed position, means for shifting the valve to open position, a connection providing separate paths for flow in each direction between said hydraulic means and the booster cylinder, a pressure responsive valve in one path for delaying the closing of the valve until a predetermined pressure is reached at the booster cylinder, and means providing permanently open restricted communication between said hydraulic means and the main cylinder, whereby reasonable leakage at said pressure responsive valve is ineffective to shift the valve.

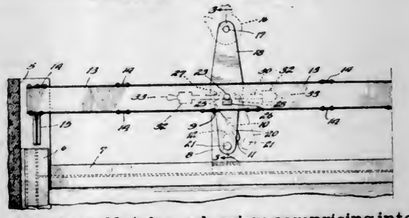
2,324,698
WELL MEASURING DEVICE
Merida L. Hart, Chickasha, Okla., assignor to Halliburton Oil Well Cementing Company, Duncan, Okla.
Application September 21, 1940, Serial No. 357,715
1 Claim. (Cl. 33—126.6)



In apparatus adapted for measuring the depth of an object in an oil well or the like, the combination with a measuring line having a weight member thereon adapted to be lowered into the well, of a signalling system associated with said line for indicating the position of said weight member with respect to said object, said signal-

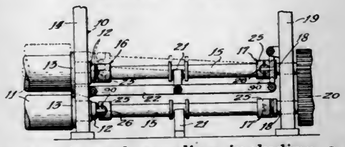
ling system including an electrically operated signal, an electric switch in the circuit of said signal, and mechanism for operating said switch in response to sudden variations in tension in said measuring line caused by relative movement of the weight member with respect to said object, said mechanism having diaphragm chambers therein and a restricted conduit for conducting fluid from one chamber to another, whereby gradual changes in tension in said line will not operate said switch and signal.

2,324,699
AUTOMATIC LATCH
Leroy F. Harza, Highland Park, Ill.
Application December 30, 1939, Serial No. 311,716
8 Claims. (Cl. 61—28)



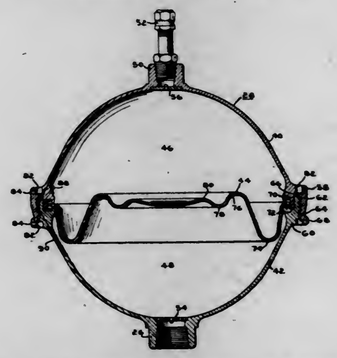
1. A hook and latch mechanism comprising interengaging members in which one of the members has a weight engaging it and relatively movable to one side or the other of a central upright position and tending in one position to hold the members together and in the other to move them apart depending upon which side of the central position it is placed.

2,324,700
BEARING
Thomas J. Healy, Baltimore, Md., assignor to The American Brake Shoe and Foundry Company, Wilmington, Del., a corporation of Delaware
Original application September 29, 1941, Serial No. 412,750. Divided and this application July 22, 1942, Serial No. 451,933
6 Claims. (Cl. 64—7)



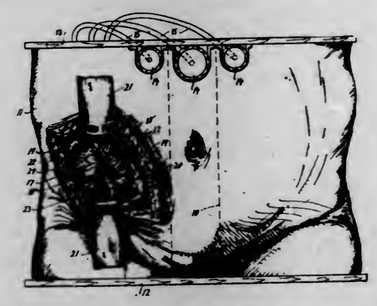
2. In a universal coupling including a bifurcated female member and a male member comprising a flat tongue adapted to be received in such bifurcation and which tongue has an opening therein for the reception of a bearing pin and wherein the branches of the bifurcation have opposed arcuate recesses therein that extend transversely and to the free edges thereof, the combination of a pair of slipper bearings respectively disposed in the arcuate recesses and including convex faces to conform with the recesses and also having flat faces respectively disposed toward opposed flat faces of said tongue, each of said slipper bearings comprising a medial part and two separate end sections disposed at opposite sides of said medial part and extending therefrom, a bearing pin extended through the opening in said tongue and into the medial parts of said bearings, and means exteriorly disposed on said female member and extending over the ends of the recesses therein to retain the end sections of each slipper bearing against longitudinal displacement from said recesses.

2,324,701
FLUID PRESSURE ACCUMULATOR
Kenneth Ray Herman, Detroit, Mich., assignor to Vickers Incorporated, Detroit, Mich., a corporation of Michigan
Application December 18, 1939, Serial No. 309,735
4 Claims. (Cl. 138—30)



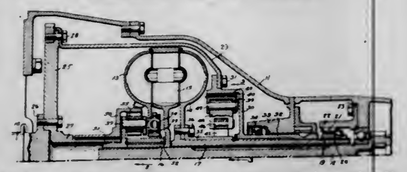
1. An air-loaded accumulator for high pressure hydraulic power systems comprising a pair of generally hemispherical cups joined together to provide a generally spherical closed vessel and having a wall thickness less than 2% of their spherical diameter, and a flexible impervious diaphragm clamped between the cups and dividing the vessel into a liquid chamber and an air chamber, said cups having thickened rims, one with an internal screw thread and the other with an external screw thread, the depth of said thread being of the same order of magnitude as the wall thickness of the cups.

2,324,702
SURGICAL SIMULACRA AND PROCESS OF PREPARING SAME
Karl F. Hoffmann, New York, N. Y., and Edgar Fliegenschmidt, North Bergen, N. J.
Application November 30, 1938, Serial No. 243,132
11 Claims. (Cl. 35—17)



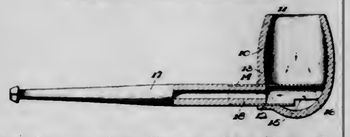
1. The method of producing a surgical simulacrum, comprising taking imprints from anatomical elements which are anatomically associated with each other, reproducing said elements from said imprints in synthetic molding jells having lasting qualities but having also physical properties similar in respect to reaction to touch, incision, and suture or ligation to those of said elements, respectively and permanently assembling said reproductions with each other in conformity with the anatomy of said elements.

2,324,703
MOTOR VEHICLE
Roscoe C. Hoffman, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan
Application December 26, 1941, Serial No. 424,488
5 Claims. (Cl. 74—189.5)



1. In a transmission, a power drive shaft; a driven shaft; a hydraulic torque converter having an impeller, a reaction member and a driven member, said driven member being fixed to the driven shaft; planetary gearing having a ring gear coupled to the drive shaft, a planet carrier fixed to the driven shaft and a sun gear fixed to the impeller; and coupling means including a housing surrounding the torque converter and fixed to rotate with the drive shaft and a centrifugal clutch for holding the reaction member and the housing locked together while the reaction member is operating above a predetermined speed.

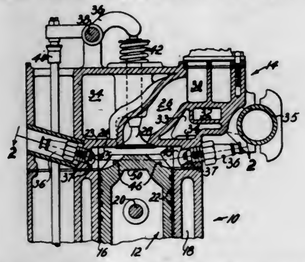
2,324,704
SMOKER'S PIPE
John R. Houts, McLean, Va.
Application December 15, 1941, Serial No. 423,098
1 Claim. (Cl. 131—225)



In a tobacco pipe, the combination of a total of three complemental parts providing a freely separable assembly and comprising a bow formed near the bottom thereof with an external short fulcrum-boss terminating within the lines of the bowl at its major circumference, a resilient baffle tube snugly fitting through said boss and curved at its forward terminal to wedge against the inner surface of the bowl and cant the tube in said boss for binding the tube in position and locking the bowl against rotation on the tube, the outer end portion of the tube providing an exposed external sleeve projecting beyond said boss and said tube being formed at its inner end portion within the bowl with a single smoke slot located at the lower side of the tube and providing a smoke outlet for the bowl through the tube, and a stem provided at its forward end with a nipple frictionally fitting in said sleeve and of a length to extend beyond the zone of said boss for reinforcing and sustaining the sleeve at said boss against canting stress on said tube.

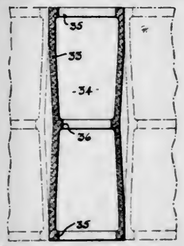
2,324,705
COMBUSTION CHAMBER
John S. Huber, South Milwaukee, Wis., assignor to Nash-Kelvinator Corporation, Kenosha, Wis., a corporation of Maryland
Application July 24, 1940, Serial No. 347,088
3 Claims. (Cl. 123—191)

1. In an internal combustion engine, a cylinder block having cylinders formed therein, a cylinder head having combustion chambers formed on the underside thereof, having a flat top surface and co-operable with said cylinders, ignition devices for said combustion chambers, valve mechanism carried in said head and projecting through said top surface, pistons carried in said cylinders and arranged to project into said combustion chambers in their uppermost positions, each of said pistons being provided with a flat central upper portion projecting into adjacency with said flat top surface of the combustion chamber and said valves and extending parallel thereto, each of



said pistons being provided with oppositely-facing, and spherical-surfaced recesses in each side, the center of which is approximately at said ignition device, the recesses being disposed in the projecting portion of each piston in its uppermost position, said ignition devices being carried by said cylinder head opposite the recesses in said pistons, the walls of said combustion chambers being partially recessed in the vicinity of said ignition devices, to provide vertical, partially cylindrical surfaces.

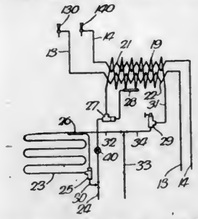
2,324,706
METHOD AND MEANS FOR ACOUSTICAL TREATMENT
Victor Jacobson, New Rochelle, N. Y., assignor to Jacobson & Company, Inc., New York, N. Y., a corporation of New York
Application January 2, 1941, Serial No. 372,844
16 Claims. (Cl. 181—35)



1. A sound absorbing and dissipating construction, comprising a plurality of spaced partitions composed of porous sound absorbing walls defining passages, said units being arranged so as to align their passages, said passages having ledges to impede the movement of sound waves therethrough.

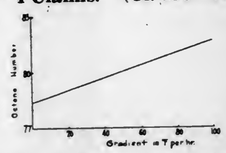
2,324,707
COOLING APPARATUS
Herman K. Johnson, Grand Haven, Mich.
Application June 30, 1941, Serial No. 400,455
7 Claims. (Cl. 62—141)

1. In a cooling cabinet, a cooling syrup jar compartment, a plurality of syrup jars extending into said compartment, a plurality of draft members mounted on said cabinet above said compartment, a plurality of conduits connected one to each of said draft members, said conduits having their intermediate portions helically wound in multiple to form together a single closely wound elongated cooling member in the form of an open cylinder open at both ends with the turns in side by side relation with each con-



volution interposed between and in heat exchange relation with two other convolutions substantially throughout the length of said member, exposed directly to the air within said compartment for cooling the interior of the latter for reducing the temperature of the contents of said jars.

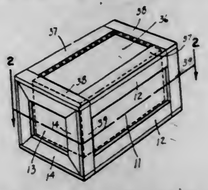
2,324,708
PRODUCTION OF GASOLINE
George E. Liedholm, Scarsdale, N. Y., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application August 25, 1941, Serial No. 408,192
4 Claims. (Cl. 196—50)



3. In a process for the catalytic treatment of hydrocarbons at a temperature in the cracking range to produce high anti-knock hydrocarbons of the gasoline boiling range wherein the hydrocarbon to be treated is contacted with a fixed bed of a cracking catalyst of the clay type and the catalyst is periodically regenerated by burning carbonaceous deposits therefrom in situ with a stream of combustion-supporting gas in an operation employing a process period of not more than three hours, the improvement which comprises preheating a portion of the hydrocarbon feed to be treated to a higher temperature than the remainder and increasing the proportion of hotter hydrocarbon feed to the reaction zone during each process period, thereby creating an increasing temperature gradient of at least 20° F. per hour.

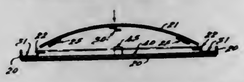
2,324,709
PRESSURE RESISTING WATERPROOF BUOYANT CONTAINER
Harry H. Lindley, Marion, Ind., assignor to Lindley Box & Paper Company, Marion, Ind., a corporation of Indiana
Application October 15, 1942, Serial No. 462,117
3 Claims. (Cl. 217—17)

1. A pressure resisting completely waterproof composite container including in combination an inner box, an outer box completely enveloping same and having interior dimensions slightly in excess of the corresponding exterior dimensions of the inner box, spacing means between the boxes to completely and rigidly space the inner box from the outer box, to maintain such spacing arrangement and to form within the outer box an inner box completely enveloping chamber, and a waterproof sealing material completely filling said enveloping chamber, the inner box having certain walls of multi-part character with



a longitudinal seam therein, each spacing means being arranged in the chamber to expose the complete seam to said sealing material for seam sealing purposes.

2,324,710
WALL PANEL FOR FURNACE JACKETS OR THE LIKE
Allen P. Livar, Dayton, Ohio, assignor to Chrysler Corporation, Detroit, Mich., a corporation of Delaware
Application April 6, 1942, Serial No. 437,800
6 Claims. (Cl. 189—34)

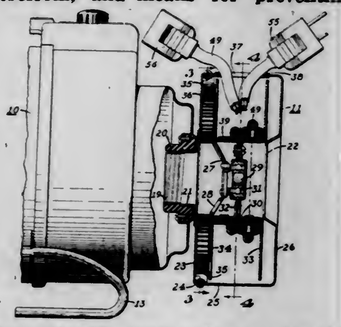


1. A panel for forming a vertical wall of a furnace jacket or the like comprising a relatively rigid outer metal sheet, a retainer bar fastened longitudinally of each vertical edge portion of said sheet with an edge portion of each bar spaced from and lying substantially parallel to said sheet, each of said edge portions of said retainer bars extending toward the central portion of said sheet whereby said retainer bars form opposed open channels, a relatively rigid plaque of insulating material of lesser thickness than the depth of said channels and having its vertical edges loosely retained in said channels, a relatively resilient inner metal sheet having clip members extending along each vertical edge portion thereof in position to engage said edge portions of said retainer bars when said inner and outer metal sheets are assembled to lie in parallel planes, and a spacer bar extending longitudinally of one of said sheets substantially at the vertical centerline thereof, said inner sheet being sufficiently resilient that it may be bowed about said spacer bar to permit engagement of said clip members with said retainer bars.

2,324,711
CORD-WINDING DEVICE
Gustaf Einar Lofgren, Riverside, Conn., assignor to Electrolux Corporation, Dover, Del., a corporation of Delaware
Original application December 12, 1940, Serial No. 369,765. Divided and this application May 8, 1941, Serial No. 392,405
16 Claims. (Cl. 242—107)

1. In a cord-winding device, stationary structure, a reel rotatably mounted thereon, a spring secured to said structure and to said reel so as to be stressed by rotation of the latter, means cooperating with said reel and said structure for selectively restraining rotation of the reel relative to said structure by the stressed spring and releasing the reel for rotation, a cord,

means connected to said reel operable to secure said cord to said reel and to release it therefrom, and means for preventing the



second-mentioned means from releasing the cord when the first-mentioned means has released the reel for rotation.

2,324,712

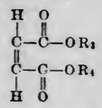
DIALKYL ESTERS OF N-SUBSTITUTED ASPARTIC ACID AND METHOD OF PREPARING THE SAME

Kathryn L. Lynch, Riverside, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application September 25, 1940, Serial No. 358,314
10 Claims. (Cl. 260—471)

1. A process for the production of dialkyl esters of N-substituted aspartic acid of the formula

in which R is a member of the group consisting of alkyl and aryl hydrocarbon radicals, and R_3 and R_4 are alkyl radicals of at least 4 carbon atoms said esters having wetting and detergent properties, which comprises reacting a primary amine having the formula $HO—R—NH_2$ in which R is as defined above, with a dialkyl ester of maleic acid of the formula



in which R_3 and R_4 are alkyl radicals of at least 4 carbon atoms.

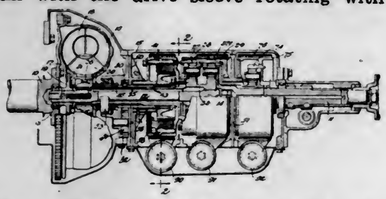
2,324,713

MOTOR VEHICLE

Forest R. McFarland, Huntington Woods, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan

Application July 29, 1942, Serial No. 452,701
10 Claims. (Cl. 74—189.5)

1. Variable speed drive mechanism comprising a drive shaft; a tail shaft; a driven shaft intermediate the drive shaft and the tail shaft; a fluid torque converter having an impeller fixed to the drive shaft, a driven member fixed to the driven shaft and a reaction member; a reaction sleeve; one-way driving means for connecting the reaction sleeve with the reaction member; an epicyclic gear train having a pinion carrier fixed to the abutment sleeve, a sun gear fixed to the driven shaft, a ring gear and pinions engaging the sun and ring gears; a drum fixed to the carrier; anchored brake means operable to engage and hold the drum; a drive sleeve connected to rotate with the converter impeller member; clutch means operable to connect the drum with the drive sleeve rotating with the



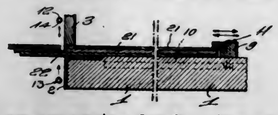
impeller member; a drum to which the ring gear is fixed; anchored brake means operable to engage and hold the ring gear carrying drum; a second epicyclic gear train having a sun gear fixed to the driven shaft, a pinion carrier fixed to the tail shaft, a ring gear fixed to the first mentioned carrier, and pinions engaging the ring gear and sun gear in the second gear train.

2,324,714

APPARATUS FOR FORMING ONE-PIECE PLYWOOD CORNER UNITS

Harold McGowan, Central Islip, N. Y., assignor of one-half to Bert Raskin, Brightwaters, N. Y.

Original application May 17, 1941, Serial No. 394,022. Divided and this application November 13, 1941, Serial No. 418,970
4 Claims. (Cl. 144—259)



1. In an apparatus for forming angular corner units from pre-channeled plywood sheets, a table, a clamping jaw extending across the top of the forward edge portion of the table to secure a pre-channeled plywood sheet thereon, with the channeled portion of the sheet disposed outwardly adjacent the forward edge of the table, a slidably adjustable gauge bar arranged on the table for engagement with the rear edge of the plywood sheet on the table, guide means for the slidably adjustable gauge bar, and upper and lower perforated steam delivery pipes arranged above and below the channeled portion of the sheet and extending for the full length of the channel for discharging steam against the channeled portion of the sheet to soften the same.

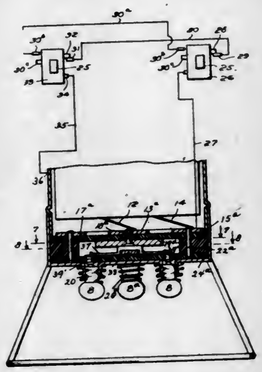
2,324,715

MULTIPLE SWITCH, MULTIPLE BULB ELECTRIC LANTERN

William M. Moxley, Kansas City, Mo.

Application April 7, 1942, Serial No. 438,019
5 Claims. (Cl. 240—10.63)

1. In a device of the character described, the combination with a lantern body. a supporting bail for the same, a pair of switches, one upon each side of the lantern body, adjacent the bail, each of said switches comprising movable members having thumb pieces positioned to be engaged by the thumb of a hand grasping the bail, a group of contacts controlled by said switches and a circuit in which said contacts are included, said contacts being so disposed that the circuit is completed when said switches occupy similar positions in either direction and is broken when



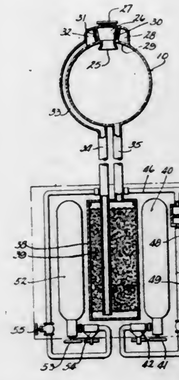
said switches occupy dissimilar positions in either direction, and a lamp socket included in said circuit and carried by the lantern body.

2,324,716

RESPIRATORY APPARATUS

Max Eugene Nohl, Milwaukee, Wis.

Application February 23, 1939, Serial No. 257,983
13 Claims. (Cl. 128—191)



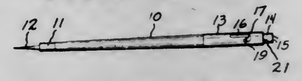
1. A respiratory system comprising means providing a closed respiratory circuit, an oxygen pressure chamber communicating with said circuit and provided with means for automatically supplying substantially constantly in accordance with the operator's requirements a predetermined admission of oxygen to said circuit, and an air pressure chamber communicating with said circuit and provided with a control valve independent of said oxygen supplying means and independently manually operable for the admission of air to said circuit for controlling the pressure therein, said air pressure chamber containing air having an oxygen content substantially corresponding to the operator's requirements, whereby the admission of air to the circuit will not upset the predetermined rate of supplying oxygen thereto, said system comprising a self-contained portable unit, all of which is assembled to be carried by a person using the system and to whom said air admitting control valve is directly accessible.

2,324,717

BEEF CARCASS PROP

Louis V. Novak, Sioux City, Iowa

Application January 17, 1942, Serial No. 427,149
3 Claims. (Cl. 17—44)



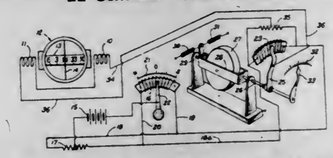
1. A beef carcass prop comprising a lengthened bar including a pointed end, said bar including a hollow tube at the further end thereof, said tube having a smooth end periphery adapted to bear against a carcass hide, and a further tube received within said tube and including a series of teeth about the end periphery thereof.

2,324,718

COMPASS COMPENSATING MEANS

Paul A. Noxon, Tenafly, N. J., assignor to Bendix Aviation Corporation, Bendix, N. J., a corporation of Delaware

Application November 29, 1940, Serial No. 367,847
11 Claims. (Cl. 33—225)



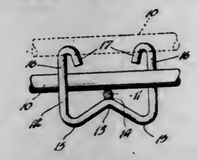
1. A method of compensating a magnetic compass for northerly turning errors due to turning of the craft on which the compass is mounted, comprising the steps of producing a magnetic field at the compass opposing the effect of the vertical component of the earth's magnetic field, and varying the intensity of said produced field in accordance with the rate of turn of said craft.

2,324,719

BAR SPACER

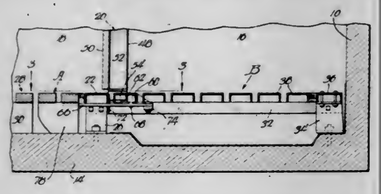
Robert J. O'Brien, Chicago, Ill.

Application December 23, 1940, Serial No. 371,243
3 Claims. (Cl. 72—122)



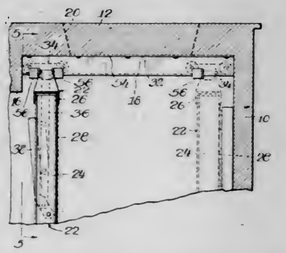
1. A structural bar spacer comprising a plurality of W-shaped bar receiving chairs and a common rod to which the chairs are rigidly connected at the central upwardly extending portion of the chair, the upward extremities of each chair extending inwardly and downwardly from the sides, and each chair extending transversely of the rod and inclined at an angle to receive a cross rod closely between the opposite sides of the chair, and the inwardly extending extremities terminating short of the cross rod inserted therein, and preventing the free removal of the rod from the chair.

2,324,720
CONVERTIBLE BULKHEAD FOR REFRIGERATOR CARS
Arthur F. O'Connor, Chicago, Ill., assignor to Union Asbestos & Rubber Company, Chicago, Ill., a corporation of Illinois
Application December 11, 1941, Serial No. 422,473
7 Claims. (Cl. 62—17)



1. In a refrigerator car having a transverse bulkhead forming a wall of an ice bunker and being movable to a stored position adjacent the end wall of the car, a fixed member on the car adjacent the floor thereof adapted to engage and limit the movement of said bulkhead in one direction, a movable abutment upon the car adjacent said fixed member adapted to engage and limit the movement of said bulkhead in the opposite direction, and a lever pivotally mounted upon the car adapted to coact with said movable abutment whereby said abutment may be selectively moved into and out of operative holding engagement with said bulkhead by manually moving said lever in opposite directions respectively.

2,324,721
CONVERTIBLE BULKHEAD FOR REFRIGERATOR CARS
Arthur F. O'Connor, Chicago, Ill., assignor to Union Asbestos & Rubber Company, Chicago, Ill., a corporation of Illinois
Application August 13, 1942, Serial No. 454,659
4 Claims. (Cl. 105—376)



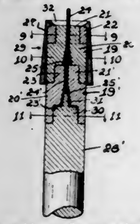
1. In a car having a transverse bulkhead movable longitudinally thereof, a track adjacent the top wall at a point removed from the side walls of the car, a roller riding on the track, lever means on the bulkhead for raising and lowering the bulkhead vertically, a member suspended from the roller connected to the lever means, a detent associated with the track intermediate its ends, a second detent on the bulkhead adapted to cooperate with said first named detent when the bulkhead is moved vertically in one direction and adapted to clear said first named detent when the bulkhead is moved vertically in the opposite direction, whereby to anchor the bulkhead and to permit movement thereof longitudinally of the car, respectively.

2,324,722
SPORT JACKET
Stanley Papierniak, Amsterdam, N. Y.
Application October 2, 1940, Serial No. 359,441
1 Claim. (Cl. 2—93)



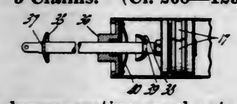
A jacket, sleeves secured to the jacket, a slide fastener for the front portion of the jacket extending from the top to the bottom thereof, pockets formed in the lower outer portion of the jacket, a container formed under one of said pockets having an opening on the side of the jacket, waterproof material secured to the walls of the container whereby said jacket may be folded to the size of the container and the container turned inside out to completely enclose the jacket, a closure flap secured to the jacket adjacent the side opening, and means on one inner side of the container for securing said flap thereto when the container is turned inside out.

2,324,723
CANDLE AND CANDLE SECTION
John M. Powers and Phillip W. Russell, Cleveland Heights, Ohio; said Russell assignor to said Powers
Application May 20, 1942, Serial No. 443,746
5 Claims. (Cl. 67—22)



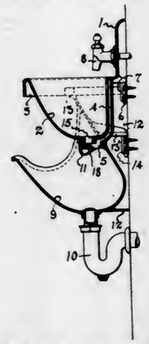
5. A candle section for extending candles and lengthening candlestubs comprising a candle body, a cylindrical recess in the bottom portion of said body, and a tubular wick ending adjacent to the bottom wall of said recess, said wick having its lower end slightly spread to form a slightly cone-shaped narrow recess extending upwardly from the central area of the bottom wall of said cylindrical recess and adapted to snugly encircle the wick of another candle section extended with its spigot into said cylindrical recess.

2,324,724
WINDOW OPERATOR
Anton Rappl, Buffalo, and Erwin C. Horton, Hamburg, N. Y., assignors to Trico Products Corporation, Buffalo, N. Y.
Application December 18, 1940, Serial No. 370,686
5 Claims. (Cl. 268—125)



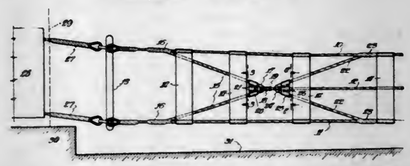
1. A window operating mechanism comprising a window, a suction operated motor having a chamber and a piston therein with a rod extending from the piston through a bearing in a wall of the chamber, the bearing being lubricated and giving sliding support to the rod, means for normally fluid balancing the piston and adapted to vent the chamber at either side to create a motivating pressure differential, means operatively connecting the rod to the window for moving the latter, an annular lip at the innerside of the bearing acting under fluid pressure differential to seal the chamber against air leakage along the rod and adapted to exhale air from the chamber, and auxiliary sealing means for the bearing consisting of a flexible surface carried by the rod exteriorly of the bearing and seating thereon about the rod to seal the clearance against air leakage when the window is closed and thereby relieve the lip from the full force of the pressure differential.

2,324,725
LAVATORY FIXTURE
Frank D. Rich, Stamford, Conn.
Application September 3, 1942, Serial No. 457,123
4 Claims. (Cl. 4—102)



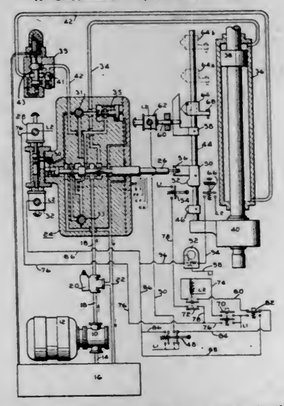
1. A lavatory fixture comprising a wash basin having a drain opening at the bottom, a urinal bowl positioned under said wash basin in alignment with said opening, and spray forming means mounted in said opening for deflecting water passing therethrough over the inner surface of said bowl.

2,324,726
YIELDING BARRIER NET
Emerson D. Sawyer, Chicago, Ill.
Application August 26, 1940, Serial No. 354,229
8 Claims. (Cl. 39—1)



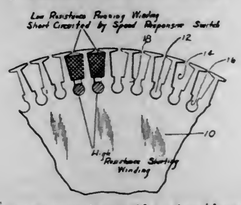
1. A flexible substantially rectangular roadway barrier net comprising a top, a bottom and an intermediate strand; a bridle member at one end of the net having its ends secured to said top and bottom strands adjacent their ends and converging thence inwardly away from the end of the net to an apex having a connection with the corresponding end of said intermediate strand which will slip under extraordinary strain.

2,324,727
POWER TRANSMISSION
Robert A. Shartle, Rockford, Ill., assignor to Vickers Incorporated, Detroit, Mich., a corporation of Michigan
Application January 10, 1941, Serial No. 373,867
2 Claims. (Cl. 60—52)



1. In a hydraulic power transmission system for step drilling the combination with a pressure source, a fluid motor and a flow controller of standardized construction normally used for operating a drill carriage through a cycle of rapid advance, feed, rapid return and stop movements, and having a single control member constituting the sole selecting means for said movements, of a dog for shifting the control member to change from rapid advance to feed carried by the carriage in yielding frictional relation thereto, means forming a positive stop to prevent further movement of the dog while the carriage advances in feeding movement, time delay means initiated in operation when the dog is stopped for shifting the controller to cause rapid return after a predetermined time interval, means controlled by the carriage at a predetermined point in its return movement for shifting the controller to cause rapid advance until the dog in its new position relative to the carriage shifts the controller to again cause feeding movement, and means controlled by the carriage after advancing to a predetermined point for immediately causing rapid return independently of the time delay means.

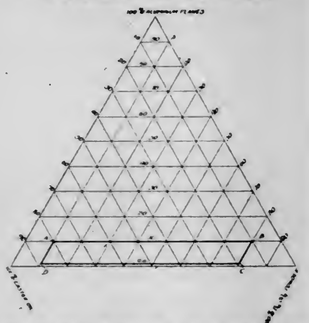
2,324,728
ALTERNATING CURRENT MOTOR
Martin Schiff, Webster Groves, Mo., assignor to Century Electric Company, St. Louis, Mo., a corporation of Missouri
Application August 4, 1940, Serial No. 351,327
1 Claim. (Cl. 172—120)



A rotor for an automatic starting alternating current motor having a plurality of relatively shallow slots therein arranged to receive a starting and a running winding, said running winding

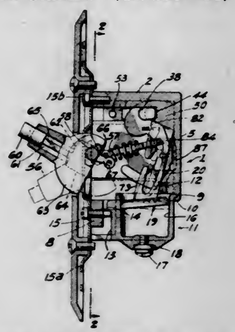
being positioned at the periphery of the rotor and said starting winding being positioned in the body of the rotor below the running winding, said slots having a depth substantially twice the tooth pitch at the periphery and an area substantially twice the tooth area, each slot being substantially twice as wide at the outer end as at the bottom, the teeth being approximately twice as wide at the base as at the neck, the tooth and slot arrangement providing a low leakage reactance during starting.

2,324,729
SEALING COMPOUND
Robert H. Schrohe and Robert W. Manuel, Chicago, Ill., assignors to Crane Co., Chicago, Ill., a corporation of Illinois
Application March 12, 1941, Serial No. 383,950
3 Claims. (Cl. 106—266)



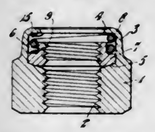
2. In a sealing cement, the combination consisting of a ternary mixture of castor oil, powdered barium sulphate, and finely divided aluminum, the barium sulphate and the castor oil being in approximately equal quantities, and the finely divided aluminum comprising ½ to 10 percent by weight of the whole.

2,324,730
DELAY ACTION MECHANISM FOR SNAP SWITCHES
Ewing L. Sharp, Hollywood, Calif., assignor to Victory Switch Co., Hollywood, Calif.
Application October 28, 1941, Serial No. 416,838
13 Claims. (Cl. 200—34)



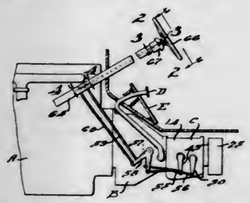
1. In a snap action switch, a manually controllable mechanism for delaying the snap action, said mechanism including a dashpot furnished with a piston head consisting of rigid disks and an intervening gasket and a piston stem consisting of a metal strip one end portion of which is angularly reduced in width thereby providing a narrowed extension and a shoulder at each side of said extension in an abutting relation to the outer face of said piston head, said extension projecting through said piston head and being angularly deflected upon the inner face of the latter thereby clamping said gasket between said disks, the metal strip which forms said stem having through it along the greater portion of its length, a slot, said slot having an offset portion forming a seat, and a spring pressed part comprising a cradle including a bridge which acts at times against said seat to move said piston against the opposition of the fluid in the dashpot, manually operable means to swing said piston stem to a position wherein the bridge of said cradle is in an engaging relation to said seat, means to automatically swing said stem to its original snap action position at the completion of each movement of the piston into the dashpot, and circuit closing and opening means actuated by said cradle.

2,324,731
SELF-LOCKING NUT AND LIKE INTERNALLY SCREW-THREADED MEMBER
Oliver Edwin Simmonds, Ripley, England
Application December 21, 1939, Serial No. 310,444
In Great Britain December 31, 1938
9 Claims. (Cl. 151—14)



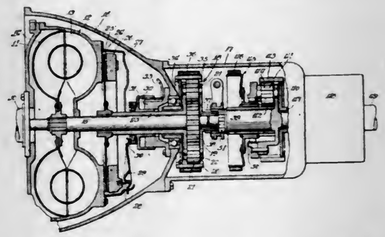
1. A self-locking nut comprising a nut body having a screw-threaded bore, a tubular extension at one end of the nut body forming a recess, a block having a corresponding screw-threaded bore housed within said recess with its threads in axial alignment but out of pitch with the threads of the nut body, means preventing relative rotary movement between the block and nut body, and resilient means which is housed between abutment surfaces on said block and on said tubular extension, which acts to urge the block towards the nut body, and which is compressed between said abutment surfaces by relative axial movement of the block when a bolt is screwed into the nut body.

2,324,732
POWER TRANSMISSION
Frederic W. Slack, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application April 7, 1941, Serial No. 387,141
2 Claims. (Cl. 74—477)



1. In a transmission control mechanism, a rotatable hollow shaft; a casing journalling said shaft; a second shaft disposed within said hollow shaft and having a portion extending outwardly thereof; means journalling the two shafts for relative rotation; a pair of collars fixed respectively to said shafts and disposed in spaced relationship; a shift lever having a portion loosely surrounding said second shaft between said collars having rounded surfaces thereon for rockably engaging the juxtaposed surfaces of said collars; said respective collars being provided with slots and said lever having lugs formed thereon for selectively engaging said slots upon rocking thereof whereby one or the other of said shafts may be rotated by swinging of said lever about the axis of said shafts; and means for selectively locking said shafts against rotation whereby simultaneous rotation thereof is prevented, said means including spring loaded means acting to normally maintain one of said shafts locked in neutral position.

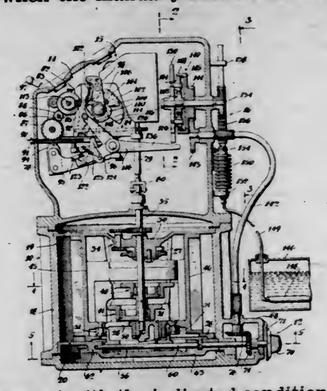
2,324,733
TRANSMISSION
Richard L. Smirl, Bellwood, Ill., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application December 2, 1940, Serial No. 368,120
5 Claims. (Cl. 74—189.5)



1. A transmission comprising a driving shaft, a driven shaft, a hydraulic coupling having a runner and an impeller, said impeller being connected to rotate with said driving shaft, a planetary gear set including planet pinions, a carrier for said pinions, a sun gear meshing with said pinions and a ring gear likewise meshing with said pinions, a shaft connecting said sun gear with said runner, a brake for said ring gear, a clutch for connecting said carrier with said impeller, and a clutch for connecting directly said carrier and said driven shaft, the transmission providing with said last named clutch engaged and when said brake is engaged and said first named clutch is disengaged a hydraulically driven low gear drive between said shafts and when said brake is disengaged and said first named clutch is engaged a direct mechanical drive between said shafts to rotate the driven shaft independently of said runner and sun gear.

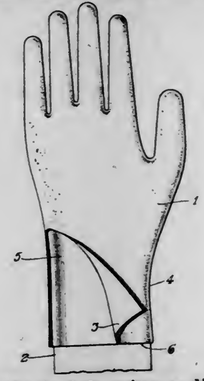
2,324,734
DISPENSING APPARATUS AND INTERLOCKING MECHANISM THEREFOR
Henry Felix Soper, East Orange, N. J., assignor to Neptune Meter Company, a corporation of New Jersey
Application October 16, 1940, Serial No. 361,355
17 Claims. (Cl. 221—101)

1. In liquid dispensing apparatus, a liquid measuring device, means to indicate the condition of liquid encountered in the operation of said device, means manually settable to vary the operation of said device in accordance with the indicated condition of said liquid, and interlocking means to prevent operation of said device except when the manually settable means is set



in agreement with the indicated condition of said liquid.

2,324,735
COMPOSITE RUBBER ARTICLE AND METHOD OF PRODUCING SAME
Abraham N. Spánel, New York, N. Y.
Application January 16, 1941, Serial No. 374,720
15 Claims. (Cl. 18—58)



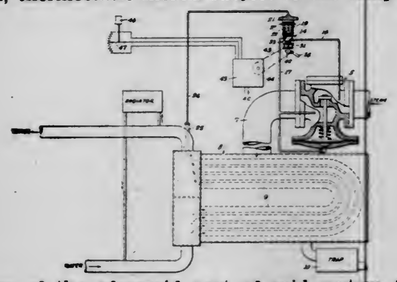
1. The method of forming a dipped latex article having alternate layers of foamed latex and of impervious latex, said method comprising alternately dipping a suitable form into unfoamed liquid latex and into liquid latex foam, the dipping into one of said kinds of latex being either before, after or intermediate the dipping into the other kind of latex, at least partly drying the deposited latex after each dipping and after the last dipping finally drying and removing the article from the form.

10. A vulcanized composite latex product formed by dipping and having a thickness of impervious latex and thickness of foamed latex, integrally combined.

2,324,736
HOT-WATER SYSTEM
Paulsen Spence, East Orange, N. J., assignor to Spence Engineering Company, Inc., Walden, N. Y., a corporation of New York
Application June 28, 1940, Serial No. 342,877
3 Claims. (Cl. 236—9)

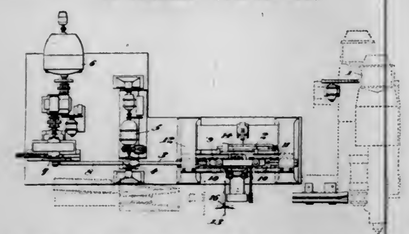
2. In a system of the character indicated,

means for controlling the supply of a heating medium to said system to vary the temperature of a part of said system, said means including valve means, loading means for a part of said valve means to actuate the same in one direction, thermostatic means subject to the temper-



ature of the aforesaid part of said system for actuating said part of said valve means in the opposite direction, and means including a second thermostatic means subject to the temperature varying demand for varying the loading on said part of said valve means.

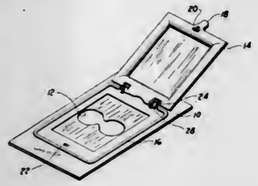
2,324,737
METHOD OF CUTTING PIPE
Richard H. Stevens and Tom Wilson, Baltimore, Md., assignors to Bethlehem Steel Company, a corporation of Pennsylvania
Original application February 5, 1941, Serial No. 377,504. Divided and this application May 5, 1942, Serial No. 441,808
11 Claims. (Cl. 29—69)



1. The method of cutting a continuously moving pipe or the like in a highly heated condition, which consists in spraying the pipe with a cooling fluid which travels forward simultaneously with the moving pipe at substantially the same speed, and then severing the pipe through the cooled area.

2,324,738
HINGED COVER FOR ELECTRICAL APPARATUS
Henry M. Stieglitz, St. Louis, Mo., assignor to Frank Adam Electric Company, St. Louis, Mo., a corporation of Missouri
Application January 12, 1942, Serial No. 426,394
4 Claims. (Cl. 220—35)

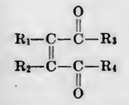
1. The combination of an opening and cover therefor comprising an opening in the housing of an electrical apparatus, a cover plate, oppositely disposed pivots on one side of said cover plate, oppositely disposed slots in the electrical housing adjacent the opening therein, hinge plates provided with openings, said openings fitted over the pivots on the cover plate and said hinge plates extending through the slots in the housing, a bar positioned at the bottom of the openings of the hinge plates and extending between opposite hinge plates, a spring between the bar and the underside of the housing serv-



ing to hold the door in closed or all open position.

2,324,739
ENAMEL COATING
William N. Stoops, Charleston, and Walter A. Denison, South Charleston, W. Va., assignors to Carbide and Carbon Chemicals Corporation, a corporation of New York
No Drawing. Application September 22, 1939, Serial No. 296,040
12 Claims. (Cl. 174—125)

1. A coated metallic article in which the coating comprises an acid-reacting vinyl resin heat-treated in place with a higher polyalkylene glycol to produce a hard, flexible, tough and adherent coating, the hydroxyl groups in said polyalkylene glycol being separated by at least three alkylene radicals joined by oxygen atoms, and said acid-reacting vinyl resin being a conjoint polymer of a vinyl compound of the structure $R.CH{=}CH_2$, where R is a radical of the group consisting of halogen, organic radicals having at least one benzene ring, and aliphatic acyloxy radicals, with an unsaturated carboxyl compound of the structure,

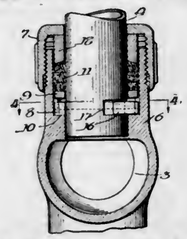


where R_1 and R_2 are radicals of the group consisting of hydrogen, lower alkyl, aryl and aralkyl, and R_3 and R_4 are radicals of the group consisting collectively of oxygen and individually of hydroxyl and lower oxyalkyl, R_3 being hydroxyl when R_4 is a lower oxyalkyl group.

2,324,740
STABILIZED LIQUID COATING COMPOSITION
William N. Stoops, Charleston, and Walter A. Denison, South Charleston, W. Va., assignors to Carbide and Carbon Chemicals Corporation, a corporation of New York
No Drawing. Application January 10, 1941, Serial No. 373,958
3 Claims. (Cl. 260—32)

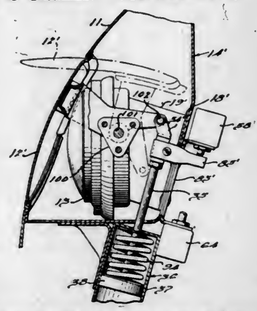
1. A liquid coating composition stabilized against gelation on storage comprising a dispersion in aqueous ammonia of a conjoint polymer of a vinyl compound of the group consisting of styrene, vinyl acetate, and vinyl chloride with a compound of the group consisting of maleic acid and maleic anhydride, and a higher polyalkylene glycol in which the hydroxyl groups are separated by at least three alkylene radicals joined by oxygen atoms.

2,324,741
SWINGING SPOUT FOR FAUCETS
John E. Svabek, Jr., Chicago, Ill., assignor to Crane Co., Chicago, Ill., a corporation of Illinois
Application October 20, 1941, Serial No. 415,693
5 Claims. (Cl. 285—97.3)



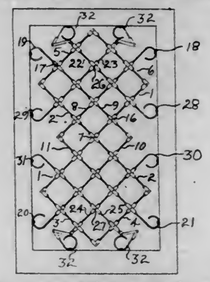
1. A swing type of mounting having limited rotatability comprising, in combination, a housing, a limitedly rotatable member journaled within the said housing, a substantially semicircular locking member peripherally engaging an interior surface portion of the said housing and non-rotatably engaging the said rotatable member, projecting means on the said locking member to engage a recessed portion of the said rotatable member at predetermined positions thereof whereby rotation of the said rotatable member beyond the end limits of the recessed portion of the said rotatable member is prevented.

2,324,742
MOTOR VEHICLE LIGHTING
Henry R. Voorhees, Detroit, and George E. Breeze, Highland Park, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application July 3, 1941, Serial No. 400,926
5 Claims. (Cl. 240—7.1)



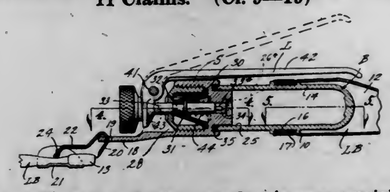
1. In a motor vehicle having a frontal surface provided with an opening, a lamp disposed rearwardly of the opening, a closure member movable between the lamp and opening to closed and opened positions respectively with respect to the latter; an electric motor, a pump adapted to be driven by said motor, a relay-controlled switch controlling operation of said motor, a fluid motor operably connected to said closure member, a conduit leading from said pump to said motor, a normally closed valve in said conduit adapted when closed to trap fluid in said motor to thereby retain the closure member in one of its said positions, electrically actuated means operable upon energization to open said valve, parallel energizing circuits for said relay-controlled switch and for said electrically actuated means, relay-controlled switch means for closing said circuits, and switch means operable incident to movement of said closure member to one of its said positions to open one of said circuits and to condition the other of said circuits for closure by said relay-controlled switch.

2,324,743
ADJUSTABLE GRILLE
Dallas Emery Walker, Tampa, Fla., assignor of one-half to Donald Everett Walker, Tampa, Fla.
Application February 21, 1941, Serial No. 380,054
10 Claims. (Cl. 20—71)



1. A grille comprising a pair of pivotally intercrossing primary base bars, two pairs of secondary base bars, the secondary base bars of each pair being pivotally connected together at one of the longitudinal ends of each of the said secondary base bars, and the other longitudinal end of one of each pair of secondary base bars being pivotally connected to the longitudinal end of one of the said intercrossing primary base bars, and the other secondary base bar of each pair having the other longitudinal end thereof pivotally connected to the longitudinal end of the other of the said interconnecting primary base bars, said primary and secondary base bars thereby forming a pair of adjustable quadrangles, attachment bars pivotally connected to the said base bars intermediate the longitudinal ends of the said base bars, attachment members mounted on the said attachment bars and positioned in spaced relation to each other, whereby the said grille may be freely adjusted to the opening of a door or window of varying size and the attachment members adjusted in alignment with the frame of the said door or window.

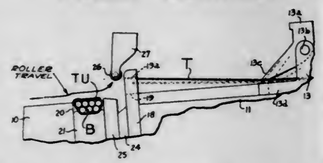
2,324,744
LIFE BELT INFLATING MECHANISM
Lawrence T. Ward, Philadelphia, Pa., assignor to Knapp-Monarch Company, St. Louis, Mo., a corporation of Missouri
Application February 10, 1942, Serial No. 430,205
11 Claims. (Cl. 9—19)



1. Life belt inflating mechanism comprising a body member having a pair of nipples at one end of and received in indivdual compartments of an inflatable life belt and adapted to receive compressed gas bulbs, said body member having a threaded opening between said bulbs, a piercing

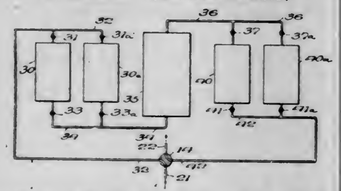
pin supporting member having means of connection with the other end of said life belt, said supporting member having a pair of piercing pins slidable therein and a bore between said piercing pins, a bolt extending through said bore and into the threads of said body member to secure the supporting member to the body member, a lever for operating each of said piercing pins, each lever being pivoted to said supporting member and having a handle extending along the outside of the body member, and means for sealing each piercing pin relative to said supporting member.

2,324,745
METHOD OF TAPING BODIES
Karl H. Weber, Toledo, Ohio
Application August 3, 1940, Serial No. 350,588
5 Claims. (Cl. 100—31)



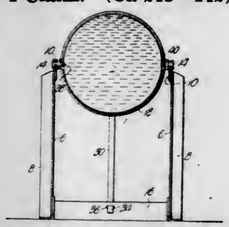
1. The method of taping loosely associated bodies with tape having one side covered with an adhesive of permanently tacky characteristics comprising holding the bodies in compacted relation on at least three sides with the tacky side of the tape by thrusting the tape and bodies into an open forming member of desired conformation and rolling the ends of the tape in one direction parallel to a fourth side whereby the tacky side on one end contacts the tacky side of the other end to form a firm holding relation and then reversing the rolling action to bring the tacky side of the second end into sticking relation with the outside of the taped portion.

2,324,746
CATALYTIC ISOMERIZATION OF PARAFFINIC HYDROCARBONS
William W. Weinrich, Oakmont, and James M. Yost, Sewickley, Pa., assignors to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware
Application August 27, 1940, Serial No. 354,452
3 Claims. (Cl. 260—683.5)



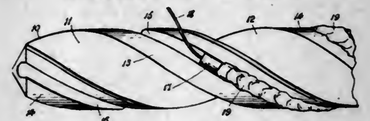
1. In the continuous vapor phase isomerization of paraffinic hydrocarbons, the steps comprising passing a gas containing a paraffinic hydrocarbon and a hydrogen halide through a series of beds of solid supported aluminum halide catalyst comprising a first small bed, a large bed and a second small bed, said small beds each being about one quarter to three quarters the size of said large bed, maintaining the first small bed and the large bed at an isomerization temperature and the second small bed at an aluminum halide-condensing temperature, continuing the flow of gas until the concentration of aluminum halide in said second small bed reaches a value in excess of the concentration of aluminum halide in said large bed and not greater than about 35 per cent by weight and the concentration of aluminum halide in said large bed is at least about as great as its initial value, then diverting the flow of said gas through a second series of beds comprising a first small bed, said large bed and a second small bed, said small beds each being about one quarter to three quarters the size of said large bed and said first small bed and said large bed being maintained at an isomerization temperature and said second small bed at an aluminum halide-condensing temperature, continuing the flow of gas until the concentration of aluminum halide in the second small bed reaches a value in excess of the concentration of aluminum halide in said large bed and not greater than about 35 per cent by weight and the concentration in said large bed is at least about as great as its initial concentration, then passing the gas through said first series of beds in a direction opposite to the previous flow through said beds, while maintaining the first two beds through which the gas passes at an isomerization temperature and the third bed at an aluminum halide-condensing temperature, continuing the flow of gas until the aluminum halide concentrations in the respective beds have been adjusted substantially to the proportions existing therein at the start of the previous run through said beds, then passing said gas through the second series of beds in a direction opposite to the previous direction of flow through said beds while maintaining the first two beds through which the gas passes at an isomerization temperature and the third bed at an aluminum halide-condensing temperature, and continuing the flow of gas until the aluminum halide concentrations in the respective beds have been adjusted substantially to the proportions existing therein at the start of the previous run through said beds.

2,324,747
DRUM RACK
Gerald E. Weissert, Kansas City, Mo., assignor to Sewall Paint & Varnish Company, Kansas City, Mo., a corporation of Missouri
Application June 10, 1940, Serial No. 339,726
1 Claim. (Cl. 248—142)



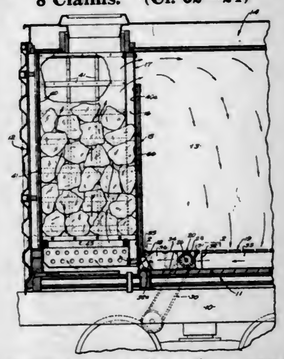
In a rack of the character described, in combination with a drum having diametrically opposed holes and plugs in the holes each provided with annular grooves, a pair of spaced, vertical, triangular plates each having outturned flanges along its face and sides and a bearing notch at its apex; tie-bars joining the bases of said plates to hold the same in fixed spaced apart relation; and means joining one of the tie bars and said drum to prevent rotation of the same about the axes of the plugs when the plugs are engaged within the notches of the plates, the marginal edges of said plates at the notches thereof being within the annular grooves of the plugs whereby the drum and said plugs serve as the means for maintaining the apexes of the plates in fixed spaced apart relation.

2,324,748
DRILL
Rodney R. Welch, Detroit, Mich.
Application August 14, 1941, Serial No. 406,767
4 Claims. (Cl. 76—108)



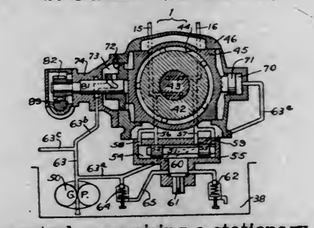
1. The method of producing an oil hole in the land of a drill, which comprises forming a groove in the outer surface of the said land, drawing an abbreviated filler in the form of a plug progressively along the bed of said groove, said filler being of a refractory material which resists adhesion of weld material thereto, progressively roofing said groove with weld material over said filler as said filler is moved along said groove, the progression of the welding and the movement of said filler being substantially at equal speed, and thereafter grinding off excess material from the outer surface of said land.

2,324,749
REFRIGERATOR SYSTEM FOR CARS AND THE LIKE
Herbert J. Wieden, Los Angeles, Calif., assignor to Pacific Railway Equipment Company, Los Angeles, Calif., a corporation of California
Application April 26, 1941, Serial No. 390,548
8 Claims. (Cl. 62—24)



1. In refrigerating systems for a car or the like which has floor, roof and fixed side and end walls, a transverse bulkhead dividing the car interior into a load compartment and an ice bunker at the end of that compartment, air circulation openings between the load compartment and the bunker at the upper and lower ends of the bulkhead and extending across substantially the full width of the car, and a lading floor spaced over the floor of the load compartment; the improvement which is characterized by the ice receiving bunker being directly delimited and walled by the bulkhead and by the fixed end and side walls of the car, all of said bunker delimiting walls being non-apertured and interiorly surfaced to withstand direct contact with a charge of ice and to be impervious to moisture, the side-defining surfaced walls of the bunker being substantially flush with the inner faces of the car side walls which delimit the load compartment, the interior space of the ice bunker which is delimited and bounded by its said surfaced walls being wholly open and unobstructed to receive an ice charge completely filling its horizontal cross-section, all so that there are no air flue spaces through which air may flow vertically around the ice charge, the external car walls which enclose the bunker being heat insulated to that degree which will prevent any substantial meltage of the ice charge adjacent and against those walls due to heat conduction therethrough, there being means for impelling an air current in a single closed flow circuit through the upper and lower circulation openings, the ice bunker and the load compartment, said means including an air impeller unit located in the space between the levels of the lading rack and the floor and acting to propel an air flow, of substantially the full car width, longitudinally of said space, and means at the level of the lading rack confining the air flow below that level between the impeller unit and the lower circulation opening at the bulkhead, there being an ice supporting grate in said delimited ice bunker permanently located at the substantial level of the lading rack and substantially filling the horizontal cross-section of said bunker, and the bulkhead being movable between its position in which it separates the ice bunker from the load compartment and a position in which it is approximately against the end wall of the car, and releasable means for securing the bulkhead in either of its stated positions.

2,324,750
CONTROL FOR HYDRODYNAMIC MACHINES
Ernst Wiedmann, Milwaukee, Wis., assignor to The Oilgear Company, Milwaukee, Wis., a corporation of Wisconsin
Application September 14, 1938, Serial No. 229,825
20 Claims. (Cl. 121—41)

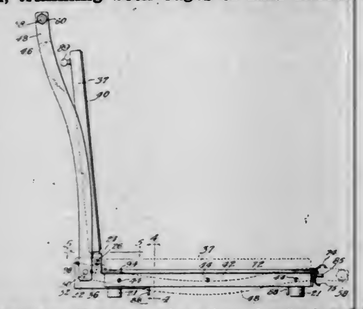


1. A control, comprising a stationary cylinder, a piston fitted in said cylinder, means for supplying motive liquid to said cylinder to move said piston, valve mechanism for controlling the flow of liquid to and from said cylinder, and means for operating said valve mechanism at a uniform rate, said valve mechanism having cooperating ports and passages so arranged as to vary the flow of liquid to and from said cylinder according to a predetermined schedule and thereby cause the movement of said piston to be varied according to said schedule during operation of said valve mechanism at said uniform rate.

2,324,751
SHEET TRIMMING AND HANDLING DEVICE
Robert Alonzo Williams, Chicago, and William S. Cochran, Evanston, Ill., assignors to Ditto, Incorporated, Chicago, Ill., a corporation of West Virginia
Application March 1, 1941, Serial No. 381,270
5 Claims. (Cl. 164—45)

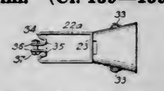
1. A method of forming groups of strips of paper in stacked relationship from sheets made up of strips connected together at their ends by integral sheet portions but separated by slitting at their intermediate portions and of handling the same in groups by engagement with register-

ing openings in the strips, which comprises the steps of stacking a plurality of the partially slitted sheets above one another so that the partially formed strips are in alignment with each other and the openings in the strips are registered, trimming both edges of said sheets while



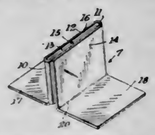
maintaining the same in aligned relationship so as to divide each sheet into a plurality of separate strips, and removing each of the resulting groups of strips as a unit by engagement with said registered openings.

2,324,752
PICKER
Charles Walter Yelm, Denver, Colo., assignor to The Gates Rubber Company, Denver, Colo., a corporation of Colorado
Application October 16, 1941, Serial No. 415,175
1 Claim. (Cl. 139—159)



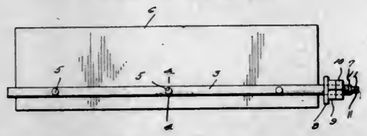
A picker comprising, in combination a cup-like holder for the reception of a picker body, and means extending from the closed end of the holder for securing it to a picker staff, said means comprising two spaced, substantially parallel plates having their ends bent towards each other and substantially S-shape, the extreme ends being adjacent the center and provided with openings for a bolt.

2,324,753
CANDLE LAMP AND WICK HOLDER THEREFOR
Hermes Alexiade, Brooklyn, N. Y.
Application November 24, 1941, Serial No. 420,162
1 Claim. (Cl. 67—21)



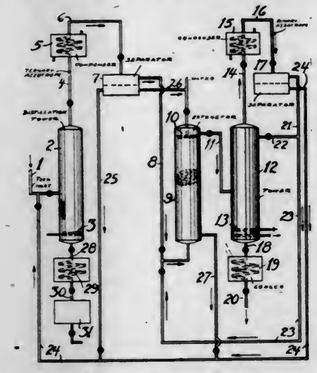
A wick-holder comprising a sheet metal blank divided into three rectangular portions and foldable into flat tubular formation with the intermediate rectangle forming one flat wall of the tube and the two end rectangular portions overlapping each other and together forming the other flat wall of the tube, a lateral extension on the intermediate rectangular portion and a lateral extension on one of the end rectangular portions, said extensions being foldable at right angles to their respective rectangular portions to form supports for the wick tube.

2,324,754
WIND BOARD
Oliver M. Barber, Visalia, Calif.
Application June 20, 1941, Serial No. 399,018
1 Claim. (Cl. 209—154)



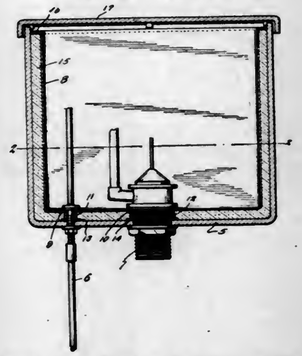
A wind board comprising, a shaft journaled for rotary adjustment in two opposed walls of a grain separating machine, a board fixed on the shaft, said shaft including a threaded end portion projecting outwardly from one of said walls and having flat opposite side portions, a washer on the shaft engageable with said one wall, a nut threaded on said threaded end portion of the shaft and engaged with the washer for clamping said one wall of the machine between said washer and the board for frictionally securing said shaft in adjusted position, and a lock nut threaded on the shaft and engaged with the first-named nut, the flat side portions of the shaft projecting beyond the nuts for receiving a holding tool for retaining said shaft against rotation when said nuts are turned.

2,324,755
DISTILLATION PROCESS
Clayton M. Beamer, Roselle, N. J., assignor to Standard Alcohol Company
Application June 14, 1940, Serial No. 340,528
4 Claims. (Cl. 202—42)



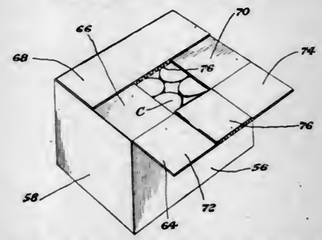
1. The process for the separation of isopropyl ether from a crude mixture containing isopropyl ether, isopropyl alcohol and water, one of these ingredients being present in excess of that contained in a constant boiling mixture, which comprises distilling said mixture to separate vapor having a constant boiling mixture, condensing the vapor so formed, allowing the condensate to stratify into a lower layer consisting mainly of water and into an upper layer consisting mainly of the isopropyl ether and isopropyl alcohol, extracting the isopropyl alcohol from the ether of the upper layer by passing said upper layer upwardly through an absorption tower countercurrently to a stream of water from the water layer to leave the ether with any entrained water, vaporizing the entrained water from said extracted ether, and recovering the thus treated ether whereby ether substantially free from the alcohol and water is obtained.

2,324,756
FLUSH TANK
Charles P. Bombard, Hudson Falls, N. Y., assignor of one-half to Milton A. Schweitzer, Albany, N. Y.
Application May 25, 1942, Serial No. 444,457
2 Claims. (Cl. 4—68)



1. A tank including a bottom, walls and an open top, said bottom having water inlet and drain pipes extending therethrough, a lining in the tank including a bottom and walls and also having openings in the bottom receiving said pipes, said walls of the lining being spaced from the walls of the tank, collars spacing the bottom of the lining from the bottom of the tank and surrounding the respective pipes, and an insulation filler between the lining and the tank.

2,324,757
CARTON, CARTON BLANK, AND METHOD OF MAKING THE SAME
Richard M. Botley, Honolulu, Territory of Hawaii, assignor to Hawaiian Pineapple Company, Limited, Honolulu, Territory of Hawaii, a corporation of Hawaii
Application June 3, 1941, Serial No. 396,429
7 Claims. (Cl. 229—37)

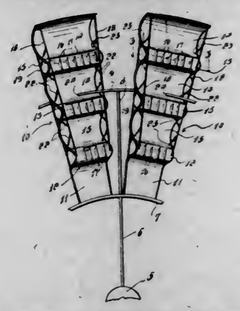


1. A carton for packaging articles which includes side and end walls, pairs of opposed inner flaps connected to the top and bottom edges of an opposite pair of said walls and adapted to fold inwardly thereof, and oppositely extending outer flaps connected to said walls and adapted to be folded inwardly thereof to rest upon the outer surface of the top and bottom pairs of inner flaps, respectively, and to be sealed thereto to form the top and bottom walls of the carton, said side and end walls and said flaps being each formed of a multi-ply, fibrous, sheet material which includes at least one corrugated ply, said corrugated ply, in said flaps only and prior to sealing of said flaps, throughout said inner flaps and throughout at least the areas of said outer flaps which overlie said inner flaps when the flaps are folded over and sealed together in operative position, having its individual corrugations thoroughly flattened and crushed down to an extent sufficient to reduce the thickness of said crushed flap portions to not more than substantially one-half the thickness of the sheet material uncrushed.

2,324,758
MODIFIED PHENOLIC RESIN AND METHOD OF PRODUCTION
Charles W. Bowden, Jr., Swarthmore, Pa., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 6, 1940, Serial No. 355,611
19 Claims. (Cl. 260—25)

1. A molding resin comprising the product of simultaneous reaction of a mixture consisting essentially of a phenol, an aldehyde and extracted pine wood pitch, the said pitch being characterized by substantial insolubility in petroleum hydrocarbons and comprising a residue low in abietic acid remaining after the separation of refined rosin high in abietic acid from the resinous material obtained by extraction of pine wood with a solvent.

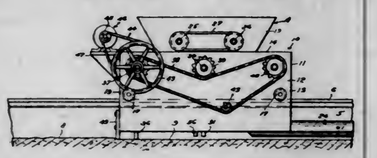
2,324,759
WIND WHEEL AND BLADE THEREFOR
Bryan Brassell, Puerto de Luna, N. Mex.
Application March 4, 1941, Serial No. 381,741
10 Claims. (Cl. 170—79)



1. In windwheel structures, wherein the blades extend radially of the wheel and the width of the blade is located angularly to the rotation path of the wheel, a sheet metal blade formation including a pair of adjacent zonal surfaces having their respective directions of length extending in general parallelism and transversely to the radial blade length of the wheel, one of said zonal surfaces being concave in cross-section of its length dimension with the concave facing the direction of approaching air flow to the wheel, the other of said zonal surfaces having a succession of generally-similar perforations or openings with the succession extending in the direction of length of the zone and with each perforation or opening having a bent wall extending rearwardly of the perforation or opening, the wall bend extending in the direction of the radial blade length of the wheel, the bottom of the concave zonal surface and the top of the perforated zonal surface of a blade extending in substantially parallel planes spaced apart a material distance to thereby provide a material depth to the concavity of the concave zonal surface, bracing rods extending radially of the blade in such planes, and diagonally-extending bracing mem-

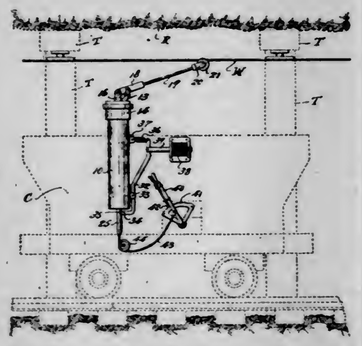
bers extending between such planes and connected to the bracing rods of both planes, said bracing rods and bracing members with the bent walls serving to brace the blade against blade buckling under wind pressure during service.

2,324,760
PIPE FORMER AND LAYER
Joseph E. Brulotte, Yakima, Wash.
Application May 28, 1942, Serial No. 444,931
3 Claims. (Cl. 25—32)



1. A machine for forming a cradle in the floor of a ditch and forming and laying a continuous concrete pipe in the cradle formed of upper and lower sections, said machine comprising a casing to depend into the ditch, means supporting the casing from the surface of the ground for movement along the ditch, a digger depending from the forepart of the casing to produce a semicircular cradle in the floor of the ditch, a forward vertically reciprocating tamp for shaping and compacting the cradle, a fluid concrete hopper having a forward nozzle discharging into said cradle to the rear of said forward tamp, an intermediate vertically reciprocable tamp to the rear of said forward nozzle, a shaper located in front of said intermediate tamp to roughly shape the laid concrete in the cradle to the internal contour of the lower pipe section, said intermediate tamp operating to compact the internal contour of the lower pipe section, power means operating said tamps, and upper section forming means on said casing to the rear of said intermediate tamp.

2,324,761
TROLLEY RETRIEVER MECHANISM
Joseph Budner, Newark, N. J., assignor of one-half to Edward Rudolf, Newark, N. J.
Application April 21, 1942, Serial No. 439,848
9 Claims. (Cl. 191—85)

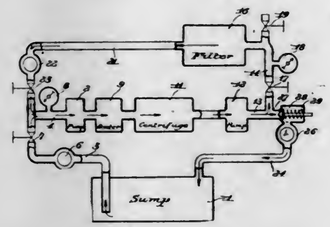


1. Trolley control and retriever mechanism comprising a turn-table plate having a fulcrum bracket, trolley means having its rear end portion fulcrumed on said bracket, a spring actuated control plunger means to which the rear end of said trolley means is pivotally coupled, said control plunger means being adapted to bias said trolley means to up-swung trolley wire engaging position, a spring actuated retriever plunger means opposed to said control plunger means in overpowering relation thereto, and an electro-mechanical detent means to normally hold said retriever plunger means in inactive relation to said control plunger means when energized by current served through the trolley wire engaged trolley means but adapted to be deenergized and released when operative contact between the trolley means and trolley wire is interrupted, whereby to release said retriever plunger means for overpowering thrust upon said control plunger means operative to move said trolley means to down-swung out-of-service position.

2,324,762
ISOMERIZATION PROCESS
Van B. Calhoun and Kenneth C. Laughlin, Baton Rouge, La., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application November 30, 1940, Serial No. 367,951
9 Claims. (Cl. 260—683.5)

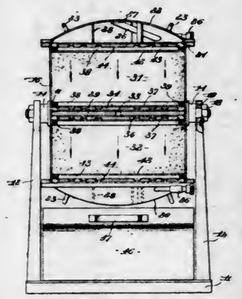
1. A process for isomerizing paraffinic hydrocarbons which comprises contacting at least one paraffinic hydrocarbon containing at least four carbon atoms per molecule with a catalyst composition comprising a hydrofluoric-acid-treated mineral-acid-treated clay containing at least one metal taken from the eighth group, fourth series, of the periodic table in the presence of added free hydrogen under isomerization reaction conditions.

2,324,763
METHOD AND APPARATUS FOR OIL PURIFICATION
Eben Hunter Carruthers, Seneca Falls, N. Y., assignor, by mesne assignments, to The Sharples Corporation, Philadelphia, Pa., a corporation of Delaware
Application April 17, 1940, Serial No. 330,146
7 Claims. (Cl. 210—62)



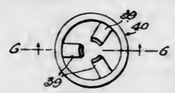
1. In a purification system having a source of contaminated liquid, in combination, centrifugal separator means, a filter, means for passing liquid from said source to said centrifugal separator means, means for passing a part of said liquid from said centrifugal separator means through said filter, means for passing the filtered liquid back to said source, and means for passing another part of said liquid from said centrifugal separator means back to said source without passing it through said filter, said means for passing said filtered liquid back to said source including centrifugal separator means through which said liquid is adapted to be passed in flowing from said filter to said source.

2,324,764
FILTER CONSTRUCTION AND METHOD OF FILTERING
Eben Hunter Carruthers, Astoria, Oreg., and Henry Tyson Moore, Drexel Hill, Pa., assignors, by mesne assignments, to The Sharples Corporation, Philadelphia, Pa., a corporation of Delaware
Application August 14, 1940, Serial No. 352,560
3 Claims. (Cl. 210—137)



1. A method of filtering in which the filter has at least two filter beds and inlet and outlet connections for the liquid to be filtered which comprises, arranging the filter beds and connections so that the liquid flows through the filter beds in series, replacing the filtering material in the first bed of said series with fresh filtering material when it becomes spent, and then rearranging the connections so that the liquid flows first through a filter bed in which the filtering material is partly used and later through a filter bed containing the fresh filtering material.

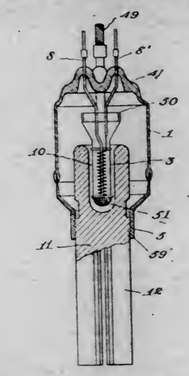
2,324,765
SURPLUS FILL DRAWOFF MEANS
La Verne Edward Clifcorn, Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application December 31, 1941, Serial No. 425,219
14 Claims. (Cl. 226—22)



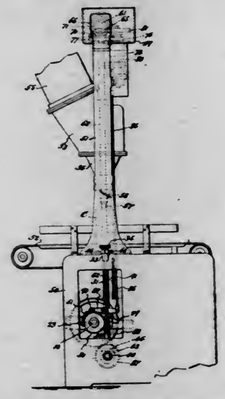
6. In apparatus for drawing off surplus fill from filled containers, a liquid draw-off means including a tubular extremity terminating in a surface tension breaking feathered edge disposable at the intended fill level in a container, and suction duct means through which surplus fill can be drawn off through said tubular extremity.

2,324,766
ELECTRON DISCHARGE DEVICE
Georges Paul Chevigny, New York, N. Y., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application May 23, 1941, Serial No. 394,796
In France May 28, 1940
3 Claims. (Cl. 250—27.5)

1. A symmetrical electron discharge device adapted for ultra high frequency operation comprising an evacuated vessel having a generally cylindrical side wall of insulating material and a pair of end walls, a cathode coaxially located within the side wall, a control grid concentrically surrounding the cathode within the vessel, said grid and cathode having electrical connections passing through and sealed to the insulating material of one of said end walls, and the other end wall being formed by a metallic anode, said anode having a cylindrical portion protruding into the vessel and concentrically surrounding the grid and a sleeve sealed to the insulating side wall.

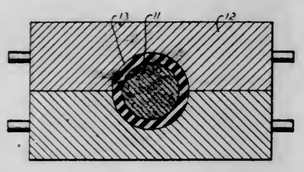


2,324,767
VARIABLE CAM MECHANISM
Omer E. Cote, Providence, R. I., assignor to United States Automatic Box Machinery Co., Inc., Roslindale, Mass., a corporation of Massachusetts
Application April 17, 1942, Serial No. 439,344
12 Claims. (Cl. 74—568)



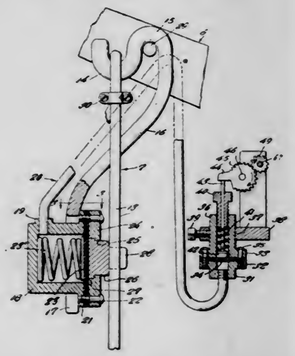
1. The combination with a rotatable shaft of a main cam member fixed thereon to rotate therewith, a cam extension segment pivotally connected with the trailing end of said main cam member, said segment, when held in outswung operative position, being adapted to extend the effective peripheral surface of said cam member, and segment supporting and releasing means pivoted on and adjustable about said shaft, said means being rotatively adjustable to variably support said segment in and release the same from outswung position, whereby to increase or decrease at will the total length of effective cam surface.

2,324,768
LIQUID GOLF BALL CORE
Richard A. Crawford, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application June 7, 1940, Serial No. 339,329
10 Claims. (Cl. 154—18)



1. The method of making a liquid core for a resilient ball which comprises forming the core from a moldable material capable of being chemically converted to a liquid and chemically converting the moldable material to a liquid by a subsequent chemical reaction, thereby changing the chemical constitution of the material.

2,324,769
LOAD WEIGHING AND TOTALING DEVICE FOR CRANES, HOISTS, AND THE LIKE
Stephen H. Davis, Chicago, Ill., assignor of one-fourth to W. C. Revis and one-fourth to J. H. Davis, both of Chicago, Ill.
Application July 24, 1940, Serial No. 347,287
5 Claims. (Cl. 265—1.6)

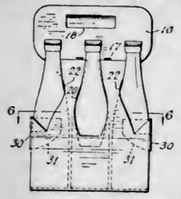


1. A device of the character described for use with hoisting apparatus including a hoisting cable loop one side of which terminates in a free end, said device comprising a lever adapted for pivoting on and suspension from said apparatus and having a lateral upper end arm for connection of said free end of the cable loop thereto whereby a load on the cable tends to swing the lower end of said lever toward said one side of said loop, a fluid containing housing fixed on the lower end of said lever to swing therewith, a plunger working in said housing and adapted to be pressed against said side of the cable loop by swinging of said lower end of the lever and housing toward said one side of the loop whereby said plunger is forced inwardly of the housing to create hydraulic pressure in the latter, and weight indicating means comprising a scale, a pointer movable over said scale, and hydraulically operated means to move said pointer operative by hydraulic pressure created in said housing.

2,324,770
LOW TEMPERATURE HYDRAULIC MEDIUM
Theodore R. Donlan, Union, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application January 2, 1941, Serial No. 372,895
3 Claims. (Cl. 252—76)

1. A liquid composition suitable for use in heat exchange and pressure transmitting devices comprising a mixture of an aliphatic alcohol containing up to 6 carbon atoms in the molecule and water as the main ingredients and a quantity of a phthalate of a metal above aluminum in the electromotive series in corrosion-inhibiting proportions, which phthalate has no substituted components on the benzene ring.

2,324,771
BOTTLE CARTON
Otto Fiore, Grantwood, N. J.
Application September 3, 1941, Serial No. 409,343
3 Claims. (Cl. 224—45)

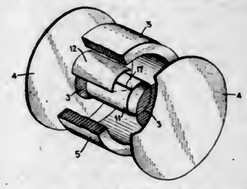


1. A collapsible carton for bottles having shoulder portions formed from a blank of material folded upon itself intermediate its ends to provide opposed sections with the latter scored transversely to form a base portion and opposed intermediate and handle portions all constituting an open-ended compartment the side walls of which are formed from said intermediate portions and the handle portions of which are secured together in face-to-face relationship at the top, each of the intermediate portions adjacent its handle portion being cut transversely inwardly from its outer longitudinal edge and then downwardly for a part of its length to provide article retaining strips having free upper ends, and the outer edges of said strips being continuations of the longitudinal edges of said blank of material, transverse fold lines at the other lower ends of said strips, means to secure together the said opposed strips adjacent the free ends thereof, other transverse fold lines adjacent said securing means, and further fold lines in said strips adjacent the first named transverse fold lines and extending diagonally relative thereto, said strips, when connected by said securing means and with the carton in erected position, being pivotally movable about said diagonal fold lines to positions in which the strips combine to extend across the adjacent open end of said compartment.

2,324,772
ELECTRON DISCHARGE APPARATUS
William Thomas Gibson, London, England, assignor to International Standard Electric Corporation, New York, N. Y.
Application May 8, 1940, Serial No. 333,943
In Great Britain June 9, 1939
3 Claims. (Cl. 250—27.5)

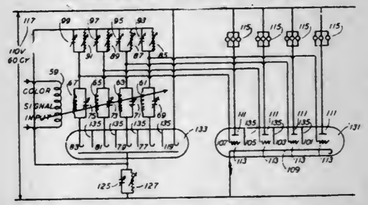
1. In an evacuated vessel, a generally cylindrical electrode having a generally longitudinally extending aperture, a cathode outside said cylindrical electrode, means for passing electrons

emitted from said cathode thru said aperture, and means for producing a magnetic field within



said electrode and substantially coaxial therewith.

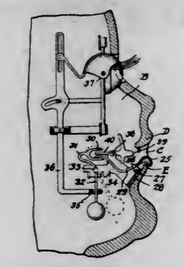
2,324,773
COLOR REPRODUCTION
Maxwell K. Goldstein, Washington, D. C.
Original application June 4, 1935, Serial No. 24,786. Divided and this application November 27, 1939, Serial No. 306,341
11 Claims. (Cl. 177—346)



1. A system for interpreting electrical impulses in terms of color which comprises a source of impulses external to said system, said impulses having varying amplitude and frequency, means comprising a plurality of frequency selective circuits for segregating said impulses in accordance with the frequency thereof, means associated with each of said frequency selective circuits to produce a direct current potential which varies in magnitude with the intensity of the impulses in the associated frequency selective circuit, a plurality of sources of light each capable of producing a color differing from the others, a plurality of discharge devices each having a cathode section, anode and control electrode a source of alternating current potential, means for impressing said alternating current potential, on said anodes with respect to said cathode sections, means for periodically rendering said control electrodes negative with respect to said cathode sections and means for impressing the direct current potentials developed in connection with each of said frequency selective circuits, upon the grid of one of said discharge devices to alter the conductivity thereof in accordance with said impressed direct current potentials, said sources of light being connected to respond to said changes in conductivity of said discharge devices.

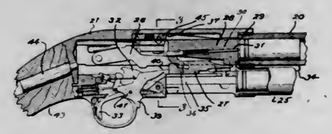
2,324,774
MOVABLE LIP FOR TOY FIGURES AND MEANS FOR ACTUATING THE SAME
Beulah Louise Henry, New York, N. Y.
Application November 21, 1941, Serial No. 419,818
4 Claims. (Cl. 46—171)

1. In a doll, a manikin or the like, a head formed with an opening having spaced opposite edges defining a mouth, a lip element comprising a longitudinally extending forward portion of concavo-convex formation in cross section disposed in covering relation with one edge portion of said mouth opening, laterally projecting trunnions pivotally mounting the lip element at the opposite ends thereof for movement towards and away from the other edge portion of said mouth opening without uncovering the edge thereof covered by the lip element so as to simulate opening and



closing of the mouth, and means operatively connected with said lip element for rocking the same on the trunnions.

2,324,775
FIREARM
Robert A. A. Hentschel, Easton, Conn., assignor to Remington Arms Company, Inc., a corporation of Delaware
Application January 31, 1941, Serial No. 376,715
6 Claims. (Cl. 42—2)



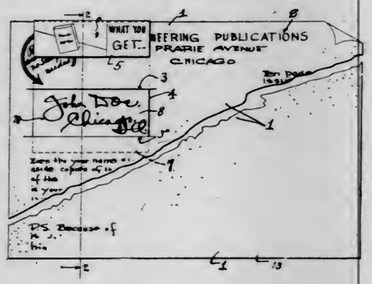
1. A firearm having a barrel; operating parts associated with said barrel; and a die cast receiver with a specific gravity of less than 3½ serving as a support for at least some of said operating parts, said receiver having an insert of hard wear-resistant metal at a point of particular stress.

2,324,776
VACUUM TUBE
Rudolf C. Hergenrother, Beechhurst, N. Y., assignor to Hazeltine Corporation, a corporation of Delaware
Application March 8, 1941, Serial No. 382,279
11 Claims. (Cl. 250—27.5)



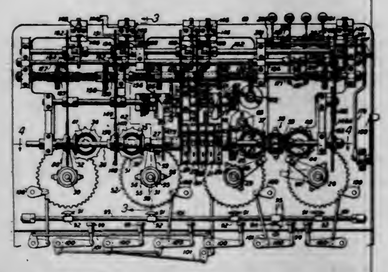
11. A vacuum tube comprising, a cathode having an electron-emissive surface over only a portion of the area thereof, a pair of planar anodes supported in spaced relation to said cathode and on opposite sides thereof with the planes of said anodes substantially coincident with each other and including the axis of said cathode, and a pair of planar control electrodes supported in spaced opposing relation to said cathode and on opposite sides thereof with the planes of said control electrodes substantially parallel with each other and with the plane of said anodes.

2,324,777
MAILING PIECE
Walter A. Holmstrom, Blue Island, Ill., assignor to Domestic Engineering Company, Chicago, Ill.
Application August 18, 1941, Serial No. 407,367
2 Claims. (Cl. 229—92.8)



1. An addressing or mailing piece, comprising a letter sheet having like spaced slits extending parallel with and near the top edge of the sheet, a self-addressed reply card of suitable width inserted through the aforesaid slits with the main body of the card concealed behind this portion of the letter sheet between the aforesaid slits and having a blank space on the portion of the card exposed between the slits to receive the address of the person to whom the mailing piece has been sent, an end flap integral with but scored from the rest of the card and folded down over the top of the letter sheet to hold the card in the desired position and to expose advertising matter on the flap, said flap also being readily detachable along the scored line before mailing of the reply card.

2,324,778
INTEGRATING AND TOTAL DISPLAYING MECHANISM FOR TOTALIZATORS
George Alfred Julius and Awdry Francis Julius, Sydney, New South Wales, Australia
Application March 24, 1941, Serial No. 384,997
In Australia April 26, 1940
11 Claims. (Cl. 177—351)

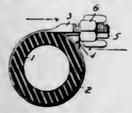


1. Totalizator integrating and total displaying mechanism which includes a counting element, a gear train, means whereby actuation of said train is governed by movements of said counting element, driving means which at all times of operation urge actuation of said gear train, a ratchet cam wheel adapted for rotation by a member of said gear train, a pair of switch contacts closable by said cam wheel, a figure element having a blank space thereon, means responsive to a closure of said contacts whereby said figure element is caused to effect a figure change, devices whereby said ratchet cam wheel may be part rotated independently of said gear train, and a tooth on said cam wheel whereby operation of said devices enables said tooth to effect a closure of said contacts.

2,324,779
MOTOR FUEL
Charles B. Kass, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application July 25, 1940, Serial No. 347,484
3 Claims. (Cl. 44—69)

1. A motor fuel for spark-ignition engines, comprising a gasoline base fuel blended with from 0.5 cc. to 5 cc. per gallon of lead alkyl antiknock agent, and with from 0.005% to 0.2%, by weight of the fuel composition, of an alkyl nitrate containing from 3 to 6 carbon atoms per molecule.

2,324,780
HOSE CLAMP
James T. King, Burbank, Calif.
Application February 24, 1942, Serial No. 432,132
6 Claims. (Cl. 24—19)

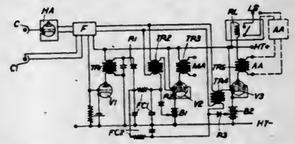


6. A hose clamp comprising a flat flexible band to encircle a hose and including two end extensions, one of said extensions having an upturned end constituting an abutment, a threaded rod-like member of semi-circular cross section having its longitudinal flat face lying on said one of said end extensions and its outer end lying against the abutment of the same end extension, means permanently uniting said threaded rod-like member to its end extension, the other end extension being bent backwardly to lie at an acute angle to the band proper, a non-threaded rod-like member of a cross section such as to provide a flat longitudinal face to overlie said other extension in contact with the same and having an abutment, a nut to fit on said threaded rod-like member, said non-threaded rod-like member having a portion in advance of the abutment of a size to fit within said nut when the nut is on said threaded rod-like member, said nut serving to hold said rod-like members together and to engage said abutment, said rod-like members, when the clamp is in use, lying approximately tangent to the band, by virtue of all of which when the nut is tightened tension will be applied to said band throughout approximately 360° of clamping surface.

2,324,781
ARRANGEMENT FOR THE REPRODUCTION OF SOUND
Otto Kurt Kolb and David Whitehead Boston, London, England, assignors to British Acoustic Films Limited, London, England, a British company
Application March 19, 1942, Serial No. 435,332
In Great Britain April 4, 1941
7 Claims. (Cl. 179—100.3)

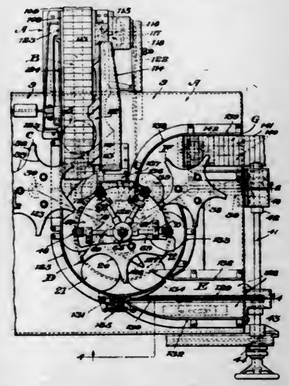
1. Apparatus for reproducing sound from film records such as are provided with at least one control track in line with the sprocket holes of the film in addition to the sound record track

thereon, said apparatus comprising means for deriving a sound current from said sound record track, means for deriving a control current from said control track, a main amplifier and an additional amplifier, a control unit including a first amplifying valve, means for applying said control current to the grid of said valve, a transformer tuned to a frequency corresponding to the rate at which the sprocket holes in the film which are in line with the control track pass through the apparatus means for applying the



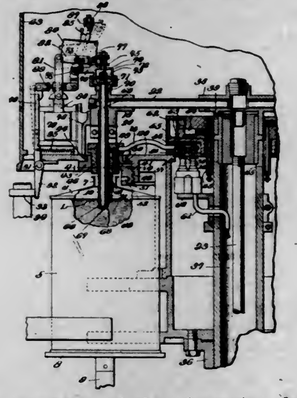
output of said valve to said transformer, a rectifier connected to the output of said transformer, a second valve of a type adapted for variably controlled amplification, means for applying the output of said rectifier as a grid bias control to a grid circuit of said second valve, means for applying sound current to the input of said second valve, and means for applying the output of said second valve to the input of said additional amplifier.

2,324,782
CONTAINER FILL CHECKING MACHINE
Alfred L. Kronquest, Syracuse, N. Y., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application December 19, 1941, Serial No. 423,697
16 Claims. (Cl. 226—22)



1. In a machine of the character described, container supporting means, a tester unit including a support and suction tube and electrode means depending from said support, means for bringing about relative movement between said support and said supporting means to cause said tube and electrode means to depend in a container on the supporting means down to a predetermined normal liquid fill level in said container thereby to cause said electrode means to contact the liquid and said suction tube to draw off any surplus of fill, means for delivering properly filled containers from the machine, and means electrically controlled by completion of a circuit through said electrode means and the liquid fill for eliminating from said properly filled container delivering means any containers which are deficiently filled.

2,324,783
SURPLUS FILL DRAWOFF MEANS
Alfred L. Kronquest, Syracuse, N. Y., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application May 13, 1942, Serial No. 442,832
20 Claims. (Cl. 226—22)



1. In a machine of the character described, container supporting means, a tester unit including a suction tube and electrode means, means for bringing about relative movement between said support and the tube and electrode means to cause said electrode means to be deposited in a container at a predetermined normal fill level and the lower end of the tube below said level, valve means for permitting or preventing the drawing of liquid fill from the container through said tube, and means including a control circuit controlled by said electrodes for opening the valve means after the lower end of the tube is immersed in the fill in the container and for automatically closing said valve means as soon as enough liquid has been drawn off to bring the fill to said predetermined level.

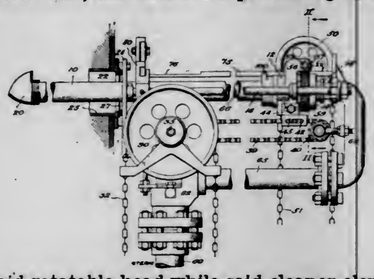
2,324,784
CONDENSATION PRODUCT AND METHOD OF PREPARING AND USING SAME
Eugene Lieber, Staten Island, N. Y., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application January 2, 1941, Serial No. 372,890
19 Claims. (Cl. 252—59)

1. A composition consisting essentially of a Friedel-Craft condensation product of an aliphatic olefin having less than 10 carbon atoms with an aromatic compound, said condensation products being substantially non-volatile at temperatures up to about 600° F. under conditions of fire and steam distillation and having wax modifying properties.

2,324,785
SOOT CLEANER
Frederick W. Linaker, Forest Hills, N. Y.
Application January 17, 1940, Serial No. 314,237
27 Claims. (Cl. 122—392)

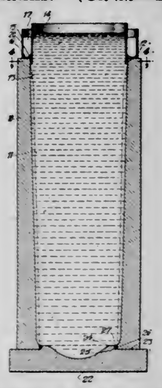
1. A soot-blower of the retractable type comprising a cleaner element, a track, a carriage movable on said track, a rotatable head on said carriage to which said cleaner element is attached, means for moving said carriage on said track to insert the cleaner element in and re-

tract it from an operating position, means mounted on said carriage for rotating said rotatable head, and means for preventing rotation



of said rotatable head while said cleaner element is being moved to and from its inserted cleaning position.

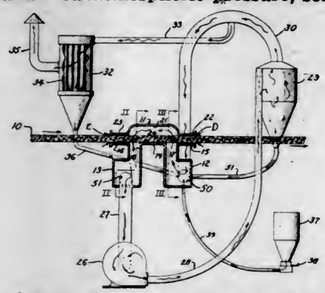
2,324,786
INGOT MOLD
Lewis Byron Lindemuth, Port Washington, N. Y.
Application December 11, 1941, Serial No. 422,465
5 Claims. (Cl. 22—139)



1. In combination, a corrugated ingot mold formed with a non-corrugated area around within its top, a sheet-metal sinkhead having a portion of a size and shape to substantially fit within said area during the pouring, but normally separated therefrom by a clearance space, the mold corrugations, starting at a region substantially below said area, being so formed as to gradually taper in an upward and outward direction until they substantially disappear at the lower edge of said area, the angle of the taper being such that upon cooling of the ingot, the sinkhead and adjacent tapered corrugated portions of the ingot are free to move downward in the mold to the extent occasioned by shrinkage, without substantial jamming against the tapered corrugated portion of the mold.

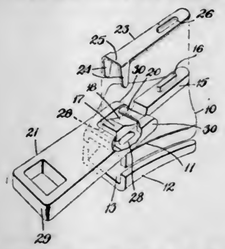
2,324,787
METHOD OF AND APPARATUS FOR DUSTING FIBROUS MATERIAL
Eric Lundgren, Braddock Heights, Md., assignor to E. B. & A. C. Whiting Company, Burlington, Vt., a corporation of Vermont
Application January 22, 1940, Serial No. 314,961
15 Claims. (Cl. 117—19)

6. The method of dusting a traveling web of an open mesh fibrous material, which comprises circulating a stream of air laden with a dusting agent in a substantially closed system, within a part of said system passing said laden air back and forth through a length of said traveling web while under subatmospheric pressure, some out-



side air being thereby drawn into said system, and bleeding out of said system excess air substantially free from said dusting agent.

2,324,788
AUTOMATIC LOCK SLIDER
Davis Marinsky, Bronx, N. Y., assignor of one-half to Louis H. Morin, Bronx, N. Y.
Application February 10, 1942, Serial No. 430,181
12 Claims. (Cl. 24—205.5)



8. A lock slider comprising a channeled body, an elongated spring lock element arranged centrally and longitudinally of said body, means securing one end of the element to said body, the other end of said element being freely flexible toward and from the channel of said body and having a lock pin portion normally extended into the channel of said body by the spring properties of said element, means limiting inward movement of the pin end of said element while permitting unlimited outward movement of said end, a pull having a pin end portion, means on the slider wall forming, in conjunction with part of said element, a free mounting of the pin end of the pull on said slider, said last-named means including means adapted to urge the pin end of the pull into engagement with said element to displace the pin lock of the element from the slider channel in the movement of the pull in either direction on the slider, and means to check both directional movements of the pull on the slider wall.

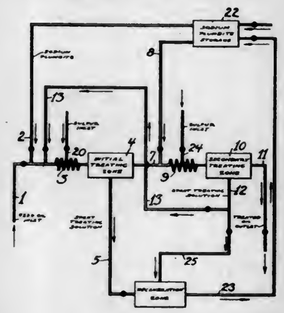
2,324,789
MIDGET TOOTHBRUSH
Dandy J. Mayeux, Philadelphia, Pa.
Application November 14, 1941, Serial No. 419,095
2 Claims. (Cl. 15—133)



1. A toothbrush comprising a handle and head portion formed from an elongated piece of stiff cardboard or the like, scored by spaced

lines, lengthwise thereof, and setting off a central back panel and opposite side flaps the length of the piece; said flaps being cut by aligned slits perpendicular to the back panel and thereby setting off the brush head at one end of the handle portion; there also being an extension portion of said cardboard integral with the back panel of the head portion corresponding in width thereto, and folded back and flatly against the under side of said back panel; said flap portions along the opposite side of the head portion being folded inwardly to overlap the back-turned extension portion, and said flaps of the handle portion being folded inwardly to cooperate with said back panel to form a handle body, and a brush applied and secured to said inturned flaps of said head portion.

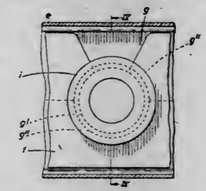
2,324,790
PROCESS FOR THE SWEETENING OF HYDROCARBON OILS
John H. McClintock, Cranford, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application April 26, 1941, Serial No. 390,530
2 Claims. (Cl. 196—33)



1. Continuous process for the sweetening of hydrocarbon oils containing mercaptans which consists essentially in continuously contacting said oil in a sweetening zone with a doctor solution comprising an alkali metal plumbite solution and with sulfur, under conditions to convert all the mercaptans into disulfides and to precipitate lead sulfide, continuously separating the resultant spent doctor solution containing most of the precipitated lead sulfide from the resultant sweetened oil containing a small amount of flocculant precipitated lead sulfide, regenerating the spent doctor solution to convert lead sulfide into plumbite solution, continuously contacting the sweetened oil containing flocculant lead sulfide in a clarifying zone with the regenerated doctor solution free from lead sulfide, continuously separating the resultant clarified sweetened oil from the regenerated doctor solution containing the lead sulfide removed from the sweetened oil in the clarifying zone, and continuously recycling said regenerated doctor solution to the original sweetening zone for contacting additional fresh oil.

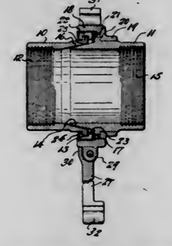
2,324,791
ELECTRICAL WIRING SYSTEM
Harold Fletcher McLoughlin, Shenstone Court, near Lichfield, Walter Edward Hill, Streetly, and Richard Walter Morgan and Thomas Daniel Guy Wintle, Walsall, England
Application May 30, 1942, Serial No. 445,234
In Great Britain October 6, 1941
5 Claims. (Cl. 174—60)

1. An electrical wiring system comprising a box, composed of a base and lid the side walls of which are formed with edge openings to produce circular openings when the lid is mounted on the base, a frame secured to the box and formed with keyhole slots each comprising a wedge-shaped entry to a circular opening disposed in alignment with, and of slightly smaller diameter than the circular opening provided by box parts, flexible conduit tubes of insulating material, and a grommet made of resilient material on the end of



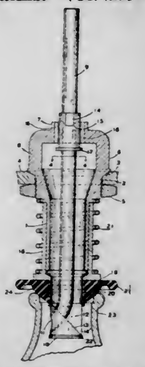
each tube and formed with a pair of annular grooves of different depths so that the grommet can be compressed together with the end of a tube and introduced laterally through a wedge-shaped entry and into a circular opening in the box and frame, the shallow groove seating the periphery of the opening in the box walls, while the deeper groove is occupied by the periphery of the circular opening in the frame.

2,324,792
HOSE COUPLING
William Meyer, East Orange, N. J., assignor to A. W. Wheaton Brass Works, Newark, N. J., a corporation of New Jersey
Application April 21, 1942, Serial No. 439,841
6 Claims. (Cl. 285—127)



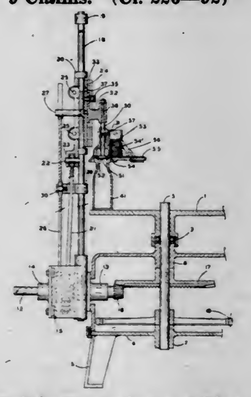
1. A hose coupling or the like comprising a female member having a spigot joint portion, a forwardly open locking collar rotatable on said female member, a locking ring within said locking collar having a screw-threaded connection therewith, said locking ring having circumferentially spaced internal interlock lugs, said spigot joint portion being disposed to extend forwardly through and outwardly beyond said locking collar and its contained locking ring, a male member having a bell joint portion to receive the spigot joint portion of said female member, and said male member having circumferentially spaced external interlock lugs adapted to be entered in said locking ring and disposed behind the internal interlock lugs thereof, rotation of said locking collar in a given direction being adapted to move said locking ring axially to thereby thrustingly engage its interlock lugs with those of the male member and thus forcibly move said male and female members together to set up their engaged bell and spigot joint portions in tight joint forming relation.

2,324,793
VALVE STRUCTURE
Everett S. Minard, San Francisco, Calif., assignor, by mesne assignments, to The Pfaudler Co., Rochester, N. Y., a corporation of New York
Application August 26, 1940, Serial No. 354,199
4 Claims. (Cl. 226—124)



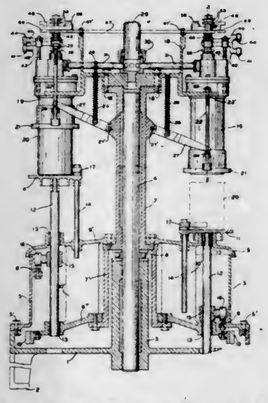
1. In a valve structure, a sleeve, means for vertically mounting the same, a hub, means for supporting the hub above the sleeve and in alinement therewith, the hub having a longitudinal key way therein and having a notch arranged in its upper face and spaced from the key way, a tube having a valve head at one end, a trunnion disposed on an intermediate section of the tube and adapted to pass through the key way when the tube is passed through the sleeve and the hub from below and to seat in the notch when the tube is turned, a stop on the tube below the trunnion and spaced from the latter to serve as a gage for arresting the advance of the tube when the trunnion has reached a position to just clear the upper end of the hub for the turning movement, and a valve member slidable on the sleeve for cooperation with the valve head.

2,324,794
CAPPING MACHINE
Everett S. Minard, San Francisco, Calif., assignor, by mesne assignments, to The Pfaudler Co., Rochester, N. Y., a corporation of New York
Application August 26, 1940, Serial No. 354,200
9 Claims. (Cl. 226—92)



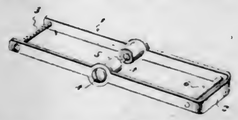
1. In a container capping machine, a capping device, means for mounting the same with freedom of horizontal and vertical movement, a rotary shaft having a crank therein, a connecting link driven by the crank for imparting vertical movement to the device and a lever actuated by the crank for imparting horizontal movement to the device, the lever having a fixed fulcrum and sliding connection with the crank and the capping device to bring about variation in the relative operative lengths of the lever arms as the capping device moves vertically.

2,324,795
LIQUID FILLING MACHINE
Everett S. Minard, San Francisco, Calif., assignor, by mesne assignments, to The Pfaudler Co., Rochester, N. Y., a corporation of New York
Application January 31, 1941, Serial No. 376,762
13 Claims. (Cl. 226—98)



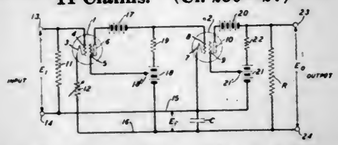
10. In a container filling machine of the character described, a plug adapted for telescoping engagement with the container, the plug having a lengthwise passage forming a valve seat at the end thereof, and a valve rod movable in the passage and having a valve head fitting on the said seat to come flush with the end of the plug.

2,324,796
CARRIER AND DISPENSER FOR STRIP MATERIAL IN ROLL FORM
Vincent Neptune, Brookline, Mass.
Application December 15, 1942, Serial No. 469,104
3 Claims. (Cl. 242—55.2)



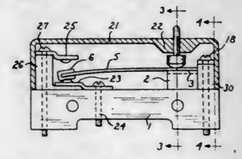
1. A roll strip carrier and dispenser, including a U-shaped frame having side bars and a closed dispensing end, means carried by the side bars for rotatably supporting a roll of strip material, a guide member arranged adjacent and parallel to the closed end of the frame to provide for delivery of the strip over the guide member and beneath the closed end of the frame to maintain the strip in flat condition for delivery, and means at the ends of the side bars wholly beyond the roll of material to compel relative movement of the side bars throughout the full side dimensions of the roll to thereby tension each and every strip layer on the roll during dispensing to control the character of the roll application.

2,324,797
DIFFERENTIATING AMPLIFIER
Edward L. Norton, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 17, 1941, Serial No. 411,091
11 Claims. (Cl. 250—27)



1. A differentiating amplifier adapted for delivering an output voltage substantially linearly proportional to the time derivative of the input voltage comprising at least one amplifier stage, an input circuit and an output circuit for the amplifier, a feedback path from the output circuit to the input circuit, and a capacitor in the feedback path to provide a feedback voltage to the input circuit which is in substantial quadrature to the output circuit voltage.

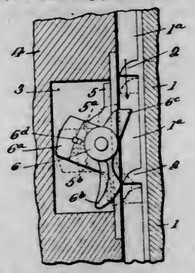
2,324,798
SWITCH
Ernst A. Nordberg, Sharon, Mass., assignor to Mu Switch Corporation, Canton, Mass.
Application May 1, 1940, Serial No. 332,707
6 Claims. (Cl. 200—67)



1. A snap switch of the type described, comprising a spring leaf element, means clamping said spring leaf element at one end and leaving the other free, a switch contact plate at the free end adapted to make contact with switching means, said switch leaf at its clamped end being slotted lengthwise with the leaf spring and means clamping said end including a clamping block having shoulders spaced apart a distance just sufficient to receive snugly the side edges of said spring when it is towed inward the desired amount and a clamping plate fitting over said spring and holding said slotted end in a towed-in position.

2,324,799
AUTOMATIC MEANS FOR CONTROLLING SLIDING MEMBERS
James Philip O'Connor, Dublin, Eire
Application March 27, 1942, Serial No. 436,509
In Eire March 5, 1941
7 Claims. (Cl. 292—195)

1. In combination, a member having spaced projections thereon, and a gravity-controlled pivoted rocking member cooperating with and movable relative to said first member, a bracket, said second member comprising a rocker rotatable to limited extent on said bracket, a pawl means, a cam part, and a counterweight means forming part of said rocker, said rocker being positioned so that its cam part, under gravity action of the counterweight means, contacts said spaced projections upon relative movement of the two members, and said cam part and projections having complementary generally toe-like contours, the cam part having leading and trailing faces, one substantially straight and flat and the other convex, the projection which in one direction of relative movement of the two members momentarily is opposite the cam part, first contacting the leading face thereof and forcing the latter about its pivot to rock the pawl means into the path of the next succeeding projection, and thereafter contacting the trailing face of the cam part, tending to permit the pawl means to rock in the opposite direction, out of



the path of the said next succeeding projection, said projections being spaced apart a distance sufficient to permit the pawl means, during slow relative movement of the members, to be restored to position out of the path of the projections, but insufficient, when the relative movement exceeds a predetermined rate, to permit, due to inertia, removal of the pawl means from the path of the next projection before engagement therewith.

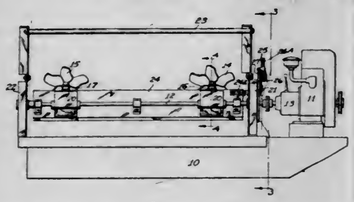
2,324,800
PURIFICATION OF RIBOFLAVIN
Richard Pasternack, Brooklyn, and Ellis V. Brown, Cold Spring Harbor, N. Y., assignors to Charles Pfizer & Company, Brooklyn, N. Y., a corporation of New Jersey
No Drawing. Application August 14, 1941, Serial No. 406,928
3 Claims. (Cl. 260—211)

1. Process of purifying crude riboflavin comprising dissolving the riboflavin in an aqueous acid solution prepared by diluting a member of the group consisting of commercial concentrated hydrochloric, sulfuric, nitric and phosphoric acids with not more than two volumes of water, oxidizing the impurities at a temperature below 100° C. by the action of a member selected from the group consisting of chlorine, hydrogen peroxide, nitric acid and chloric acid, to substances readily separable from the riboflavin, filtering out the insoluble products, running the solution into an excess of water to precipitate the riboflavin while the residual oxidation products remain in solution, and stirring at elevated temperature to develop large, readily purgible crystals of riboflavin.

2,324,801
POLLINATION OF TREES
Matthew W. Patton, Portland, Oreg.
Application July 6, 1942, Serial No. 449,909
5 Claims. (Cl. 47—1)

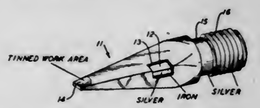
1. The improved apparatus for promoting pollination of fruit trees through an artifically induced air current, said apparatus including a vehicle, a means supported on said vehicle for projecting an air current upwardly through the branches of the trees at an oblique angle from the ground, a second similar means on said vehicle spaced from and in tandem relation with

said first means for projecting a second air current similar to and in the same direction as the first mentioned current, the distance between said means on said vehicle being such that the paths of their projected air currents will join in the trees and produce the effect of prolonging the



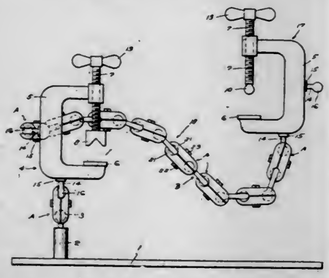
initial air current as the vehicle is moved along the ground, whereby said air currents will act to raise the pollen and hold a substantial percentage of it in suspension in the air for a brief period and then permit it to drop downwardly.

2,324,802
SOLDERING DEVICE
Raymond E. Powell, Westfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application October 5, 1940, Serial No. 359,877
2 Claims. (Cl. 113—105)



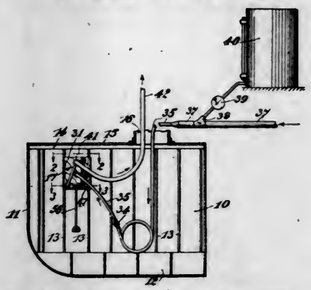
1. A detachable tip for soldering irons, which tip comprises a body portion and an attaching portion integral with the body portion, the body portion and the attaching portion consisting essentially of silver, in combination with a protective armor of harder metal on the working surfaces only of the body portion.

2,324,803
WORK HOLDER
La Verne S. Snyder, Baltimore, Md.
Application May 2, 1942, Serial No. 441,440
1 Claim. (Cl. 29—89)



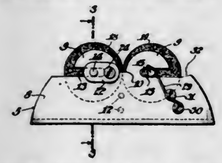
A work holder comprising a clamp including a substantially U-shaped frame, shanks projecting from the frame at right angles to each other, balls on said shanks, means engaged with one of the balls for adjustably mounting the clamp on a support, and another clamp adjustably mounted on the other of said balls.

2,324,804
APPARATUS FOR CLEANING TANKS
John Van Gelderen, Union City, N. J.
Application July 11, 1942, Serial No. 450,564
8 Claims. (Cl. 141—1)



1. The combination with a cover, of sides having flexible sheet rubber margins adapted to yieldingly bear against an oil-bearing surface, a connection through which steam carrying a chemical is delivered within the cover, a separate off-bearing duct for the waste steam well above the lower edge of the cover, a second off-bearing duct near the lower edge of the cover, a suction pipe leading from the second duct to the first duct so that condensed steam carrying solids is sucked out of the second duct and carried off by the first duct connection.

2,324,805
KNIFE AND SCISSORS SHARPENER
Isaac Wentes, Philadelphia, Pa.
Application December 5, 1942, Serial No. 468,175
5 Claims. (Cl. 51—80)

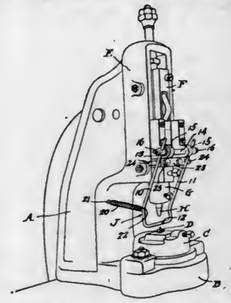


1. A sharpener comprising a frame including upstanding ears on opposite sides thereof, said ears having horizontal open-ended slots, shafts mounted in the slots and extending cross-wise of the frame in parallel relation, retaining plates engaging one of said shafts and attached to the frame, a socket on that shaft which is held by the retaining plates, said socket adapted to receive either end of a crank having handles of different lengths, springs mounted on opposite sides of a frame and engaging the other shaft to urge the latter towards the shaft having the socket thereon, and abrasive wheels clamped to said shafts with the peripheries of said wheels contacting at a location between the ears.

2,324,806
SAFETY ATTACHMENT FOR HAND-FED MACHINES
Benjamin Wachs, Brooklyn, N. Y.
Application December 16, 1941, Serial No. 423,133
6 Claims. (Cl. 74—615)

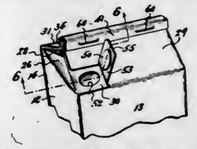
1. In a hand fed machine of the type in which a pair of tools are mounted for relative movement towards and away from each other, a safety device for protecting the hands of the operator feeding the stock between the tools including a guard member actuated by the machine in timed

relation with the relative movement of the tools and mounted on a stationary part of the machine for swinging movement of said guard member from an inactive out-of-the-way position at one side of the path of relative movement of the



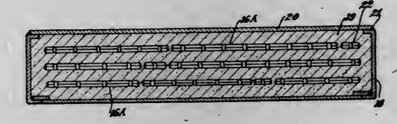
tools between said tools as they approach each other and beyond said path to the opposite side thereof so as to engage with and displace the operator's hand located between the tools.

2,324,807
CONTAINER DISCHARGE OUTLET AND RELEASABLE CLOSURE MEANS THEREFOR
Oscar W. Wentz, Long Island City, N. Y., assignor to United States Automatic Box Machinery Co., Inc., Roslindale, Mass., a corporation of Massachusetts
Application September 18, 1941, Serial No. 411,311
2 Claims. (Cl. 229—17)



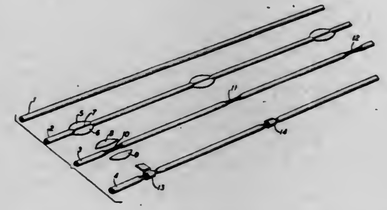
1. A container made of sheet material having a closed bottom, sides and an initially open top, said sides including opposed closure sections and intermediate bellows sections adapted to be closed together in secured relation to thereby close said open top, said bellows sections being respectively adapted to collapse and fold upon themselves for projection into the interior of the container beneath the closure sections, one of said bellows sections and an adjoining closure section being connected by an anchor lap extending from the margin of said bellows section into superposed attached relation to said closure section, thus providing superposed plies of sheet material adjacent the juncture of such sections, a stopper section provided in connection with the underlying of said plies, the periphery of which is separably attached and coincident to the margins of an outlet opening in said ply, a closure tab formed in the overlying ply subject to outswinging displacement therefrom, said closure tab overlying said stopper section, said stopper section being united to said closure tab so as to be unitary and movable therewith, said closure tab and stopper section and the outlet opening closed by the latter being contiguous to a top corner of the closed container, and a portion of the underlying bellow section being convergent upon the overlying closure section in which said closure tab and stopper section are formed, whereby to provide a tapering funnel-like spout passage leading to the outlet opening.

2,324,808
ART OF ARMOR PLATE MANUFACTURE
Albert L. Abbott, Canton, Ohio, assignor to Diebold Safe & Lock Company, Canton, Ohio, a corporation of Ohio
Application January 22, 1940, Serial No. 314,933
27 Claims. (Cl. 148—12)



1. In the manufacture of steel armor plate of the thinner gauges of the order of up to 1" in thickness having a hard case side and a softer backing side, the steps of coating the backing side of an imperforate plate with a non-case material, covering the coated side with another imperforate plate, tack-welding the edges of said plates together, carburizing the plates, and then removing the welds and non-case material and drilling and machining the plates.

2,324,809
SOLDERING METHOD
Lester E. Abbott, Valley Stream, and Walter W. Werring, Brooklyn, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 22, 1942, Serial No. 451,928
7 Claims. (Cl. 219—12)

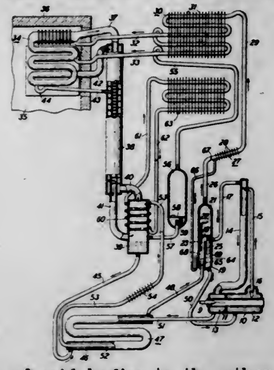


1. The method of soldering a metallic wire to a metallic terminal which consists in increasing the electrical resistance of the wire at the point where the soldered connection is to be made, bringing the said high resistance point in the wire into position next to said terminal in the presence of a small quantity of solder and passing an electrical current longitudinally through said wire of sufficient density over a predetermined period to raise the temperature of said high resistance point to the melting point of said solder.

2,324,810
REFRIGERATION
Carl T. Ashby, Evansville, Ind., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware
Application May 16, 1941, Serial No. 393,701
8 Claims. (Cl. 62—119.5)

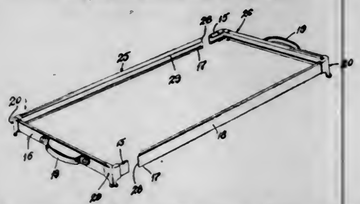
2. An absorption refrigeration system including an analyzer, said analyzer having a vapor inlet, a vapor outlet, a liquid inlet, a liquid outlet, a partition between said liquid inlet and liquid outlet dividing the liquid in said analyzer into two bodies having substantially the same surface

levels, and means operated by flow of vapor through said analyzer for transferring liquid



from one of said bodies to the other over said partition.

2,324,811
TRAY
Henry Auslander, Brooklyn, N. Y.
Application April 3, 1941, Serial No. 386,650
8 Claims. (Cl. 65—53)

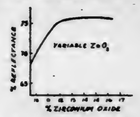


1. An article of manufacture of the class described comprising a panel of predetermined contour, a frame bordering peripheral edges of the panel, said frame comprising similar frame parts collectively forming said frame and channeled to receive the panel, each frame part having angularly extending substantially parallel coupling ends directly telescoped with the ends of a companion frame part in forming said frame, and means for securing the telescoped ends of said parts together to retain said frame parts against separation.

7. In a tray of the class described having a panel portion bordered by a channeled frame, supporting foot members arranged at spaced intervals on the frame, said members each comprising a plate having pairs of inturned flanges at end portions thereof forming of the plate channeled portions receiving said channeled frame, and the lower edge of said plate centrally thereof having a downwardly projecting part forming the foot of said member.

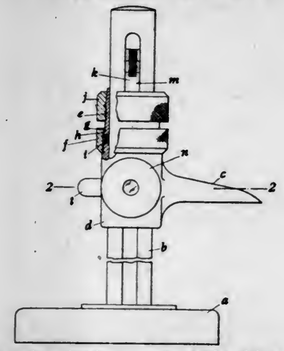
2,324,812
PORCELAIN ENAMEL
Monroe J. Bahnsen, Lakewood, and Eugene E. Bryant, Bedford, Ohio, assignors to Ferro Enamel Corporation, Cleveland, Ohio, a corporation of Ohio
Application July 25, 1941, Serial No. 404,048
8 Claims. (Cl. 106—48)

1. The method of making a porcelain enamelled article having an opaque coating which comprises smelting a raw batch mixture of porcelain enamel forming ingredients characterized by being able to yield from the smelt a frit containing from about 10% to about 20% ZrO_2 and from about 1.00% to about 7.50% of P_2O_5 based on the



total weight of the frit, milling a slip containing said frit, coating the ware with said slip, and burning the same to yield said opaque surface.

2,324,813
LINEAR-DIMENSION GAUGE OR COMPARATOR
George Primrose Barrott and Hermann Franz Plaut, Mitcham Junction, England, assignors to Precision Grinding Limited, Mitcham Junction, England
Application May 27, 1941, Serial No. 395,489
In Great Britain June 18, 1940
1 Claim. (Cl. 33—169)



A measuring instrument of the kind specified, comprising the combination of a vertical pillar, an arm slidably adjustable on the pillar, the inner end of the arm being formed by a sleeve on the pillar, a scale mounted longitudinally on one side of the pillar, a graticule mounted on the arm and in association with the scale, an eye piece on the arm for viewing the scale and graticule, another sleeve slidably mounted on the pillar above the first mentioned sleeve and having a contractible upper end portion, at least one spring arranged between the adjacent ends of the two sleeves, a rotatable member surrounding and adjustably interconnecting the adjacent ends of the two sleeves, and another rotatable member surrounding the second-mentioned sleeve and adapted to contract the upper end portion of this sleeve into tight contact with the pillar.

2,324,814
TEST DEVICE FOR OIL WELLS
Harry C. Beene, Harry Marks, and David L. Mitchell, Los Angeles, Calif.
Application September 3, 1940, Serial No. 355,246
1 Claim. (Cl. 166—11)

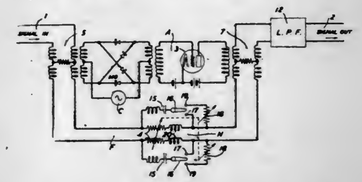
A test device for oil wells comprising a section of tubing having inlet ports therein intermediate its length, a thimble carried by the section adjacent each end thereof, each of the said thimbles having an annular seat lying in a plane extending transversely of the axis of the section and a flared annular skirt portion extending beyond the annular seat and in circumferentially spaced

relation with the section, metallic sleeves carried by the end portions of the tubular section extending from the thimbles, said sleeves extending into the thimbles and abuttingly engaging the annular seats, resilient essentially formative packing elements fixedly carried by the sleeves and having tapered end portions adapted to snugly seat within the skirt portions of the thimbles, rings loosely fitting the portion of the sleeves extending beyond the packing elements, a plurality of circumferentially spaced longitu-



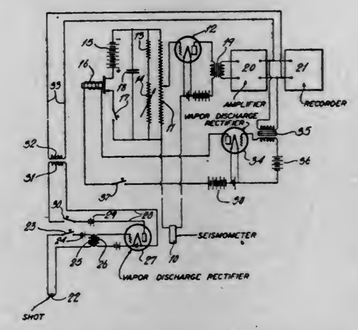
dinally extending rods arranged to surround the packing elements, the outer ends of the rods being securely attached to the said rings and the inner ends thereof being inturned to extend through the relatively soft packing elements and into openings in the said metallic sleeves, and collars screw threadedly carried by the portion of the tubing extending beyond the sleeves and abuttingly engaging the outer ends of the sleeves to securely hold all of the parts in mutually pressed relation.

2,324,815
STABILIZED FEEDBACK SYSTEM
Harold S. Black, Elmhurst, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application February 28, 1942, Serial No. 432,860
7 Claims. (Cl. 179—171)



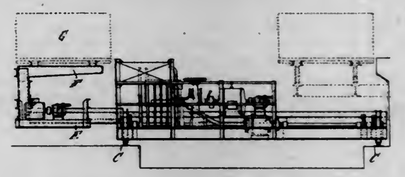
1. The method of producing negative feedback of transmission around a closed loop path including a transducer having a pair of input terminals and a pair of output terminals which comprises applying the transmission to a portion of the path, passing the transmission through the path and returning it to said portion in phase opposition to the applied transmission, changing the frequency level of the transmission in its passage through the path and passing the transmission through the transducer from said input terminals to said output terminals a plurality of times at a different frequency level each time in once completing its passage from said portion through the path with return to said portion in phase opposition to the applied transmission.

2,324,816
SEISMIC SURVEYING
William T. Born, Tulsa, Okla., assignor to Geophysical Research Corporation, New York, N. Y., a corporation of New Jersey
Original application May 26, 1933, Serial No. 672,996. Divided and this application August 19, 1942, Serial No. 455,331
16 Claims. (Cl. 177—352)



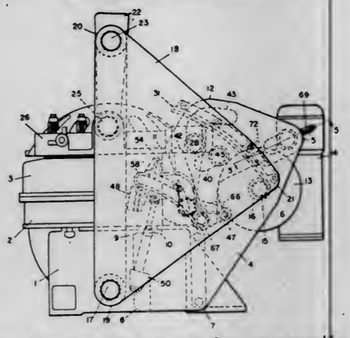
7. Apparatus for seismic surveying comprising means for converting seismic waves into electrical waves, a variable response recorder for said electrical waves, and means actuated by the arrival of seismic waves at said converting means for increasing the recorder response.

2,324,817
TRAVERSER
Morriss Johnson Bratley, West Bridgford, England, assignor to Herbert Morris Limited, Loughborough, England, a company of Great Britain and Northern Ireland
Application September 29, 1942, Serial No. 460,129
In Great Britain July 12, 1941
5 Claims. (Cl. 212—74)



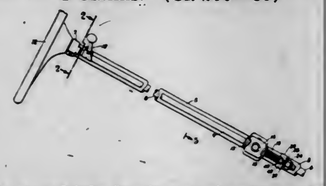
1. Elevating and traversing apparatus for handling and sorting loads by traversing them from a storage line at one side of a traverser to a line parallel with this storage line on the other side of the traverser and for transferring loads from one position to another position on the same line, in which the traverser includes a main carriage movable along a track parallel with the said lines, an extensible sub-carriage movable transversely of the main carriage and a load supporting carriage for supporting the load to be transferred, said load supporting carriage engageable beneath the load and including elevating arms for raising the load and said load supporting carriage movable with and operatively interconnected with the sub-carriage to effect the transfer and means for preventing traversing movement of the main carriage when the sub-carriage and the load supporting carriage are extended beyond fixed substantially central positions.

2,324,818
PRESS
James W. Brundage, Akron, Ohio, assignor to The Summit Mold & Machine Company, Akron, Ohio, a corporation of Ohio
Application May 29, 1941, Serial No. 395,807
3 Claims. (Cl. 18—17)



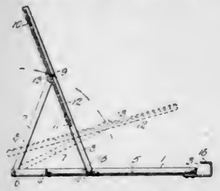
2. In a vulcanzing press for pneumatic tires, a pair of cooperating mold parts; means for tilting one of said mold parts in respect to the other part, which means include a plate element mounted movably relative to a fixed portion of the press and provided with a cam guide slot in engagement with a cam operatively connected with the tiltable mold part, a toggle member mounted pivotally at a point below said mold parts and operatively connected with the tiltable mold part, and means operative to actuate said toggle member; means associated with said first named means and operative to move one of said mold parts laterally relative to the other mold part while a tire in the press is in the path of lateral movement of such movable mold part, which last named means includes a screw mounted in fixed relation on the press and adjustable to operatively restrict movement of said movable plate in said first means, and an element, pivotally mounted on said toggle member and provided with cam guides in engagement with a cam operatively connected to said movable plate in said first recited means, which cam guides so control movement of the engaged cam as to effect a lateral shift of said movable plate following initial movement of the movable mold part when opening the press, and a spring resiliently urging said element toward said screw.

2,324,819
CIRCUIT CONTROLLER
Orville K. Butzbach, South Bend, Ind., assignor to The Studebaker Corporation, South Bend, Ind., a corporation of Delaware
Application June 6, 1941, Serial No. 396,909
4 Claims. (Cl. 200—59)



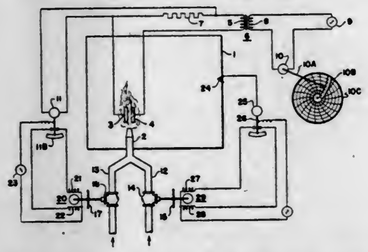
1. In a vehicle having a steering column, the combination of a gear shift control rod supported in a position parallelling said column, a shift lever at one end of said rod, a switch supported adjacent the opposite end of said rod, and cam means carried on said opposite end of said rod, said lever being actuatable for imparting rotational and longitudinal shifting movement of said rod to a plurality of gear selective positions and a neutral position, said cam being arranged relative to said switch so that in said gear selective positions said cam is out of engagement with said switch and in said neutral position said cam is in engagement with said switch to close the latter.

2,324,820
SIGN SUPPORT
Sidney E. Capps, Jefferson City, Mo., assignor of one-half to Claude P. Owens, Springfield, Mo.
Application June 26, 1941, Serial No. 399,850
1 Claim. (Cl. 40—125)



A collapsible display stand comprising a base having extensions at one of its sides, a sign, braces having their ends pivoted at the ends of the base extensions and at substantially the middle of the sign, and interengageable means at the bottom corners of the sign and at substantially the middle of the base for releasably holding the sign upright on the base, the arrangement being such that the sign may be positioned upright at substantially the middle of the base or folded face downwardly against and within the periphery of the base.

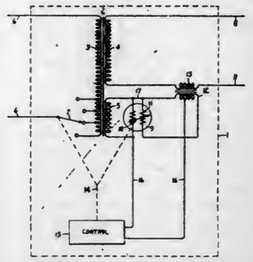
2,324,821
MEASURING AND CONTROL METHOD AND APPARATUS
James R. Campbell, Glendora, Calif., assignor to General Electric Company, a corporation of New York
Application February 8, 1939, Serial No. 255,301
18 Claims. (Cl. 236—15)



1. The method of determining the ratio between the elements of combustion supplied a furnace flame in variable ratios which includes determining the electrical conductivity of the flame within the furnace resulting from the combustion of the elements of combustion and utilizing such determination as a measure of the ratio between the elements of combustion.

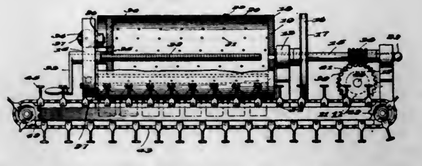
3. The method of determining the oxygen content of a gas which includes burning a fuel with the gas and determining the electrical conductivity of the flame produced by such burning as a measure of the oxygen content in the gas.

2,324,822
ELECTRICAL REGULATOR
Franklin J. Champlin, Dalton, Mass., assignor to General Electric Company, a corporation of New York
Application September 12, 1942, Serial No. 458,067
5 Claims. (Cl. 171—119)



1. In combination, an alternating-current circuit, a variable ratio transformer type voltage regulator, said regulator having a high voltage winding with a fixed number of effective turns connected across said circuit on the output side of said regulator, a low voltage auxiliary winding on said regulator, a series transformer having its secondary winding connected in series with said high voltage winding, adjustable means for variably exciting the other winding of said series transformer from said auxiliary winding, said means including a direct interconnection between said auxiliary winding and said other winding, and a control circuit for said regulator and adjustable means connected across predetermined portions of said auxiliary winding and said other winding in series through said direct interconnection.

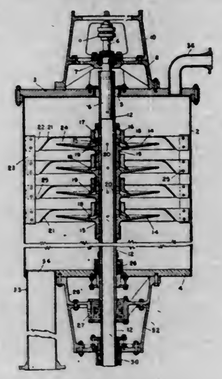
2,324,823
COUNTING AND FILLING MACHINE
Francis Chilson, New York, N. Y., and Isidor Tornberg, Plainfield, N. J.
Application September 25, 1941, Serial No. 412,314
18 Claims. (Cl. 226—2)



1. A machine for counting and handling articles comprising a hopper, a carrier constantly moving through the hopper, means on the carrier for engaging articles in the hopper, means for varying the number of articles engaged, pneumatic means for holding the articles so engaged, a traveling conveyor moving in synchronism with the movement of the carrier and containers removably held on the conveyor.

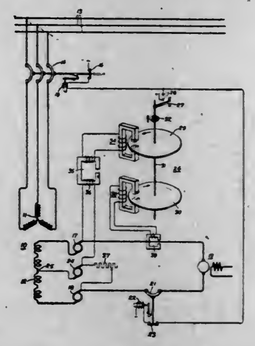
2,324,824
TREATING APPARATUS
Mead Cornell, Cleveland, Ohio, assignor to The Cornell Machine Company, Cleveland, Ohio, a corporation of Ohio
Application July 31, 1940, Serial No. 348,851
3 Claims. (Cl. 259—96)

1. The method of preparing a homogeneous mixture of a liquid with another substance which comprises agitating the substance in a spray of the liquid to form an unstable intimate mixture, impounding a quantity of said unstable mixture centrally of a rotating member, radially



displacing said impounded mixture in a continuous film, centrifugally attenuating said continuous film, while mechanically supported on one side only, and then collecting said film.

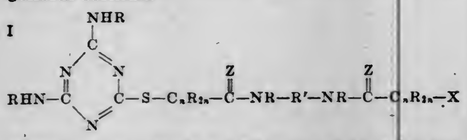
2,324,825
PROTECTIVE SYSTEM
Selden B. Crary, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application November 13, 1941, Serial No. 418,916
8 Claims. (Cl. 175—294)



1. In combination with a synchronous dynamoelectric machine having relatively movable field and armature windings, an electroresponsive device including means for causing operation thereof in response to a turn-to-turn fault on said armature winding connected to be energized in accordance with the alternating potential appearing across a predetermined portion of said field winding, restraining means for said electroresponsive device, and means for energizing said restraining means from said dynamoelectric machine to prevent faulty operation of said electroresponsive device under substantially all external fault conditions even though dissymmetries exist in said dynamoelectric machine.

2,324,826
TRIAZINE DERIVATIVES
Gaetano F. D'Alelio, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
No Drawing. Application February 27, 1942, Serial No. 432,659
16 Claims. (Cl. 260—248)

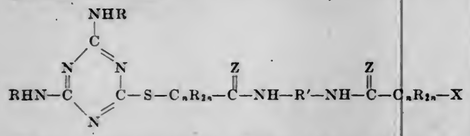
1. Chemical compounds corresponding to the general formula



wherein n represents an integer and is at least 1 and not more than 2, Z represents a member of the class consisting of oxygen and sulfur, R represents a member of the class consisting of hydrogen and monovalent hydrocarbon and halo-hydrocarbon radicals, R′ represents a member of the class consisting of divalent hydrocarbon and halo-hydrocarbon radicals, and X represents a halogen atom.

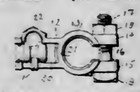
2,324,827
REACTION PRODUCT OF ALDEHYDES AND TRIAZINE DERIVATIVES
Gaetano F. D'Alelio, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
No Drawing. Application July 29, 1942, Serial No. 452,790
20 Claims. (Cl. 260—42)

1. A composition of matter comprising the product of reaction of ingredients comprising an aldehyde and a compound corresponding to the general formula



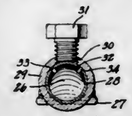
where n represents an integer and is at least 1 and not more than 2, Z represents a member of the class consisting of oxygen and sulfur, R represents a member of the class consisting of hydrogen and monovalent hydrocarbon and halo-hydrocarbon radicals, R′ represents a member of the class consisting of divalent hydrocarbon and halo-hydrocarbon radicals, and X represents a halogen atom.

2,324,828
STORAGE BATTERY CABLE CONNECTOR
Charles A. Danberg, Berlin, Conn.
Application June 4, 1941, Serial No. 396,567
2 Claims. (Cl. 173—259)



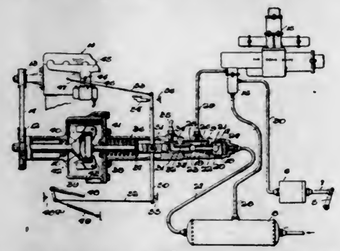
1. In a solderless connector for joining a battery terminal post and an electric cable, a cable socket open at its lower side and at its end to receive said cable either transversely through said open lower side or longitudinally through said open end, a cable-clamping shoe loosely mounted inside said socket below said cable, and vertical screw means connecting said socket with said shoe for drawing it upwardly to tightly engage said cable and hold it securely in said socket.

2,324,829
ELECTRIC TERMINAL LUG
Joseph J. Dante, Bantam, Conn.
Original application December 6, 1939, Serial No. 307,859. Divided and this application January 12, 1942, Serial No. 426,382
1 Claim. (Cl. 173—269)



In a solderless connector lug for receiving the bared end of a conductor, a metallic lug having a flat terminal tongue and a cylindrical socket continuous throughout its circumference and integral with said tongue, said bared end being adapted to be fitted within said socket without soldering, a circular metallic reinforcing collar tightly fitted upon the exterior wall of said cylindrical socket, said socket having a pair of spaced longitudinal slots in its upper half to provide a resilient tongue, and a clamping screw threaded through said collar for engaging said tongue and pressing it downwardly for clamping said bared end in said socket.

2,324,830
CLUTCH CONTROL MECHANISM
Wilfred A. Eaton, Pittsburgh, Pa., assignor to Bendix-Westinghouse Automotive Air Brake Company, Pittsburgh, Pa., a corporation of Delaware
Application December 18, 1940, Serial No. 370,732
20 Claims. (Cl. 192—.01)



1. In combination with a motor vehicle having an engine, an engine throttle, a clutch controlling member, a power actuator for operating said member and an accelerator, of means for controlling the application of power to said power actuator including an element responsive to engine speed, and means for connecting said throttle, element and accelerator for jointly controlling said throttle by said accelerator and said speed responsive element.

2,324,831
PHOTOGRAPHIC EMULSION
Alfred Fröhlich and Wilhelm Schneider, Dessau, Germany, assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application July 9, 1941, Serial No. 401,676. In Germany July 9, 1940
13 Claims. (Cl. 95—6)

1. A photographic silver halide emulsion containing a dyestuff former fast to diffusion and a compound selected from the class consisting of bile acids and salts thereof.

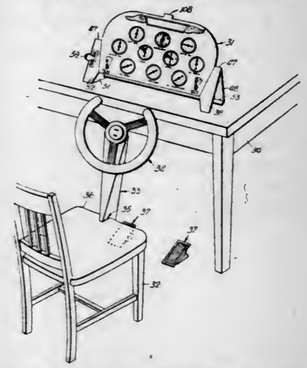
2,324,832
PHOTOGRAPHIC EMULSION
Alfred Fröhlich and Wilhelm Schneider, Dessau, Germany, assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application July 15, 1941, Serial No. 402,546. In Germany July 16, 1940
4 Claims. (Cl. 95—6)

1. A color photographic silver-halide emulsion containing as the color former the compound of the following structural formula

RCONH—A

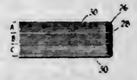
wherein R is a hydroxy aryl radicle and A is an aryl radicle which is substituted by an amino group carrying a radicle capable of rendering said color former fast to diffusion, said amino group being in a position selected from the class consisting of the o- and p-positions relative to the amido linkage and by an acid group in a position selected from the class consisting of the o- and p-positions relative to the amino group carrying said radicle.

2,324,833
EDUCATIONAL AIRPLANE-COCKPIT OUTFIT
Sam Gold, Chicago, Ill., assignor to Einson-Freeman Co., Inc., Long Island City, N. Y., a corporation of Delaware
Application October 30, 1942, Serial No. 463,955
13 Claims. (Cl. 35—12)



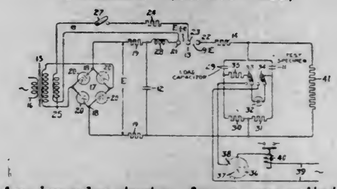
1. A knock-down cardboard structure which, when set up, simulates in position the instrument-panel of an airplane cockpit, comprising a main element formed of flat cardboard stock and bearing on its front face indicia forming simulations of instrument dials of an actual instrument-panel, and a cardboard prop behind said element and adapted to support it in a substantially upright position upon a table or similar supporting surface.

2,324,834
METHOD OF MAKING PRINTED SIGNATURES
Irving Gurwick, Long Beach, N. Y.
Application August 21, 1941, Serial No. 407,711
7 Claims. (Cl. 270—52)



7. The method of making signatures which includes printing signature sheets on a continuous web of paper and rolling said web, printing additional sheets on additional continuous webs of paper and rolling said webs, applying on each of said webs except one end web a line of adhesive corresponding to that edge of the sheet which is to be subsequently bound, and drying said adhesive, said dried adhesive being capable of being plasticized, unrolling said webs and severing the same as they are unrolled into individual sheets, collecting and stacking the individual sheets for many signatures with the lines of adhesive thereon in superimposed registry, and then binding said sheets of each signature to form a signature by plasticizing said adhesive to cause the sheets to unite to form a signature, the successive signatures being separated by reason of the end sheet having no adhesive, and finally adhesively binding a number of different signatures to a cover to make a single book by means of an adhesive which is compatible with the aforesaid thin lines of adhesive.

2,324,835
IMPULSE TESTER
Julius H. Hagenguth, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application May 16, 1942, Serial No. 443,214
4 Claims. (Cl. 175—183)

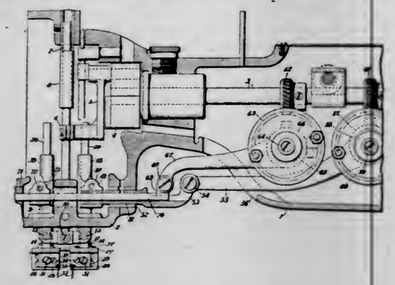


1. An impulse tester for a capacitative test specimen comprising in combination with the specimen an impulse capacitance with a charging source, a three-electrode gap and a wave front controlling and oscillation damping resistor in series with the test specimen and the impulse capacitance, a first non-inductive resistance shunt also in series with the specimen, a load capacitor and a second non-inductive resistance shunt connected in series with a branch circuit paralleling the test specimen and the first shunt, said load capacitor having several times the capacity of the specimen, a failure responsive device connected across said shunts, and a discharge resistor paralleling said branch circuits, the resistance of said discharge resistor being relatively great in comparison to the resistance of the said damping resistor, the resistance of said shunts being relatively small in comparison with the resistance of said damping resistor.

2,324,836
NEEDLE-ACTUATING MECHANISM FOR ZIGZAG-STITCH SEWING MACHINES
Arthur N. Hale, Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application November 27, 1941, Serial No. 420,630
15 Claims. (Cl. 112—158)

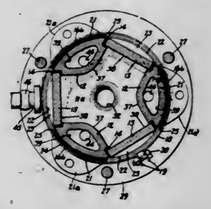
2. In a zigzag-stitch sewing machine having a frame including a hollow bracket-arm, a laterally movable cross-head disposed within said bracket-arm, cross-head supporting means including a guide-member slidably extending from and journaled in said bracket-arm and guide-elements carried by said bracket-arm for adjustment relatively to each other, said guide-member and guide-elements being spaced from each other

crosswise of the path of movement of said cross-head, means for transmitting oppositely directed lateral movements to said cross-head, a needle-carrier bar journaled in said cross-head for endwise reciprocation in a path disposed between



said guide-member and guide-elements and extending transversely of the path of movement of said cross-head, and means for reciprocating said needle-carrier bar.

2,324,837
ELECTRIC HEATER
Chester I. Hall, Rexford, N. Y., assignor to General Electric Company, a corporation of New York
Application August 29, 1942, Serial No. 456,660
7 Claims. (Cl. 219—40)

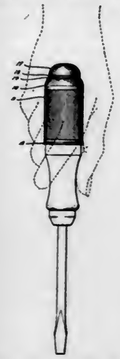


1. An electric pasteurizing device comprising a pair of electrically insulating end members, a plurality of spaced hollow electrodes extending between said end members, said end members having fluid passageways therein arranged to interconnect said electrodes so that a cooling fluid may be circulated between said end members through the interior of said electrodes, insulating members extending between said electrodes, and said end members, electrodes and insulating members being arranged to define a heating chamber for heating liquid circulated therethrough.

2,324,838
FILTER MATERIAL
Walter Harz, Dormagen, Kreis Neuss, Herbert Rein, Leipzig, Emil Hubert, Dessau-Ziebigk, and Carl Kayser, Bitterfeld, Germany; vested in the Alien Property Custodian
No Drawing. Application January 5, 1938, Serial No. 183,454. In Germany June 13, 1936
5 Claims. (Cl. 210—204)

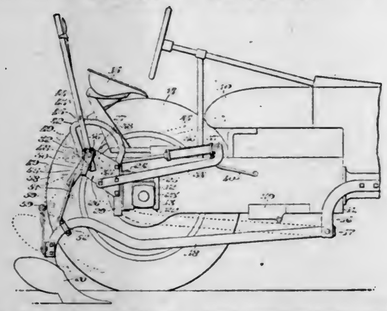
1. A process of producing filters substantially stable against inorganic chemicals which process comprises heating a fabric consisting of filaments of polyvinyl resins to a temperature sufficiently elevated to partially soften said vinyl resins to adjust the porosity of said fabric.

2,324,839
TOOL HANDLE
Clifford C. Haumerson, Janesville, Wis.
Application February 12, 1941, Serial No. 378,502
1 Claim. (Cl. 145—61)



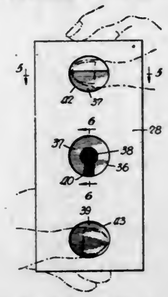
A tool holder, comprising; a readily attachable and detachable cap including a thick end wall and a relatively thin, elongated elastic skirt extending from said end wall and adapted to encompass and snugly fit various size tool handles; a generally circular cushion palm rest adjacent the exterior of said end wall; and means rotatably securing said cushion palm rest to said end wall, the greatest diameter of said cushion palm rest being substantially less than the diameter of the elastic skirt adjacent said end wall.

2,324,840
AGRICULTURAL IMPLEMENT
James L. Hipple, Canton, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application December 23, 1940, Serial No. 371,260
13 Claims. (Cl. 97—50)



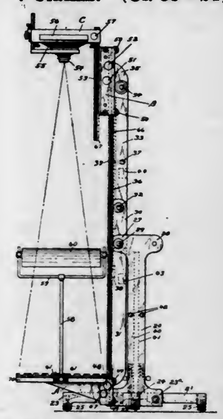
1. In combination, tool-supporting means, working tool means connected to the tool-supporting means for movement with respect thereto, means located between the working tool means and the tool-supporting means for moving the working tool means including a movable means having an abutment thereon, a second means movable with respect to the movable means and adapted to be engaged by said abutment to effect movement of the working tool in one direction, and adjusable stop means including a stop member movably carried on the first-mentioned movable means and adapted to react against one of said means and to abut said second movable means to limit thereby the movement of the working tool means in the opposite direction.

2,324,841
EDUCATIONAL DEVICE
John V. Horr, Hastings on Hudson, N. Y., assignor to Einson-Freeman Co., Inc., Long Island City, N. Y., a corporation of Delaware
Application January 1, 1943, Serial No. 470,981
10 Claims. (Cl. 35—25)



1. In an educational device of the character described, a flat element provided with a portion simulating the rear sight of a firearm, means associated with said element for simulating the appearance of the corresponding front sight when viewed through the rear sight, and a flat element provided with a portion simulating the appearance of a target when viewed through the rear sight, said last-named element being arranged behind the first-named element for relative endwise movements which bring the target into various relationships to said sights including incorrect relationships which should not exist as well as a correct relationship which should exist when the firearm is properly aimed.

2,324,842
COMPOSITOR CAMERA
William C. Huebner, New York, N. Y.
Application November 21, 1941, Serial No. 419,840
7 Claims. (Cl. 88—24)

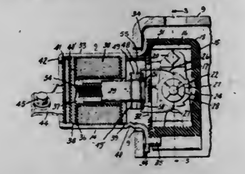


1. In a camera of the character described, the combination with a vertically disposed standard; a track section connected at one of its ends to the upper end of said standard by a pivot whose axis extends horizontally whereby said section may optionally assume either a vertical or horizontal position; a second track section pivotally connected at one of its ends to said pivotally connected end of the first section; a third track section pivotally connected at one of its ends to the other end of said second named track section, said track sections being optionally all alignable to form a single main track disposed either horizontally or vertically or disposed part at right angles to the remaining sections whereby to provide either a vertical, horizontal, or right angle camera; a copy holder carriage slidable on said track; a lens carriage slidable on said track; and cooperable means on said carriages and track sections for adjusting the carriages lengthwise of the track sections in any arrangement of the latter.

2,324,843
LUMINESCENT MATERIAL AND METHOD OF PRODUCING SAME
Rudolph C. Hultgren and Sampson Isenberg, Chicago, Ill., assignors to General Luminescent Corporation, Chicago, Ill., a corporation of Illinois
No Drawing. Application November 30, 1939, Serial No. 306,850
5 Claims. (Cl. 250—81)

1. The method of producing luminous magnesium tungstate, which comprises mixing together stoichiometric proportions of materials which on heating will produce magnesium tungstate, heating such materials at a sufficiently high temperature to cause reaction, mixing the compound with a small proportion of magnesium oxide and a sufficient proportion of an innocuous volatile liquid to form a relatively thin paste, ball milling such mixture until substantially the minimum particle size obtainable by progressive grinding in a ball mill is reached, drying the ground product and then refiring it.

2,324,844
REMOTE CONTROL SWITCH
Philip Hutt, Milford, Conn., assignor to General Electric Company, a corporation of New York
Application December 18, 1940, Serial No. 370,695
3 Claims. (Cl. 200—105)

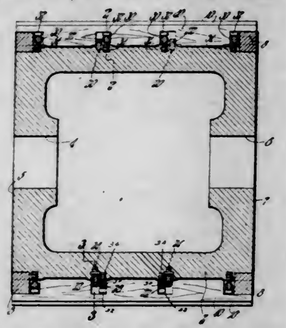


1. In a relay, a housing, spaced flexible contacts mounted in said housing and a cam member of insulating material supported by and between said contacts, the contacts and cam being provided with cooperating cam surfaces and follower elements for controlling a circuit through said contacts upon rotation of said cam.

2,324,845
BEATER ROLL
Dwight E. Jones, Pittsfield, Mass., assignor to E. D. Jones & Sons Company, Pittsfield, Mass., a corporation of Massachusetts
Application January 22, 1941, Serial No. 375,386
6 Claims. (Cl. 92—22)

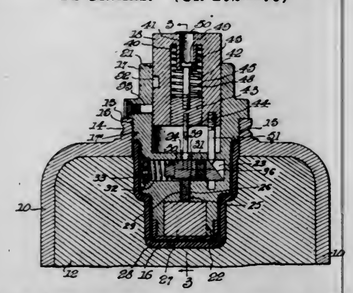
3. A beater roll of the class described comprising in combination, an elongated cylindrical unitary roll body having rings secured thereto in spaced relation longitudinally thereof provided with circumferentially spaced aligned slots, cutter bars extending longitudinally and dis-

posed in each of said slots, members extending between and into adjacent bars of a pair thereof and adjacent said rings provided with radially disposed openings, bushings threadedly engaging said body below said openings provided



with threaded openings, and cap screws extending through the openings in said members threadedly engaging the openings in said bushings.

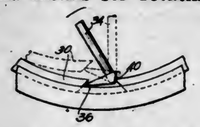
2,324,846
LAND MINE AND FUSE
Bryan P. Joyce, East Orange, Harold M. Brayton, Dover, and David J. Walsh, Jersey City, N. J., and David Dardick, Brooklyn, N. Y., assignors to American Armament Corporation, New York, N. Y., a corporation of Delaware
Application January 30, 1941, Serial No. 376,680
14 Claims. (Cl. 102—70)



1. In a land mine fuse, a body, a detonator carrier in said body normally occupying an unarmed position, depressible means carried by said body, means in said body actuated by said depressible means for moving said carrier to armed position, spring-actuated detonator-firing means in said body, and means controlled by said carrier for normally holding said spring-actuated firing means against operation and for releasing said spring-actuated firing means upon arrival of said detonator carrier at armed position.

2,324,847
TOOL
Reuben A. Kaplan, Owatonna, Minn., assignor to Owatonna Tool Company, Owatonna, Minn., a corporation of Minnesota
Application May 8, 1939, Serial No. 372,306
9 Claims. (Cl. 29—86.4)

1. In a ring extractor for removing a snap ring having spaced undercut ends from a slot formed on the inner surface of a bore, means insertable between said ends and comprising an element shaped to engage and bear against one of said ends, said means also comprising a second element adapted to extend beneath the other of said ends, and means for rotating said second

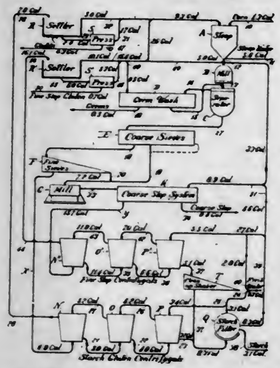


element about an axis substantially parallel to the axis of the bore to cause it to exert an inwardly radial thrust upon said other end to raise it out of said slot.

2,324,848
PROCESS OF PREPARING ANTIANEMIC CONCENTRATES
Havard L. Keil, Clarendon Hills, Ill., assignor to Armour and Company, Chicago, Ill., a corporation of Illinois
No Drawing. Application May 21, 1941, Serial No. 394,561
10 Claims. (Cl. 167—74)

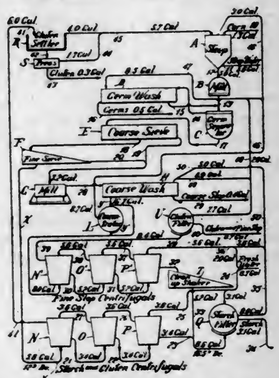
1. The process of recovering anti-anemic principles from animal tissue containing the same which comprises admixing an aqueous paste of the anti-anemic principle with methyl alcohol until the aqueous methyl alcohol portion of the resulting mixture has a concentration such that the methyl alcohol therein is at least 75%, separating the aqueous methyl alcohol solution containing the anti-anemic principle from insolubles in the mixture and recovering the anti-anemic principle from the aqueous methyl alcohol solution.

2,324,849
MANUFACTURE OF STARCH
Alfred H. Kelling, Chicago, Ill., assignor, by mesne assignments, to Corn Products Refining Company, New York, N. Y., a corporation of New Jersey
Application June 5, 1933, Serial No. 674,366
1 Claim. (Cl. 127—68)



In the process of obtaining starch from corn in which the corn is steeped and subjected to germ and coarse slop separations yielding separate starch milk streams: the improvement which comprises subjecting the starch milk from the germ separation to a centrifuging operation to remove the gluten from the starch; subjecting the starch milk from the coarse slop separation to a separate centrifuging operation to remove the gluten and fine slop; dewatering the gluten from said first named centrifuging operation and using the water for steeping corn as the process proceeds; and dewatering the gluten and slop magma from the second named centrifuging operation and using the water in later stages of the process.

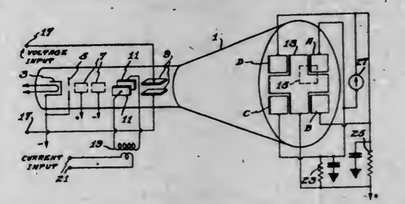
2,324,850
MANUFACTURE OF STARCH
Alfred H. Kelling, Oak Park, Ill., assignor, by mesne assignments, to Corn Products Refining Company, New York, N. Y., a corporation of New Jersey
Original application June 5, 1933, Serial No. 674,366. Divided and this application June 4, 1936, Serial No. 83,541
2 Claims. (Cl. 127—68)



2. Process of manufacturing starch from corn which comprises: steeping and comminuting the corn; subjecting the corn to germ and coarse slop separations in water; subjecting the mill starch from the germ separation to a series of centrifuging operations in which the underflow moves in one direction and the overflow, as wash water, moves in the other direction; settling the gluten out of the overflow from the centrifugal system and returning the gluten settler water to the steeping operation; concentrating the mill starch and fine slop mixture from the coarse slop separation, by elimination of water, and returning water from this operation to the steeping operation and germ separation; subjecting the concentrated coarse slop mill starch to a series of centrifuging operations in which the underflow moves in one direction and the overflow, as washwater, in the other direction; removing the gluten from the overflow from the last mentioned centrifuging operation and returning water from this operation to the germ and coarse slop separations; washing the starch and using the water therefrom in the coarse slop separation and as a wash water for the centrifuging operation on the coarse slop mill starch; and using fresh water for the centrifuging operation on the germ separation mill starch.

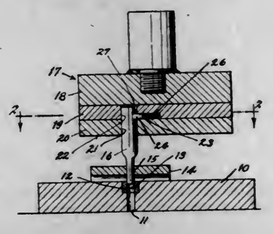
2,324,851
CATHODE RAY MEASURING DEVICE
Winfield R. Koch, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application March 31, 1941, Serial No. 386,147
8 Claims. (Cl. 171—95)

1. A cathode ray measuring device including a cathode, deflecting electrodes and a plurality of target electrodes all lying in the same plane, means including said cathode for forming on at least one of said target electrodes an electron image of said cathode covering at least one dimension of one of said target electrodes and having an area integrally proportional to the total area of said target electrodes, means including said deflecting electrodes for deflecting said im-



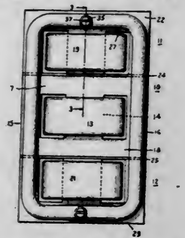
age along a predetermined path on and between said target electrodes as a function of the electric quantity to be measured, and means effectively connected to said target electrodes for measuring the electronic currents of said target electrodes as a function of said spot movements to indicate the magnitude and characteristics of said electric quantity.

2,324,852
TOOL
John Kopczynski, Buffalo, N. Y.
Application February 19, 1943, Serial No. 476,455
19 Claims. (Cl. 164—124)



1. A tool comprising a holder formed of two sections abutting face to face and having passages aligned end to end to form a recess extending through one section into the other, with its longitudinal axis normal to said faces, one of said sections having a cavity in that face thereof which abuts the other section and intersecting said recess, a tool element rotatable and slidable endwise in said recess and having a segmental kerf in a side thereof which may be aligned with and opening into said recess when said element is fully within said recess, a key confined within and slidable in said cavity, into and out of said kerf, a spring in said cavity urging said key yieldingly into said kerf, a peripheral zone of said element leaving an end of said kerf being circular to fit the abutting circular wall of said recess, whereby when said element is rotated about its longitudinal axis, while fully within said recess, in a direction to carry said zone thereof against said key, it will cam said key back in said cavity and out of said kerf to release said element, the entering end face of said element being beveled on an edge to cam aside said key and allow full entry of said element into said recess when said element is pushed endwise into said recess with said beveled edge aligned with the side of said recess intersected by said cavity.

2,324,853
CORE CLAMP
Herman R. Korte, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York
Application December 27, 1940, Serial No. 371,919
3 Claims. (Cl. 175—356)
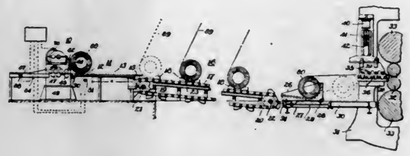


2. In combination with an electrical induction apparatus having a substantially rectangular laminated magnetic core with outer legs and yokes, a pair of clamping members for said core each comprising a stamped substantially rectangularly ring-like shaped sheet metal frame with straight sides connected by rounded corners and conforming to the contour of the outer legs and yokes, each of said frames having a substantially uniform channel shaped cross section at all points around its periphery, each of said frames around its periphery having a width less than the width of the outer legs and yokes and continuous edges terminating in a common plane so that the channel edges of said frames will engage said outer legs and yokes of said substantially rectangular core, and means for clamping said clamping members against the opposite faces of said outer legs and yokes.

2,324,854
PROCESS FOR SEPARATION OF ACRYLIC ACID NITRILE
Peter Kurtz, Johannes Casper, and Herbert Schwarz, Leverkusen - Wiesdorf, Germany; vested in the Alien Property Custodian
No Drawing. Application February 12, 1941, Serial No. 378,567. In Germany January 1, 1940
3 Claims. (Cl. 260—464)

1. Process for the separation of acrylic nitrile from the reaction mixture containing divinyl acetylene and obtained by reacting acetylene with hydrocyanic acid in the presence of a catalyst capable of bringing about addition reactions of acetylene with the formation of vinyl derivatives thereof, which comprises washing the gas mixture with water at a temperature ranging between 0 and 20° C. to dissolve the acrylic nitrile from the divinyl acetylene and recovering the acrylic nitrile from the aqueous solution thus obtained.

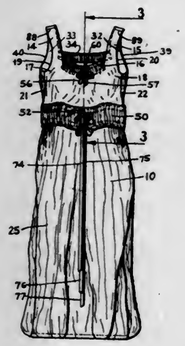
2,324,855
COIL HANDLING SYSTEM AND METHOD
Norman B. Lane, Englewood, William S. Mingle, Leonia, and Herman H. Colson, Teaneck, N. J., assignors to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
Application February 3, 1941, Serial No. 377,176
18 Claims. (Cl. 80—43)

1. A pre-rolling coil handling method which comprises positioning a coil of strip metal on its side in front of a rolling mill but remotely therefrom, unwinding the strip from the underside of the coil and moving it in a horizontal tangential path away from the mill, reversely bending the unwound strip in planes perpendicular thereto to form a straight tail, advancing the coil bodily toward the mill in substantially a straight line path into an unwinding position adjacent the mill, turning the coil on its axis upon said advancing movement through a distance at least equal to the length of said tail to bring its tail



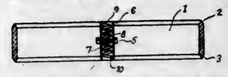
into a forwardly extending substantially horizontal position for entry into the mill during a latter part of said advancing movement, rotatably supporting the coil in said unwinding position to permit the strip to unwind therefrom as it passes through the mill, and handling another coil at said remote position during rolling of the strip.

2,324,856
MATERNITY NIGHTGOWN
Dorothy H. Leary, Waterbury, Conn.
Application August 29, 1940, Serial No. 354,710
1 Claim. (Cl. 2—73)



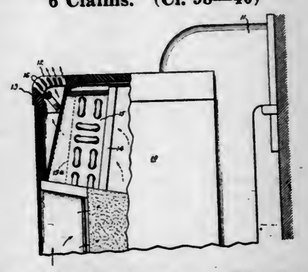
A slip-on closed maternity nightgown having integral waist and skirt sections comprising front and rear portions of similar shapes permanently stitched together at the sides thereof, said skirt sections being substantially larger than said waist sections, said front and rear portions at the junction of said waist and skirt sections being provided with V-shaped slashes extending inwardly from the side edges thereof to provide fullness, and the upper edge of said wider skirt section being gather-stitched to the lower edge of said waist section at said slashes, a wide hollow band embracing the front portion of said nightgown at the waistline and covering said slashes, a similar wide hollow band embracing the rear portion of said nightgown at the waistline, adjustable tying tapes positioned in said front band, and being secured at the side ends thereof, said tying tapes passing outside of said band at the center thereof, and stretchable elastic gathering tapes positioned in said rear band and secured to both ends thereof.

2,324,857
CUTTING DIE
Stanley Leskiewicz, Lynn, Mass., assignor to North Shore Cutting Dies Company, Lynn, Mass.
Application February 4, 1941, Serial No. 377,310
2 Claims. (Cl. 164—18)



1. In combination with a double edged clicker die, a double edged punch hole die extending the full length from edge to edge of the clicker die, a frame extending between the walls of the die stock of said clicker die substantially to a median position between the opposite edges of said clicker die, and supporting symmetrically therewith said punch hole die, a helical spring normally occupying the length of said punch hole die and a pin extending diametrically through the wall of said punch hole die midway between the ends of the die and passing between a spiral of said helical spring.

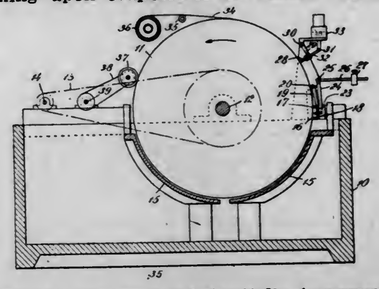
2,324,858
OUTLET GRILLE FOR AIR CONDITIONING APPARATUS
Samuel J. Levine, Verona, N. J., assignor to General Electric Company, a corporation of New York
Application January 2, 1941, Serial No. 372,745
6 Claims. (Cl. 98—40)



1. An outlet grille for air conditioning apparatus and the like comprising a member providing an outlet opening, a plurality of vanes associated with said opening, said vanes being arranged in two sets, one set for directing air flowing through the opening in one direction and the other set for directing the air in a different direction, and means including a member movable into either of two positions to shield one of said sets of vanes in one position and the other of said sets in its other position for selectively determining the direction of flow of air discharged through the opening.

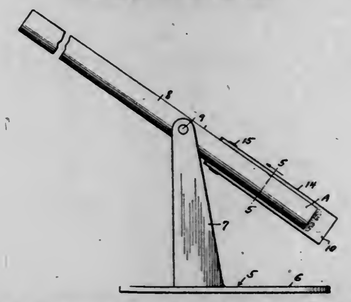
2,324,859
PROTECTING ELECTRODEPOSITED METAL SURFACES
Harry C. Macan, Rutherford, N. J., assignor to Anaconda Copper Mining Company, New York, N. Y., a corporation of Montana
Application April 30, 1940, Serial No. 332,553
1 Claim. (Cl. 204—13)

In the manufacture of sheet copper by electrodeposition from a suitable electrolyte, the method of protecting a surface of the electrodeposited sheet from discoloration which comprises washing and drying the surface of the sheet to be protected after withdrawal thereof from the electrolyte, and thereafter applying to the dry surface a coating of a volatile liquid hydrocarbon having good wetting properties and sufficiently volatile to evaporate quickly and completely from the sheet and carrying in solution from about 0.2 to 60 grams per liter of a wax capable of forming upon evaporation of volatile liquid an



extremely thin and substantially imperceptible protective coating over the surface of the sheet, said wax coating having the property of receiving and bonding to an adhesive.

2,324,860
TOY FIREARM
Albert L. Mannigel, New South Wales, Australia
Application April 13, 1940, Serial No. 329,543
In Australia July 5, 1939
1 Claim. (Cl. 42—55)

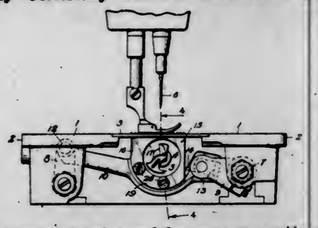


A toy cannon for use in igniting firecrackers and the like comprising a barrel for containing a firecracker and having an open breech end beveled from side to side of the barrel and provided with an edge notch therein into which the firecracker fuse may be bent to extend out of said barrel, a breech member comprising a pair of opposed arms straddling said barrel in advance of said breech end and pivoted at front ends thereof to the top and bottom of said barrel, respectively, for swinging of the rear ends thereof laterally toward and from said breech end of the barrel, and a breech block connecting the rear ends of said arms and having a beveled front face fitting against the breech end of said barrel and wedging against the same under swinging of said rear ends of the arms toward said breech end to frictionally interlock with said breech end and close said end and the notch from the rear thereof.

2,324,861
FEEDING MECHANISM FOR SEWING MACHINES
Leonard C. Marsac, Cranford, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application March 1, 1941, Serial No. 381,222
6 Claims. (Cl. 112—210)

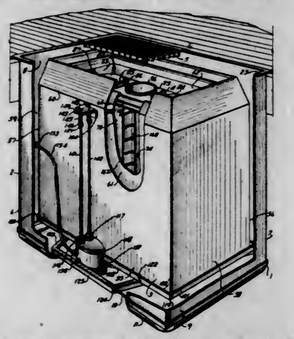
1. A feed-dog for sewing machines, compris-

ing, a plate-like shank, and spaced work-engaging teeth carried by the upper portion of said shank, said shank being provided with a substantially centrally located clearance aperture



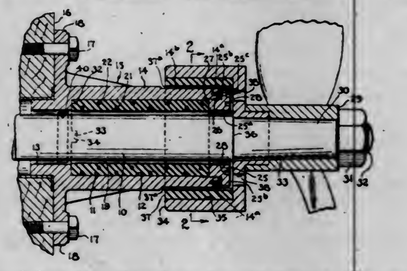
and an arcuately shaped lower supporting bearing-portion, said shank being adapted to be secured to a feed-bar and being formed with at least one clamp-screw receiving aperture.

2,324,862
FLOOR FURNACE
Russell Martin, Wichita, Kans., assignor to The Coleman Lamp and Stove Company, Wichita, Kans., a corporation of Kansas
Application February 13, 1941, Serial No. 378,698
11 Claims. (Cl. 126—116)



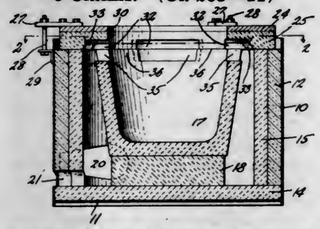
1. A floor furnace including, a jacket having a flue connection, a heating unit comprising a burner and combustion chamber positioned in the jacket and removable through the top thereof, an outlet collar fixed to the combustion chamber, a contractable band for removably connecting the outlet collar with the flue connection, and a supporting frame carrying said unit and having support within said jacket.

2,324,863
BEARING
John S. Merchant, Cuyahoga Falls, Ohio
Application December 13, 1941, Serial No. 422,821
6 Claims. (Cl. 308—238)



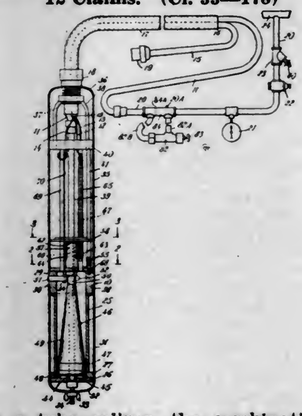
1. A bearing structure for marine or like propeller shafts, comprising a housing, a bearing of rubber or like material in said housing, a propeller shaft journalled in said bearing and having a propeller thereon at an end of the shaft adjacent said housing, a member secured to said shaft intermediate said propeller and said housing, said housing and said member having cylindrical cooperating walls in radially spaced relation, a bearing of rubber or like resilient material mounted between said cooperating walls, and means for supplying lubricating liquid to said bearings.

2,324,864
CRUCIBLE FURNACE
Chester E. Milligan, Cincinnati, Ohio, assignor to Electro Refractories & Alloys Corporation, Lackawanna, N. Y.
Application October 11, 1941, Serial No. 414,549
6 Claims. (Cl. 263—11)



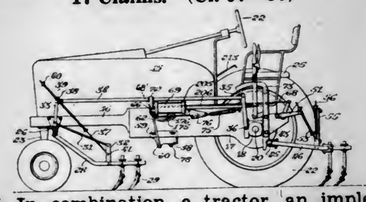
1. A crucible furnace having an outer substantially annular wall, a crucible arranged within said wall to form therewith an annular combustion chamber, a cover for said furnace which closes the upper end of said combustion chamber and which has an opening therein which is substantially coextensive with the open upper end of the crucible, said crucible having a portion thereof of less height measured to the upper edge of the crucible than other portions and spaced from said cover to form a passage for products of combustion from said combustion chamber across the upper portion of said crucible.

2,324,865
TUBE CALIPER
Verba Austin Milligan, Pasadena, Tex., assignor to Sinclair Refining Company, New York, N. Y., a corporation of Maine
Application May 1, 1941, Serial No. 391,340
12 Claims. (Cl. 33—178)



1. In a tube caliper, the combination which comprises a cylinder adapted to be disposed within the tube to be calipered, a tapered piston slidable in the cylinder, a plurality of radially spaced feelers projecting through and movable transversely with respect to the wall of the cylinder, the outer ends of the feelers being adapted to engage the inner surfaces of the tube with the interior ends of the feelers bearing against the tapered portion of the piston and slidable with respect thereto, means for holding the feelers against the tapered portion of the piston as it is slid with respect to the cylinder and the feelers, means for forcing a fluid under pressure into the cylinder to slide the piston, and means for determining the relative position of the piston with respect to the cylinder when the feelers are in contact with the inner surface of the tube comprising an elongated calibrated member disposed substantially parallel to the axis of the cylinder and a slider member movable along the calibrated member, one of said members being mounted in fixed relationship to the cylinder and the other of said members being mounted in fixed relationship to the piston.

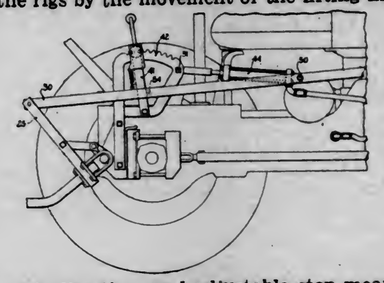
2,324,866
HYDRAULIC LIFTING ARRANGEMENT
Carl W. Mott, La Grange, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application March 26, 1940, Serial No. 326,059
17 Claims. (Cl. 97—50)



17. In combination, a tractor, an implement mounted on the tractor for movement with respect to the same to and from a working position, a fluid pump for supplying fluid under pressure for establishment in power-transmitting relation with and for moving the implement from the working position, a manually manipulatable valve in control of the fluid supplied by said pump and manipulatable to an active position for so establishing such fluid in power-transmitting relation between the pump and the implement, retaining means settable for retaining the valve control means in said active position, and means responsive to the pressure of the pumped fluid for so setting said retaining means.

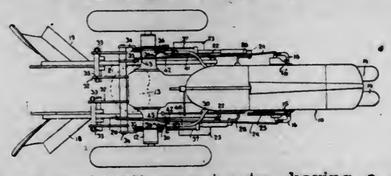
2,324,867
MOVABLE MEANS FOR TRACTOR MOUNTED IMPLEMENTS
Carl W. Mott, La Grange, and Hiram P. Smith, Canton, Ill., assignors to International Harvester Company, a corporation of New Jersey
Application March 26, 1940, Serial No. 326,062
10 Claims. (Cl. 97—50)

1. In combination, a tractor having forward and rearward portions and implement rigs respectively connected to said portions for vertical movement, a fore and aft movable lifting means extending along the side of the tractor between the forward and rearward portions thereof and including two levers respectively pivotally disposed upon said tractor portions for fore and aft movement of free ends thereof and a rod member interconnecting such free ends of the levers, power means for operating the lifting means in one direction, means for connecting the rigs to the lifting means to cause lifting of the rigs by the movement of the lifting means



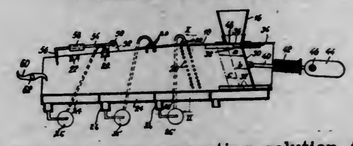
in such direction, and adjustable stop means on the rearward portion of the tractor adapted for engagement with said lifting means to limit movement of the same in the opposite direction.

2,324,868
TWO-WAY PLOW
Carl W. Mott, La Grange, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application September 23, 1940, Serial No. 357,879
11 Claims. (Cl. 97—50)



1. In combination, a tractor having a rear axle housing with an operator's station thereon, alternate right-hand and left-hand plows pivotally connected respectively to the tractor for vertical movement to and from their respective plowing positions and extending rearwardly of the rear axle housing, means for lifting the plows to a lifted position including a pivotal lever means and fluid actuating cylinders for each of the plows, common means at each side of the tractor for fixing the lever means and a cylinder to the rear axle housing in proximity to the operator's station, and individual control valve means carried by each cylinder device for locking one of the cylinder devices, irrespective of the position of the other, in either its lifted or plowing position.

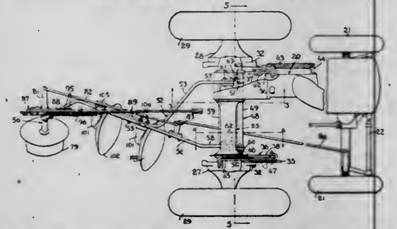
2,324,869
APPARATUS FOR SEPARATING SOLUTION FROM A MIXTURE OF SOLUTION AND ICE CRYSTALS
Erik Öman, Stocksund, Sweden
Application January 9, 1939, Serial No. 250,028
In Sweden January 14, 1938
2 Claims. (Cl. 100—50)



2. Apparatus for separating solution from a mixture of solution and ice or snow crystals pro-

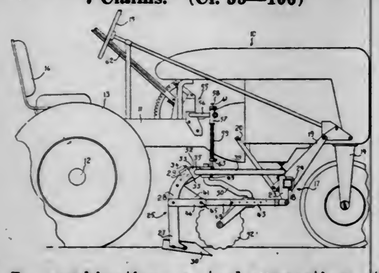
duced by freezing water out of a solution of a substance in water, comprising a substantially horizontal channel having a bottom formed by longitudinal spaced bars or ribs, the spaces between said bars or ribs being narrower at the intake end than along the main portion of the channel, means for supplying a mixture of solution and ice or snow crystals at the intake end of said channel, means for intermittently applying pressure to the mixture to compress the same to form a continuous bar of ice and positively to advance the bar longitudinally through the channel, means for supplying washing liquid for passage of the same transversely through the bar at substantially right angles thereto during its advancement and means for removing the escaping solution.

2,324,870
AGRICULTURAL IMPLEMENT
John R. Orelind, Evanston, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application November 23, 1940, Serial No. 366,906
16 Claims. (Cl. 97—47)
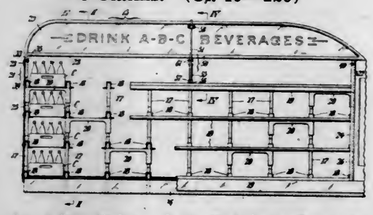


1. In combination, a tractor having substantially transversely alined portions, an implement having laterally spaced portions thereon, hitch means for connecting the implement to the transversely alined portions of the tractor for lateral movement with respect thereto including an equalizer means extending between the laterally spaced portions of the implement, and means for connecting the equalizer means between the transversely alined portions of the tractor for rotation about a transverse axis, whereby motion received by one side of the implement will be equalized by being imparted to the other side of the implement thereby effecting an imaginary hitch point intermediate the transversely alined portions of the tractor.

2,324,871
TRACTOR-MOUNTED IMPLEMENT
John R. Orelind, Evanston, and Arthur G. Evans, Canton, Ill., assignors to International Harvester Company, a corporation of New Jersey
Application June 30, 1941, Serial No. 400,368
7 Claims. (Cl. 55—106)



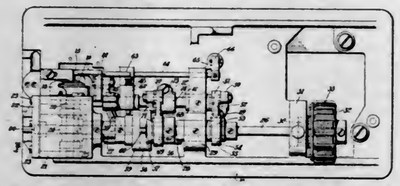
1. In combination, a tool-supporting structure, a pair of laterally spaced vertically extending tool standards, each of said standards having lower, upper, and intermediate portions, a working tool connected to a lower portion of each of the respective standards, and means for connecting the standards to the tool-supporting structure for vertical movement including a single casting serving to connect together the upper portions of the spaced tool standards and having a laterally extending opening therein, a single link connected to the tool-supporting structure for vertical pivotable movement but with means being provided to maintain the same against lateral movement with respect thereto, said link having a transversely extending portion fitted within said laterally extending opening whereby the standards are laterally stabilized, and links for connecting respectively the intermediate portions of the standards with the tool-supporting structure.

2,324,872
ADVERTISING SIGN
George W. Parker, Jr., Philadelphia, Pa., assignor to Specialty Engineering Company, Philadelphia, Pa., a corporation of Pennsylvania
Original application December 1, 1938, Serial No. 243,327. Divided and this application October 24, 1940, Serial No. 362,508
8 Claims. (Cl. 40—129)



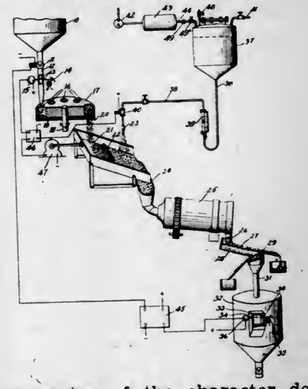
1. An advertising sign structure for use on a truck body, including a panel; and a transverse brace means having a central notch to engage over the top edge of the panel and side legs whereof the ends are adapted to penetrate the truck body for anchorage, and a crosswise member extending between the legs of the brace to support the lower edge of the panel.

2,324,873
FEEDING MECHANISM FOR SEWING MACHINES
Frank Parry, Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application December 11, 1941, Serial No. 422,482
10 Claims. (Cl. 112—215)



1. Feeding mechanism for sewing machines having a frame including a work-support, a work-advancing feed-dog operating through said work-support, a feed-bar carrying said feed-dog and disposed below said work-support, a feed-rocker disposed below said work-support and pivotally connected to said feed-bar, a feed-lift rock-shaft disposed below said work-support and operatively connected to said feed-bar for imparting work-engaging and disengaging movements to said feed-dog, a rotary actuating shaft disposed below said work-support and substantially parallel to said rock-shaft, operative connections with said rotary shaft for actuating said rock-shaft, a feed-advance lever fulcrumed coaxially of said rock-shaft, a link connecting said lever to said feed-rocker independently of said feed-bar, an actuating eccentric carried by said rotary shaft, and a pitman actuated by said eccentric and operatively connected to said lever for imparting work-advancing and return movements to said feed-dog.

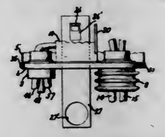
2,324,874
PROCESS AND APPARATUS FOR TREATING FOODSTUFFS
Fredus N. Peters, Evanston, Ill., assignor to The Quaker Oats Company, Chicago, Ill., a corporation of New Jersey
Application March 3, 1941, Serial No. 381,462
12 Claims. (Cl. 99—237)



7. An apparatus of the character described comprising, in combination, an inclined table, a distributor for distributing a measured quantity of cereal in a uniform layer on said table, vibrator means for vibrating said table to cause said layer of cereal to flow at a uniform rate downwardly across said table, spray producing means disposed above said table to spray an aqueous fortifying fluid on said layer as it moves across said table, a supply conduit for supplying fortifying fluid to said spray nozzle, a drier for drying the sprayed cereal, means for conducting the sprayed cereal from said table to said drier, means for discharging said cereal from said drier, and control means for regulating the rate at which the fluid is supplied to said fluid supply conduit.

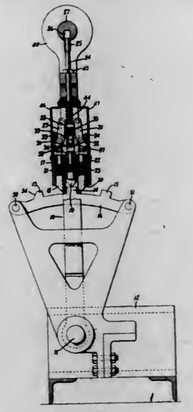
2,324,875
PROTECTIVE DEVICE
Justin Peterson, Lynn, and Frederick A. Weigel, East Lynn, Mass., assignors to General Electric Company, a corporation of New York
Application July 17, 1940, Serial No. 345,956
2 Claims. (Cl. 175—294)

1. In a protective system for a series lighting circuit, the combination of an actuating circuit including a pair of contacts operable to effect an opening of the supply switch to said circuit, means for operating said contacts comprising a time delay switch provided with a thermostatic element, said thermostatic element being operable at a temperature which is on the order of a multiple of the average ambient temperature under which said thermostatic element is caused to operate, and means for conducting heating



current to said thermostat responsive to an interruption of current in said protected circuit to effect an operation of said time delay switch.

2,324,876
CONTROLLER OPERATING MECHANISM
William R. Quentin, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application July 4, 1942, Serial No. 449,825
10 Claims. (Cl. 74—565)

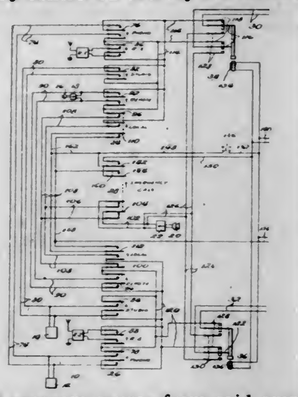


1. Stop mechanism for two members, at least one of which is movable relative to the other, comprising a stop projection on one of said members in the path of relative movement of said members, two latches on the other of said members, means biasing said latches to positions to embrace said stop, release mechanism for moving said latches to second positions to clear said stop, and disabling means for said release mechanism rendered ineffective by engagement with said stop when said latches are in positions to embrace said stop but released by disengagement from said stop upon relative movement of said members for disabling said release mechanism thereby to prevent the holding of said latches in said second positions.

2,324,877
COMMUNICATION SYSTEM
Norman H. Reeve, Racine, Wis., assignor to Webster Electric Company, Racine, Wis., a corporation of Delaware
Application June 7, 1941, Serial No. 397,117
22 Claims. (Cl. 179—2)

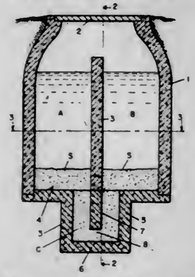
1. In a program distributing and calling system, the combination including, amplifying means, switch means for selectively connecting program sources to said amplifying means, a call-

ing microphone, and means including a switch and a relay controlled thereby for disconnecting



a selected program source from said amplifying means and connecting said microphone thereto.

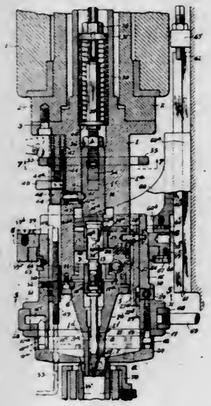
2,324,878
CISTERN CONSTRUCTION
Bruce D. Richmond, Steubenville, Ohio
Application February 19, 1942, Serial No. 431,563
6 Claims. (Cl. 72—9)



1. In a cistern construction, the combination of a water reservoir, a wall dividing said reservoir into two compartments, one for receiving water and the other for the withdrawal of water, a bottom wall forming the bottom of both of said compartments in the same horizontal plane, and filtering means located below said bottom wall of said reservoir, said filtering means communicating at each end with each of said compartments, whereby all of the water contained in said receiving compartment and passing to said withdrawing compartment passes through said filtering means.

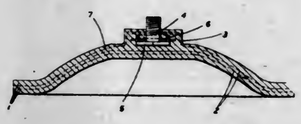
2,324,879
TOOL FOR CUTTING THREADS
Alexander F. Robertson, South Euclid, Ohio, assignor to The Pipe Machinery Company, Cleveland, Ohio, a corporation of Ohio
Application June 29, 1942, Serial No. 448,935
14 Claims. (Cl. 10—145)

14. In a thread-cutting tap comprising a tool body; thread-forming chasers movably mounted on the front end of the tool body; an inner slide structure supported in the tool body for contracting and expanding the chasers; and an outer slide structure operatively connected with the inner slide structure to move the latter longitudinally of the tool body and comprising a member slidably mounted on the tool body and held against rotation in relation thereto and having a continuous annular portion; the combination therewith of means for supplying lubricating or cooling liquid to the chaser comprising a ring mounted on said annular portion of the outer slide so that the latter can turn in the ring when the ring is held against rotation, one of the two relatively turning parts being formed with an interior annular channel for the lubricating or cooling liquid, a liquid supply conduit connected



to said ring in communication with said annular channel, a separately formed ring having one of its front and rear sides formed with a circumferentially extending channel for liquid with a discharge aperture opening radially inward and being attached to the front end of said outer slide member with its channel in communication with the first mentioned channel, and a centrally apertured work-engaging pressure plate secured to the front side of the last named ring.

2,324,880
VALVE DIAPHRAGM
Vivian Ceredig Rogers, Lower Pontnewydd, near Newport, and David Purss Barr, Pontnewydd, near Newport, England, assignors to Saunders Valve Company Limited, Cwmbran, England
Application October 10, 1941, Serial No. 414,524
In Great Britain October 25, 1940
3 Claims. (Cl. 137—157)

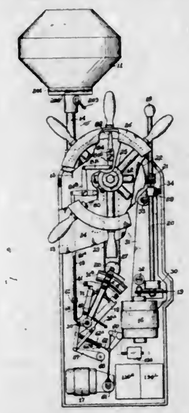


1. A valve diaphragm, comprising an elastic diaphragm body, an attachment stud the head of which is embedded in the diaphragm body and the shank of which projects therefrom, and a metallic ring embedded in the diaphragm body and surrounding the shank of the stud, the inner diameter of the ring being greater than the outer diameter of the shank, whereby the diaphragm material surrounding the shank and within the ring is prevented from stretching radially.

2,324,881
TETRACYCLIC COMPOUNDS AND PROCESS OF MAKING SAME
Leopold Ruzicka and Moses Wolf Goldberg, Zurich, Switzerland, assignors to Ciba Pharmaceutical Products, Incorporated, Summit, N. J.
No Drawing. Application January 22, 1941, Serial No. 375,541. In Switzerland January 17, 1940
16 Claims. (Cl. 260—586)

1. A process for the manufacture of tetracyclic compounds by ring extension, which comprises reacting a compound of the steroid series which contains at least one hydroaromatic ring having in 17-position a side chain containing a reactive monovalent substituent, selected from the group consisting of amino, hydroxyl, substituted amino capable of being hydrolized to amino, and substituted hydroxyl capable of being hydrolized to hydroxyl, attached to the carbon atom adjacent the ring, with an agent capable of splitting off the said monovalent substituent.

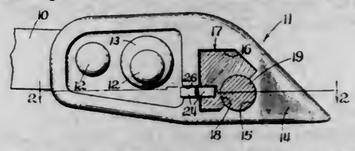
2,324,882
AUTOMATIC STEERING APPARATUS
Neil T. Sawdey, Shaker Heights, Ohio
Application October 18, 1941, Serial No. 415,543
15 Claims. (Cl. 114—144)



1. Steering apparatus comprising in combination, a compass, a rudder, a driving motor for said rudder, switching controls for said driving motor, and a mechanical connection between said compass and said switching controls; said mechanical connection comprising intermittently-acting feelers responsive to the direction of said compass, an electrical contact-carrying element responsive to the response of said feelers, and another electrical contact-carrying element responsive to the position of said rudder.

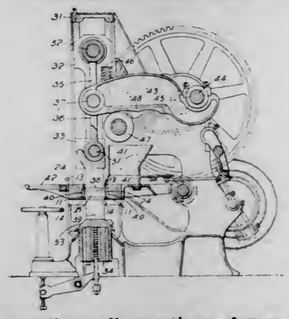
2,324,883
ROD WEEDER SHOE
Arthur A. Scarlett, Hamilton, Ontario, Canada, assignor, by mesne assignments, to International Harvester Company, Chicago, Ill., a corporation of New Jersey
Application December 31, 1940, Serial No. 372,581
3 Claims. (Cl. 308—37)

1. In a rod weeder shoe having an opening in which a bushing is fitted, means for holding said bushing in said shoe, comprising a retainer consisting of two pieces of metal secured together intermediate the ends thereof and positioned transversely between the bushing and the shoe



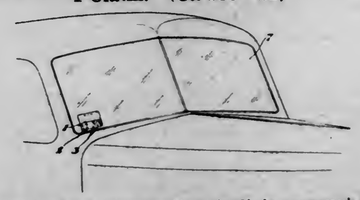
and having its ends bent over into engagement with the bushing and the shoe.

2,324,884
BRICK PRESS LINER
Gilbert E. Seil, Cynwyd, Pa., assignor to E. J. Lavino and Company, Philadelphia, Pa., a corporation of Delaware
Application March 11, 1942, Serial No. 434,197
2 Claims. (Cl. 25—122)



1. Composite wall members for a mold box comprising vertically disposed pairs of side framing plates and of end framing plates having recesses in their operative surfaces, and inserts of wear-and abrasion-resistant materials located in the recesses of said framing plates, characterized by the pair of side framing plates each having a margin section circumjacent to its embraced insert and the pair of end framing plates each having margin sections embracing its insert at the top and at the bottom but leaving the vertical boundaries of the insert exposed, with the framing plates when arranged as a mold box providing plate-to-plate contact but no insert-to-insert contact and no plate-to-insert contact between angularly adjacent abutting framing plates.

2,324,885
MOTOR VEHICLE WINDSHIELD STICKER
Clarence O. Sherrill, Cincinnati, Ohio
Application January 29, 1942, Serial No. 428,758
1 Claim. (Cl. 283—21)



Motor vehicle inspection indicia comprising a motor vehicle windshield formed from glass or the like and a sticker positioned thereon; said sticker comprising a backing and lines of spaced apertures punched therethrough to form date indicating characters; said windshield glass con-

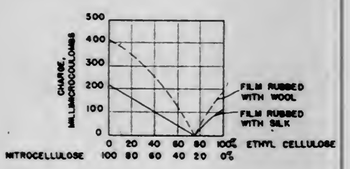
stituting darkened background for providing contrast between the aperture formed indicia and the sticker backing to an observer positioned at the front of the windshield.

2,324,886
WELL TOOL
Andy Sowders, Trosper, Ky.
Application February 26, 1942, Serial No. 432,488
4 Claims. (Cl. 294—99)



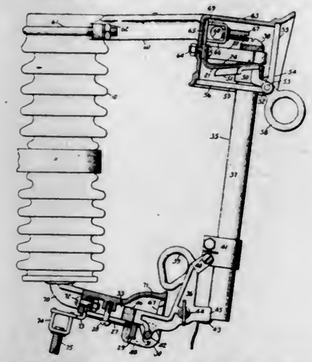
1. A well tool comprising a shank, two pairs of blade like spring gripping jaws, means securing the jaws to the shanks upon diametrically opposite sides thereof for disposal in depending relation therefrom and with the jaws arranged at right angles to each other, said jaws being bowed outwardly from their connection with the shank and having their lower ends normally arranged substantially in contact with each other, trigger means for disposal between the jaws of each pair in bridging relation thereto for holding the same in open position, and flexible means connecting the trigger means to the shank.

2,324,887
STATIC-FREE SHEETING
John K. Speicher, Newark, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
Application December 20, 1940, Serial No. 370,922
10 Claims. (Cl. 106—169)



6. A self-supporting, flexible wrapping foil comprising interdispersed ethyl cellulose having a viscosity above about 90 centipoises and nitrocellulose having a viscosity above about 4 seconds in a ratio between about 70 parts of ethyl cellulose to 30 parts of nitrocellulose and about 90 parts of ethyl cellulose to 10 parts of nitrocellulose, the ethyl cellulose and nitrocellulose being adjusted in proportion to their point of static neutrality, the said foil being characterized by substantially no capacity for taking a static charge.

2,324,888
ELECTRIC SWITCH
Rudolph W. Strobel, Stephentown, N. Y., assignor to General Electric Company, a corporation of New York
Application May 1, 1940, Serial No. 332,718
16 Claims. (Cl. 200—114)



1. An electric switch of the open type, comprising spaced terminals, a protective hood for a contact portion of one of said terminals, the other of the terminals being outside of said hood, a switch element for removable connection between said terminals, said element being pivotally supported exteriorly of said hood and having a contact portion for engagement with said contact portion of said one terminal, and closure means for said hood, which said means is supported on said switch element and is formed and arranged for cooperation with the hood to provide a relatively tight housing completely enclosing said contact portion of said one terminal and said contact portion of said switch element when the latter is in connected position.

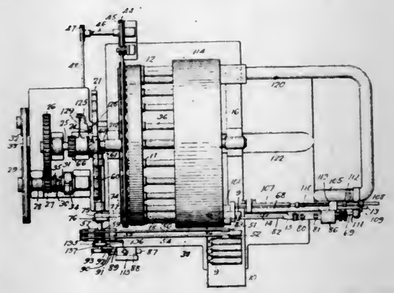
2,324,889
METHOD OF MAKING SHOE HEELS
Julius Susskind, Brookline, Mass., assignor of one-half to Harry Freedman, Boston, Mass.
Application December 3, 1941, Serial No. 421,496
1 Claim. (Cl. 12—147)



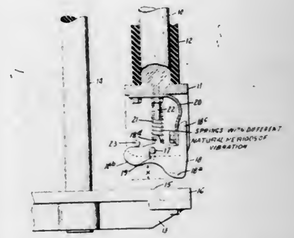
A method of making a cushion heel, said method consisting in providing a Celluloid top plate and a rubber heel body of substantially the same plan shape, softening the top plate with Celluloid solvent, securing the top plate to the upper surface of the heel body with cement, pressing the top plate and heel body together to complete the union therebetween, removing the pressure from the united top plate and heel body and allowing the same to stand until the Celluloid top plate dries and warps into a permanent concavo-convex form with which the heel body conforms.

2,324,890
COLLAPSIBLE TUBE SPRAYING MACHINE
George W. Temple, Flushing, N. Y., assignor to Victor Metal Products Corporation, Brooklyn, N. Y., a corporation of New York
Application August 7, 1941, Serial No. 405,734
20 Claims. (Cl. 91—45)

1. In a machine for coating the interior surface of collapsible tubes, a hollow tube holder, means for intermittently moving the holder to a mounting station, a spraying station and an ejecting station, reciprocating means at the mounting station to mount a tube in the holder, means for rotating the holder, means for spraying the tube interior at the spraying station while the holder is rotating, means between the mounting and ejecting stations to heat the coated tube, and means at the ejecting station to engage the holder and to direct fluid under pressure against the end of a tube in the holder to eject the tube.



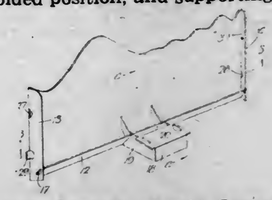
2,324,891
ELECTRIC CIRCUIT INTERRUPTER
Carl Thumim, Yeadon, Pa., assignor to General Electric Company, a corporation of New York
Application May 1, 1941, Serial No. 391,381
4 Claims. (Cl. 200—146)



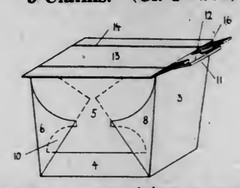
1. In a contact structure for an electric circuit interrupter, a stationary conducting element, a movable conducting element, means pivotally supported by one of said conducting elements including an arcing contact and a main current-carrying contact so constructed and arranged with respect to said conducting elements as to provide a butt contact, and means including a slotted opening in said first-mentioned means for producing relative movement between the cooperating parts of said butt contact after engagement of such parts, whereby an efficient contact is insured.

2,324,892
TOY SCENERY
Donald M. Warren, La Fayette, Ind.
Application September 5, 1941, Serial No. 409,627
5 Claims. (Cl. 46—21)

1. In a toy device of the class described, a horizontally elongated, flexible panel, a rearwardly bent bottom flange on said panel, means for locking said flange in predetermined rearwardly folded position, and supporting means intermediate the length of said flange for maintaining the panel in upright position.

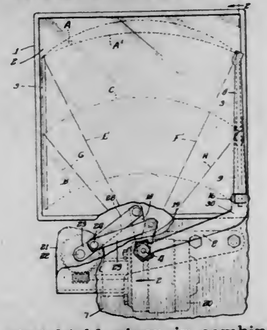


2,324,893
PAPER SPUTUM CUP
Adolph Warsher, Great Neck, and Jacob Pollock, Kew Gardens, N. Y.
Application December 11, 1942, Serial No. 468,632
5 Claims. (Cl. 4—271)



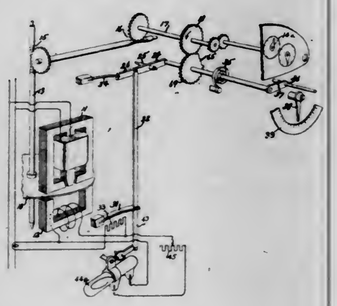
1. A container comprising a cup-like part; a cover; and a hinge connecting said cup-like part of said cover, said hinge comprising a longitudinally folded strip of pliable and elastic material divided into sections and pressing means formed by integral parts of said hinge, confined within the length of said hinge not longer than the width of said cover and pressing said sections resiliently against each other whereby said cover is resiliently pressed, toward said cup-like part.

2,324,894
WINDSHIELD WIPER
John B. Whitted, Evanston, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia
Application March 9, 1942, Serial No. 433,939
10 Claims. (Cl. 15—253)



1. In a windshield wiper, in combination with a wiper blade, a pair of actuating arms therefor connected to the blade at points spaced apart in the length thereof, said arms being fulcrumed to swing about a common axis, and driving means with transmitting mechanism therefrom actuating said arms simultaneously through different angles proportioned to maintain the blade substantially parallel to its initial position throughout the range of movement.

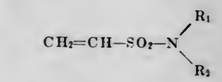
2,324,895
HEAVY LOAD INDICATOR FOR WATT-HOUR METERS
Harry M. Witherow, Clifton, Mass., assignor to General Electric Company, a corporation of New York
Application November 4, 1940, Serial No. 364,158
4 Claims. (Cl. 171—34)



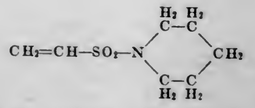
4. In an integrating meter of the watthour type, a maximum demand indicator, a shaft for operating said indicator and means responsive to the increase and decrease of the load current of said meter above and below approximately a predetermined value for respectively connecting and disengaging said shaft to and from driving relation with said meter, and means for resetting said shaft whereby said demand indicator indicates the maximum integration of said meter over the one period of greatest overload during which the load current has exceeded such predetermined value between the resetting operations of said shaft.

2,324,896
MIXED POLYMERIZATION PRODUCTS
Werner Zerweck and Wilhelm Kunze, Frankfort-on-the-Main-Fechenheim, Germany, assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application February 6, 1941, Serial No. 377,662. In Germany January 27, 1940
9 Claims. (Cl. 260—86)

1. Mixed polymerization products obtained by polymerizing a vinyl sulfamide selected from the class consisting of those of the formulae

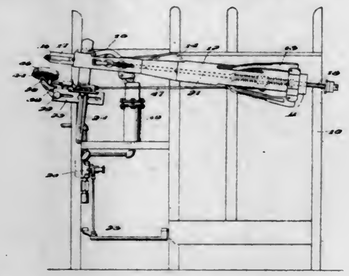


and



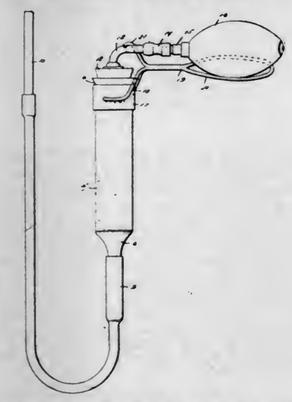
wherein R_1 is a member of the group consisting of alkyl, aralkyl and aryl of the benzene series, R_2 is a member of the group consisting of hydrogen, aliphatic acyl and alkyl, R_2 being one of the latter two members only when R_1 is aryl, with a different polymerizable vinyl compound.

2,324,897
HOSIERY INSPECTING MACHINE ATTACHMENT
Edward R. Ammon, Reading, Pa.
Application September 11, 1941, Serial No. 410,486
9 Claims. (Cl. 223—77)



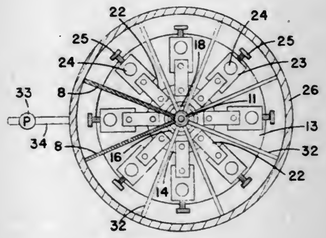
1. In a hosiery inspecting machine, a stocking receiving form having movable stocking stretching parts, actuating means for expanding said stretching parts, mirror means for viewing areas of a stocking at a portion of the form obscured from direct vision movable between a viewing position in optical registry with said obscured form portion and a retracted position free from interference with the manipulation of stockings on and off the form, and means for moving the mirror means between retracted and viewing positions in response to operation of the means actuating the stocking stretching parts, whereby the mirror means will be in viewing position when the stocking stretching parts are expanded during periods of stocking inspection, and will be in retracted position when the stocking stretching parts are retracted during periods of manipulation of stockings on and off the form.

2,324,898
SYRINGE
Charles A. Anderson, Burlington, N. C.
Application April 14, 1941, Serial No. 388,520
2 Claims. (Cl. 128—225)



1. A syringe comprising a tubular liquid container having a nozzle attached at one end, a closure in the other end of the container, a rubber bulb connected to the closure and adapted to communicate with the container through the closure, a handle underlying and supporting the bulb, and means carried by the handle for retaining the closure in position.

2,324,899
METHOD AND APPARATUS FOR TAKING A SERIES OF SPECTROGRAPH MEASUREMENTS
Marion A. Arthur, Houston, Tex., assignor to Standard Oil Development Company, a corporation of Delaware
Application July 11, 1941, Serial No. 401,998
5 Claims. (Cl. 176—41)



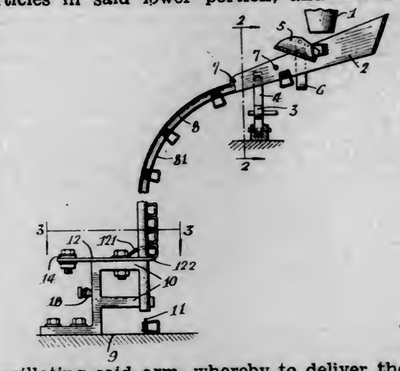
1. In a device for obtaining a series of determinations by a spectrograph, in combination, means for mounting a plurality of electrodes in pairs with each pair in spaced relation, means for serially bringing each of said spaced pairs to a predetermined point, and means arranged to enclose the pair of electrodes at said predetermined point in a substantially gas-tight chamber to shield them from the remainder of the electrodes.

2,324,900
MANUFACTURE OF VARNISH BASES
László Auer, East Orange, N. J., assignor to Ridbo Laboratories, Inc., Paterson, N. J., a corporation of New Jersey
No Drawing. Original application February 12, 1940, Serial No. 318,650. Divided and this application March 29, 1941, Serial No. 385,847. In Hungary May 19, 1926
21 Claims. (Cl. 106—219)

1. In the preparation of varnish bases, the process which comprises mixing an organic isocolloid varnish base material selected from the class consisting of fatty oils and varnish resins, with a metal salt of an inorganic acid, said salt being selected from the class consisting of metal carbonates, sulphides and sulphites which are difficultly soluble in water, the quantity of said metal salt being from about 2% up to about 10% of said varnish base, and thoroughly dispersing said metal salt in the varnish base by heating the mixture to a polymerizing temperature above 200° C. but not above 350° C. or the boiling or decomposition point of the mixture.

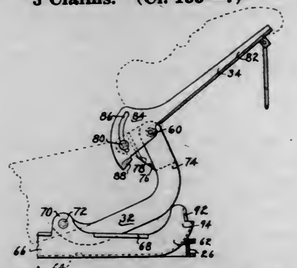
2,324,901
SPRING FEEDING APPARATUS
Henri Bedard, Levis, Quebec, Canada, assignor to Hervé Baribeau, Levis, Quebec, Canada
Application November 19, 1941, Serial No. 419,678
2 Claims. (Cl. 193—40)

1. A feeding apparatus for coil springs comprising a pair of spaced plates converging and spaced apart at their lower edges, hammers adapted to strike and vibrate said plates, a slotted tube extending downwardly from said plates, the lower portion of said tube being vertical, a pivoted arm having rigid converging fingers at different levels adapted to retain two separate articles in said lower portion, and means for



oscillating said arm, whereby to deliver the articles singly from said track at intervals.

2,324,902
SEAT CONSTRUCTION
Alexander Benzick and Herman C. Rusch, Milwaukee, Wis., assignors to Nash-Kelvinator Corporation, Kenosha, Wis., a corporation of Maryland
Application March 28, 1940, Serial No. 326,438
3 Claims. (Cl. 155—7)

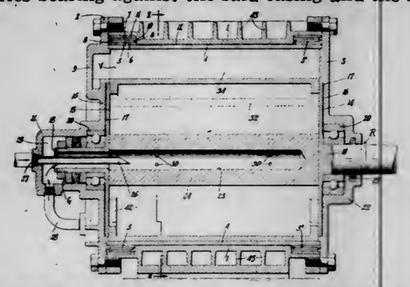


3. Seat construction comprising a base having a flange, a portion of said flange bent up to form a lug, a lower hinge leaf, a pivot passed through said lug and the front end of said lower hinge leaf, an upper hinge leaf, a second pivot joining said upper hinge leaf to the rear of said lower hinge leaf, said upper hinge leaf having a lower segment shaped portion with a flange thereon and defining an arcuate slot, means on said lower hinge leaf engageable with said arcuate slot for limiting the rotation of said upper hinge leaf about said second pivot and means on said base engageable with the flange on said upper hinge leaf when said upper hinge leaf is at one limit of its rotation about said second pivot for preventing rotation of said upper hinge leaf about said second mentioned pivot, said last mentioned means being rendered inoperative by rotating said lower hinge leaf forward about said first mentioned pivot.

2,324,903
ELASTIC FLUID COMPRESSOR OR MOTOR
Richard Beckman, New York, N. Y., assignor of one-half to Otto Gries, New York, N. Y.
Application January 28, 1939, Serial No. 253,252
4 Claims. (Cl. 230—152)

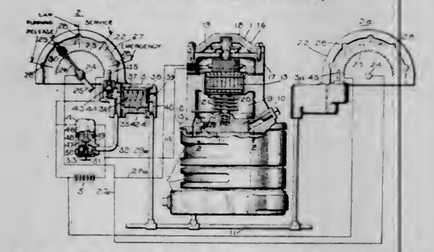
1. A fluid-pressure device comprising in combination a main cylinder casing, an eccentric ro-

tor piston with reciprocating vanes rotatably mounted in said casing, fluid-pressure chambers between said vanes and an auxiliary cylindrical rotor concentrically mounted in said casing and surrounding said vanes and the fluid-pressure chambers therebetween and a series of bearing rings at each end of said rotor through which said cylindrical rotor is mounted upon said casing, said cylindrical rotor being freely rotatable, the bearing rings of each series being arranged one outside the other, the outer ring of the said series bearing against the said casing and the in-



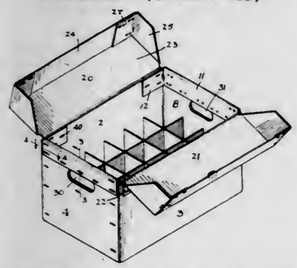
ner ring of said series bearing against said cylindrical rotor, said bearing rings each having a cross section greater axially than radially of said rotor and said rings bearing upon one another, said casing or said rotor for the greater portion of their extent axially of said rotor, said rings being slidable upon and freely rotatable with relation to each other and to said cylindrical rotor and to said casing and to said vanes, and intake and discharge means for said chambers.

2,324,904
REMOTE CONTROL DEVICE
John Canetta, Wilkinsburg, and John B. Grosswege, Edgewood, Pa., assignors to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application January 30, 1942, Serial No. 428,818
8 Claims. (Cl. 303—20)



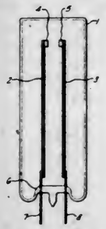
1. In combination, a brake valve rotary valve having a plurality of brake controlling positions, resilient means arranged to define each of said positions, a shaft for turning said rotary valve, spring means operative on said shaft to turn same and said rotary valve in one direction, electro-magnetic means operative upon energization to create a force opposing that of said spring means for turning said shaft and valve in the opposite direction, said valve being turned by the predominating force to a position in which the opposing forces substantially equalize, and manual means selectively operative to provide various degrees of energization of said electro-responsive means which will provide said substantial equalization of forces in any selected one of said plurality of positions.

2,324,905
DELIVERY CASE
Frank G. Chambliss, Kansas City, Mo., assignor to The Hinde & Dauch Paper Company, Sandusky, Ohio, a corporation of Ohio
Application December 1, 1938, Serial No. 243,387
In Canada December 2, 1937
3 Claims. (Cl. 229—49)



1. In a fiber board container, in combination, a body including bottom, sides, ends, and permanently attached hinged top elements, said container having a perimetral reinforcement around its top edge, said reinforcement comprising a strip attached to each end and a strip attached to each side, said side strips also constituting the attaching means for said top elements; said end strips being folded over the top edges of said ends and including terminal portions carried around the container corners and so overlapping the terminal portions of the adjacent side strips, the overlapping portions being within and without the sides of the body, and with fastenings through the container body and through said overlapping portions.

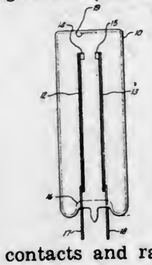
2,324,906
THERMAL SWITCH
Basil Noel Clack, Wembley, England, assignor to General Electric Company, a corporation of New York
Application March 24, 1941, Serial No. 385,003
In Great Britain April 15, 1940
6 Claims. (Cl. 200—113)



1. A glow-type thermal switch comprising a sealed envelope containing an ionizable atmosphere and electrical contacts, said switch structure including a uranium glass member which serves to lower the starting potential of the switch in the dark.

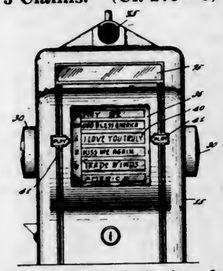
2,324,907
THERMAL SWITCH
Basil Noel Clack, Wembley, England, assignor to General Electric Company, a corporation of New York
Application July 22, 1941, Serial No. 403,572
In Great Britain August 22, 1940
1 Claim. (Cl. 250—27.5)

A glow-type thermal switch comprising a sealed envelope containing helium mixed with 0.15 per cent argon at a pressure of about 45



mm., electrical contacts and radioactive material.

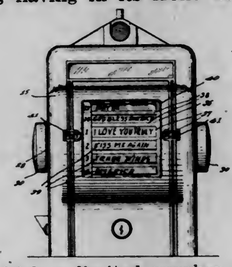
2,324,908
CONTROL DEVICE
Edward E. Collison and Paul U. Lannerd, Indianapolis, Ind., assignors to Homer E. Capehart, Washington, Ind.
Application November 12, 1940, Serial No. 365,174
3 Claims. (Cl. 179—6)



1. In a remote control device for a selective sound-reproducing mechanism selectively operable to reproduce any of a number of recordings, a frame having a back wall, a horizontal shaft rotatably supported from said back wall and extending parallel and in spaced relation thereto, selecting mechanism supported from said back wall and operated by said shaft for controlling the operation of said selective sound-reproducing mechanism, a cover co-operating with said frame to form a casing for said selecting mechanism, the ends of said shaft projecting outwardly through and beyond opposite side walls of said cover and being there provided with operating knobs, said cover being hinged to said frame near the upper end of said back wall, the opposite side walls of said cover being provided with rearwardly opening, arcuate, shaft-receiving slots concentric with the axis about which said cover is removably hinged to said frame, and arcuate fingers on the back wall of said frame and extending forwardly therefrom to close said slots when the cover is in place.

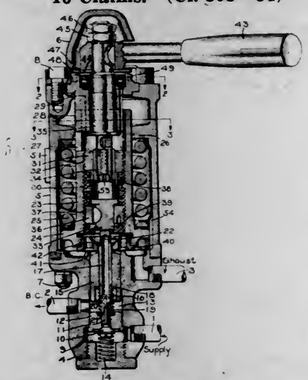
2,324,909
CONTROL DEVICE
Edward E. Collison, Indianapolis, Ind., assignor to Homer E. Capehart, Washington, Ind.
Original application November 12, 1940, Serial No. 365,174. Divided and this application January 7, 1942, Serial No. 425,864
6 Claims. (Cl. 179—6)

1. In a remote control device for a selective sound-reproducing mechanism selectively operable to reproduce any of a number of recordings, a casing, a horizontal shaft extending through said casing and projecting through at least one side wall thereof, a control knob on said shaft for rotating it, a drum secured to said shaft within said casing, said drum bearing an annular series of titles of the available recordings, said casing having in its front wall a window



through which a limited number of said titles are visible, and selecting mechanism operated by said shaft for controlling the operation of said selective sound-reproducing mechanism.

2,324,910
BRAKE VALVE DEVICE
Earle S. Cook, Wilkinsburg, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application July 31, 1941, Serial No. 404,789
16 Claims. (Cl. 303—54)

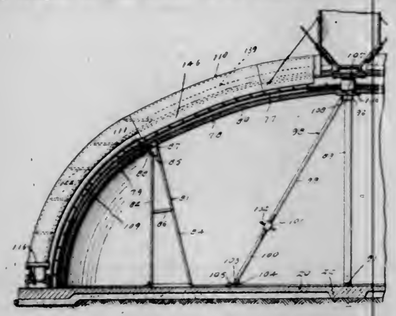


1. A self-lapping control valve device comprising a casing having an outlet chamber to which fluid under pressure may be supplied, a movable abutment in said chamber subject on one side to the pressure of fluid in said chamber, valve means having an actuating stem slidably guided in said abutment, said stem and abutment being movable independently of each other, means manually rotatable for actuating said stem relative to said abutment to effect the operation of said valve means to supply fluid under pressure to said chamber, regulating means, operable by said abutment acting in response to an increase in the pressure of fluid in said chamber, for actuating the manually rotatable means to effect the operation of said valve means to limit the supply of fluid under pressure to said chamber.

2,324,911
METHOD OF CONSTRUCTING CONCRETE MAGAZINES
Louis Peter Corbetta, Harrison, N. Y.
Original application March 16, 1942, Serial No. 434,940. Divided and this application August 24, 1942, Serial No. 455,926
2 Claims. (Cl. 25—154)

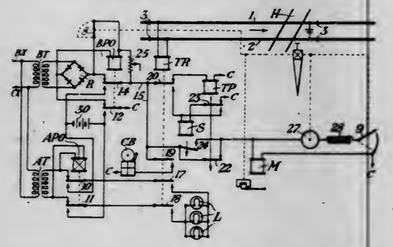
1. The method of constructing a concrete

dome-shaped structure which includes the initial formation of a circular bottom or floor, mounting a dome-shaped inner form on the floor, disposing an outer form about the inner form with the height of the outer form less than the inner



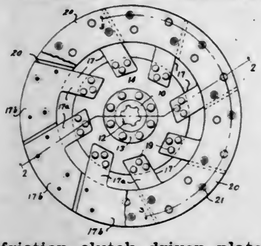
form, pouring the plastic concrete between the inner and outer forms, and finally pouring the concrete over the exposed portion of the inner form while at the same time subjecting the latter placed plastic concrete to a screeding operation.

2,324,912
RAILWAY SIGNALING APPARATUS
Paul H. Crago, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application July 24, 1942, Serial No. 452,193
7 Claims. (Cl. 177—352)



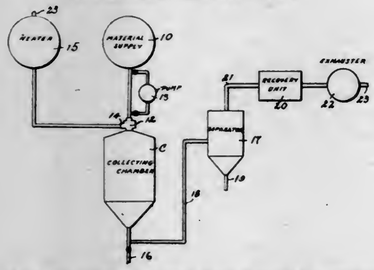
1. In power supply means for apparatus of a type having a member biased to a first position and having a lamp associated therewith, an electric motor for moving said member from its first to a second position, and a magnet effective when energized to hold said member in said second position, in combination, a main source of power, an auxiliary source of power, a first power-transfer relay energized from said main source and being effective to connect said lamp to said main or said auxiliary source according as the voltage of said main source exceeds or falls below a relatively high value, a second power-transfer relay effective according as it is picked up or released to connect said motor and said magnet to said main or said auxiliary source respectively, a circuit complete only when said member is in its second position for supplying from said main source to said second power-transfer relay energy effective to maintain said relay picked up as long as the voltage of said main source exceeds a predetermined relatively low value, and a circuit for supplying from said main source to said second power-transfer relay energy effective to maintain said relay picked up as long as the voltage of the main source exceeds a predetermined intermediate value.

2,324,913
CLUTCH PLATE
John F. Daukus, Detroit, Mich.
Application August 26, 1938, Serial No. 226,924
23 Claims. (Cl. 192—107)



15. A friction clutch driven plate comprising a relatively thick non-yielding sheet metal mounting disc, a plurality of structurally independent spring sheet metal cushion members of materially lesser thickness than said disc, including attaching portions secured to said disc and circumferentially enlarged axially distorted cushioning portions occupying an annular region lying beyond the periphery of the disc, and friction facings embracing and mounted upon said cushioning portions.

2,324,914
PROCESS OF DESICCATING FOODS
Henry Randel Dickinson, Grand Rapids, Mich., and Henry H. Moreton, East Orange, N. J.
Substituted for abandoned application Serial No. 33,151, July 25, 1935. This application July 1, 1941, Serial No. 400,652
6 Claims. (Cl. 99—199)

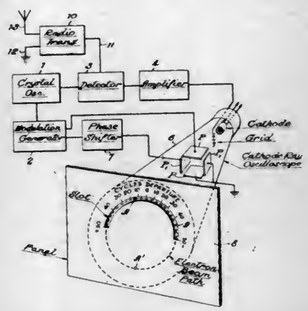


1. The process of desiccating foods comprising causing a stream of hot oxygen-free gas and a separate stream of food material to commingle and to be discharged into a closed space, and maintaining sufficient pressure upon said gas to atomize the food material as it is so discharged and in such manner that the heat of the gas drives off the moisture carried by the food material without vitamin destruction.

2,324,915
MONITOR SYSTEM
Orville E. Dow, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application February 25, 1942, Serial No. 432,251
13 Claims. (Cl. 250—17)

1. The method of indicating the frequency drift of a signal wave from an assigned frequency, which comprises beating the signal wave with oscillations of a reference frequency corresponding to the signal frequency, to be observed, modulating the frequency of said reference frequency

oscillations with a low frequency voltage, and producing a change in the normal path of travel of a space flow of electrons during every modu-



lation cycle solely at times when the oscillations of the reference frequency sweep through the signal frequency.

2,324,916
REINFORCED STRUCTURAL ELEMENT
James K. Duncan, Chicago, Ill., and George L. Phelps, Tempe, Ariz., assignors to United States Gypsum Company, Chicago, Ill., a corporation of Illinois
Application May 2, 1940, Serial No. 333,006
6 Claims. (Cl. 72—38)

3. A reinforced building slab or tile having a tongue on one edge and a groove in the opposite edge, said tile being formed of set cementitious material comprising stucco and fiber and an expanded metal reinforcing element embedded in said tile, said reinforcing element being of a cross sectional contour substantially conforming to the cross sectional contour of said tile and being substantially at the surface of said tile adjacent its edges including said tongue and groove, and having its sides depressed, so that major portions of said sides are spaced materially from the sides of said tile, the amount of fiber to stucco being from 2½% to 14% to provide sufficient resilience or yieldability in said material to prevent shearing or fracture of said material by said expanded metal when extreme loads are localized on said tile and to transmit localized stress to a comparatively large area of the material substantially in the plane of said reinforcing element.

2,324,917
DRY-CLEANING SOLVENT
Dwight L. Ebert, Chicago, Ill., assignor to Norris Products, Chicago, Ill., a partnership composed of Perry E. Norris and Dwight L. Ebert
No Drawing. Application October 14, 1940, Serial No. 361,109
1 Claim. (Cl. 252—172)

A method of activating dry cleaning solvent of the class represented by Stoddard solvent for effective use in removing water soluble soil in dry cleaning which consists in distributing moisture by the injection of substantially dry steam into the solvent in a percentage of substantially .1% based on the volume of the solvent and in a sufficiently finely divided condition as not to substantially precipitate out on twelve hours standing.

2,324,918
ABRADING DEVICE
Bruce W. Engle, West Burlington, Iowa, assignor to Foster-Johnson Reamer Company, Chicago, Ill.
Application March 11, 1942, Serial No. 434,161
16 Claims. (Cl. 51—187)

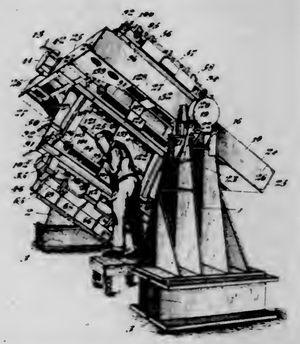


1. A hand-held abrading device comprising a first elongated part providing a main portion and a reduced portion forming a hand grip at one end, said elongated part having a chamber in the main portion formed by a bore opening through the end remote from the reduced portion, walls with opposed flat working surfaces on the exterior of the main portion extending longitudinally thereof and a plurality of perforations in each of said walls opening through the working surface and communicating with said chamber, a tubular member threaded into the open end of the bore to close the same, said tubular member being closed at one end and open at the other, a plunger reciprocable in the tubular member and projecting through the outer end thereof, a compression spring constantly urging the plunger outwardly, a bore in the reduced portion communicating with the chamber in the main portion and opening at the other end through the end of the reduced portion, said reduced portion terminating in means adapted for connection to an exhausting device for exhausting the air in the chamber during use of the device, means on opposite sides of the reduced portion for releasably gripping the ends of a strip of abrasive material overlying both working surfaces and engaged intermediate its ends by said plunger to draw the abrasive material taut and smooth to permit the pressure differential further to hold the material truly on the working surfaces, and a second part having a reduced portion forming a hand grip and means adapting it for attachment to said first part opposite the reduced portion of said first part.

2,324,919
APPARATUS FOR USE IN FABRICATING TUNNEL LINING SEGMENTS
Lewis Fine, Bethlehem, and Harley B. Kelchner, Lower Saucon Township, Northampton County, Pa., assignors to Bethlehem Steel Company, a corporation of Pennsylvania
Application July 31, 1940, Serial No. 348,610
27 Claims. (Cl. 113—99)

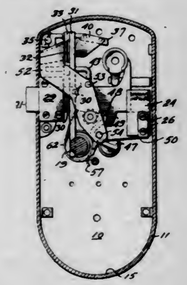
1. A jig for receiving and supporting a plurality of structural shapes to be welded together in assembled relation to form a tunnel lining

segment having a skin plate with longitudinally extending side bars and end plates secured thereto comprising a pair of fixed pedestal supports, a journal bearing mounted on each pedestal support, a rectangular outside frame, a trunnion extending from opposite sides of the rectangular outside frame journaled in the pair of fixed pedestal supports, a journal bearing mounted in each end of the rectangular outside frame, a



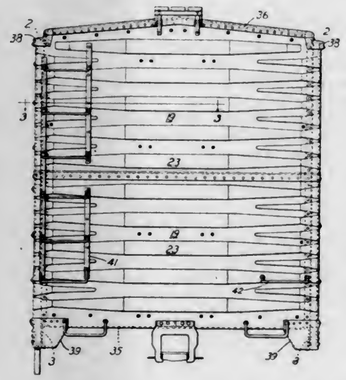
cradle for supporting the plurality of assembled structural shapes, a trunnion extending from the opposite sides of the cradle journaled in the bearings mounted in the ends of the rectangular outside frame, means for clamping the plurality of assembled shapes in the cradle, and means for rotating the cradle and rectangular outside frame independently and at right angles to each other.

2,324,920
COIN OPERATED DOOR LOCK
Sherman W. Frazier, Washington, D. C., assignor to The Nik-O-Lok Company, Indianapolis, Ind., a corporation of Indiana
Application January 30, 1943, Serial No. 474,171
2 Claims. (Cl. 194—65)



1. In a coin operated lock, a normally projected bolt, a knob spindle, a coin chute constituting an arm on the knob spindle and operatively engaging the bolt to shift same to a retracted position upon rotation of the knob spindle in one direction, the bolt being shiftable to a retracted position independently of said coin chute and knob spindle, and the upper end of the coin chute being formed to provide a coin receiving chamber having a coin receiving aperture, the extremity of the chute being slotted, the slot intersecting said chamber, a rod carried by and movable with the bolt, and extending through said chamber, said rod for a portion of its length being of enlarged cross section and forming a support for the coin inserted in said chamber when the bolt and coin chute are moved in unison, and said rod for the remaining portion of its length being of reduced cross section to permit release of the coin from the coin chute when the bolt is moved to a retracted position independently of the coin chute, a pivoted detent resting upon the outer end of the coin chute and having a shoulder against which the end of the coin chute normally abuts to prevent movement of the coin chute to retract the bolt, and a finger carried upon the extremity of the detent and extending into the last named slot, the under side of the finger being rounded to ride up over a coin deposited in said chamber to thereby cause the coin to raise the detent and permit retraction of the bolt by operation of the knob spindle and coin chute.

2,324,921
RAILWAY CAR CONSTRUCTION
Garth G. Gilpin, Riverside, Ill., assignor to Standard Railway Equipment Manufacturing Company, Chicago, Ill., a corporation of Delaware
Application May 1, 1941, Serial No. 391,267
7 Claims. (Cl. 105—410)

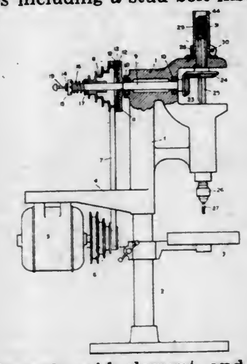


1. In a railway car, an end wall comprising a metallic plate having a vertical margin thereof flanged, a corner member comprising a vertically extending channel facing toward the interior of the car and comprising a web and spaced apart inner and outer flanges, said inner flange having a reflange, means to secure said plate flange to said web, mean to secure said reflange to the body part of said plate thereby forming a hollow corner post, and side sheathing having its end portion extending between said channel flanges and secured to said outer flange.

2,324,922
AUTOMATIC TAPPING MACHINE
Mark Graves, Cleveland Heights, Ohio
Application July 28, 1942, Serial No. 452,578
1 Claim. (Cl. 10—135)

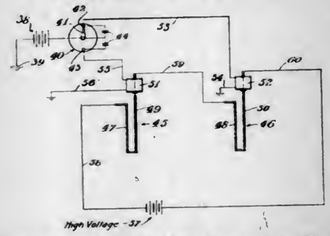
In an automatic tapping machine, having a lead screw assembly comprising an internally threaded sleeve, detachably affixed on the housing of such machine; an externally threaded cylindrical guide element operatively mounted within said sleeve, said element being provided with a splined internal bore; the improvement comprising means detachably depending a splined spindle from said guide element, with splines of

spindle and element in operative engagement, said means including a stud bolt inserted in said



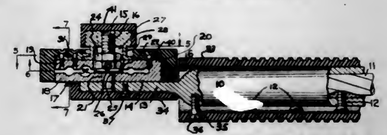
spindle through said element and a device on said element locking said bolt against rotation.

2,324,923
IGNITION SYSTEM
Harlow B. Grow, Freeport, N. Y.
Application March 19, 1942, Serial No. 435,320
10 Claims. (Cl. 123—148)



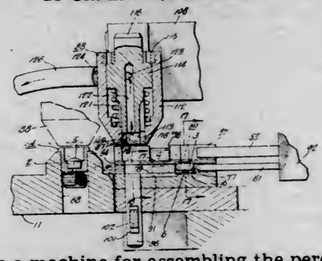
1. In an ignition system for internal combustion engines, a closed electric circuit, a source of electric energy continuously supplying said circuit, an interrupter-type spark plug in said circuit, the electrodes of said spark plug being normally in contact with each other, and means for momentarily separating the spark plug electrodes when ignition is desired.

2,324,924
ELECTRODE HOLDER
Harvey H. Hall, Denver, Colo.
Application February 13, 1943, Serial No. 475,841
7 Claims. (Cl. 219—8)



1. An electrode holder comprising a handle having one end provided with a friction surface, a clamping head rotatably connected with the handle by means of a pivot pin projecting from the friction surface, the clamping head comprising two jaws, means for holding the jaws in spaced relation, means for urging the surface of one jaw against the friction surface with sufficient force to resist accidental rotation, means for holding the jaws in alignment, and means for simultaneously urging one jaw towards the other jaw and towards the friction surface.

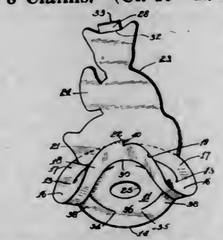
2,324,925
ASSEMBLING MACHINE
Howard Thomas Hallowell, Jr., Jenkintown, Pa., assignor to Pennsylvania Manufacturing Company, Jenkintown, Pa., a corporation of Delaware
Application December 22, 1941, Serial No. 424,052
13 Claims. (Cl. 86—1)



12. In a machine for assembling the percussion elements, firing pins and caps in the casings of priming heads, said machine comprising a support for said casings, a plurality of transfer mechanisms operatively associated with the support, means for actuating the support to bring the casings successively into operative positions with respect to said transfer mechanisms, means for feeding the percussion elements to one of the said mechanisms at a point remote to the said support for transfer individually to the respective casings, means remote to said support for assembling the firing pins in the caps in mated pairs and for feeding said pairs to the other of said mechanisms for transfer as units to the respective casings, and means for synchronized actuation of the support and the said transfer and feeding means.

13. In a machine for assembling the firing pins and caps in the casings of priming heads, said machine comprising a support for said casings, a transfer mechanism, and means for intermittently actuating the support to bring the casings successively into operative position with respect to the transfer mechanism, means remote to said support for loosely assembling the said pins and caps in mated pairs and for feeding each of the pairs as a unit to the transfer mechanism, means for actuating the said mechanism in synchronism with the movements of the support and with said feeding means to transfer the said units to the respective casings, and suction means in said transfer mechanism for retaining the loosely assembled units in the mechanism during transit to the casings.

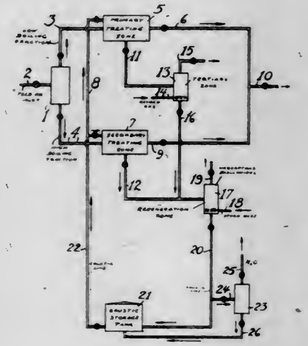
2,324,926
DISPLAY DEVICE
Victor Havel, Northbrook, Ill., assignor of one-half to Malford Emil Weinert, Austin, Tex.
Application December 22, 1941, Serial No. 423,879
8 Claims. (Cl. 40—124.1)



8. A display device comprising a body portion

having curved cuts to form oppositely disposed rounded flaps, and oppositely disposed rounded webs therebetween, at least one of said flaps having a display extension, said curved cuts being arcuate in form and concentrically and alternately arranged, said oppositely disposed flaps adapted by said curved cuts to be moved into vertical contact, and means for holding said flaps in contacted position, said webs being slightly upwardly curved, upon said flaps being moved into contact so as to form a teetering base portion.

2,324,927
REFINING OF MINERAL OILS
William O. Heilman, Cranford, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application February 24, 1941, Serial No. 380,273
6 Claims. (Cl. 196—32)



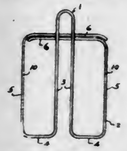
1. Process for the removal of mercaptan compounds from a feed oil boiling in the motor fuel boiling range, which comprises segregating the feed oil into a relatively low boiling fraction and into a relatively high boiling fraction, contacting the relatively low boiling fraction in a primary treating zone with an alkali metal hydroxide solution under conditions to remove mercaptan compounds, separating the relatively low boiling fraction from the alkali metal hydroxide solution, withdrawing said alkali metal hydroxide solution from the primary treating zone and treating the same in a tertiary zone with an oxygen containing gas under conditions to convert mercaptide compounds present therein to the corresponding disulfides, treating the relatively high boiling fraction of the feed oil in a secondary treating zone with an additional quantity of alkali metal hydroxide solution under conditions to remove therefrom mercaptan compounds, separating said treated relatively high boiling fraction and combining the same with said treated relatively low boiling fraction to produce a finished product, separating the alkali metal, hydroxide solution from said secondary treating zone and combining the same with the alkali metal hydroxide solution withdrawn from said tertiary zone, treating the combined streams with steam under conditions to remove the sulfur compounds therefrom, and recycling the regenerated alkali metal hydroxide solution to said primary and said secondary treating zones.

2,324,928
WELDED PIPE JOINT
Harold O. Hill, Bethlehem, Pa., assignor to Bethlehem Steel Company, a corporation of Pennsylvania
Application April 26, 1941, Serial No. 390,500
4 Claims. (Cl. 285—115)



1. A joint for connecting metallic pipe having a heat-destructible inner coating, comprising a plurality of coated pipe sections with their ends in abutting relation, bell-shaped sleeves of different sizes secured near the abutting ends of each section and projecting forwardly beyond said ends, the smaller sleeve being inserted within the larger sleeve normally in spaced relation therewith, and a welded connection between the outer end of the larger sleeve and the outer side of the smaller sleeve so arranged and adapted as to provide a heat-insulating air space beneath said welded connection preventing impairment of the heat-destructible inner coating by the heat of welding.

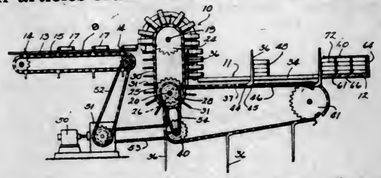
2,324,929
PAPER CLIP
Willis A. Jennings, McKees Rocks, Pa.
Application February 24, 1942, Serial No. 432,100
1 Claim. (Cl. 24—261)



A paper clip constructed of a unitary length of resilient wire comprising the combination of a substantially inverted U-shaped clamping member including a pair of parallel vertically disposed clamping arms, a pair of connecting portions extending laterally outward from the lower ends of respective arms at right angles to the latter, a pair of side members extending vertically upward from and at right angles to the outer ends of respective connecting portions, a pair of top free end portions joined with the upper ends of respective side members and being disposed inward at right angles with respect to the latter, said free end portions extending in opposite directions with respect to each other in contacting parallel overlapping arrangement, the end of each of said free end portions being disposed at the upper end of the side member not joined therewith, the upper end of said clamping member projecting above said pair of free end portions and being formed with an offset, said pair of free end portions normally resiliently engaging in said offset, the clamping arms of said clamping member normally extending parallel to said pair of side members.

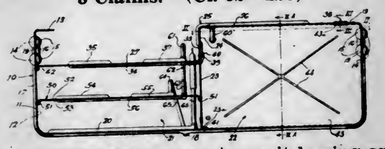
2,324,930
STACKING AND BOXING APPARATUS
Curt G. Joa, Sheboygan Falls, Wis., assignor to Curt G. Joa, Inc., Sheboygan Falls, Wis., a corporation of Wisconsin
Application August 2, 1940, Serial No. 349,623
19 Claims. (Cl. 226—14)

1. In apparatus of the character described, the combination with a horizontally disposed conveyor table, of a conveyor operating adjacent one margin thereof in a vertical plane to move articles in spaced relation toward the table, a second conveyor operative horizontally across the line of article movement to push a plurality of such articles from the first mentioned conveyor



to and across said table in the form of a stack, said second conveyor being sufficiently offset from the first conveyor to allow the conveyors to operate in intersecting planes, and means for operating said conveyors continuously and in synchronism.

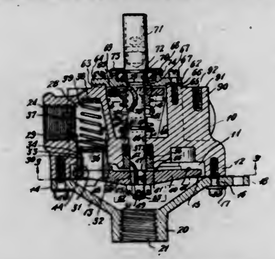
2,324,931
EVAPORATOR UNIT WITH FROZEN FOOD COMPARTMENTS
Bernard C. Johnson, Libertyville, Ill., assignor to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application December 30, 1940, Serial No. 372,282
8 Claims. (Cl. 62—126)



1. A sheet metal evaporator unit having an ice tray compartment and a frozen food compartment which comprises a pair of secured-together embossed metal sheets defining refrigerant circulating passageways and header chambers therebetween and forming the side walls and bottom of a storage chamber, a vertical partition wall secured to said bottom between the side walls and extending upwardly in spaced relation from the side walls to a level below the tops of said side walls, a pair of secured-together embossed metal sheets defining a refrigerant passageway therebetween and having a vertical intermediate wall portion secured to said partition wall and extending upwardly therefrom together with horizontal portions extending on opposite sides of said partition wall forming the top wall for the frozen food compartment and a shelf for the ice tray compartment and means connecting the passageways defined by said pairs of sheets.

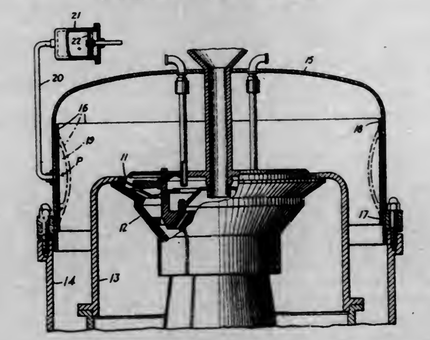
2,324,932
FUEL CONTROL VALVE
James P. Johnson, Shaker Heights, Ohio
Application April 27, 1940, Serial No. 332,042
6 Claims. (Cl. 251—84)

1. A fuel control valve comprising a housing having a plurality of non-communicating fuel inlet openings and a fuel outlet opening adapted for communication with each of said inlet openings; and means for selectively establishing communication between any one of said inlet openings and said outlet opening comprising; a disk rotatably mounted in said housing and disposed in spaced relation with respect to the adjacent ends of said inlet openings, said disk having an opening extending therethrough and disposed for alignment with each of said inlet openings during rotation of said disk; a tubular bushing slidably mounted in the inner end of each inlet opening and having a face engageable with the adjacent face of said disk, said tubular bushings being disposed in the path of movement of the opening in said disk; a resilient means operatively associated with each of said bushings for normally exerting a pressure upon the latter to effect a fluid tight seal between the engaging faces of said bushings and disk; a rotatable shaft disposed axially within said housing and having its inner end securely connected to the central portion of said disk for unitary rotation; said housing having a shaft encircling bore adjacent said disk; a bearing tightly fitted in the outer portion of said bore and having a central opening in which the adjacent portion of said shaft



is rotatably mounted; said housing being further provided with a second shaft encircling bore at the side opposite said disk; an anti-friction bearing having concentrically disposed spaced inner and outer races with interposed balls, said outer race being securely mounted in said last mentioned shaft encircling bore and said inner race having a central opening in which the adjacent portion of said shaft is tightly fitted for unitary rotation; said shaft having a free outer end portion of relatively larger diameter providing a shoulder in operable abutment with the outer end of said inner race whereby said shaft is relieved of end thrust load and angular thrust load thereby reducing to a minimum the torque required to rotate the same.

2,324,933
CENTRIFUGAL SEPARATOR
Leo D. Jones, Philadelphia, Pa., assignor to The Sharples Corporation, Philadelphia, Pa., a corporation of Delaware
Application May 2, 1941, Serial No. 391,471
8 Claims. (Cl. 210—73)



1. In a centrifugal separator, the combination

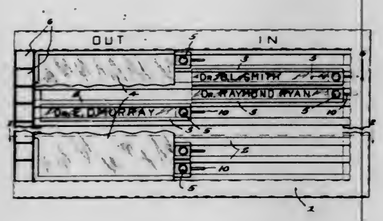
including means for separating solids from liquids and for discharging said solids separately from said liquids comprising a centrifugal rotor from which solids are adapted to be discharged peripherally during rotation of the rotor, a deformable deflector mounted in the line of discharge of said solids, and means independent of said discharged solids for positively flexing said deflector to dislodge solids adhering thereto.

2,324,934

PHYSICIAN'S IN-AND-OUT REGISTER FOR HOSPITALS

William M. June, Syracuse, N. Y.

Application September 30, 1941, Serial No. 413,063
3 Claims. (Cl. 116—135)



3. An indicator rack for the purpose set forth comprising a frame, substantially one half of the frame being an "in" column and the other half an "out" column, transverse guides in the frame, indicator slides mounted to move along the guides from the "in" column into the "out" column and vice versa, the slides being visible from the front and rear sides of the frame, one column having translucent coverings on the front and rear sides thereof through which the indicator slides are readable from the front and the rear sides of the frame and which give a different visual effect when in one column from that given in the other column, each slide having a combined operating and message element carrier handle formed with a passage therethrough for receiving a message element and permitting the message element to project out of the passage beyond the end of the handle, whereby the operator, when taking hold of the handle to shift a slide, comes in contact with the message element.

2,324,935

PROCESS FOR POLYMERIZING DERIVATIVES OF METHACRYLIC ACID

Carl T. Kautter, Darmstadt, and Ernst Trommsdorff, Jugenheim - on - the - Bergstrasse, Germany, assignors to Röhm & Haas Company, Philadelphia, Pa.

No Drawing. Application May 13, 1939, Serial No. 273,586. In Germany May 20, 1938
8 Claims. (Cl. 260—83)

7. The process of preparing, from polymerizable compounds of the group consisting of methacrylic acid, esters, nitrile and anhydride, polymers which yield solutions of relatively low viscosity, which comprises polymerizing the monomeric compound in the presence of from about 0.2% to about 5% of a chlorinated, unsaturated, aliphatic compound from the group consisting of allyl chloride, 2-methallyl chloride, sym-dichloroethylene, trichloroethylene, 1,2-dichloropropylene and dim. sym-dichloroethylene.

2,324,936

CONDENSATION OF CYANOCARBOXYLIC ACID WITH POLYAMINE

Hugo Kroeper, Heidelberg, and Hans Haussmann, Mannheim, Germany; vested in the Alien Property Custodian

No Drawing. Application January 22, 1940, Serial No. 315,037. In Germany January 11, 1939
2 Claims. (Cl. 260—2)

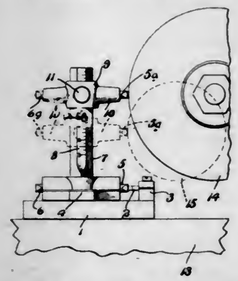
1. The process for the production of condensation products which consists in causing a mononitrile containing in the molecule as the only reactive group besides the nitrile group a carboxylic group to react at a temperature between 150° and 300° C. with an amine containing in the molecule as the only reactive groups at least two amino groups bearing each at least one hydrogen atom directly attached to the amino nitrogen.

2,324,937

ADJUSTABLE GRINDING WHEEL DRESSER

Henry W. Kropf, Muskegon Heights, Mich., assignor to Brickner-Kropf Machine Company, Muskegon Heights, Mich., a corporation of Michigan

Application May 3, 1943, Serial No. 485,415
4 Claims. (Cl. 125—11)



1. Apparatus for dressing grinding wheels to a desired contour comprising, a base member, a templet mounted thereon having a predetermined contour at one edge for reproduction on the peripheral face of a grinding wheel, a member having a base resting upon and adapted to be moved over the upper side of the first mentioned base in any direction, a plurality of guiding members extending from said second base each of which is selectively adapted to be brought against the contour edge of said templet, a post extending upwardly from said second base, a member mounted on said post for vertical adjustment thereon, means for securing said member to any position to which adjusted, arms on said member, one for each of the guide members and located directly thereabove, and a wheel dressing implement carried by each of said arms, any of said wheel dressing implements being adapted to be pointed toward and located in the same horizontal plane which the axis of the grinding wheel rotates, said guide ends and the dressing points of said dressing implements thereabove being in vertical alinement, as specified.

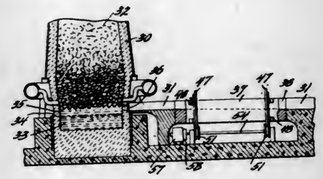
2,324,938

METHOD AND MECHANISM FOR RECOVERING METAL

Harry Joseph Love, Washington, D. C.

Application August 17, 1942, Serial No. 455,097
27 Claims. (Cl. 75—24)

1. The method of recovering metal from molten slag as it flows from a blast furnace, which consists in flowing the fluid slag and entrained metal along an elongated confined path of travel located over a plurality of metal-receiving pockets, agitating the fluid slag by frequent and abrupt changes of direction of its said path whereby the relatively heavy entrained flow along the path and also subjecting the fluid slag to vibratory impulses as it flows along the metal gravitates into the pockets.

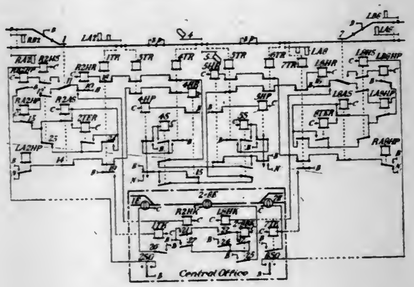


2,324,939

RAILWAY TRAFFIC CONTROLLING APPARATUS

Ronald A. McCann, Swissvale, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania

Application September 3, 1942, Serial No. 457,133
4 Claims. (Cl. 246—3)



1. In combination with a stretch of railway track comprising a single track block divided into track sections, a track relay for each track section, a line relay for each direction of traffic through said block, means for energizing each line relay when all said track relays are picked up and also when one or more of said track relays are released by a train moving in the corresponding direction at an intermediate point in said block, a two position indication relay at a central office, means for operating said indication relay to one position upon the release of both said line relays and to its other position upon the energization of both said line relays, and a block indicator controlled by said indication relay to indicate when it occupies said one position.

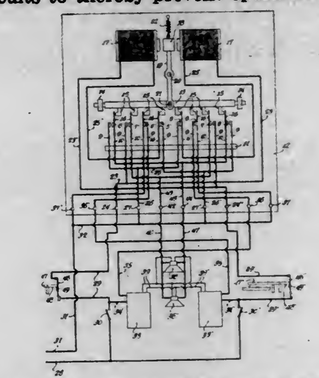
2,324,940

CONTROL SYSTEM

Van Allen McGovern and Elmer R. Gruchow, Waterloo, Wis.

Application June 6, 1941, Serial No. 396,878
8 Claims. (Cl. 274—1)

1. The combination of two electric phonographs each having a turn-table motor circuit, and switch means responsive to energization of either of said circuits for breaking the other of said circuits to thereby prevent operation of the turn-table of either of said phonographs while the other is operating.

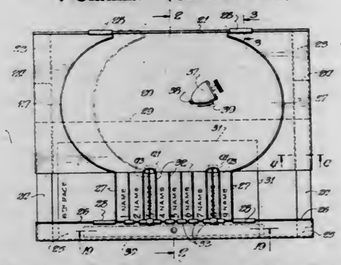


2,324,941

GAME

John L. McKeown, Winnetka, Ill.

Application November 12, 1940, Serial No. 365,294
7 Claims. (Cl. 273—123)



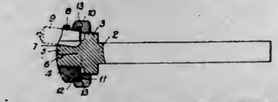
1. A game board comprising two parts connected for adjustment toward and from each other, a retaining flange upstanding from each part and arranged in spaced parallel relation, and a pair of flexible retaining walls having their opposite ends adjustably connected with said first retaining walls and defining therewith a variable playing space while permitting relative movement of said first retaining flanges as occasioned by adjustment of said parts.

2,324,942

GRINDING WHEEL DRESSING TOOL

Edwin Laurence Meeson and John Ivor Meeson, London, England

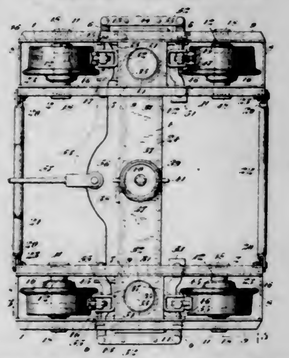
Application April 9, 1943, Serial No. 482,452
In Great Britain June 26, 1942
4 Claims. (Cl. 125—39)



1. A tool of the character described comprising a stem having a head at one end, a member loosely mounted on said head, said head and member being each formed with an annular series of recesses around their outer and inner peripheries respectively, the recesses in the one part registering with those in the other part to form a series

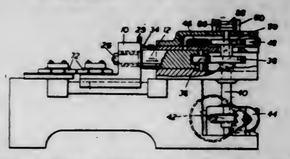
of divided sockets having their axes inclined at different angles to the axis of said stem, and means for imparting relative axial movement to said head and member for the purpose of clamping a diamond-carrying slug in any one of said sockets at a predetermined angle to the axis of said stem.

2,324,943
FOUR-WHEEL TRUCK FOR MINE CARS
Louis G. Miller and Walter H. Statler, Bethlehem, Pa., assignors to Bethlehem Steel Company, a corporation of Pennsylvania
Application October 22, 1941, Serial No. 415,998
16 Claims. (Cl. 105—197)



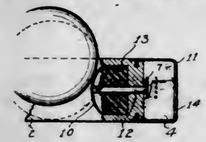
1. A four-wheel truck having side frames, each comprising a pair of spaced longitudinally extending side frame plate members arranged side by side adapted to receive wheels between them and provided with axle bearings intermediate the center and the ends of the side frame, a bolster receiving opening through the central portion of each side frame plate member, a truck column plate connecting the pair of side frame plate members at the vertical sides of the bolster receiving openings, a web connecting the top ends of the truck column plates and side frame plate members, a plate forming a spring seat secured to the lower ends of the truck column plates and the lower edges of the side frame plate members, laterally extending flange plates welded to the side frame plate members near their top and bottom edges, and tie plates connecting the ends of the side frame plate members.

2,324,944
ELECTRIC FLASH WELDING MACHINE
William Hammond Millwood, Inverness, Scotland
Application December 15, 1941, Serial No. 423,113
In Great Britain December 17, 1940
3 Claims. (Cl. 219—4)



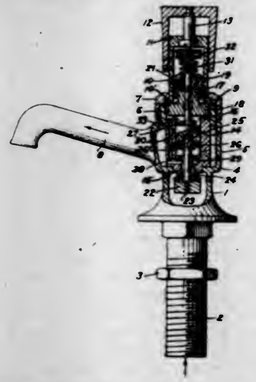
1. An automatic resistance flash welding machine comprising an electrically operated moving head adapted to carry one of two work pieces, feeding means for alternately bringing together and separating the two work pieces during an initial preheating period, and a resilient mechanism interposed between the feed means and the moving head adapted to effect on compression the stopping and reversing of the forward feeding movement as a consequence of the mechanical resistance offered by the meeting together of the two work pieces.

2,324,945
BALL-RACKING COUNTER
Evangle Mistacu, St. Louis, Mo., assignor to Mina Mistacu, St. Louis, Mo.
Application July 2, 1941, Serial No. 400,825
3 Claims. (Cl. 235—91)



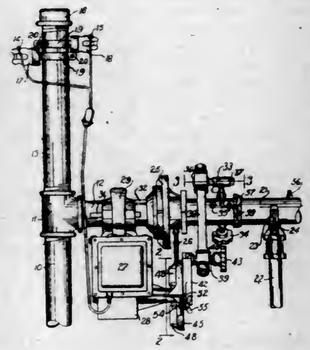
1. The combination with a polygonal game rack for positioning a set of playing balls in a predetermined geometric formation for play upon removal of the rack, of a counter on said rack at one of the corners thereof for registering the number of times that said balls have been so arranged and removed from said rack, and means concealed within said rack at said corner and operably controlled solely by the placing of the balls within the rack for actuating said counter.

2,324,946
RETARDED SELF-CLOSING FAUCET
James F. Molloy, Oakland, Calif.
Application October 8, 1941, Serial No. 414,103
2 Claims. (Cl. 251—138)



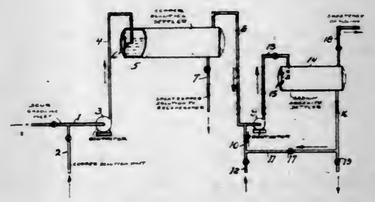
1. A faucet in the class described including a body having a service inlet and outlet; a cap forming a continuation of the upper portion of said body; a pressure handle above said cap and slidably attached thereto by a thrust means; a counterbored valve block interposed in said body between said inlet and outlet and having an inlet valve seat in its lower portion and an outlet opening into said body; a piston slidable in the counterbore in said block; a stem slidably guided in said block and extending through said piston and protruding at both ends of said block; a valve on said stem beneath said piston, and piston depressing means on said stem; a valve on said stem adapted to close said service inlet in said block; an adjustable spring cap on the opposite end of said stem; and a spring interposed between said spring cap and said block.

2,324,947
IRRIGATING PIPE OSCILLATOR
Raymond P. Paradise, Indianapolis, Ind.
Application May 8, 1941, Serial No. 392,502
6 Claims. (Cl. 299—62)



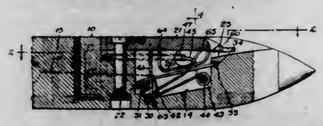
1. An overhead irrigating system comprising a water supply standard sealed at its top end, a water distributing pipe interconnecting with and extending laterally from said standard at an outlet spaced a distance below the top of the standard, a swivel connection in said lateral pipe to permit oscillation of that pipe, and means for oscillating said pipe, that part of the standard above said outlet serving as an air chamber, said lateral pipe having a fixed length between said standard and said swivel connection, said oscillating means comprising an electric motor carried by said fixed pipe length, and driving means between the motor and said lateral pipe connecting therewith beyond said connection, and an electrical supply line carried by said standard above said outlet.

2,324,948
PROCESS OF REFINING PETROLEUM OILS
Henry C. Paulsen, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application December 24, 1941, Serial No. 424,254
6 Claims. (Cl. 196—30)



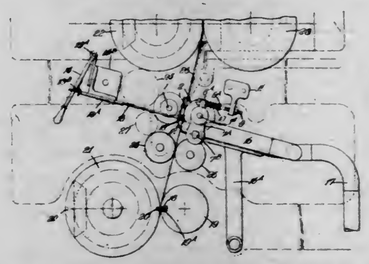
1. In a process of sweetening hydrocarbon distillate oils containing mercaptans with copper salts forming sweetened products containing small amounts of copper deleterious to the stability of the oils, the improvement which comprises treating the sweetened oil product containing the copper with an alkali metal salt of aresnious acid, and separating from the sweetened oil decomposition reaction products formed from the reaction of copper compounds with said salt.

2,324,949
SHUTTLE THREADING AND TENSION MECHANISM
Luigi Favia, Allentown, Pa.
Application April 3, 1942, Serial No. 437,532
6 Claims. (Cl. 139—223)



1. In a self-threading shuttle having a shuttle body with a forwardly extending thread passage formed therein and a lateral delivery passage, in combination, a fixed guide means and tension member pivoted at its forward end and having a laterally extending arm and an elastic member engaging said arm adapted to yieldingly position the rear end of said tension member in a downward position.

2,324,950
EDGE TRIMMING MEANS FOR USE IN ROTARY PRINTING PRESSES
William Andrew Pratt, Watford, England
Application February 28, 1942, Serial No. 432,858
In Great Britain May 29, 1941
10 Claims. (Cl. 164—67)

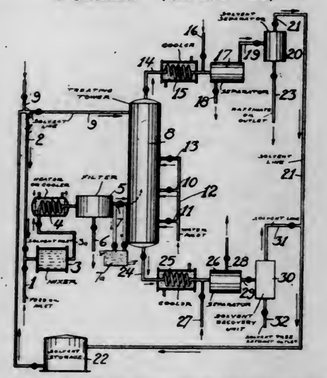


6. In a rotary printing press having a folding section the provision in combination with the folding section of mechanism arranged within said folding section for trimming the head and tail edges as well as the fore edge of a copy comprising rotary circular shearing knives arranged in juxtaposition to cooperate in pairs respectively in an adjustable manner, pads provided for supporting the edges of said copy and covers between said knives for preventing creasing of the printed matter during the trimming operation.

2,324,951
FOAM STABILIZING COMPOSITION
Arthur Ferdinand Ratzer, Hanworth, England, assignor to Pyrene Minimax Corporation, Newark, N. J., a corporation of Delaware
No Drawing. Application May 26, 1939, Serial No. 275,802. In Great Britain May 31, 1938
10 Claims. (Cl. 252—307)

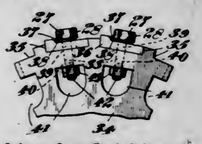
1. A foam stabilizing composition comprising an aqueous solution of hydrolysis products obtained by hydrolyzing a protein selected from the class consisting principally of keratins, albumens, globulins, hemoglobins and seed meal proteins by means of an alkaline compound selected from the class consisting of oxides and hydroxides of the alkaline earth metals and magnesium, said products containing at least 25% of their nitrogen content in the form of peptones.

2,324,952
REFINING OF MINERAL OILS
Chester L. Read, Westfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application February 10, 1940, Serial No. 318,249
2 Claims. (Cl. 196—13)



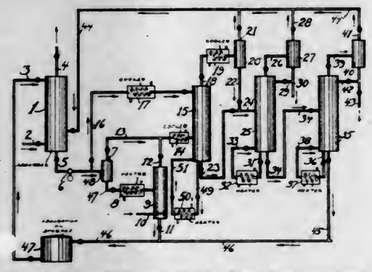
1. In a process for segregating into its relatively more aromatic and into its relatively more paraffinic constituents a viscous petroleum lubricating oil substantially free of asphalts, which tends to develop emulsification difficulties during solvent extraction, due to the presence in said oil of a small amount, less than 2%, of dissolved material which precipitates out during solvent extraction in the form of a finely divided insoluble solid which distributes itself between the interfaces of the solvent and oil, the improvement comprising subjecting said oil to preliminary treatment at a temperature between about 110° F. and 150° F. with a solvent having a preferential selectivity for the relatively more aromatic compounds as compared to the relatively more paraffinic compounds, using only an amount of said solvent, between the approximate limits of 5% and 20% by volume, to approximately saturate said oil therewith but insufficient to cause the formation of two liquid phases, whereby a small amount of material precipitates out of said solvent-oil solution as a filterable solid phase, removing said precipitated solids by filtration, and then subjecting the filtered oil to solvent extraction with a large enough volume of the same selective solvent and under suitable temperature conditions to cause the formation of two liquid phases.

2,324,953
APPARATUS FOR USE IN THE MANUFACTURE OF NUTS
Claude D. Reed, Lebanon, Pa., assignor to Bethlehem Steel Company, a corporation of Pennsylvania
Application April 30, 1942, Serial No. 441,115
7 Claims. (Cl. 51—118)



1. In a machine for finishing the sides of nut blanks, comprising a pair of rotary grinding disks arranged in spaced relation, a continuously rotating carrier disk for moving a plurality of blanks in series between the grinding disk, recesses formed in the peripheral edge of the carrier disk, a nut blank holder seated in each recess, a transverse opening through the disk adjacent to each recess, registering holes extending radially through each nut blank holder and the carrier disk to the transverse opening through the carrier disk, a retaining pin in each of the radially extending holes in the nut blank holder and the carrier disk, a nut in each of the transverse openings in the carrier disk threaded on the inner end of each retaining pin for securing each nut blank holder to the peripheral edge of the carrier disk, a stud projection oval in cross-section extending from each retaining pin adapted to extend into the axial perforation of each nut blank, an extending portion for each blank holder having beveled and radially inclined surfaces for engaging one side of the blank coacting with the oval shaped stud projection for holding the opposite sides of the blank in parallel alignment during the grinding operation.

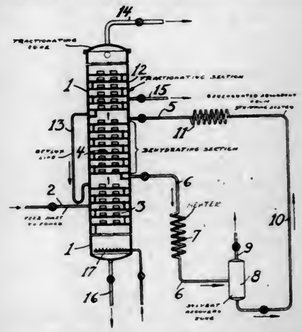
2,324,954
REFINING OF MINERAL OILS
Walter H. Rupp, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application August 22, 1940, Serial No. 353,632
5 Claims. (Cl. 196—8)



5. An improved method for recovering and fractionating low boiling and easily condensible fractions absorbed in an absorption oil, which comprises separating the rich absorption oil containing the absorbed fractions into two portions, at least one of which represents an amount of absorption oil less than 60% of the original absorption oil, and concentrating by vaporization and reabsorption all the absorbed constituents of both portions into that portion of the absorption oil which represents less than 60% of the original absorption oil, and fractionating the thus concentrated absorbed and reabsorbed constituents into narrow cuts while in the presence of the absorption oil.

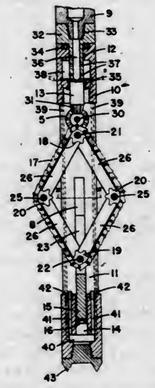
2,324,955
PROCESS FOR REMOVING WATER FROM HYDROCARBON VAPORS
Walter H. Rupp, Mountainside, and Milton Ritchie Smith, Westfield, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
Application March 22, 1941. Serial No. 384,766
1 Claim. (Cl. 196—85)

Improved process for the segregation of a petroleum feed oil into relatively low boiling constituents and into relatively high boiling constituents, which comprises distilling said feed oil in a distillation zone comprising an upper fractionating section, an intermediate dehydrating section, and a lower fractionating section, said feed oil being introduced into said lower fractionating section, maintaining temperature and pressure conditions in said distillation zone and introducing steam into said lower fractionating section to vaporize said lower boiling hydrocarbon constituents, whereby said lower boiling hydrocarbon constituents flow upwardly through said dehydrating section into said upper fractionating section, countercurrently extracting said relatively low boiling hydrocarbon constituents in said dehydrating section with a selective solvent for aqueous constituents, which solvent is introduced



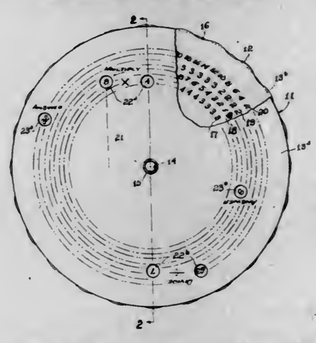
at a point intermediate said upper fractionating section and said intermediate dehydrating section, and is withdrawn from a point intermediate said dehydrating section and said lower fractionating section, by-passing liquid flowing down from said upper fractionating section around said dehydrating section into the upper part of said lower fractionating section, and removing relatively low boiling hydrocarbon constituents overhead from said distillation zone and relatively high boiling hydrocarbon constituents as a bottoms from said distillation zone.

2,324,956
BOREHOLE TOOL
Benjamin W. Sewell, Tulsa, Okla., assignor to Standard Oil Development Company, a corporation of Delaware
Application November 25, 1940. Serial No. 366,955
3 Claims. (Cl. 255—1)



1. A well slotting device adapted to be secured to a drill stem, comprising, in combination, an elongated body, oppositely extensible arms pivoted to said body, hydraulically operated means arranged to extend said arms under pressure transmitted through said drill stem, an endless cutting chain carried by said arms and arranged for longitudinal movement with respect to said body and to be laterally extended by said arms, and means arranged to transmit power from the drill stem to said chain to drive the chain while the body remains stationary.

2,324,957
CALCULATING DEVICE
William F. Shaw, Rocky River, Ohio, assignor of one-half to Horace C. Mayers, Rocky River, Ohio
Application August 7, 1941, Serial No. 405,819
5 Claims. (Cl. 235—83)

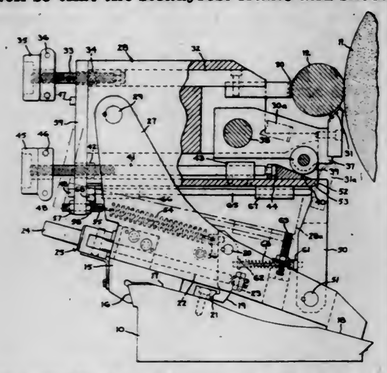


1. In a computing device, a first dial having concentric circular rows of numerals disposed thereon, the numerals in some rows being aligned longitudinally with the radius of the dial, the numerals in other rows being non-aligned longitudinally with said radius and disposed in parallel relation to numerals in said radially aligned row of numerals, and a second dial disposed across said first dial in rotative relation and provided with at least two pairs of spaced apertures, each pair adapted to reveal the cooperating numerals of respectively different problems, and an aperture associated with each pair of apertures and adapted to reveal the answer to the problem disclosed in its associated pair of apertures, said pairs of apertures and said single apertures being aligned with various rows of numerals in order that the same numerals serve as parts of problems at certain positions of the dials and answers to problems when the dials are in other positions.

2,324,958
GRINDING MACHINE STEADY REST
Herbert A. Silven, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts
Application November 19, 1941, Serial No. 419,763
6 Claims. (Cl. 51—238)

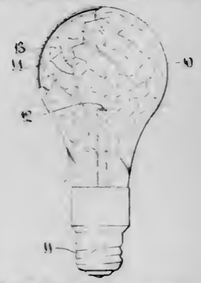
1. In a grinding machine, a steadyrest comprising a steadyrest base which may be readily clamped on a grinding machine table, a pair of spaced, parallel, upwardly extending plates thereon, a pivotally mounted steadyrest frame between said plates, a stud supported by said plates which serves as a pivotal support for said frame, a work steadying shoe adjustably supported on said frame, means to adjust said shoe relative to said frame, a latch normally to maintain said frame in an operative position with said shoe in engage-

ment with a work piece, and means to trip said latch so that the steadyrest frame and shoes may



swing under the influence of gravity to an inoperative position.

2,324,959
FLASH BULB
Arthur L. Stevens and Herman J. D'Innocenzo, Buffalo, N. Y., assignors to Pierce and Stevens, Incorporated, Buffalo, N. Y.
Application January 23, 1941, Serial No. 375,642
3 Claims. (Cl. 67—31)



2. A flash bulb having a casing comprising a composite integral structure having an outer glass shell coated interiorly with a continuous adherent, interiorly-exposed layer of isobutyl methachrylate resin, and combustible material and combustion supporting material in said casing.

2,324,960
PROCESS OF MAKING COPPER POWDER
Clarence R. G. Stewart, La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application February 27, 1942, Serial No. 432,704
7 Claims. (Cl. 75—0.5)

1. The process of recovering copper dust from wire mill sludge which comprises heating and stirring the sludge for a predetermined time to partially separate the dust in the sludge from the fats, permitting the mixture to settle to effect a partial separation of the fats from the copper dust by gravity, removing the surface liquid and included fats, reheating and stirring the remaining mixture for a predetermined time, and permitting the mixture to settle again to separate more of the fats and liquid from the copper by precipitation of the copper and flotation of the fats.

2,324,961
RESISTOR
Lester L. Stoffel, Lakewood, Ohio, assignor to The Ohio Carbon Company, Cleveland, Ohio, a corporation of Ohio
Original application May 24, 1940, Serial No. 337,005. Divided and this application December 11, 1941, Serial No. 422,553
3 Claims. (Cl. 201—75)



1. A resistor for a lamp assembly, comprising a ring formed of carbonaceous material, a pair of terminals comprising wires wrapped around said ring in substantially diametrically opposed regions, and means electrically securing said terminal wires to said resistor, comprising a cement consisting of a mixture of resin and graphite substantially in the proportions of six hundred parts of resin and one hundred and fifty to four hundred parts of graphite.

2,324,962
SHOELACE FASTENING DEVICE
Eugene W. Storey, Philadelphia, Pa.
Application July 2, 1942, Serial No. 449,403
1 Claim. (Cl. 24—117)

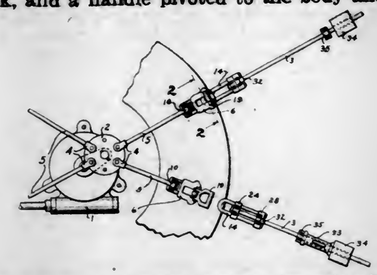


A device of the character described comprising a base, a snubbing post extending substantially vertically from said base, a clamping jaw carried by said snubbing post in spaced relation to said base and overhanging the same on at least two opposed sides with one end of the clamping jaw extending downwardly toward the base with a cam surface at its outer end to define a mouth in connection with said base and being formed with a hook-like portion at its inner end to hold a shoe-lace between the clamping jaw and the base.

2,324,963
PULL ROD CONNECTION
Elmer R. Thomas, Healdton, Okla., and David Erickson, Wichita Falls, Tex.; Selma E. Erickson, executrix of said David Erickson, deceased; said Selma E. Erickson, executrix, assignor to H. L. Ayers and H. K. Ayers, comprising the partnership of Wichita Wire & Iron Company, Wichita Falls, Tex.
Application February 16, 1942, Serial No. 431,154
8 Claims. (Cl. 287—124)

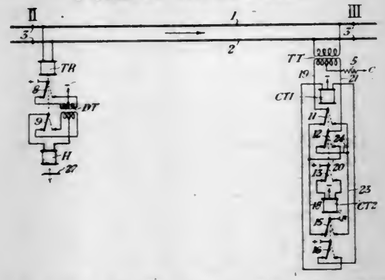
1. In a well pump operating structure, the combination with a power unit, and a pull rod, of a connection between said power unit and pull rod, said connection comprising a link and a body, one being connected with the power unit and the other being connected with the pull rod, said body having a passageway therein slidably

receiving the link, a pin detachably engaging the link, and a handle pivoted to the body and piv-



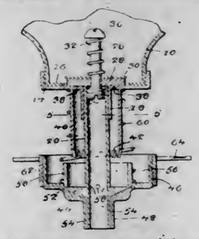
otally connected with the pin for releasing the pin from the link.

2,324,964
CODED TRACK CIRCUIT FOR RAILWAY TRAIN DETECTION
Howard A. Thompson, Edgewood, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application December 6, 1941, Serial No. 421,880
5 Claims. (Cl. 175—363)



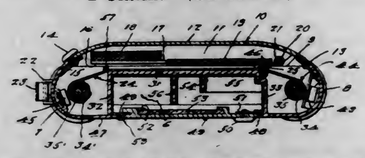
1. In track circuit energy supply means, in combination, a transformer having an output winding that is adapted to be connected with the rails of a section of railway track and an input winding that is provided with one center and two end terminals, a source of direct current exciting energy for said transformer having first and second terminals, means for continuously connecting the second terminal of said direct current source with the center terminal of said transformer input winding, first and second coder relays each having contacts which occupy a normal position when and after the relay is energized in one direction and which occupy a reversed position when and after the relay is energized in the opposing direction, an energizing circuit for said second relay which is controlled by a contact of said first relay and which causes the second relay contacts to go to their normal position following each normal positioning of the first relay contacts and to their reversed position following each reversed positioning of the first relay contacts, an energizing circuit for said first relay which is controlled by a contact of said second relay and which causes the first relay contacts to go to their reversed position following each normal positioning of the second relay contacts and to their normal position following each reversed positioning of the second relay contacts, and circuits including contacts of said first and second relays over which said first terminal of said direct current energy source is repeatedly connected first with one and then with the other of said two end terminals of said transformer input winding and by which said transformer output winding is caused to supply recurring pulses of output potential that have positive and negative polarities in alternating sequence.

2,324,965
LIQUID DISPENSER
William E. Turner, Summerville, Ga.
Application November 1, 1941, Serial No. 417,527
3 Claims. (Cl. 221—114)



1. A liquid dispenser comprising a liquid containing vessel having an opening, a liquid outlet tube slidable in said opening with one end projectable inside the vessel and provided with an outlet port for the passage of liquid from the vessel into the outlet tube, said vessel having an air inlet opening, a valve fixed to said outlet tube normally closing said inlet opening but uncovering the inlet opening when the outlet tube is moved inwardly of the vessel, said outlet port being located beneath said valve and the latter normally engaging the vessel circumjacent the outlet tube, said outlet tube being provided with a cup-like formation, a spring acting on the vessel and the cup-like formation for urging the outlet tube outwardly of the vessel and holding said valve in engagement with the vessel, a second tube having one end secured to the vessel communicating with said inlet opening and having an air inlet formation at its opposite end engageable with said cup-like formation when the outlet tube is moved inwardly of the vessel, and said outlet tube being provided with a port adjacent the bottom of said cup-like formation to pass liquid into the cup-like formation and flood the air inlet formation and seal said second tube from communication with the atmosphere.

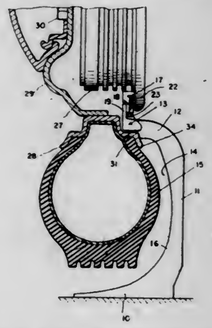
2,324,966
COMBINED MEMORANDUM PAD AND CONTAINER
Erik Westberg, Douglas, N. Dak., assignor of one-half to Alex Lind, Williston, N. Dak.
Application March 7, 1942, Serial No. 433,806
1 Claim. (Cl. 281—2)



A device of the class described comprising an elongated rectangular body including side and end walls, respectively, and a bottom, a shorter rectangular wall structure in said body arising from said bottom and forming with said side and end walls end walls in said body adapted to contain paper reels for feeding a memorandum strip from one to the other, said wall structure including a flat top forming a table over which said strip may be fed for writing thereon, and a turtle back hinged cover for said body forming when closed a space above the flat top for storage of

articles therein, said cover having a swingable spring pressed plate therein coacting with the top of the cover to clamp articles therebetween.

2,324,967
VEHICLE JACK CONSTRUCTION
James S. Westrate, Detroit, Mich.
Application September 28, 1942, Serial No. 459,967
12 Claims. (Cl. 254—94)



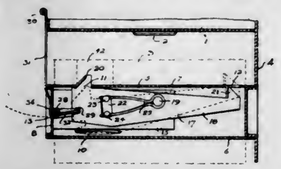
1. A jack for a vehicle wheel having radially spaced opposed surfaces, said jack comprising a body having a head portion insertable into the space between said surfaces and engageable with one of said surfaces, a member carried by the head portion and engageable with the other of said surfaces, and a connection between said member and head portion providing for shifting movement of the member on the head portion in response to rotation of the wheel to wedge the head portion and member between said surfaces.

2,324,968
REMOVAL OF BARK FROM TREES
Alexander Robert White, Port Arthur, Ontario, Canada
No Drawing. Application December 6, 1941, Serial No. 421,964
5 Claims. (Cl. 47—57.5)

1. The removal of bark from trees, consisting in girdling the tree and removing a predetermined section of bark therefrom and exposing the cambium layer and the sapwood, the formation of a cut around the tree and at the bottom of the girdle for a depth of approximately three annual rings of wood, the preparation of a toxicant consisting of calcium chloride and sodium chlorate in a proportion of approximately three parts of calcium chloride to one of sodium chlorate, and introducing the solution into a fabric container and applying the container to the cut portion of the tree and therearound, and allowing the absorption of the solution, with the moisture from the air, by the tree for its carriage up the sapwood and into the sap stream, ascending the stem of the tree to its crown and returning by general seepage either down the cambium layer or down the cortex layer, and destroying these layers and causing a shrinkage and thereby allowing the easy removal of the bark.

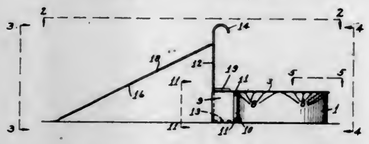
2,324,969
PAPER ROLL DISPENSER
Lester Morton White, Vancouver, British Columbia, Canada, assignor to Morton White & Co., Vancouver, British Columbia, Canada
Application October 6, 1941, Serial No. 413,742
4 Claims. (Cl. 242—55.2)

1. A paper roll dispenser comprising a support, a hollow mandrel adapted to receive a roll of paper, a bracket extending from the support to one end of the mandrel to carry it, a retractile latch bolt mounted within the mandrel and adapted to extend outwardly therefrom, and



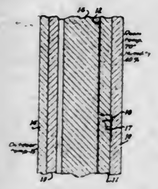
means hingedly connected with the support for locking the latch bolt in extended position and for preventing the endwise movement of the paper roll.

2,324,970
EXERCISING DEVICE
Louis A. Woolley, Xenia, Ohio
Application November 12, 1940, Serial No. 365,194
1 Claim. (Cl. 272—60)



A portable exercising device comprising in combination, a rigid drum member having a central member resiliently suspended therein, a supporting base member removably secured through the drum member with uprights extending upwardly from the supporting base member with the upper ends of the uprights forming handles by which the user of the device may balance himself.

2,324,971
WALL
Hobart F. Woodward, Minneapolis, Minn., assignor, by mesne assignments, to Minnesota and Ontario Paper Company, a corporation of Minnesota
Application February 3, 1940, Serial No. 317,167
2 Claims. (Cl. 20—4)



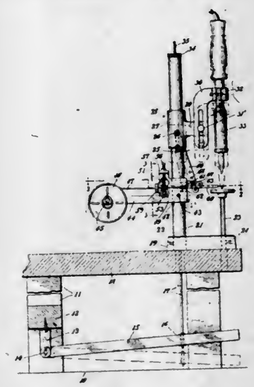
1. A wall construction comprising inner fiber board panels having an asphalt coating and a sheet of paper over the coating on one face of each panel, said coated panels having a vapor porosity of about 0.004 to 0.5 gram per square foot in 24 hours when indoor temperature is about 70° F. at 40% humidity and the outdoor temperature is about —15° F., studding supporting the panels, fiber board sheathing of about 16 to 25 pounds density per cubic foot and a vapor porosity of about at least 5 grams per square foot in 24 hours under conditions indicated, and siding material secured over said sheathing.

2,324,972
ELECTRIC LAMP
Daniel K. Wright, Cleveland Heights, Ohio, assignor to General Electric Company, a corporation of New York
Application November 27, 1941, Serial No. 420,641
6 Claims. (Cl. 176—34)



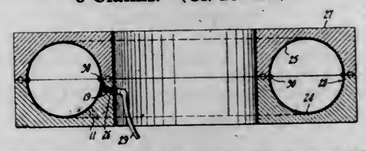
1. In combination, a pair of glass bodies arranged to be sealed together to form a glass envelope, said glass bodies being provided with cooperating rim portions having flattened continuous sealing surfaces for abutting interengagement, and matched protuberances and depressions on said sealing surfaces contiguous with the outermost edges thereof for locking said glass bodies against lateral displacement relative to one another, said protuberances and depressions being short in length and narrower than the width of the sealing surfaces.

2,324,973
SOLDERING DEVICE
Leonard P. Young, Chester, Conn.
Application May 16, 1940, Serial No. 335,447
6 Claims. (Cl. 113—94)



1. In a soldering device, a fixed base, a hollow standard extending therefrom, an adjustable iron support reciprocatingly mounted with said standard, upper and lower spring means within the standard and associated with said iron support, for, respectively, urging the support upwards, and for facilitating a cushioned downward movement of the latter, of solder, and solder feeder means associated with said standard and operatively connected with said iron support by adjustable motion-transmitting means, the latter being adapted to actuate said feeder means to dispense a desired length of solder beneath said support during the upward movement of the support, and an adjustable work-rest mounted in the base and beneath said iron support.

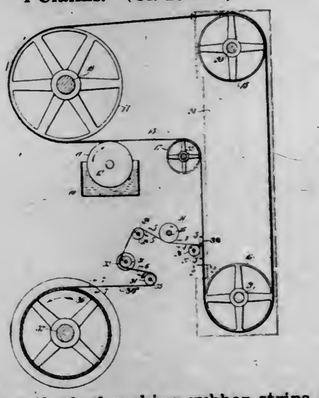
2,324,974
INNER TUBE AND METHOD OF PRODUCING THE SAME
Harold W. Greenup, Akron, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application May 17, 1938, Serial No. 208,429
5 Claims. (Cl. 18—58)



1. An inner tube for pneumatic tires, said tube comprising annular wall portions that are cast from liquid rubber latex and a valve stem that is cast from liquid rubber latex integrally with a portion of the tube wall, the tube wall at the base of the valve stem being substantially thicker than the average thickness of the tube wall, and said tube having no joint between the valve stem and adjacent tube wall.

2. An inner tube for pneumatic tires, said tube comprising annular wall portions that are cast from liquid rubber latex and a valve stem that is cast from liquid rubber latex integrally with a portion of the tube wall, the tube wall at the base of the valve stem being substantially thicker than the average thickness of the tube wall, said tube having no joint between the valve stem and adjacent tube wall, and said tube having inner and outer circumferential wall portions appreciably thicker than the average thickness of the tube wall.

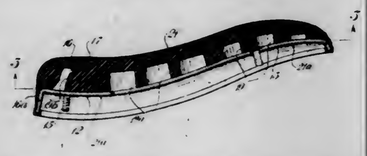
2,324,975
PROCESS OF MAKING RUBBER THREAD
Sterling W. Alderfer, Fairlawn, and Harold W. Greenup, Akron, Ohio, assignors to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application August 1, 1938, Serial No. 222,424
4 Claims. (Cl. 18—54)



1. That method of making rubber strips from latex comprising the steps of compounding sulfur-free latex with a delayed action accelerator capable of releasing sulfur upon prolonged heating, forming a continuous dried rubber strip from said latex compound, progressively stretching the dried rubber strip almost to the breaking point thereof, removing a portion of the tensioning force on the stretched rubber strip to permit partial retraction thereof, heating the rubber strip

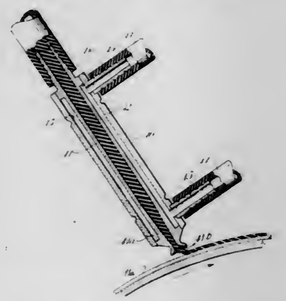
while it is tensioned to relieve, completely, the stresses therein, continuing the heating of the rubber strip to free sulfur from the delayed action accelerator, and further continuing the heating of the unstressed rubber strip to vulcanize same.

2,324,976
BICYCLE SEAT
Gilbert V. Soper, Akron, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application May 2, 1939, Serial No. 271,265
2 Claims. (Cl. 155—5.23)



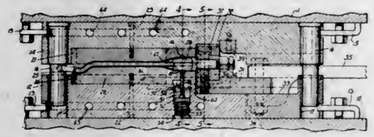
2. A bicycle seat or the like comprising a base member having an edge portion that extends downwardly from the main seating portion thereof, and a sponge rubber seat cushion molded to conform to said base member, said cushion having an edge lip extending downwardly therefrom and engaging with the edge of said base member, said cushion having flat topped recesses in the lower surface thereof, the tops of said recesses being parallel to the upper surface of said cushion, the axes of those recesses adjacent the rear edge of the cushion tilted forwardly to make an acute angle with said base member, the axes of the remaining recesses being perpendicular to the upper surface of the cushion.

2,324,977
LATEX DEPOSITING APPARATUS
George P. Bosomworth, Akron, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application August 23, 1939, Serial No. 291,559
4 Claims. (Cl. 18—15)



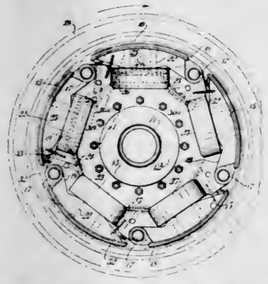
2. In apparatus for forming continuous rubber articles, the combination of means for receiving a continuous film of latex, nozzle means having a discharge end spaced from and immediately above said receiving means, said nozzle means forming an acute angle with said receiving means, said discharge end being outwardly flared along all planes which intersect the axis of said nozzle means, and means for continuously supplying said nozzle means with latex, whereby latex is continuously deposited on said receiving means.

2,324,978
METHOD OF MOLDING PLASTICS
William Q. Lohrand, Barberton, and Carl H. Whitlock, Akron, Ohio, assignors to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application January 9, 1940, Serial No. 313,076
2 Claims. (Cl. 18—59)



2. The method of molding portable reinforced plastic articles which comprises supporting a reinforcing member in a mold cavity in spaced relation to the wall thereof by engagement of the mold with opposite ends of said member, filling the mold cavity to cover the reinforcing member with plastic material and forming the latter with an open hollow bulbous portion about and beyond one end at least of said reinforcing member, removing the molded reinforced structure from the mold, and then mounting a preformed cap over the opening in the bulbous portion to close the same and conceal the end of the reinforcing structure within the hollow interior thereof.

2,324,979
AIRPLANE BRAKE
James W. Hatch, Akron, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application April 9, 1940, Serial No. 328,677
4 Claims. (Cl. 188—152)



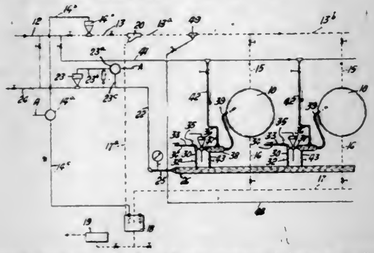
1. In a brake construction, a torque receiving member, a plurality of outwardly open cups carried by said torque receiving member at the outer periphery thereof, a metal sealing disc positioned in each of said cups, a rubber sealing member vulcanized to the inner face of each of said metal sealing discs, the assembly consisting of said metal sealing disc and said rubber sealing member being free to move slightly transversely of its axis without breaking the seal formed thereby, means connecting the base of each of said cups to the cups adjacent thereto, said cups and connected means adapted to receive fluid under pressure to force said metal sealing discs outwardly of said cups, a plurality of brake shoes, means pivotally securing one end of each of said brake shoes to said torque receiving member, said brake shoes being positioned to extend over the open sides of said cups and being provided with integral bosses that bear upon said metal sealing discs, means for retaining said brake shoes in

contact with said metal sealing discs and adjustable means operatively associated with said torque receiving member for determining the radially innermost positions of said brake shoes.

2,324,980
METHOD OF RECLAIMING SYNTHETIC RUBBER
Frederick L. Kilbourne, Jr., Copley, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
No Drawing. Application April 30, 1940, Serial No. 332,607
8 Claims. (Cl. 260—27)

8. A method of reclaiming synthetic rubber, which comprises the step of heating together a mixture of rosin, asphalt residue from cracking crude petroleum, solvent naphtha and a vulcanized polymer of 2-chloro-1,3-butadiene for a period of less than two hours at a temperature above 212° F.

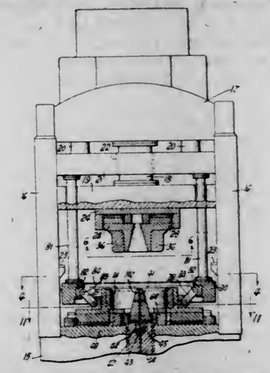
2,324,981
VULCANIZING METHOD AND APPARATUS
George P. Bosomworth, Akron, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application May 7, 1940, Serial No. 333,702
8 Claims. (Cl. 18—6)



1. Vulcanizing apparatus comprising a vulcanizer, a circulatory system of relatively low pressure steam of which said vulcanizer is a part, a superheater for air or steam in communication with an article within the vulcanizer, means discharging high pressure steam into the superheater to heat the same, and a piping connection between the superheater and the circulatory system whereby the superheating steam is returned to the latter, said piping connection discharging into the circulatory system through an ejector to assist in maintaining circulation in said system.

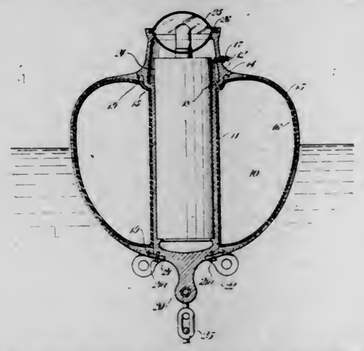
2,324,982
APPARATUS FOR EXPANDING AND SHAPING ANNULAR ARTICLES
Max O. Kuhn, Cuyahoga Falls, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application June 21, 1940, Serial No. 341,713
13 Claims. (Cl. 153—2)

1. In apparatus for expanding and shaping annular articles, the combination of an annular support for an article, which support is axially movable between an elevated inoperative position and a depressed operative position, a circumferential series of radially movable slides concentric with said support and circumscribing the work thereon in the depressed operative position thereof, a second series of radially movable slides, which series is movable axially from an elevated position to telescoping position within the work in the inoperative and operative positions of the latter, means for moving the last mentioned slides radially outwardly to expand the annular



article on the work-support, and means for moving the other series of slides inwardly for shaping a local circumferential region of said article.

2,324,983
RUBBER LIGHT BUOY
Archie H. Gollings, Akron, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application July 9, 1940, Serial No. 344,535
4 Claims. (Cl. 9—8.3)

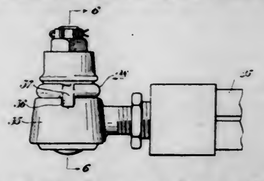


2. A light buoy comprising a hollow cylindrical metal container having a closed lower end and an integral flange formed on its outer periphery adjacent its upper end, light producing means, energy supply means for said light producing means mounted within said container and positioning said light producing means adjacent the upper end of said container, an annular ring associated with the lower end of said container, a pneumatic tire positioned around said container and engaging with said integral flange and said annular ring to limit its position thereon, and an inflatable rubber member received in said tire whereby the light buoy can be made to float upon water.

2,324,984
PIVOTAL JOINT
Roy W. Brown, Akron, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application July 26, 1940, Serial No. 347,724
5 Claims. (Cl. 287—90)

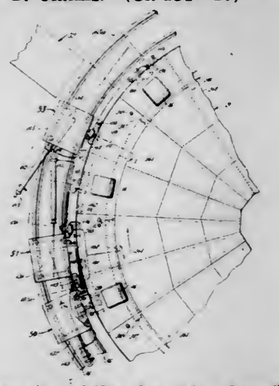
1. In an insulating and pivotal joint an outer

housing member, an inner bearing member having a shank, a resilient bushing member interposed between said outer housing member and said inner bearing member, said resilient bushing member having an integral extension extending beyond said housing and around said shank, an element attached to said shank having bearing surfaces confronting the end of the ex-



tension on said bushing member, said extension having integral resilient means operatively interposed between said bearing surface and said housing and mechanically interlocked with the latter to resiliently resist relative pivotal movement between said inner bearing member and said housing member.

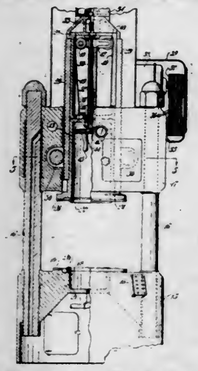
2,324,985
APPARATUS FOR TIRE PRODUCTION
Horace D. Stevens, Akron, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application July 27, 1940, Serial No. 347,891
17 Claims. (Cl. 154—10)



1. In apparatus of the character described, the combination of a tire building machine, a movable carrier supporting said machine and conveying it in an orbital course, a stock-supply unit disposed beside the carrier, said unit comprising a stationary stock rack and a movable stock rack, means for moving the movable stock rack with the carrier for a determinate distance while stock therefrom is withdrawn by the tire building machine, and means for returning said stock rack to its initial position, the stationary stock rack being positioned midway between the limits of movement of the movable rack and rearwardly thereof and adapted to feed stock to the latter in all positions thereof.

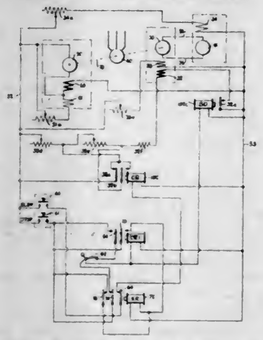
2,324,986
TIRE SHAPING APPARATUS
Raymond W. Allen, Akron, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application August 3, 1940, Serial No. 350,794
5 Claims. (Cl. 18—2)

3. Tire shaping apparatus of the character described comprising a vertically reciprocable hollow cylinder, a vertically reciprocable hook within said cylinder, electrically operating control means for said cylinder causing the latter automatically to execute a cycle of operation comprising downward and upward movements between determinate limits, said control means including electrical switches and a time relay for producing a motionless dwell in the operation of the cylinder at a position intermediate



said limits, after manually being set in operation and electrical operating means for said hook adapted to move the some downwardly, relatively of the cylinder, in determinate time relation to the period of motionless dwell of the cylinder, said hook-operating means comprising a starting switch operated by the downward movement of the cylinder and a limit switch operated by the hook-moving means.

2,324,987
CONTROL SYSTEM
William J. Secrest, Cuyahoga Falls, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application August 4, 1940, Serial No. 351,293
1 Claim. (Cl. 172—239)



Direct current apparatus having in combination, a generator and a motor adapted to be normally driven by said generator, conveyor means driven by the motor, a resistance for reducing the generator field current, switch means responsive to the operation of the conveyor at predetermined points in the travel thereof for connecting the resistance to the generator field, said switch means being adapted to open the generator field and permit the generator voltage to drop to zero at a point of conveyor travel spaced from the resistance cut-in point, and means for neutralizing regenerative action in the motor generator circuit after the generator field is opened to insure said drop to zero, said means comprising a differential generator field in which opposition currents are induced.

2,324,988
APPARATUS FOR AERATING VISCOUS LIQUIDS
Harold W. Greenup, Fall River, Mass., and Norris Johnston, Alhambra, Calif., assignors to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Original application May 8, 1937, Serial No. 141,580. Divided and this application October 9, 1940, Serial No. 360,388
2 Claims. (Cl. 259—64)



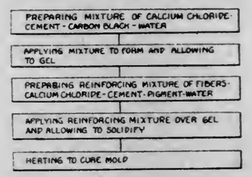
1. In apparatus for aerating liquids, the combination of a series of containers for liquid so arranged that overflow from each container enters the adjacent container of the series, means for continuously supplying liquid to the container at one end of the series, and a beater in each of said containers, the relation of the beaters to the level of the liquid in the containers varying from partial submergence of the beater at the liquid-receiving end of the series to complete submergence of the beater at the other end of the series.

2,324,989
ELASTIC NOVELTY YARN
Sterling W. Alderfer, Akron, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application December 4, 1940, Serial No. 368,477
2 Claims. (Cl. 57—152)



1. An elastic novelty yarn comprising an elastic thread, a core thread wrapped around said elastic thread to form a unit which lies along the axis of the novelty yarn when it is tensioned, a yarn loosely wrapped around said unit in a direction similar to the twist thereof to form a plurality of loose closely adjacent convolutions therearound when the novelty yarn is relaxed, and a binder thread wrapped around the unit formed of said elastic thread and said yarn in the direction opposite to the direction in which said yarn is wrapped around said elastic thread to form elastic novelty yarn.

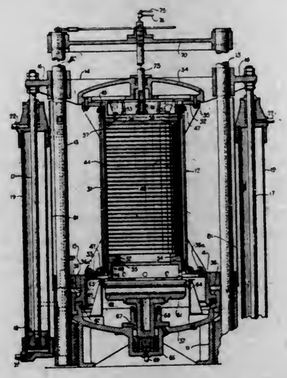
2,324,990
MOLD AND METHOD OF MAKING SAME
Mitchell Carter, Trenton, N. J., assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application December 19, 1940, Serial No. 370,789
7 Claims. (Cl. 18—47)



1. That method of making a mold comprising the steps of preparing a thixotropic mixture of calcium chloride, cement, and carbon black, applying the mixture to a form from which the mold is to be made, allowing the mixture to stand on the form until gelled thereon, placing a thixotropic reinforcing mixture over the gel around the form, the reinforcing mixture having asbestos therein plus the same ingredients as the first-named mixture which asbestos contains sufficient water to hydrate and cure the cement in the mixtures, solidifying the reinforcing mixture around the gel to form a mold, heating the mold to integrate the parts thereof by curing same together, and immersing the heated mold in grease to impregnate the mold surface with same.

7. A hard, shiny finished cement mold comprising a uniform mixture of cement, calcium chloride, a wetting agent, the surface of the mold being impregnated with grease, and asbestos fibers distributed through the interior of said mold.

2,324,991
MOLDING APPARATUS
Carl W. Groncy and Edward Heck, Akron, Ohio, assignors to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application March 7, 1941, Serial No. 382,198
11 Claims. (Cl. 18—17)



1. Vulcanization apparatus for annular rubber articles having a portion of their outer peripheries exposed when placed in the molds therefor, said apparatus comprising a segmental mold for annular rubber articles adapted to position same with a portion of their outer peripheries exposed, a reciprocable ram upon which said mold is positionable, a rigid casing adapted to be positioned

around and radially spaced from said mold, a flexible sleeve mounted within said casing with the ends in fluid sealing engagement with the casing walls for telescoping movement to and from a mold enclosing position, and means for forcing said flexible sleeve inwardly into tight engagement with said mold when the latter is inside said casing whereby annular rubber articles in said mold can be forced tightly thereinto.

10. In a device of the character described, a fixed base frame having a pair of upstanding slide bars, a mold receiving conveyor mounted on the frame intermediate the slide bars, a vertically movable ram adapted to telescope through said conveyor to lift molds from the conveyor to a position thereabove, a downwardly open housing disposed above the conveyor and between said bars in slidable relation thereto, means for actuating said housing from a mold enclosing to a mold exposing position, said actuating means being controllable through a pivoted lever, a locking member mounted for oscillation about one of said slide bars when the housing is in a mold exposing position to prevent accidental descent of the housing, and means connecting said hand lever and said locking member whereby said member is oscillated into locking position at the end of the housing raising operation and is oscillated to a position of release at the start of a housing lowering operation, whereby an operator is protected against the accidental lowering of the housing during installation or removal of a mold therefrom.

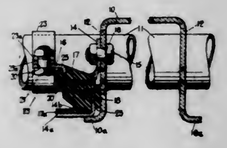
2,324,992

RESILIENT SUPPORT FOR PIPES AND THE LIKE

Ellwood F. Riesing, Akron, Ohio, assignor to Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio

Original application March 16, 1940, Serial No. 324,340, now Patent No. 2,290,621, dated July 21, 1942. Divided and this application April 9, 1941, Serial No. 387,555

4 Claims. (Cl. 248—358)



1. The combination which comprises a supporting structure, a supported structure fixedly mounted at one end and subject to elongation due to thermal expansion causing it to move relatively of the supporting structure, a pair of plates disposed in the same plane and secured to said supporting structure, a pair of plates disposed in a common plane and secured to said supported structure in parallelism with respective first mentioned plates and so positioned at the side of the latter as to move away therefrom, in the direction normal to the planes of the plates, upon thermal elongation of the supported structure, and a pair of rubber bodies disposed between said second named plates and said first named plates and bonded to each of them, each of said rubber bodies being adapted to be put under tension by such elongation of the supported structure, and to be deflected in a direction transversely of the direction of tension by reason of relative movement of the plates in their respective planes.

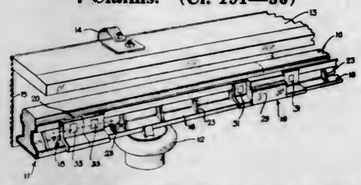
2,324,993

RAIL INSULATOR

Le Roy M. Kubaugh, Akron, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio

Application May 29, 1941, Serial No. 395,779

7 Claims. (Cl. 191—30)



1. A rail insulator for "third rails" and the like, said insulator comprising a structure of dielectric material adapted to embrace a portion of a rail including the lateral faces thereof and leaving a continuous surface of the rail exposed for contact with a current collector sliding therealong, and a facing on the outer surface of said structure, said facing consisting of a material that is adapted to suppress combustion.

2,324,994

PNEUMATIC TIRE AND RIM ASSEMBLY

James E. Hale, Akron, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio

Application June 7, 1941, Serial No. 397,103

4 Claims. (Cl. 152—401)



4. In combination with a pneumatic tire and rim assembly of the class described, a bead locking device comprising an inextensible endless band having a plurality of rigid wedge-shaped tire bead clamping units secured thereto by lost motion connectors, said units being arranged in circumferentially spaced relation about said band and having centrally located threaded apertures adapted to engage in threaded relation with bolts projected radially outwardly through holes formed in the base of said rim, whereby said clamping units may be drawn radially inwardly firmly against said tire beads and removably secured in such bolted position thereby providing means for retaining the tire on its rim independently of tire inflection pressure.

2,324,995

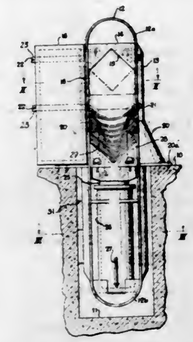
METHOD OF BALING RUBBER

Raymond W. Allen and William T. Runals, Akron, Ohio, assignors to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio

Application June 11, 1941, Serial No. 397,648

1 Claim. (Cl. 18—48)

The method of forming a compact rubber bale consisting of the steps of stacking a plurality of rubber sheets upon a V-shaped ram head within an open compression chamber through an open door, closing and locking said door whereby said compression chamber is converted into a tightly closed chamber, forcing said ram head toward a V-shaped die block and compressing the rubber between said head and block thereby progressively causing the said rubber to flow into a compact bale while preventing the escape of the rubber from between the head and the block by the close association of the walls of said compression chamber and said die block, completing the cycle of the operation by moving



said ram head away from said die block, unlocking said door, and removing the formed bale of rubber through the door.

2,324,996

VEHICLE TIRE

William S. Coben, Akron, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio

Application July 10, 1941, Serial No. 401,717

5 Claims. (Cl. 152—209)



1. A pneumatic tire having a transversely arcuate body portion and a tread with integral outwardly extending traction elements adapted to provide traction in a deformable medium, said traction elements comprising two series of integrally connected curved ribs, the ribs of each series being inclined with relation to the ribs of the other series and to the central plane of the tire in such a manner that the central portions of the ribs are circumferentially spaced, the height of said ribs at the center plane of the tire being at least as great as the width thereof at the top of the rib, all of said ribs having the same radius of curvature, said ribs having valleys formed therebetween which are open to the sides of the tire and said ribs being formed so that the valleys increase in width and decrease in depth from the center of the tread substantially to the open ends of said valleys.

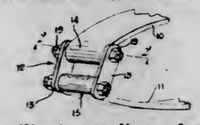
2,324,997

RESILIENT COUPLING

Roy W. Brown, Akron, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio

Application November 4, 1941, Serial No. 417,785

3 Claims. (Cl. 267—54)



1. In a resilient coupling of oscillating type, the combination of an inner metallic member, a tubular outer metallic member surrounding the same concentrically thereof, an intermediate body of resilient composition between said members and bonded solely to said inner member, and a lubricated facing bonded to the peripheral surface of said intermediate body in contact with the confronting surface of the outer metallic member, said outer metallic member having inturned end flanges engaging the respective ends of the resilient intermediate body, and being formed with a central peripheral constriction or corrugation, said intermediate body being under such slight compressive stress as not to retard the free sliding movement of the facing thereon, relatively of said outer metallic member, when the latter is oscillated relatively of the inner metallic member.

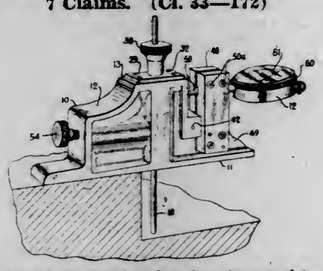
2,324,998

INDICATING DEPTH GAUGE

Max R. Dague, Akron, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio

Application January 23, 1942, Serial No. 427,971

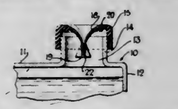
7 Claims. (Cl. 33—172)



1. A depth indicator having in combination, a rigid frame provided with a planate surface and a bore extending from said surface through the frame, a plug disposed within the bore in bearing relation therewith, means confining the movement of said plug to a path terminating at one end in spaced relation to the planate surface, said plug having a chambered terminus extending from the frame at a position opposite the planate surface, said chamber leading into a reduced center bore extending through the plug, an indicating rod extending through said chamber and center bore, a collet cylinder disposed within said plug chamber to encompass said rod, a pair of annular clamping jaws disposed within said chamber at opposite ends of said cylinder, a collet nut threadedly engaging the extending plug terminus for releasably clamping the indicator rod to the plug through said collet mechanism, said plug having a portion between the chambered portion and the opposite end directly engaging the walls of said bore and provided with a diametric slot having upper and lower

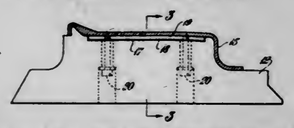
walls in radial planes, an adjustment pin slidably disposed within the frame and having a frusto-conical end angageable with one of said radial slot walls, a compression spring urging the pin out of engagement with said wall, and a screw for forcing the pin against the urge of said spring, said frame provided with a channel leading to the slotted plug portion at a point opposite said pin, a bell crank pivotally mounted within said frame channel, said bell crank having an arm provided with an arcuate terminus extending into the plug slot and abutting the sidewall opposite the pin engaging sidewall, and a second crank arm angularly disposed respecting the first crank arm and provided with an arcuate terminus, and a visual indicator mounted on the frame and having a plunger in abutment with the arcuate terminus of said last mentioned arm.

2,324,999
GRAVITY OPERABLE VALVE
Byron H. Shinn, Butler, Pa., assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application February 5, 1942, Serial No. 429,701
2 Claims. (Cl. 220—44)



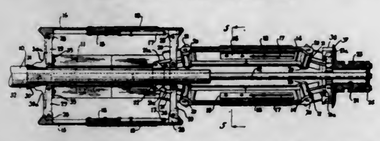
1. A valve of the class described comprising an internally threaded cap portion, said cap portion merging into a conical flexible depending central portion, said central portion in turn merging into a further depending tubular portion, said tubular portion extending through and being attached to a weight, the threaded portion of said cap being adapted to fit over and cooperate with outside threads on an annular outwardly projecting fluid transfer port neck of a container, the depending portions of the valve being adapted to extend into said container, said central portion being adapted to be retracted under internal pressure within the container whereby additional volume within the container is provided thereby regulating, to a limited degree, the amount of internal pressure which can be built up in said container, said weighted tubular portion being adapted to fall sidewise when turned to a horizontal or upsidedown position, thereby closing the valve.

2,325,000
WELDING APPARATUS
Max O. Kuhn, Cuyahoga Falls, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Original application June 20, 1940, Serial No. 341,484. Divided and this application April 22, 1942, Serial No. 440,079
4 Claims. (Cl. 219—4)



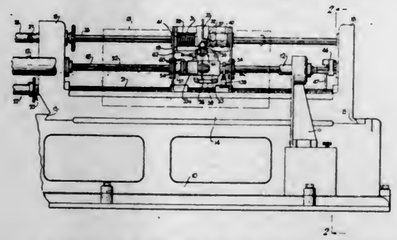
4. Electric butt-welding apparatus comprising pairs of electrodes adapted to grip work-units to be united by welding, and insulation locally disposed between one electrode of each pair and the work-units for impeding the direct passage of electric current therebetween, a rigid metallic wear-plate having high heat resistance characteristics overlying said insulation, wear-plate supporting means, said wear-plate being insulated and spaced apart from the assembly.

2,325,001
COLLAPSIBLE FORM
Francis M. McLaughlin, Akron, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application June 6, 1942, Serial No. 446,121
7 Claims. (Cl. 154—9)



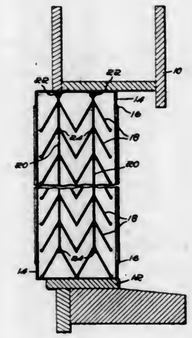
1. In a collapsible tire building form, the combination of a group of key sections and a group of intermediate sections defining an annular structure when in operative position, end plates for the respective key sections pivotally connected thereto, respective hubs to which the end plates at opposite ends of the key sections are pivotally connected, individual supports for said hubs enabling the latter to move apart from each other to effect collapse of the key sections and enabling said hubs to move as a unit axially of the form to withdraw the collapsed key sections out of the operative plane of the form, and pivotal supports for the intermediate sections enabling the sections to be moved toward the axis of the form after the key sections have been moved out of the operative plane thereof.

2,325,002
BAND CUTTER
Raymond W. Allen and Sigurd V. Carlsten, Akron, Ohio, assignors to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application December 11, 1942, Serial No. 468,866
5 Claims. (Cl. 164—69)



1. In a band cutter of the character described, the combination of a rotatable form upon which a sleeve of material may be fabricated, a slide beside said form and movable parallel to the axis thereof, a constantly rotating circular cutter carried by said slide, means including a normally constantly driven motor for periodically moving said slide laterally a determinate distance axially of said form, means including a periodically driven motor for moving said cutter periodically into and out of cutting engagement with the material on said form during periods when the slide is stationary, and means for stopping the constantly driven motor immediately prior to the slide-moving operation if the cutter is not in determinate inoperative position.

2,325,003
VENETIAN BLIND
Edwin L. Beckwith, Brookline, and Charles P. MacIver, Newton, Mass., assignors to Beckwith Manufacturing Company, Dover, N. H., a corporation of New Hampshire
Application September 25, 1941, Serial No. 412,254
3 Claims. (Cl. 160—173)



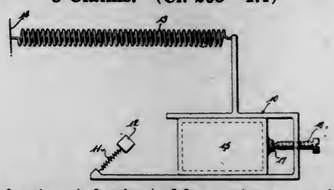
1. A black-out ventilating blind comprising a plurality of slats of inverted V-shape in cross section and arranged in nested relation, supporting cables extending through the V-apexes of the slats and permitting collapsing of the slats into stacked relation, and slat engaging abutments carried in spaced relation on the cables for supporting the slats, the abutments being located between the slats and spaced apart distances holding the apex portions of the slats within the reentrant V-recesses of the adjacent slats thereabove when the slats are suspended in vertical position on the cables and abutments.

2,325,004
SHOE
Arthur J. Brauer, Webster Groves, Mo., assignor to Brauer Bros. Shoe Co., St. Louis, Mo., a corporation of Missouri
Application September 28, 1940, Serial No. 358,761
1 Claim. (Cl. 36—71)



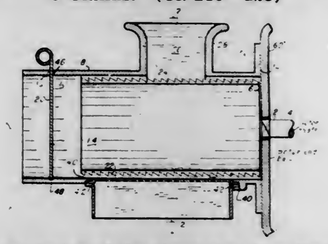
In a shoe, a sole member having an aperture, a swatch of non-slip material in said aperture, a cushion arranged beneath the portion of said swatch which is within the confines of the aperture, and means for holding said cushion in position with some freedom of movement relative to said swatch.

2,325,005
GRAVITY METER
Dayton H. Clewell, Dallas, Tex., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
Application June 21, 1941, Serial No. 399,101
8 Claims. (Cl. 265—1.4)



1. A horizontal, pivoted beam type gravity meter in which the gravity responsive element has a weight and volume distribution such that changes in gravity moments therein due to changes in elevation will be compensated by changes in buoyancy moments therein due to the same changes in elevation.

2,325,006
VEGETABLE PULPER AND JUICER
Hugh James Crawford, Oakland, Calif.
Application January 28, 1941, Serial No. 376,264
8 Claims. (Cl. 146—123)

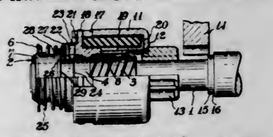


1. In a device of the character described, a stationary wall member, a motor driven shaft supported by said wall for rotation and projecting therefrom, a tubular housing member having a terminal end, means on said wall and means on said housing terminal end whereby said tubular member is detachably fastenable with its axis parallel to the axis of the shaft, said tubular housing being open ended and adapted to have one end closed by said wall member when so fastened, means separable from said housing member for closing the other end of said housing member, inlet and outlet ports formed radially through the walls of said housing member, a rotor substantially filling said housing member leaving clearance therebetween and the housing interior, blades in said rotor having teeth projecting into said clearance short of said housing member and disposed to pass said ports, a sieve detachably fastenable across the outlet port, and means whereby said housing and said sieve may be manipulated for their fastening without the aid of tools.

2,325,007
ENGINE STARTER
Kenneth F. Douglas, Elmira, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application September 19, 1941, Serial No. 411,500
2 Claims. (Cl. 74—7)

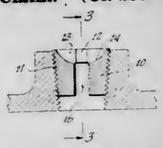
1. In an engine starter drive a power shaft, a hollow shaft thereon having a smooth part and a threaded part, means connecting the hollow shaft

for rotation with the power shaft, a pinion slidably journalled on the power shaft for movement into engagement with an engine gear, a nut on the hollow shaft, a yielding driving connection between the nut and pinion, a compression spring urging the nut into engagement with the threads



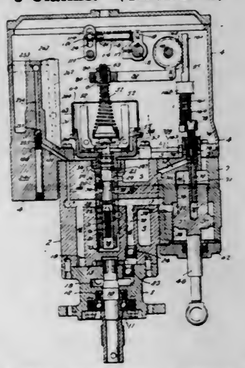
of the hollow shaft, anti-drift means yieldingly resisting longitudinal movement of the nut to maintain demeshed clearance between the pinion and engine gear and means limiting the expansion of the spring to prevent its moving the nut against the anti-drift means.

2,325,008
SPRAY NOZZLE
Le Roy E. Gruett, Milwaukee, Wis., assignor to The Falk Corporation, Milwaukee, Wis., a corporation of Wisconsin
Application August 19, 1940, Serial No. 353,209
1 Claim. (Cl. 299—153)



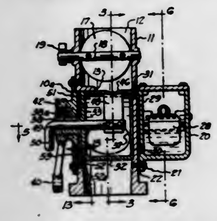
A spray nozzle comprising a plug having a round duct extending axially through the center thereof, a parallel sided discharge slot formed in an end face of said plug, said slot extending crosswise of said face through the center thereof and having an arcuate base, and a parallel sided entrance slot formed in the entrance end of said plug and extending transversely through the slot, said last named slot overlapping said first center thereof at right angles to said first named named slot within the intersection of the latter with said duct, said last named slot being wider than said first named slot but of less width than said duct.

2,325,009
GOVERNOR
Albert Kalin, Cleveland, Ohio
Original application March 26, 1941, Serial No. 385,228. Divided and this application September 10, 1941, Serial No. 410,284
3 Claims. (Cl. 264—3)



1. In a speed governor wherein a weighing element drivingly connected to a rotary part of a mechanism to be governed controls regulation of such mechanism through a hydraulic relay, means operable by such rotary part to maintain a supply of hydraulic fluid under operating pressure during operation of the governor, said means including a reservoir for the fluid, a hydraulic booster piston and cylinder in upright position, the top of the cylinder having hydraulic fluid connections with said reservoir and said piston having a spring to force it downwardly in the cylinder capable of drawing a booster reserve supply therefrom and maintaining the reserve supply separate from the reservoir, and a motor operable by elastic fluid associated with the lower end of the booster piston and operable to cause said piston to rise in its cylinder and pump hydraulic fluid of the reserve supply to the reservoir for creating initial pressure upon starting of the governor operation.

2,325,010
CARBURETOR
Horace L. McCurdy, Keene, Tex., assignor to William E. Abbas, Cleburne, Tex.
Application June 14, 1941, Serial No. 398,126
8 Claims. (Cl. 261—41)

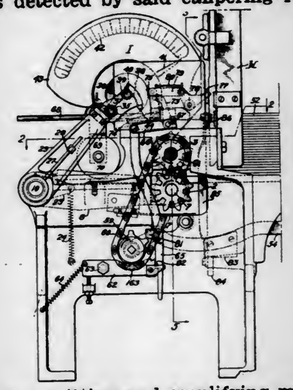


1. A carburetor for an internal combustion engine including, a body having an air inlet and a fuel inlet and also having an outlet, said body being annular in cross-section, a circular rotatable control valve for simultaneously controlling the volume of air and fuel from the air and fuel inlets to the outlet, said valve having one closed end which is adjacent one vertical wall of the body, which wall has an auxiliary air inlet for admitting air to the body, and a pair of co-acting plates disposed between the control valve and the wall of the body and adapted to co-act with the auxiliary inlet to open and close said inlet, said plates being actuate by the control valve and being movable relative to each other and to the auxiliary inlet, said plates engaging each other to close said auxiliary inlet upon movement of the valve toward a position increasing the fuel-air mixture to the outlet and being disengaged from each other to open said inlet upon a reverse movement of the element.

2,325,011
GRADING MACHINE
Arthur G. B. Metcalf, Milton, Mass., assignor to North American Holding Corporation, Syracuse, N. Y., a corporation of New York
Application November 14, 1941, Serial No. 419,057
12 Claims. (Cl. 33—148)

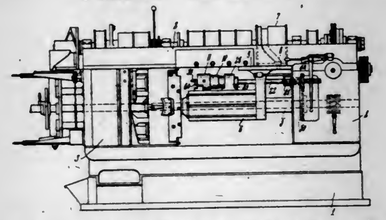
1. In a machine of the class described, blank calipering mechanism including a pair of rolls between which the blanks are fed one at a time by said rolls; adjustable grading mechanism; a rockshaft; a spring yieldingly urging said rockshaft rotatively in one direction; one-way knuckle joint means through which rotative adjustment of said rockshaft by said spring is occasioned and controlled by said calipering

mechanism while the latter is in action so that the final setting of said rockshaft is proportionate to the thickness of the thinnest spot of the blank as detected by said calipering rolls, and



motion transmitting and amplifying mechanism through which said rockshaft acts to adjust and set said grading mechanism.

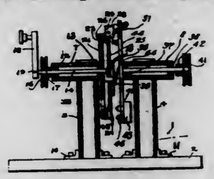
2,325,012
END WORKING TOOL MECHANISM
Carroll E. Miller, Windsor, Vt., assignor to Cone Automatic Machine Company Inc., Windsor, Vt., a corporation of Vermont
Application January 29, 1940, Serial No. 316,099
6 Claims. (Cl. 29—57)



1. A tool attachment comprising a casing, a tool head journaled in said casing, a tool carrier journaled in said head eccentric to the axis of rotation of said head, a gear secured to said tool carrier and projecting therefrom at one side, an internal gear concentric with said head secured to said casing and in mesh with said gear, a tool concentric with said tool carrier and rotated thereby, means for rotating said head, and a tool support projecting from one face of said head, said support having a tool guide portion and a guide for rotary work to be operated upon by said tool.

2,325,013
MECHANICAL MOVEMENT
George Bert Odatto, Cleveland, and William J. Wesseler, East Cleveland, Ohio, assignors to themselves, as joint trustees
Application May 3, 1941, Serial No. 391,740
7 Claims. (Cl. 74—308)

1. A mechanical movement comprising a support, a pair of coaxial shafts mounted for rotation on said support, crank elements mounted on said shafts in adjacent positions to each other, a gear element mounted for rotation on one crank element eccentrically to said shaft, a companion gear element rotatably mounted on said support, means for selectively holding said companion gear element against rotation, said first-named gear element having engagement with said companion gear element and having orbital movement in relation thereto when said companion gear element is held against rotation, one of said gear elements having internal gear teeth, and a



driving connection from a point offset from the center of said gear element having orbital movement to the crank element mounted on the other of said shafts whereby epicyclic motion of said point is transformed into motion imparted to said last named shaft.

2,325,014
COMPOSITION AND COATED ROD FOR ARC WELDING MAGNESIUM ALLOYS
James J. Prendergast, Bay City, Ronald A. Jones, Midland, and Carl F. Gladen, Bay City, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application March 25, 1942, Serial No. 436,174
4 Claims. (Cl. 219—8)

1. A composition for use in arc-welding magnesium and magnesium-base alloys consisting of a mixture of alkali metal halides composed of the elements potassium, sodium, and lithium in chemical combination with the elements chlorine and fluorine, the said elements being present in combined form in approximately the proportions:

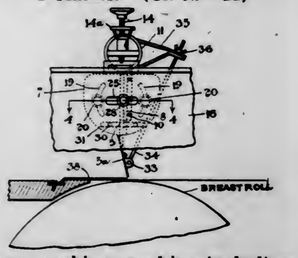
K—10 to 25 atomic per cent Na—10 to 35 atomic per cent Li—5 to 15 atomic per cent	Total: 50 atomic per cent
Cl—30 to 40 atomic per cent F—10 to 20 atomic per cent	Total: 50 atomic per cent

and the fluorine being present in a proportion substantially in excess of that equivalent to the lithum.

2,325,015
HYDROCARBON CONVERSION
John Turkevich, Princeton, N. J., assignor to Process Management Company, Inc., Wilmington, Del., a corporation of Delaware
No Drawing. Application August 27, 1940, Serial No. 354,391
5 Claims. (Cl. 260—668)

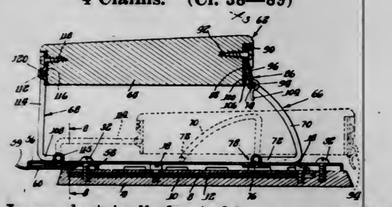
1. The method of dehydrogenating hydrocarbons which comprises contacting said hydrocarbons at elevated temperature with a molybdenum oxide catalyst under reaction conditions such that dehydrogenation is a principal reaction and there is a net production of hydrogen, the said molybdenum oxide catalyst having been prepared by reducing an ammonium salt of a heteropoly acid of molybdenum containing as the nuclear element a member of the third series of the periodic table selected from the group consisting of aluminum and phosphorus, the said reduction being carried out under reducing conditions sufficiently severe to effect substantial removal of oxygen atoms from the heteropoly compound but sufficiently mild to maintain in the residue the characteristic structure of the heteropoly compound.

2,325,016
PAPER MACHINE SLICE ASSEMBLY
David Warren, Madawaska, Maine, assignor to Fraser Companies Limited, Edmundston, New Brunswick, Canada
Application November 16, 1938, Serial No. 240,785
4 Claims. (Cl. 92—44)



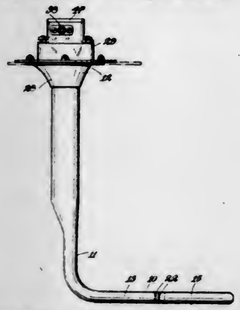
1. A paper making machine including a travelling carrier on which the pulp stock is deposited to form a sheet, frame members projecting upwardly above the carrier at opposite sides of said machine, a pair of plates slidably secured to the inner sides of said frame members for sliding movement in a horizontal direction of the frame members, a pair of swivel plates mounted for turning movement about horizontal supporting pivots carried by and movable with said first mentioned plates, a slice plate extending between said swivel plates and having its end portions slidably fitted in grooves formed in the opposing surfaces of said swivel plates, a vertically adjustable beam mounted on said swivel plates, said slice plate being secured to and supported by said beam.

2,325,017
ELECTRIC IRON
James J. Gough, Chicago, Ill., assignor to Chicago Electric Manufacturing Company, Chicago, Ill., a corporation of Illinois
Original application October 31, 1938, Serial No. 237,910. Divided and this application January 4, 1940, Serial No. 312,319
4 Claims. (Cl. 38—89)



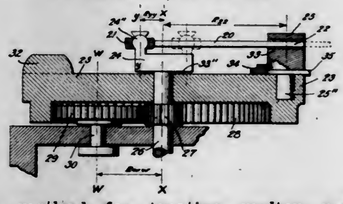
2. In an electrically heated iron, an electrically heated base comprising a thin sole plate, a heating element on said plate, a sheet metal clamping plate secured to said sole plate and overlying said heating element to clamp the latter to the sole plate and a sheet metal, flat surfaced cover plate overlying said clamping plate and having a depending peripheral rim engaging the rim of the sole plate, and a sheet metal rest member interposed between a portion of said cover plate and said sole plate, said sheet metal rest member projecting beyond said sole plate and having spaced feet adapted to support the iron in vertical position, said rest member also having an upwardly offset portion beneath said cover plate, said offset portion having a side wall shaped similarly to the depending rim of the cover plate and engaging the depending rim of said cover plate to hold said rest member in proper position relative to said cover plate.

2,325,018
PNEUMATIC PRESSURE HEAD
Eric Beecroft Moss, London, England, assignor to S. Smith & Sons (Motor Accessories) Limited, Cricklewood, London, England, a British company
Application July 17, 1941, Serial No. 402,869
In Great Britain May 3, 1940
10 Claims. (Cl. 73—212)



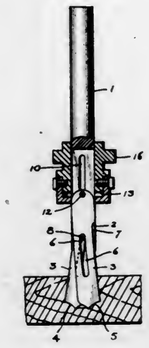
1. A pneumatic pressure head comprising a tubular casing having a forward chamber with a front opening for measuring dynamic pressure and a rearward chamber having lateral openings to provide static pressure in said rearward chamber, an axial tubular extension of said forward chamber passing through said rearward chamber and occupying all but a relatively narrow annular space adjacent the outer periphery of the latter chamber and a heating element disposed in said forward chamber and in said tubular extension of this chamber.

2,325,019
METHOD FOR MOLDING BY PULSATING CENTRIFUGAL FORCE
George Alexis Rubissow, New York, N. Y.
Application March 14, 1939, Serial No. 261,860
2 Claims. (Cl. 18—58)



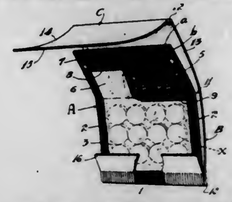
1. A method for treating molten material placed in a mold, comprising placing the said material in the said mold, in a molten state, subjecting for a predetermined length of time the said material in the said mold, to a rotation around an axis exterior of the said mold, and continuously and periodically decreasing and increasing during said rotation, the distances between the said mold and the said axis of rotation whereby the said material is subjected to the influence of the pulsating centrifugal force of the character herein described.

2,325,020
EXPANSION BIT
Markworth Albert Shaw, Vancouver, British Columbia, Canada
Application May 3, 1941, Serial No. 391,739
1 Claim. (Cl. 145—124)
An expanding bit comprising a stock having a slot extending from its lower end inwardly, a pair of cutting elements normally housed within the slot and extending therebelow, said elements each having a cutting edge equal to the width of the stock and said elements being pivotally connected adjacent one end by a pivot pin, said stock having a longitudinal slot transverse to



the first named slot through which the pivot pin extends, means engaging the pivot pin externally of the stock for moving said cutting elements to project downwardly beyond the lower end of the stock, and means for guiding the lower ends of the cutting elements outwardly as they are moved downwardly.

2,325,021
PACKAGE WITH A FOLD-CLOSED DELIVERY NECK
Leroy L. Salfisberg, South Orange, N. J., assignor to Ivers-Lee Company, Newark, N. J., a corporation of Delaware
Application May 27, 1942, Serial No. 444,670
11 Claims. (Cl. 206—56)

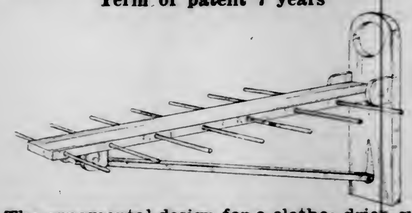


1. In a package, a bag comprising opposed layers of flexible material joined together and forming a commodity-receiving compartment having a sealing flange at one end thereof and a discharge neck extending into said flange, said flange having a tearing flap extending across said neck for producing a discharge opening for said compartment when said flap is torn, said bag having a transverse fold in said flange between said tearing flap and said compartment to close said discharge opening after removal of the tearing flap, and a cover secured to the bag and foldable therearound, said cover having a closure flap to separably enter said transverse fold and hold the fold against unfolding when the cover is folded around the bag, and means for releasably holding said closure flap in cover-closing position.

DESIGNS

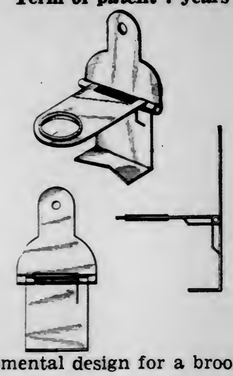
JULY 20, 1943

136,003
DESIGN FOR A CLOTHES DRIER
Hyman S. Aaronson, Meriden, Conn.
Application April 24, 1943, Serial No. 110,026
Term of patent 7 years



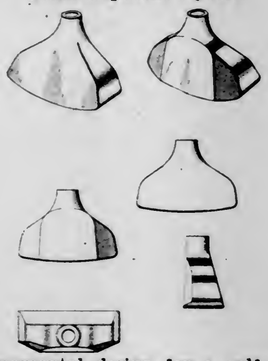
The ornamental design for a clothes drier, substantially as shown and described.

136,004
DESIGN FOR A BROOM HOLDER
Ernest Allred, San Francisco, Calif.
Application May 7, 1943, Serial No. 110,140
Term of patent 7 years



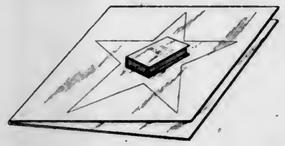
The ornamental design for a broom holder, as shown.

136,005
DESIGN FOR A GOLF CLUB HEAD
Victor C. Armstrong, Short Hills, N. J.
Application April 27, 1943, Serial No. 110,053
Term of patent 7 years



The ornamental design for a golf club head substantially as shown.

136,006
DESIGN FOR A GREETING CARD OR SIMILAR ARTICLE
Alvin Barker, Cincinnati, Ohio
Application March 5, 1943, Serial No. 109,676
Term of patent 3½ years



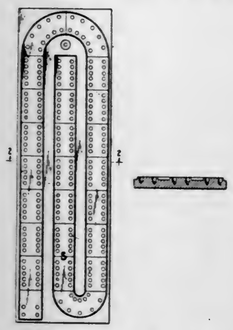
The ornamental design for a greeting card or similar article, as shown.

136,007
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Eugene S. Boudinot, Des Moines, Iowa
Application May 26, 1942, Serial No. 107,017
Term of patent 7 years



The ornamental design for a brooch or similar article, substantially as shown.

136,008
DESIGN FOR A TRACKWAY CRIBBAGE BOARD
Ernest Nathaniel Brooks, Toronto, Ontario, Canada
Application October 21, 1942, Serial No. 108,583
Term of patent 14 years



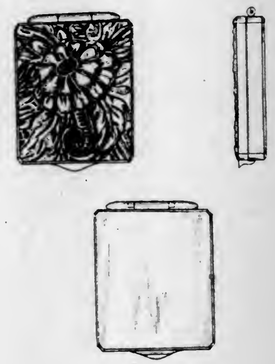
The ornamental design for a trackway cribbage board, as shown.

136,009
DESIGN FOR A CURLER COMB
Francis James Coakley, London, England
Application December 11, 1941, Serial No. 104,578
In Great Britain December 25, 1940
Term of patent 7 years



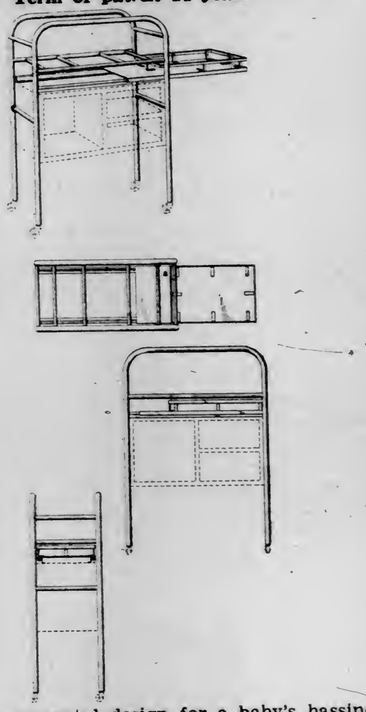
The ornamental design for a curler comb, as shown and described.

136,010
DESIGN FOR A COMPACT OR SIMILAR ARTICLE
Sigmund Dawer, New York, N. Y.
Application June 4, 1943, Serial No. 110,362
Term of patent 3½ years



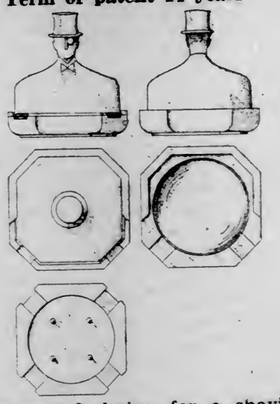
The ornamental design for a compact or similar article, substantially as shown.

136,011
DESIGN FOR A BABY'S BASSINET AND TOILET STAND OR SIMILAR ARTICLE
Boyd A. Doty, Buffalo, N. Y., assignor to Hard Manufacturing Company, Buffalo, N. Y.
Application March 5, 1943, Serial No. 109,674
Term of patent 14 years



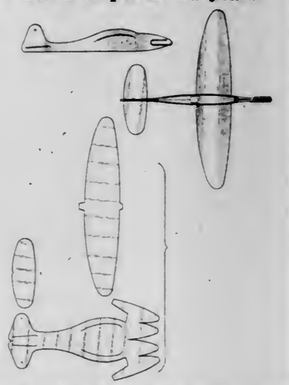
The ornamental design for a baby's bassinet and toilet stand or similar article, substantially as shown and described.

136,012
DESIGN FOR A SHAVING SOAP HOLDER
Oscar F. Grab, New York, N. Y.
Application May 7, 1943, Serial No. 110,148
Term of patent 14 years



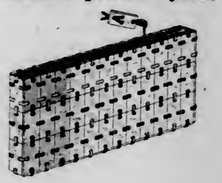
The ornamental design for a shaving soap holder, as shown.

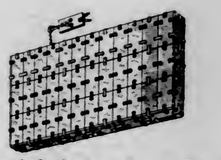
136,013
DESIGN FOR A TOY GLIDER
Alexander Horback, Chicago, Ill., assignor to Comet Model Airplane & Supply Co., Inc., a corporation of Illinois
Application September 19, 1942, Serial No. 108,282
Term of patent 14 years



The ornamental design for a toy glider, as shown.

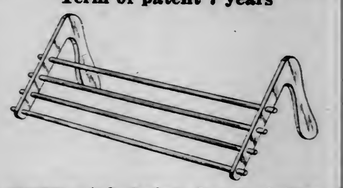
136,014
DESIGN FOR A HANDBAG
Benjamin Kalisher, Poughkeepsie, N. Y., assignor to Wood-Flex Fashions Inc., New York, N. Y., a corporation of New York
Application June 3, 1943, Serial No. 110,359
Term of patent 7 years





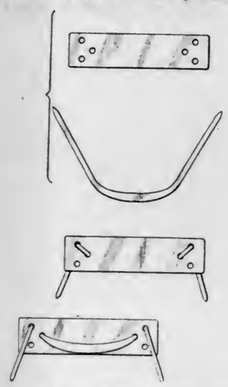
The ornamental design for a handbag, substantially as shown.

136,015
DESIGN FOR A CLOTHES-DRYING RACK
Kenneth E. Luger, Minneapolis, Minn.
Application May 7, 1943, Serial No. 110,141
Term of patent 7 years



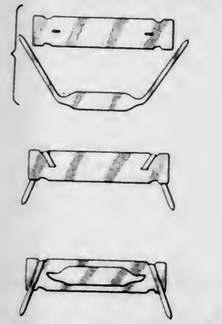
The ornamental design for a clothes-drying rack, as shown.

136,016
DESIGN FOR A FILE FASTENER
Martin Pollock, Eastchester, N. Y.
Application September 30, 1942, Serial No. 108,369
Term of patent 14 years



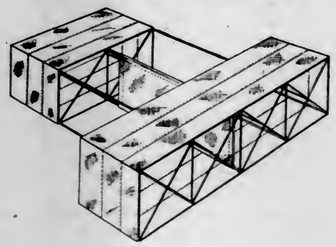
The ornamental design for a file fastener, substantially as shown.

136,017
DESIGN FOR A FILE FASTENER
Martin Pollock, Eastchester, N. Y.
Application September 30, 1942, Serial No. 108,370
Term of patent 14 years

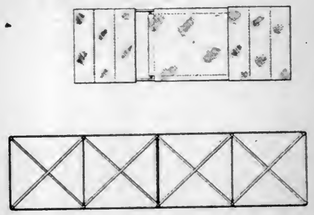


The ornamental design for a file fastener, substantially as shown.

136,018
DESIGN FOR A COLLAPSIBLE KITE
Hosea C. Sauls, Dayton, Ohio
Application May 17, 1943, Serial No. 110,219
Term of patent 14 years

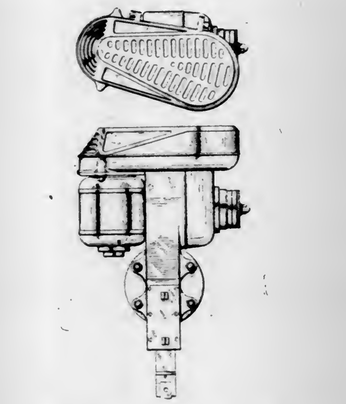


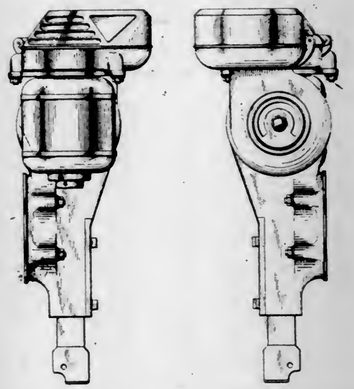
136,018—Continued



The ornamental design for a collapsible kite, as shown.

136,019
DESIGN FOR AN ATTACHABLE SHAPING MACHINE OR THE LIKE
Rudolph F. Bannow, Easton, and Magnus Wahlstrom, Bridgeport, Conn.
Application May 3, 1943, Serial No. 110,103
Term of patent 14 years





The ornamental design for an attachable shaping machine or the like, substantially as shown.

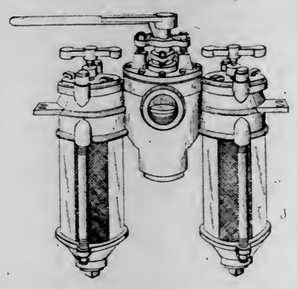
136,020
DESIGN FOR A PIN OR SIMILAR ARTICLE OF JEWELRY
Roy J. Kleineck, Onslow, Iowa
Application August 25, 1942, Serial No. 108,029
Term of patent 14 years





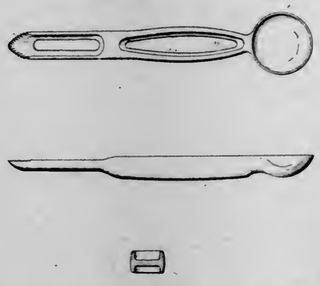
The ornamental design for a pin or similar article of jewelry, as shown.

136,021
DESIGN FOR A COMBINED FILTER AND STRAINER
Frederick Kraissl, Jr., North Hackensack, N. J.
Application November 25, 1942, Serial No. 108,876
Term of patent 7 years



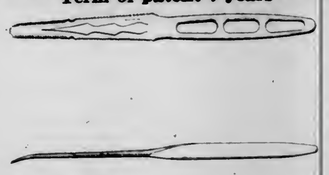
The ornamental design for a combined filter and strainer, as shown and described.

136,022
DESIGN FOR A COMBINATION PARING KNIFE AND MEASURING SPOON
Solomon Barr Phillips, Waterbury, Conn.
Application May 6, 1943, Serial No. 110,137
Term of patent 7 years



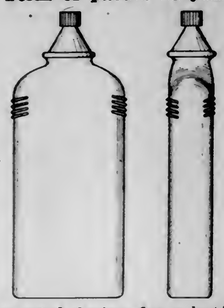
The ornamental design for a combination paring knife and measuring spoon, as shown.

136,023
DESIGN FOR A KITCHEN UTILITY KNIFE
Solomon Barr Phillips, Waterbury, Conn.
Application May 6, 1943, Serial No. 110,138
Term of patent 7 years



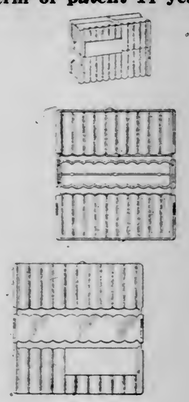
The ornamental design for a kitchen utility knife, as shown.

136,024
DESIGN FOR A BOTTLE
Raymond L. Flett, Cincinnati, Ohio, assignor to The American Products Company, Cincinnati, Ohio, a corporation of Delaware
Application March 6, 1943, Serial No. 109,683
Term of patent 14 years

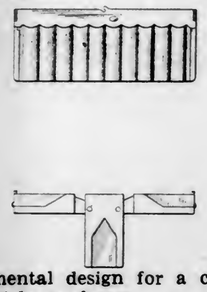


The ornamental design for a bottle, as shown.

136,025
DESIGN FOR A CIGARETTE CASE OR SIMILAR ARTICLE
Max L. Goldbert, New York, N. Y.
Application March 29, 1943, Serial No. 109,858
Term of patent 14 years



136,025—Continued



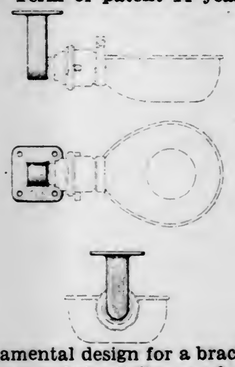
The ornamental design for a cigarette case or similar article, as shown.

136,026
DESIGN FOR A LIGHT SHIELD
Robert G. Nordquist, Oak Park, Ill., assignor to Patent License Corporation, Chicago, Ill., a corporation of Illinois
Application September 30, 1942, Serial No. 108,365
Term of patent 14 years



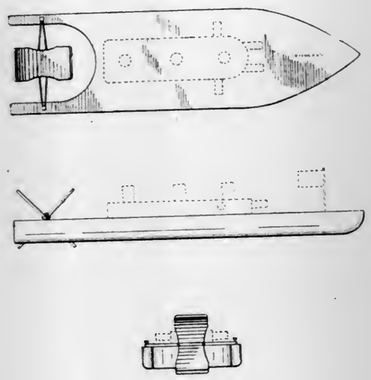
The ornamental design for a light shield, substantially as shown and described.

136,027
DESIGN FOR A BRACKET SUPPORTED LIGHT FIXTURE
Robert G. Nordquist, Oak Park, Ill., assignor to Patent License Corporation, Chicago, Ill., a corporation of Illinois
Application September 30, 1942, Serial No. 108,366
Term of patent 14 years



The ornamental design for a bracket supported light fixture, substantially as shown and described.

136,028
DESIGN FOR A TOY BOAT
Frank J. Preeshl, New Richmond, Wis.
Application September 14, 1942, Serial No. 108,227
Term of patent 3½ years



The ornamental design for a toy boat, as shown.

136,029
DESIGN FOR A FLUTED CIGARETTE LIGHTER
Alexander S. Weston, New York, N. Y.
Application May 24, 1943, Serial No. 110,270
Term of patent 14 years



The ornamental design for a fluted cigarette lighter, as shown.

136,030
DESIGN FOR A FINGERNAIL PROTECTOR
John A. Belmonte and Alexander E. Shagen, Brooklyn, N. Y.
Application November 2, 1942, Serial No. 108,680
Term of patent 3½ years



The ornamental design for a fingernail protector, substantially as shown.

136,031
DESIGN FOR A DRESS
Samuel Bloom, New York, N. Y.
Application June 29, 1943, Serial No. 110,554
Term of patent 3½ years



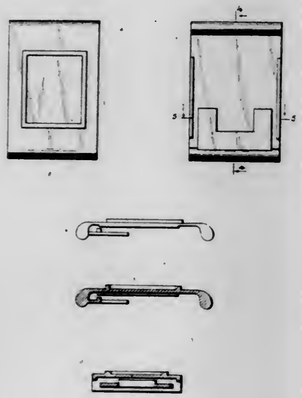
The ornamental design for a dress, substantially as shown.

136,032
DESIGN FOR A DRESS
Samuel Bloom, New York, N. Y.
Application June 29, 1943, Serial No. 110,555
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

136,033
DESIGN FOR A MATCH BOOK HOLDER
Stephen H. Brooks and Margaret A. Wright, Beverly Hills, Calif.
Application February 11, 1943, Serial No. 109,531
Term of patent 14 years



The ornamental design for a match book holder, as shown.

136,034
DESIGN FOR A DRESS
Bonnie Cashin, New York, N. Y.
Application June 29, 1943, Serial No. 110,556
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

136,035
DESIGN FOR A DRESS
Bonnie Cashin, New York, N. Y.
Application June 29, 1943, Serial No. 110,557
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

136,036
DESIGN FOR A DRESS
Bonnie Cashin, New York, N. Y.
Application June 29, 1943, Serial No. 110,559
Term of patent 3½ years

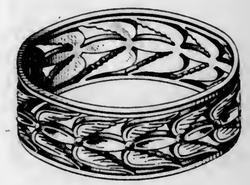


The ornamental design for a dress, substantially as shown.

136,037
DESIGN FOR A RING OR THE LIKE
Walter Lampl, New York, N. Y.
Application December 21, 1942, Serial No. 109,074
Term of patent 14 years

The ornamental design for a ring or the like, as shown.

136,038
DESIGN FOR A RING OR THE LIKE
Walter Lampl, New York, N. Y.
Application December 21, 1942, Serial No. 109,075
Term of patent 14 years



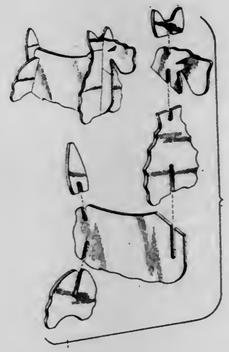
The ornamental design for a ring or the like, as shown.

136,039
DESIGN FOR A RING OR THE LIKE
Walter Lampl, New York, N. Y.
Application December 21, 1942, Serial No. 109,076
Term of patent 14 years



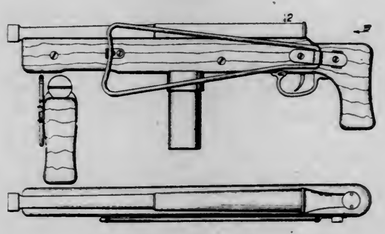
The ornamental design for a ring or the like, as shown.

136,040
DESIGN FOR A TOY FIGURE
Elmer F. Rebholz, Chicago, Ill., assignor to James F. Barnes, as trustee
Application March 12, 1942 Serial No. 106,175
Term of patent 7 years



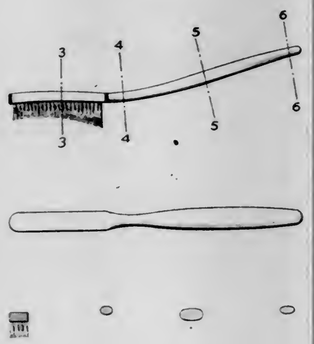
The ornamental design for a toy figure, as shown.

136,041
DESIGN FOR A FIREARM
Eugene G. Reising, Hartford, Conn.
Application August 3, 1942, Serial No. 107,802
Term of patent 14 years



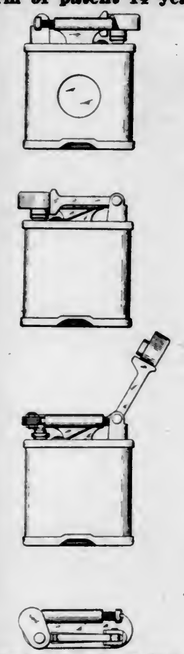
The ornamental design for a firearm, as shown.

136,042
DESIGN FOR A TOOTHBRUSH
Charles Kenneth Veo, Newtonville, Mass.
Application February 11, 1943, Serial No. 109,530
Term of patent 14 years



The ornamental design for a toothbrush, as shown.

136,043
DESIGN FOR A FULL OPENING LIGHTER
Alexander Sydney Weston, New York, N. Y.
Application April 3, 1942, Serial No. 106,442
Term of patent 14 years



The ornamental design for a full opening lighter, as shown and described.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Abbotts Dairies, Incorporated, Philadelphia, Pa. Flavored cream cheese spread. Serial No. 460,490; July 20. Class 46.

Alpha Mills, Schuylkill Haven, Pa. Women's underwear, children's sweaters, creepers, etc. Serial No. 459,530; July 20. Class 39.

American Furniture Novelty Co., Chicago, Ill. Furniture. Serial No. 460,749; July 20. Class 32.

American Lace Leather Co., Richmond, Va. Leather laces for shoes and boots. Serial No. 458,872; June 20. Class 40.

American Lead Pencil Company, Hoboken, N. J. Mechanical pencils and fountain pens. Serial No. 460,607; July 20. Class 37.

Ams, Max, Inc., New York, N. Y. Bottled prune concentrate. Serial No. 458,260; July 20. Class 48.

Andrew, Victor J., Co., Chicago, Ill. Radio antenna and transmission line equipment. Serial Nos. 460,167–8; July 20. Class 21.

Angier Corporation, Framingham, Mass. Paper for enclosing metal parts. Serial No. 454,619; July 20. Class 37.

Asco Chemical Company. (See Schaffhauser, Anton.)

Atlas Powder Company, Wilmington, Del. Plasticizing, dispersing, and wetting agents. Serial No. 460,783; July 20. Class 6.

Barrineau, Clarence C., doing business as Ceetoe Laboratories, Charleston, S. C. Liniment. Serial No. 460,686; July 20. Class 6.

Bates, C. J., & Son, Chester, Conn. Nail-buffers, nail files, manicure sticks, etc. Serial No. 460,467; July 20. Class 44.

Baxter, Woodhouse & Taylor Limited, Stockport, England. Piece goods of cotton, rayon, wool, etc. Serial No. 455,423; July 20. Class 42.

Belt Modes, Inc., New York, N. Y. Ladies', misses' and children's handbags and pocketbooks. Serial No. 460,787; July 20. Class 3.

Bristol Fabrics, Inc., Boston, Mass. Shoe fabrics. Serial No. 457,327; July 20. Class 42.

California Wine Company, Incorporated, Chicago, Ill. Brandy. Serial No. 458,930; July 20. Class 49.

Campbell, Harry T., Sons' Corp., Towson, Md. Extremely fine calcium carbonate. Serial No. 460,085; July 20. Class 1.

Capitol Wine & Spirit Corp., New York, N. Y. Whiskey. Serial No. 447,905; July 20. Class 49.

Cass, Louis P., New York, N. Y. Shaving brushes. Serial No. 460,790; July 20. Class 29.

Ceetoe Laboratories. (See Barrineau, Clarence C.)

Celanese Corporation of America, New York, N. Y. Reticular material covered with a transparent film. Serial No. 459,146; July 20. Class 50.

Chicago Forging & Manufacturing Co., Chicago, Ill. Metal tube fittings. Serial No. 459,328; July 20. Class 13.

Clapp, Edwin, & Son, Incorporated, East Weymouth, Mass. Boots and shoes. Serial No. 460,611; July 20. Class 39.

Colonial Bead Co., Inc., New York, N. Y. Iridescent costume jewelry. Serial No. 457,309; July 20. Class 28.

Columbia River Salmon Co. Inc., Astoria, Oreg. Canned tuna. Serial No. 460,289; July 20. Class 46.

Corrosion Control Corporation, Norwalk, Conn. Lacquer coatings. Serial No. 460,496; July 20. Class 5.

Dakin Manufacturing Company. (See Sweitz, Henry L.)

Dell Publishing Company, Inc., New York, N. Y. Printed publication. Serial No. 456,594; July 20. Class 38.

Delta Manufacturing Company, The, Milwaukee, Wis. Work holding attachments. Serial No. 460,444; July 20. Class 23.

Diamond M'f'g Co. (See Markatos, Spiros C.)

Du Pont, Francis I., & Co., New York, N. Y. Daily financial news and statistical letters. Serial No. 460,597; July 20. Class 38.

Eastman Kodak Company, Jersey City, N. J., and Rochester, N. Y. Newspaper. Serial No. 459,593; July 20. Class 38.

Ecker, Joseph V., doing business as Sav-a-Blade Company, Chicago, Ill. Razor blade sharpeners. Serial No. 460,258; July 20. Class 23.

Electronic Laboratories, Incorporated, Indianapolis, Ind. Electrical power supply units. Serial No. 459,562; July 20. Class 21.

Exeter Orchards Association, Exeter, Calif. Fresh citrus fruits. Serial No. 456,383; July 20. Class 46.

Factor, Max, & Co., Los Angeles, Calif. Cosmetic in the nature of a solidified cream. Serial Nos. 457,543–4; July 20. Class 6.

Fesler, Geo. C. V., Company. (See Fesler, Mary E.)

Fesler, Mary E., doing business as Geo. C. V. Fesler Company, Montgomery, Ala. Medicinal powder for vaginal irrigation. Serial No. 460,107; July 20. Class 6.

Friedricks, Irving, doing business as Irving Friedricks Co., New York, N. Y. Ladies' coats and suits. Serial No. 457,468; July 20. Class 39.

G and G Manufacturing Company, Inc., Memphis, Tenn. Toy wagons. Serial No. 461,046; July 20. Class 22.

Gerber & Co. Inc., New York, N. Y. Honey. Serial No 460,993; July 20. Class 46.

Grossman, Samuel L., doing business as Reel Kumfort Co., Los Angeles, Calif. Furniture. Serial No. 460,243; July 20. Class 32.

Handschy, A. E., Company, Chicago, Ill. Printing inks, lacquer solutions, etc. Serial No. 457,220; July 20. Class 11.

Hi-Lo Products. (See Owen, Edward M. B.)

Hogue, F. H., Company, Yuma, Ariz., and Kent, Wash. Fresh vegetables and melons. Serial No. 460,154; July 20. Class 46.

Hogue, F. H., Company, doing business as F. H. Hogue, Yuma, Ariz., and Kent, Wash. Fresh vegetables. Serial No. 460,152; July 20. Class 46.

Hollender, S. S., Inc., Chicago, Ill. Optical frames, mountings, lenses and parts thereof. Serial No. 460,737; July 20. Class 26.

House of Westmore, Inc., New York, N. Y. Lipsticks and dry or cake rouge. Serial No. 460,402; July 20. Class 6.

Integral Dowel Bar Corporation, Chicago, Ill. Dowel units. Serial No. 458,656; July 20. Class 12.

International Nickel Company, Inc., The, New York, N. Y. Nickel containing alloys. Serial No. 459,519; July 20. Class 14.

Johns-Manville Corporation, New York, N. Y. Asbestos fiber. Serial No. 458,367; July 20. Class 12.

Johnson Paper and Supply Company, Minneapolis, Minn. Thin glassine paper sheets. Serial No. 459,601; July 20. Class 44.

Kerr, Alex., Bro. & Co., Inc., Philadelphia, Pa. Salt for industrial purposes. Serial No. 460,672; July 20. Class 6.

Kirsch, Wendel, New York, N. Y. Hand and skin lotions. Serial No. 460,001; July 20. Class 6.

Lexa Watch Co., Inc., New York, N. Y. Watches and clocks. Serial No. 460,618; July 20. Class 27.

Locke and Company. (See Locke, Eric.)

Locke, Eric, doing business as Locke and Company, Los Angeles, Calif. Calcium preparation used in the treatment of calcium deficiency. Serial No. 455,271; July 20. Class 6.

Manhattan Shirt Company, The, New York, N. Y. Outer shirts. Serial No. 460,803; July 20. Class 39.

Markatos, Spiros C., doing business as Diamond M'f'g Co., New York, N. Y. Chemical compound for bleaching hats. Serial No. 457,476; July 20. Class 6.

Mayer, Oscar, & Co., Chicago, Ill. Meat products. Serial No. 450,808; July 20. Class 46.

Mears, Otho Frederick, Jr., Norfolk, Va. Nonbreakable ice buckets. Serial No. 460,724; July 20. Class 2.

Moore, John H., Inc., New York, N. Y. Perfumes and colognes. Serial No. 460,705; July 20, Class 6.

Moore, John H., Inc., New York, N. Y. Perfume, cologne, and dusting powder. Serial No. 460,707; July 20. Class 6.

Mounkad Bros., Inc., New York, N. Y. Piece goods. Serial No. 460,450; July 20. Class 42.

Ownen, Edward M. B., doing business as Hi-Lo Products, St. Louis, Mo. Vitamin and mineral products. Serial No. 457,612; July 20. Class 6.

Parke, Davis & Company, Detroit, Mich. Preparation for the treatment of migraine and allied functional disorders. Serial No. 460,676; July 20. Class 6.

Pennsylvania Salt Manufacturing Company, The, Philadelphia, Pa. Lye. Serial No. 460,159; July 20. Class 6.

Press Wireless, Inc., Chicago, Ill. Radio telephone, telegraph, and facsimile transmitters, etc. Serial No. 460,905; July 20. Class 21.

Reel Kumfort Co. (See Grossman, Samuel L.)

Rhodes, James H., & Company, Chicago, Ill. Chamois for cleansing and polishing purposes. Serial Nos. 460,936–7; July 20. Class 4.

Roxalin Flexible Finishes, Inc., Elizabeth, N. J. Lacquers, paint enamels, varnishes, etc. Serial No. 459,440; July 20. Class 16.

Royal Esquire Distributors. (See Wolf, William.)

Rubinstein, Helena, Inc., New York, N. Y. Perfumes and toilet waters. Serial No. 460,678; July 20. Class 6.

Sachs Quality Furniture Inc., New York, N. Y. Optical goods. Serial No. 460,126; July 20. Class 26.

Sav-A-Blade Company. (See Ecker, Joseph V.)

Schaffhauser, Anton, doing business as Asco Chemical Company, Brooklyn, N. Y. Leather soaps and saddle soaps. Serial No. 455,851; July 20. Class 4.

Schutte Laboratories, Beaver Falls, Pa. Poison in paste form. Serial No. 458,762; July 20. Class 6.

Sharp & Dohme, Incorporated, Philadelphia, Pa. Wares ordinarily and commercially described as all kinds of pharmaceutical and medicinal goods. Serial No. 431,025; July 20. Class 6.

Smit, Anton & Co., Inc., New York, N. Y. Diamond drill and core bits. Serial Nos. 459,640–1; July 20. Class 23.

Smith, G. Edwin, Shoe Company, The, Columbus, Ohio. Women's shoes. Serial No. 460,074 July 20. Class 39.

Smith, Isidore, New York, N. Y. Women's, misses' and junior misses' coats and suits. Serial No. 461,063; July 20. Class 39.

Smith, Kline & French Laboratories, Philadelphia, Pa. Sulfonamides and preparations containing a sulfonamide. Serial No. 460,408; July 20. Class 6.

Smith, V. R., doing business as V. R. Smith Olive Company, Lindsay, Calif. Olives in glass. Serial No. 460,393; July 20. Class 46.

Smith, V. R., Olive Company. (See Smith, V. R.)

Standard Oil Company of New Jersey, Wilmington, Del. Synthetic rubber. Serial No. 457,404; July 20. Class 1.

Stirn, I. & E., Inc., New York, N. Y. Textile fabrics in the piece. Serial Nos. 460,717–18; July 20. Class 42.

Stoller Chemical Company. (See Stoller, Hugh S.)

Stoller, Hugh S., doing business as Stoller Chemical Company, Akron, Ohio. Core compound for foundry use. Serial No. 460,660; July 20. Class 1.

Strathmore Paper Company, West Springfield, Mass. Writing and printing paper. Serial No. 459,606; July 20. Class 37.

Strong Wood Turning Corporation, Strong, Maine. Wooden tooth picks. Serial No. 457,902; July 20. Class 44.

Sweitz, Henry L., doing business as Dakin Manufacturing Company, Chicago, Ill. Mops. Serial No. 460,886; July 20. Class 29.

Tavannes Watch Co. Inc., New York, N. Y. Watches and watch movements. Serial No. 459,501 July 20. Class 27.

Torstenson Glass Co., Chicago, Ill. Flat glass, table and cooking glassware, etc. Serial No. 458,925; July 20. Class 33.

Turnbull, Frederick M., Los Angeles, Calif. Medicated surgical dressing for burns, wounds, abrasions, etc. Serial No. 459,819; July 20. Class 6.

Vega Aircraft Corporation, Burbank, Calif. Airplanes and structural parts. Serial No. 455,810; July 20. Class 19.

Vita-Min-Go, Inc., New York, N. Y. Printed game rules and printed data on vitamins. Serial No. 452,549; July 20. Class 38.

Volker, William, & Company of Missouri, Inc., Kansas City, Mo. Venetian blinds. Serial No. 456,782; July 20. Class 32.

Wallace & Tiernan Products Incorporated, Belleville, N. J. Germicidal compositions. Serial No. 454,788; July 20. Class 6.

War Stopper Co., San Francisco, Calif. Bottle corks. Serial No. 460,078; July 20. Class 50.

Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electronic apparatus. Serial No. 459,697; July 20. Class 21.

Whaites, J. I., Phoenix, Ariz. Fresh vegetables. Serial No. 458,298; July 20. Class 46.

Whellan, Anna, New York, N. Y. Junior coats and dresses. Serial No. 460,973; July 20. Class 39.

Whellkin Coat Company, Inc., New York, N. Y. Suits, coats, and sport coats. Serial No. 460,975; July 20. Class 39.

Wolf, William, doing business as Royal Esquire Distributors, Newark, N. J. Soap, shoe-shining outfits. Serial No. 459,774; July 20. Class 4.

LIST OF REGISTRANTS OF TRADE-MARKS

Aeronca Aircraft Corporation, Middletown, Ohio. Airplanes. 402,410; July 20; Serial No. 457,669; published Mar. 23, 1943. Class 19.

Aeroquip Corporation, The, Jackson, Mich. Hose fittings and pipe couplings. 402,388; July 20; Serial No. 439,741; published May 11, 1943. Class 13.

Alling & Cory Company, The, Rochester, N. Y. Ledger paper. 402,401; July 20; Serial No. 455,945; published May 11, 1943. Class 37.

Altone Chemical Co. (See Karno, Hyman.)

American Chain Company, Inc., New York, N. Y., and Bridgeport, by change of name to American Chain & Cable Company, Inc., Bridgeport, Conn. Antiskid chains for vehicle wheels. 174,342; renewed Oct. 16, 1943.

American Chain & Cable Company, Inc. (See American Chain Company, Inc.)

American Hominy Company, Chicago, Ill., assignor, by mesne assignments, to Knefler-Bates Company, Indianapolis, Ind. Hominy. 176,574; renewed Nov. 27, 1943.

American-La France-Foamite Corporation. (See Foamite-Childs Corporation, assignor.)

American Lecithin Company, Cleveland, Ohio. Lecithin products. 402,396; July 20; Serial No. 453,149; published May 11, 1943. Class 46.

Anco Corporation, Pittsburgh, Pa. Glass fruit jars. 402,413; July 20; Serial No. 458,143; published May 11, 1943. Class 33.

Bahnson Company, The, Winston-Salem, N. C. Atomizers. 402,419; July 20; Serial No. 458,383; published May 11, 1943. Class 13.

Billings & Spencer Company, The, Hartford, Conn. Chains and hoist hooks. 402,398; July 20; Serial No. 454,795; published May 11, 1943. Class 13.

Blackman, Julius, Corporation, New York, N. Y. Medicines and pharmaceutical preparations. 402,450; July 20. Class 6.

Bradford Dyers' Association, Limited, Bradford, England. Piece goods. 175,049; renewed Oct. 30, 1943.

Brennan, William T., doing business as the Miner's Medicine Company, Beckley, W. Va., and Columbus, Ohio. Liquid herb laxative. 402,438; July 20; Serial No. 458,997; published May 11, 1943. Class 6.

Burton-Dixie Corporation, Chicago, Ill. Stuffing and padding. 402,391; July 20; Serial No. 445,835; published May 11, 1943. Class 32.

Cashmere Fruit Growers Union, Cashmere, Wash. Fresh apples. 176,535; renewed Nov. 27, 1943.

Canepa, John B., Company, The, Chicago, Ill. Noodles and cut and twisted alimentary paste products. 168,574; renewed May 29, 1943.

Cantol Wax Company, Bloomington, Ind. Belt dressing, belt preservative and belt treatment composition in liquid and solid form. 402,441; July 20; Serial No. 459,069; published May 11, 1943. Class 4.

Cartwright, W. B., Limited, Rawdon, near Leeds, England. Compressed tablets and lozenges and pastilles, being sweets. 402,443; July 20; Serial No. 459,160; published May 11, 1943. Class 46.

Central Indiana Coal Co., to Central Indiana Coal Company, Inc., Indianapolis, Ind., successor. Coal. 173,306; renewed Sept. 18, 1943.

Central Wisconsin Canneries, Beaver Dam, Wis. Canned peas. 172,873; renewed Sept. 11, 1943.

Commercial Solvents Corporation, New York, N. Y. Chemical compositions. 402,399; July 20; Serial No. 455,174; published Mar. 9, 1943. Class 6.

Coolerator Company, The, Duluth, Minn. Metallic tool chests and boxes, tote boxes, stack bins, etc. 402,421; July 20; Serial No. 458,529; published May 11, 1943. Class 2.

Corn Products Refining Company, New York, N. Y. Extract from corn gluten for the manufacture of plastics, adhesives, and varnishes. 402,418; July 20; Serial No. 458,312; published May 11, 1943. Class 1.

Crofut & Knapp Co., The, South Norwalk, assignor, by mesne assignments, to Hat Corporation of America, Norwalk, Conn. Caps and hats for men and women. 176,014; renewed Nov. 13, 1943.

Crofut & Knapp Co., South Norwalk, assignor, by mesne assignments, to Hat Corporation of America, Norwalk, Conn. Caps and hats for men and women. 176,268; renewed Nov. 20, 1943.

Cunningham Chemical Laboratories, Inc., New York, N. Y. Fire-extinguishing compound. 402,444; July 20; Serial No. 459,193; published May 11, 1943. Class 6.

Cunningham, Elmer T., San Francisco, Calif., by merger to Radio Corporation of America, New York, N. Y. Thermionic detector, amplifier, and oscillator tubes. 174,432; renewed Oct. 16, 1943.

Curtiss-Wright Corporation, New York and Buffalo, N. Y., Columbus, Ohio, and St. Louis, Mo. Airplanes and structural parts thereof. 402,404; July 20; Serial No. 456,463; published May 11, 1943. Class 19.

Davidson Manufacturing Corporation, Chicago, Ill. Opaque, a graphitic material in the nature of an ink. 402,389; July 20; Serial No. 440,449; published May 4, 1943. Class 11.

Dayton Rubber Manufacturing Company, The, Dayton, Ohio. Treated textile cord. 402,402; July 20; Serial No. 456,238; published May 11, 1943. Class 7.

De Forest Radio Telephone and Telegraph Company, Jersey City, N. J., assignor to Radio Corporation of America, New York, N. Y. Radio telephone and telegraph apparatus and supplies. 174,446; renewed Oct. 16, 1943.

Domestic Manufacturing Company, Inc., Los Angeles, Calif. Thermostatic gas and electric devices. 402,451; July 20. Class 26.

Drabek, Charles, doing business as Painters Supply Co., assignor to The S. C. Wagenman Paint Stores Company, Cleveland, Ohio. Ready-mixed paints, varnishes, paint enamels. 174,377; renewed Oct. 16, 1943.

Drabek, Charles, doing business as Painters Supply Co., assignor to The S. C. Wagenman Paint Stores Company, Cleveland, Ohio. Ready-mixed paints, varnishes, paint enamels, etc. 175,956; renewed Nov. 13, 1943.

Drabek, Charles, doing business as Painters Supply Co., assignor to The S. C. Wagenman Paint Stores Company, Cleveland, Ohio. Ready-mixed paints and paint enamels. 176,060; renewed Nov. 13, 1943.

Dritz-Traum Company, Inc., New York, N. Y. Coated fabric swatches and tape rendered adhesive by heat. 402,415; July 20; Serial No. 458,236; published May 11, 1943. Class 5.

Dunlop Milling Co., Clarksville, Tenn., assignor to Dunlop Milling Company, Inc., New York, N. Y. Wheat flour. 172,936; renewed Sept. 11, 1943.

Dussek Brothers & Company Limited, Crayford, England. Glazing putty. 402,407; July 20; Serial No. 457,331; published Apr. 27, 1943. Class 16.

Eastern Foundry Company, The, Boyerstown, Pa. Plumbers' supplies. 176,579; renewed Nov. 27, 1943.

Eisenstadt Manufacturing Company, St. Louis, Mo. Bracelets, wristlets, neck chains, etc. 174,889; renewed Oct. 23, 1943.

Ely & Walker Dry Goods Company, St. Louis, Mo. Knitted coats. 176,275; renewed Nov. 20, 1943.

Emergency Products, Limited, London, England. Chemical combination in tablet form for use as a fuel. 402,423; July 20; Serial No. 458,609; published May 11, 1943. Class 6.

Evansville Packing Company, Evansville, Ind., assignor, by mesne assignments, to Swift and Company, Chicago, Ill. Dressed poultry and lard. 171,429; renewed Aug. 7, 1943.

Farbenfabriken, vormals Fr. Bayer & Co., Elberfeld, Germany, to Winthrop Chemical Company, Inc., New York, N. Y., by merger. Pharmaceutical or dietetical compounds. 23,823; re-renewed Nov. 14, 1943.

Faultless Caster Corporation, Evansville, Ind. Caster wheels. 402,403; July 20; Serial No. 456,384; published Feb. 9, 1943. Class 13.

Filtrol Corporation, Los Angeles, Calif. Chemically-treated montmorillonite clay. 402,433; July 20; Serial No. 458,936; published May 11, 1943. Class 6.

Florida Citrus Oil Company, Lake Alfred, Fla. Citrus fruit oils. 402,453; July 20. Class 46.

Foamite-Childs Corporation, Utica, assignor, by mesne assignments, to American-La France-Foamite corporation, Elmira, N. Y. Hand-operated, portable, and stationary fire-extinguishing apparatus. 174,078; renewed Oct. 2, 1943.

Foamite-Childs Corporation, Wilmington, Del., and Utica, assignor, by mesne assignments, to American-La France-Foamite Corporation, Elmira, N. Y. Hand-operated portable and stationary fire extinguishing apparatus. 175,059; renewed Oct. 30, 1943.

Frazar & Company, San Francisco, Calif., to Frazar & Company, New York, N. Y. Canned fruits and vegetables. 176,718; renewed Nov. 27, 1943.

Friedland, Peter R., doing business as The Peter R. Friedland Co., New York, N. Y. Lipsticks. 402,431; July 20; Serial No. 458,916; published May 11, 1943. Class 6.

Garrison, Harry B., doing business as The Silvodent Co., Portland, Oreg. Foundation and pulp protector. 176,427; renewed Nov. 27, 1943.

Gedney, M. A., Company, Minneapolis, Minn. Vinegar. 175,940; renewed Nov. 13, 1943.

Gem Products, Inc., Milwaukee, Wis. Mops and dusters. 402,422; July 20; Serial No. 458,535; published May 11, 1943. Class 29.

General Foods Corporation. (See Postum Cereal Company, Incorporated, assignor.)

Gerard Milk Products Co. (See Obrecht, G. F.)

Gold Buckle Association, East Highlands, Calif. Citrous fruits. 176,497–8; renewed Nov. 27, 1943.

Grove Laboratories, Inc., The, Wilmington, Del., and St. Louis, Mo. Vitamin capsules. 402,445; July 20; Serial No. 459,197; published May 11, 1943. Class 6.

Hat Corporation of America. (See Crofut & Knapp Co., The, assignor.)

Heggblade-Margueleas Company, San Francisco, Calif. Fresh fruits. 402,452; July 20. Class 46.

Hipp, Didisheim Company, Inc., New York, N. Y., assignor, by mesne assignments, to Sears, Roebuck and Co., Chicago, Ill. Watches, watch movements, and parts of the same. 169,953; renewed July 10, 1943.

Hollins, William, & Co. Ltd., London and Mansfield, to William Hollins Company, Limited, Nottingham, England. Negligee shirts, dressing gowns, knitted underwear, and children's dresses, etc. 176,623; renewed Nov. 27, 1943.

Holmes, John W., doing business as Wilmer Products, Carnegie, Pa. Antiseptic home cleaning compound in powder form for general use. 402,414; July 20; Serial No. 458,175; published Apr. 27, 1943. Class 4.

Hygienol Company, Inc., New Rochelle, N. Y. Powder puffs. 402,439; July 20; Serial No. 459,007; published May 11, 1943. Class 29.

Igleheart Brothers, Incorporated. (See Phoenix Flour Mill, assignor.)

International Shoe Company. (See Plant, Thomas G., Company, assignor.)

Iowa Packing Co., Des Moines, Iowa, assignor, by mesne assignments, to Swift and Company, Chicago, Ill. Smoked meats, dried beef, sausage, etc. 172,461; renewed Aug. 28, 1943.

Johnson & Sons, Manufacturing Chemists, Limited. (See Johnson & Sons.)

Johnson & Sons, New York, N. Y., and London, to Johnson & Sons, Manufacturing Chemists, Limited, London, England. Photographic developer. 175,433–4; renewed Nov. 6, 1943.

Jordeau, Jean, Inc., South Orange, N. J., and New York, N. Y., to Jean Jordeau, Inc., South Orange, N. J. Perspiration deodorant. 175,011; renewed Oct. 30, 1943.

Kahn's, E., Sons, Company, The, Cincinnati, Ohio. Lard. 176,638; renewed Nov. 27. 1943.

Kahn's, E., Sons Company, The, Cincinnati, Ohio. Tankage. 176,745; renewed Nov. 27, 1943.

Karno, Hyman, doing business as Altone Chemical Co., New Orleans, La. Cough syrup. 402,447; July 20; Serial No. 459,243; published May 11, 1943. Class 6.

Keokuk Canning Company, Keokuk, Iowa. Canned tomatoes and preserved pickles. 176,611; renewed Nov. 27, 1943.

Kieley & Mueller, Inc., New York, N. Y., to Kieley & Mueller, Inc., North Bergen, N. J. Valves, traps, and regulators. 176,551; renewed Nov. 27, 1943.

Klein, L., Inc., Chicago, Ill. Men's hats and men's dress, negligee, and work shirts. 176,127; renewed Nov. 20, 1943.

Knefler-Bates Company. (See American Hominy Company, asisgnor.)

Kops Bros. assignor to Kops Bros., Inc., New York, N. Y. Corsets, brassieres, corset covers, etc. 170,946; renewed July 24, 1943.

Lever Brothers Company, Cambridge, Mass. Vitamin tablets. 402,393; July 20; Serial No. 449,233; published Feb. 17, 1942. Class 6.

Loft Candy Corporation. (See Loft, Inc., assignor.)

Loft, Inc., New York, assignor to Loft Candy Corporation, Long Island City, N. Y. Candies. 176,437; renewed Nov. 27, 1943.

Lockport Cotton Batting Co., Lockport, N. Y. Wool and cotton batts or batting. 402,436–7; July 20; Serial Nos. 458,986–7; published May 11, 1943. Class 1.

Lockwood, Lawrence A., doing business as Lockwood Products, Chicago, Ill. Insulated containers. 402,400; July 20; Serial No. 455,659; published May 11, 1943. Class 2.

Lockwood Products Company. (See Lockwood, Lawrence A.)

Macalster Bicknell Company, Cambridge, Mass. Laboratory, experimental, hospital glassware, etc. 402,424; July 20; Serial No. 458,633; published May 11, 1943. Class 26.

Marathon Paper Mills Company, Menasha, Wis. Paper for interleaving or lining trays. 402,425; July 20; Serial No. 458,689; published May 11, 1943. Class 37.

Marshall Field & Company, Chicago, Ill. Bimonthly magazine. 171,744; renewed Aug. 14, 1943.

Marvin, E. W., Company, Troy, N. Y. Nurses' collars, cuffs, etc., patients' bedgowns and ladies' collars and cuffs. 174,796; renewed Oct. 23, 1943.

Midland Laboratories. (See Young, George G.)

Miner's Medicine Company, The. (See Brennan, William T.)

Minot, Hooper & Co., New York, N. Y. Cotton drilling in the piece. 174,801; renewed Oct. 23, 1943.

Moore, Benjamin, & Co., Jersey City, N. J., and Brooklyn, N. Y., to Benjamin Moore & Co., Flemington, N. J., and New York, N. Y. Ready-mixed paints. 176,047; renewed Nov. 13, 1943.

Moore, Benjamin, & Co., Jersey City, N. J., and Brooklyn, N. Y., to Benjamin Moore & Co., Flemington, N. J., and New York, N. Y. Varnish. 174,227; renewed Oct. 9, 1943.

Moran, Ralph Victor, doing business as Vic Moran, Bradford, Pa. Toy coin banks. 402,429–30; July 20; Serial Nos. 458,845–6; published May 11, 1943. Class 22.

Mothtone Company, The, Needham, Mass. Moth-proofing materials. 402,446; July 20; Serial No. 459,226; published May 11, 1943. Class 6.

North British Rubber Company, Limited, Edinburgh, Scotland, and London, England, to The North British Rubber Company, Limited, Edinburgh, Scotland. Rubber-soled canvas shoes. 23,666; re-renewed Oct. 3, 1943.

Northwestern Yeast Company, Chicago, Ill. Yeast and vitamin food products which involve the use of yeast. 176,509; renewed Nov. 27, 1943.

Novocol Chemical Mfg. Co. Inc., Brooklyn, N. Y. Solution of suprarenal extract. 176,165; renewed Nov. 20, 1943.

Nu-Di Products Company, The, Cleveland, Ohio. Liquid cleaner, polishes and a dye and dressing preparation for suede, fabric, and leather articles. 402,409; July 20; Serial No. 457,611; published May 4, 1943. Class 4.

Obrecht, G. Fred, doing business as Gerard Milk Products Company, Baltimore, Md. Poultry feed. 402,392; July 20; Serial No. 446,175; published May 12, 1942. Class 46.

O'Hearn Manufacturing Company, Gardner, Mass. Chairs, sofas, stools, dressers, etc. 402,454; July 20. Class 32.

Osyth Laboratories. (See Shrieves, Edna.)

Pacific Lumber Company, The, San Francisco, Calif. Mattresses, pillows and upholstery padding. 402,408; July 20; Serial No. 457,421; published May 11, 1943. Class 32.

Painters Supply Co. (See Drabek, Charles.)

Paraffine Companies, Inc., The, San Francisco, Calif. Paint, Flat undercoat. 176,544–5; renewed Nov. 27, 1943.

Phillips, Charles H., Chemical Co., The, Glenbrook, Conn., and New York, N. Y., assignor to Sterling Drug Inc., Wilmington, Del. Cocoa and chocolate. 176,613; renewed Nov. 27, 1943.

Phillips, Charles H., Chemical, Co., Glenbrook, Conn., and New York, N. Y., assignor to Sterling Drug Inc., Wilmington, Del. Preparations of magnesia, preparations of cod-liver oil and tonic medicines. 176,216–7; renewed Nov. 20, 1943.

Phoenix Flour Mill, Evansville, Ind., assignor to Igleheart Brothers, Incorporated, New York, N. Y. Wheat flour. 176,451; renewed Nov. 27, 1943.

Pillsbury Flour Mills Company, Minneapolis, Minn. Rye flour and wheat flour mixture. 402,416; July 20; Serial No. 458,247; published May 11, 1943. Class 46.

Pitman-Dreitzer and Co., Inc., New York, N. Y. Glass tableware. 402,427; July 20; Serial No. 458,740; published May 11, 1943. Class 33.

Plant, Thomas G., Company, Boston, Mass., assignor, by mesne assignments, to International Shoe Company, St. Louis, Mo. Hosiery. 176,660; renewed Nov. 27, 1943.

Plibrico Jointless Firebrick Company, Chicago, Ill. Dry aggregate. 402,456; July 20. Class 12.

Postum Cereal Company, Incorporated, New York, N. Y., and Battle Creek, Mich., assignor, by mesne assignments, to General Foods Corporation. New York, N. Y. Cereal breakfast foods. 172,234; renewed Aug. 28, 1943.

Quaker Lace Company, Philadelphia, Pa. Lace curtains and nets. 175,020; renewed October 30, 1943.

Quaker Oats Company, The, Chicago, Ill. Poultry feed. 176,488; renewed Nov. 27, 1943.

Quaker Oats Company, The, Chicago, Ill. Wheat flour. 176,614; renewed Nov. 27, 1943.

Quaker Oats Company, The, Chicago, Ill. Stock feeds. 176,736; renewed Nov. 27, 1943.

Quaker Oats Company, The, Chicago, Ill. Wheat flour and stock feeds. 176,737; renewed Nov. 23, 1943.

Radio Corporation of America. (See Cunningham, Elmer T.)

Radio Corporation of America. (See De Forest Radio Telephone and Telegraph Company, assignor.)

Ralston Purina Company, St. Louis, Mo. Poultry feed. 172,437; renewed Aug. 28, 1943.

Reproduction Company, The, Chicago, Ill. Directory plaques. 402,457; June 20. Class 50.

Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. Cigarette paper. 174,501; renewed Oct. 16, 1943.

S & F Company, Hartford, Conn. Clothespin bags. 402,411; July 20; Serial No. 457,688; published May 11, 1943. Class 2.

St. Pierre Chain Corporation, Worcester, Mass. Chains and chain links. 402,455; July 20. Class 13.

Scott and Turner, Limited, Newcastle-on-Tyne, England. Medicated preparation for human use for liver ailments. 174,944; renewed Oct. 30, 1943.

Sears, Roebuck and Co. (See Hipp, Didisheim Company, assignor.)

Sewall & Son, Inc., Auburn, Maine. Strips of composite material from which insoles may be cut. 402,458; July 20. Class 50.

Sherwood Petroleum Company, Inc., Brooklyn, N. Y., assignor to Sherwood Refining Company, Inc., Englewood, N. J. Medicinal petroleum products. 176,315; renewed Nov. 20, 1943.

Sherwood Refining Company, Inc. (See Sherwood Petroleum Company, Inc., assignor.

Shrieves, Edna, doing business as Osyth Laboratories, New York, N. Y. Salve. 402,442; July 20; Serial No. 459,090; published May 11, 1943. Class 6.

Siegel, A., & Sons, Inc., New York, N. Y. Cigars. 402,459; July 20. Class 17.

Silvodent Co., The. (See Garrison, Harry B.)

Smith Oil & Refining Company, Rockford, Ill. Cutting oil. 174,231; renewed Oct. 9, 1943.

Smith Oil & Refining Company, Rockford, Ill. Cleaner and polish. 175,127; renewed Oct. 20, 1943.

Spaulding-Moss Company, Boston, Mass. Drawing, drafting and surveyors' instruments and accessories and machines. 176,465; renewed Nov. 27, 1943.

Springfield Coated Paper Corporation, Camden, N. J. Paper. 402,395; July 20; Serial No. 452,029; published May 11, 1943. Class 37.

Squibb, E. R., & Sons, New York, N. Y. Vitaminic preparations. 402,432; July 20; Serial No. 458,924; published May 11, 1943. Class 6.

Standard Oil Company (New Jersey), Bayonne, N. J., assignor to Standard Oil Company of New Jersey, Wilmington, Del. Oils made from petroleum. 176,408; renewed Nov. 27, 1943.

Stearns, Frederick, & Company, Detroit, Mich. Nutritive substance. 402,449; July 20; Serial No. 459,277; published May 11, 1943. Class 6.

Sterling Drug Inc. (See Phillips, Charles H., Chemical Co., The, assignor.)

Swift and Company. (See Evansville Packing Company, The, assignor.)

Swift and Company. (See Iowa Packing Co., assignor.)

Swift and Company, Chicago, Ill. Butter, cheese, eggs, and sausage. 170,926; renewed July 24, 1943.

Ubiko Milling Company, The, Cincinnati, to The Ubiko Milling Company, St. Bernard, Ohio. Stock feed. 176,640; renewed Nov. 27, 1943.

Ulmann, Bernhard, Co. Inc., New York, N. Y. Art needlework yarns. 402,460; July 20. Class 43.

Union Bag & Paper Corporation, New York, N. Y. Wrapping paper. 402,434; July 20; Serial No. 458,954; published May 11, 1943. Class 37.

United Autographic Register Co., Chicago, Ill. Strips of zigzag folded printed continuous blank forms. 402,420; July 20; Serial No. 458,501; published May 11, 1943. Class 37.

United States Bronze Powder Works, Inc., New York, N. Y. Bronze powders and bronzing liquid. 171,408; renewed Aug. 7, 1943.

United States Bronze Powder Works, Inc., New York, N. Y. Bronze powders, bronzing liquid. 174,489; renewed Oct. 16, 1943.

United States Gypsum Company, Chicago, Ill. Asphalt roofing shingles. 402,390; July 20; Serial No. 442,377; published May 11, 1943. Class 12.

United States Gypsum Company, Chicago, Ill. Insulation board. 402,428; July 20; Serial No. 458,824; published May 11, 1943. Class 12.

United States Rubber Company, New York, N. Y. Duct hose comprising a fabric base treated with a sealing material. 402,412; July 20; Serial No. 458,085; published May 11, 1943. Class 35.

U. S. Slicing Machine Company, La Porte, Ind. Cut fresh meats, steaks, and small irregular cuts of meats. 402,394; July 20; Serial No. 451,328; published May 11, 1943. Class 46.

Universal Wheel & Abrasive Corp., Chicago, Ill. Abrasive wheels. 402,435; July 20; Serial No. 458,976; published Apr. 27, 1943. Class 4.

Universal Zonolite Insulation Co., Chicago, Ill. Paint pigment. 402,405; July 20; Serial No. 456,679; published Apr. 27, 1943. Class 16.

Vanderbilt, R. T., Company, Inc., New York, N. Y. Nutritive food supplement. 402,406; July 20; Serial No. 457,291; published May 11, 1943. Class 46.

Veep Company, Inc., The, Hanover, N. H. Board games. 402,448; July 20; Serial No. 459,248; published May 11, 1943. Class 22.

VegaRinse Company, The. (See Washburn, Ray A.)

Vogt, F. G., & Sons, Inc., Philadelphia, Pa. Lard. 175,790; renewed Nov. 13, 1943.

Wagenman, S. C., The. (See Drabek, Charles, assignor.)

Ward Baking Company, New York, N. Y. Bread. 176,492; renewed Nov. 27, 1943.

Washburn, Ray A., doing business as The VegaRinse Company, Chicago, Ill. Comminuted chemical composition to be dissolved in water for washing fruits and vegetables. 402,426; July 20; Serial No. 458,696; published May 4, 1943. Class 4.

Wellman Bronze & Aluminum Company, The, Cleveland, Ohio. Raw, unfinished, and partly finished castings. 402,461; July 20. Class 14.

Western Auto Supply Company, Kansas City, Mo. Suit cases, overnight cases, vanity cases, etc. 402,397; July 20; Serial No. 454,353; published May 11, 1943. Class 3.

Western Grain Company, Birmingham, Ala. Corn meal, corn grits, horse feed, etc. 176,763; renewed Nov. 27, 1943.

Whitlock Cordage Co., Jersey City, N. J., and New York, N. Y. Manila rope. 173,647; renewed Oct. 2, 1943.

Williams, D. T., Valve Company, The, Cincinnati, Ohio. Valves, check valves, stop valves, etc. 168,945–6; renewed May 29, 1943.

Wilmer Products. (See Holmes, John W.)

Winthrop Chemical Company, Inc. (See Farbenfabriken, vormals Fr. Bayer & Co.)

Witmark, M., & Sons, New York, N. Y. Sheet music. 173,720; renewed Oct. 2, 1943.

Young, George G., doing business as Midland Laboratories, Kansas City, Mo. Egg emulsifier, mineral and organic salts and dextrose. 402,440; July 20; Serial No. 459,035; published May 11, 1943. Class 46.

Zaninovich, George, doing business as Zaninovich Bros., Dinuba, Calif. Fresh citrus fruits. 402,417; July 20; Serial No. 458,299; published May 11, 1943. Class 46.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Coal. Central Indiana Coal Co. 173,306; renewed Sept. 18, 1943.

Extract from corn gluten for the manufacture of plastics, adhesives, and varnishes. Corn Products Refining Company. 402,418; July 20; Serial No. 458,312; published May 11, 1943.

Wool and cotton batts or batting. Lockport Cotton Batting Co. 402,436; July 20; Serial Nos. 458,986–7; published May 11, 1943.

CLASS 2

Bags, Clothespin. S & F Company. 402,411; July 20; Serial No. 457,688; published May 11, 1943.

Chests and boxes, tote boxes, stack bins, etc., Metallic tool. Coolerator Company. 402,421; July 20; Serial No. 458,529; published May 11, 1943.

Containers, Insulated. L. A. Lockwood. 402,400; July 20; Serial No. 455,659; published May 11, 1943.

CLASS 3

Cases, overnight cases, vanity cases, etc., Suit. Western Auto Supply Company. 402,397; July 20; Serial No. 454,353; published May 11, 1943.

CLASS 4

Abrasive wheels. Universal Wheel & Abrasive Corp. 402,435; July 20; Serial No. 458,976; published Apr. 27, 1943.

Chemical composition to be dissolved in water for washing fruits and vegetables, Comminuted. R. A. Washburn. 402,426; July 20; Serial No. 458,696; published May 4, 1943.

Cleaner, polishes, and a dye and dressing preparation for suede, fabric, and leather articles. Nu-Di Products Company. 402,409; July 20; Serial No. 457,611; published May 4, 1943.

Cleaning compound in powder form for general use, Antiseptic home. J. W. Holmes. 402,414; July 20; Serial No. 458,175; published Apr. 27, 1943.

Dressing, belt preservative and belt treatment composition in liquid and solid form, Belt. Cantol Wax Company. 402,441; July 20; Serial No. 459,069; published May 11, 1943.

CLASS 5

Swatches and tape rendered adhesive by heat, Coated fabric. Dritz-Traum Company. 402,415; July 20; Serial No. 458,236; published May 11, 1943.

CLASS 6

Capsules, Vitamin. Grove Laboratories, Inc. 402,445; July 20; Serial No. 459,197; published May 11, 1943.

Chemical combination in tablet form for use as a fuel. Emergency Products, Limited. 402,423; July 20; Serial No. 458,609; published May 11, 1943.

Chemical compositions. Commercial Solvents Corporation. 402,399; July 20; Serial No. 455,174; published Mar. 9, 1943.

Chemically-treated montmorillonite clay. Filtrol Corporation. 402,433; July 20; Serial No. 458,936; published May 11, 1943.

Compound, Fire-extinguishing. Cunningham Chemical Laboratories. 402,444; July 20; Serial No. 459,193; published May 11, 1943.

Deodorant, Perspiration. Jean Jordeau, Inc. 175,011; renewed Oct. 30, 1943.

Developer, Photographic. Johnson & Sons. 175,433–4; renewed Nov. 6, 1943.

Laxative, Liquid herb. W. T. Brennan. 402,438; July 20; Serial No. 458,997; published May 11, 1943.

Lipsticks. P. R. Friedland. 402,431; July 20; Serial No. 458,916; published May 11, 1943.

Medicated preparation for human use for liver ailments. Scott and Turner, Limited. 174,944; renewed Oct. 30, 1943.

Medicinal petroleum products. Sherwood Petroleum Company. 176,315; renewed Nov. 20, 1943.

Medicines and pharmaceutical preparations. Julius Blackman Corporation. 402,450; July 20.

Moth-proofing materials. Mothtone Company. 402,446; July 20; Serial No. 459,226; published May 11, 1943.

Nutritive substance. Frederick Stearns & Company. 402,449; July 20; Serial No. 459,277; published May 11, 1943.

Pharmaceutical or dietetical compounds. Farbenfabriken, vormals Fr. Bayer & Co. 23,823; re-renewed Nov. 14, 1943.

Preparations of magnesia, preparations of cod-liver oil, and tonic medicines. Charles H. Phillips Chemical Co. 176,216–17; renewed Nov. 20, 1943.

Salve. E. Shrieves. 402,442; July 20; Serial No. 459,090; published May 11, 1943.

Solution of suprarenal extract. Novocol Chemical Mfg. Co. Inc. 176,165; renewed Nov. 20, 1943.

Syrup, Cough. H. Karno. 402,447; July 20; Serial No. 459,243; published May 11, 1943.

Vitamin tablets. Lever Brothers Company. 402,393; July 20; Serial No. 449,233; published Feb. 17, 1942.

Vitaminic preparations. E. R. Squibb & Sons. 402,432; July 20; Serial No. 458,924; published May 11, 1943.

CLASS 7

Cord, Treated textile. Dayton Rubber Manufacturing Company. 402,402; July 20; Serial No. 456,238; published May 11, 1943.

Rope, Manila. Whitlock Cordage Co. 173,647; renewed Oct. 2, 1943.

CLASS 8

Cigarette paper. R. J. Reynolds Tobacco Company. 174,501; renewed Oct. 16, 1943.

CLASS 11

Material in the nature of an ink, Opaque, a graphitic. Davidson Manufacturing Corporation. 402,389; July 20; Serial No. 440,449; published May 4, 1943.

CLASS 12

Aggregate, Dry. Plibrico Jointless Firebrick Company. 402,456; July 20.

Insulation board. United States Gypsum Company. 402,428; July 20; Serial No. 458,824; published May 11, 1943.

Shingles, Asphalt roofing. United States Gypsum Company. 402,390; July 20; Serial No. 442,377; published May 11, 1943.

CLASS 13

Atomizers. Bannson Company. 402,419; July 20; Serial No. 458,383; published May 11, 1943.

Chains and chain links. St. Pierre Chain Corporation. 402,455; July 20.

Chains and hoist hooks. Billings & Spencer Company. 402,398; July 20; Serial No. 454,795; published May 11, 1943.

Chains for vehicle wheels, Anti-skid. American Chain Company. 174,342; renewed Oct. 16, 1943.

Hose fittings and pipe couplings. Aeroquip Corporation. 402,388; July 20; Serial No. 439,741; published May 11, 1943.

Plumbers' supplies. Eastern Foundry Company. 176,579; renewed Nov. 27, 1943.

Valves, check valves, stop valves, etc. D. T. Williams Valve Company. 168,945–6; renewed May 29, 1943.

Valves, traps, and regulators. Kieley & Mueller, Inc. 176,551; renewed Nov. 27, 1943.

Wheels, Caster. Faultless Caster Corporation. 402,403; July 20; Serial No. 456,384; published Feb. 9, 1943.

CLASS 14

Castings, Raw, unfinished, and partly finished. Wellman Bronze & Aluminum Company. 402,461; July 20.

CLASS 15

Oil, Cutting. Smith Oil & Refining Company. 174,231; renewed Oct. 9, 1943.

Oils made from petroleum. Standard Oil Company (New Jersey). 176,408; renewed Nov. 27, 1943.

CLASS 16

Bronze powders and bronzing liquid. United States Bronze Powder Works, Inc. 171,408; renewed Aug. 7, 1943.

Cleaner and polish. Smith Oil & Refining Company. 175,127; renewed Oct. 30, 1943.

Flat undercoat paint. Paraffine Companies, Inc. 176,544–5; renewed Nov. 27, 1943.

Paint pigment. Universal Zonolite Insulation Co. 402,405; July 20; Serial No. 456,679; published Apr. 27, 1943.

Paints, and paint enamels, Ready-mixed. C. Drabek. 176,060; renewed Nov. 13, 1943.

Paints, Ready-mixed. Benjamin Moore & Co. 176,047; renewed Nov. 13, 1943.

Paints, varnishes, paint enamels, etc., Ready-mixed. C. Drabek. 175,956; renewed Nov. 13, 1943.

Paints, varnishes, paint enamels, Ready-mixed. C. Drabek. 174,377; renewed Oct. 16, 1943.

Powders, bronzing liquid, Bronze. United States Bronze Powder Works, Inc. 174,489; renewed Oct. 16, 1943.

Putty, Glazing. Dussek Brothers & Company Limited. 402,407; July 20; Serial No. 457,331; published Apr. 27, 1943.

Varnish. Benjamin Moore & Co. 174,227; renewed Oct. 9, 1943.

CLASS 17

Cigars. A. Siegel & Sons, Inc. 402,459; July 20.

CLASS 19

Airplanes. Aerohca Aircraft Corporation. 402,410; July 20; Serial No. 457,669; published Mar. 23, 1943.
Airplanes and structural parts thereof. Curtiss-Wright Corporation. 402,404; July 20; Serial No. 456,463; published May 11, 1943.

CLASS 21

Detector, amplifier and oscillator tubes, Thermionic. E. T. Cunningham. 174,432; renewed Oct. 16, 1943.
Radio telephone and telegraph apparatus and supplies. De Forest Radio Telephone and Telegraph Company. 174,446; renewed Oct. 16, 1943.

CLASS 22

Games, Board. Veep Company. 402,448; July 20; Serial No. 459,248; published May 11, 1943.
Toy coin banks. R. V. Moran. 402,429–30; July 20; Serial Nos. 458,845–6; published May 11, 1943.

CLASS 23

Fire-extinguishing apparatus, Hand-operated, portable, and stationary. Foamite-Childs Corporation. 174,078; renewed Oct. 2, 1943.
Fire extinguishing apparatus, Hand-operated, portable, and stationary. Foamite-Childs Corporation. 175,059; renewed Oct. 30, 1943.

CLASS 26

Drawing, drafting and surveyors' instruments and accessories, and machines. Spaulding-Moss Company. 176,465; renewed Nov. 27, 1943.
Gas and electric devices, Thermostatic. Domestic Manufacturing Company. 402,451; July 20.
Glassware, Laboratory, experimental, hospital, clinical, etc. Macalaster Bicknell Company. 402,424; July 20; Serial No. 458,633; published May 11, 1943.

CLASS 27

Watches, watch movements, and parts of the same. Hipp, Didisheim Company. 169,953; renewed July 10, 1943.

CLASS 28

Bracelets, wristlets, neck chains, etc. Eisenstadt Manufacturing Company. 174,889; renewed Oct. 23, 1943.

CLASS 29

Mops and dusters. Gem Products, Inc. 402,422; July 20; Serial No. 458,535; published May 11, 1943.
Powder puffs. Hygienol Company. 402,439; July 20; Serial No. 459,007; published May 11, 1943.

CLASS 32

Chairs, sofas, stools, dressers, etc. O'Hearn Manufacturing Company. 402,454; July 20.
Mattresses, pillows, and upholstery padding. Pacific Lumber Company. 402,408; July 20; Serial No. 457,421; published May 11, 1943.
Stuffing and padding. Burton-Dixie Corporation. 402,391; July 20; Serial No. 445,835; published May 11, 1943.

CLASS 33

Glass fruit jars. Anco Corporation. 402,413; July 20; Serial No. 458,143; published May 11, 1943.
Glass tableware. Pitman-Dreitzer and Co. 402,427; July 20; Serial No. 458,740; published May 11, 1943.

CLASS 35

Duct hose comprising a fabric base treated with a sealing material. United States Rubber Company. 402,412; July 20; Serial No. 458,085; published May 11, 1943.

CLASS 37

Forms, Strips of zigzag folded printed continuous blank. United Autographic Register Co. 402,420; July 20; Serial No. 458,501; published May 11, 1943.
Paper. Springfield Coated Paper Corporation. 402,395; July 20; Serial No. 452,029; published May 11, 1943.
Paper for interleaving or lining trays. Marathon Paper Mills Company. 402,425; July 20; Serial No. 458,689; published May 11, 1943.
Paper, Ledger. Alling & Cory Company. 402,401; July 20; Serial No. 455,945; published May 11, 1943.
Paper, Wrapping. Union Bag & Paper Corporation. 402,434; July 20; Serial No. 458,954; published May 11, 1943.

CLASS 38

Magazines, Bi-monthly. Marshall Field & Company. 171,744; renewed Aug. 14, 1943.
Music, Sheet. M. Witmark & Sons. 173,720; renewed Oct. 2, 1943.

CLASS 39

Caps and hats for men and women. Crofut & Knapp Co. 176,014; renewed Nov. 13, 1943.
Caps and hats, etc., for men and women. Crofut & Knapp Co. 176,268; renewed Nov. 20, 1943.
Coats, Knitted. Ely & Walker Dry Goods Company. 176,275; renewed Nov. 20, 1943.
Collars, cuffs, etc., patients' bedgowns and ladies' collars and cuffs, Nurses'. E. W. Marvin Company. 174,796; renewed Oct. 23, 1943.
Corsets, brassières, corset covers, etc. Kops Bros. 170,946; renewed July 24, 1943.
Hats and men's dress, negligee, and work shirts, Men's. L. Klein, Inc. 176,127; renewed Nov. 20, 1943.
Hosiery. Thomas G. Plant Company. 176,660; renewed Nov. 27, 1943.
Shirts, dressing gowns, knitted underwear, and children's dresses, etc., Negligee. W. Hollins & Co. Ltd. 176,623; renewed Nov. 27, 1943.
Shoes, Rubber-soled canvas. North British Rubber Company, Limited. 23,666; re-renewed Oct. 3, 1943.

CLASS 42

Cotton drilling in the piece. Minot-Hooper & Co. 174,801; renewed Oct. 23, 1943.
Curtains and nets or curtain lace in piece goods, Lace. Quaker Lace Company. 175,020; renewed Oct. 30, 1943.
Piece goods. Bradford Dyers' Association, Limited. 175,049; renewed Oct. 30, 1943.

CLASS 43

Yarns, Art needlework. Bernhard Ulmann Co. Inc. 402,460; July 20.

CLASS 44

Foundation and pulp protector. H. B. Garrison. 176,427; renewed Nov. 27, 1943.

CLASS 46

Apples, Fresh. Cashmere Fruit Growers Union. 176,535; renewed Nov. 27, 1943.
Bread. Ward Baking Company. 176,492; renewed Nov. 27, 1943.
Butter, cheese, eggs, and sausage. Swift and Company. 170,926; renewed July 24, 1943.
Cereal breakfast foods. Postum Cereal Company. 172,234; renewed Aug. 28, 1943.
Citrous fruits. Gold Buckle Association. 176,497–8; renewed Nov. 27, 1943.
Cocoa and chocolate. Charles H. Phillips Chemical Co. 176,613; renewed Nov. 27, 1943.
Corn meal, corn grits, horse feed, etc. Western Grain Company. 176,763; renewed Nov. 27, 1943.
Candies. Loft, Inc. 176,437; renewed Nov. 27, 1943.
Canned fruits and vegetables. Frazar & Company. 176,718; renewed Nov. 27, 1943.
Canned peas. Central Wisconsin Canneries. 172,873; renewed Sept. 11, 1943.
Canned tomatoes and preserved pickles. Keokuk Canning Company. 176,611; renewed Nov. 27, 1943.
Egg emulsifier, mineral and organic salts, and dextrose. G. G. Young. 402,440; July 20; Serial No. 459,035; published May 11, 1943.
Feed, Poultry. Ralston Purina Company. 172,437; renewed Aug. 28, 1943.
Feed, Poultry. G. F. Obrecht. 402,392; July 20; Serial No. 446,175; published May 12, 1942.
Feed, Stock. Ubiko Milling Company. 176,640; renewed Nov. 27, 1943.
Feeds, Stock. Quaker Oats Company. 176,736; renewed Nov. 27, 1943.
Flour and stock feeds, Wheat. Quaker Oats Company. 176,737; renewed Nov. 27, 1943.
Flour and wheat flour mixture, Rye. Pillsbury Flour Mills Company. 402,416; July 20; Serial No. 458,247; published May 11, 1943.
Flour, Wheat. Dunlop Milling Co. 172,936; renewed Sept. 11, 1943.
Flour, Wheat. Phoenix Flour Mill. 176,451; renewed Nov. 27, 1943.
Flour, Wheat. Quaker Oats Company. 176,614; renewed Nov. 27, 1943.
Fruits, Fresh. Heggblade-Margueleas Company. 402,452; July 20.
Fruits, Fresh citrus. G. Zaninovich. 402,417; July 20; Serial No. 458,299; published May 11, 1943.
Hominy. American Hominy Company. 176,574; renewed Nov. 27, 1943.
Lard. F. G. Vogt & Sons, Inc. 175,790; renewed Nov. 13, 1943.
Lard. E. Kahn's Sons Company. 176,638; renewed Nov. 27, 1943.
Lecithin products. American Lecithin Company. 402,396; July 20; Serial No. 453,149; published May 11, 1943.
Meats, dried beef, sausage, etc., Smoked. Iowa Packing Co. 172,461; renewed Aug. 28, 1943.
Meats, steaks, and small irregular cuts of meats, Cut fresh. U. S. Slicing Machine Company. 402,394; July 20; Serial No. 451,328; published May 11, 1943.

Noodles and cut and twisted alimentary paste products. J. B. Canepa Company. 168,574; renewed May 29, 1943.
Nutritive food supplement. R. T. Vanderbilt Company. 402,406; July 20; Serial No. 457,291; published May 11, 1943.
Oils, Citrus fruit. Florida Citrus Oil Company. 402,453; July 20.
Poultry and lard, Dressed. Evansville Packing Company. 171,429; renewed Aug. 7, 1943.
Poultry feed. Quaker Oats Company. 176,488; renewed Nov. 27, 1943.
Tablets and lozenges and pastilles, being sweets, Compressed. W. B. Cartwright, Limited. 402,443; July 20; Serial No. 459,160; published May 11, 1943.
Tankage. E. Kahn's Sons Company. 176,745; renewed Nov. 27, 1943.
Vinegar. M. A. Gedney Company. 175,940; renewed Nov. 13, 1943.
Yeast and vitamin food products which involve the use of yeast. Northwestern Yeast Company. 176,509; renewed Nov. 27, 1943.

CLASS 50

Plaques, Directory. Reproduction Company. 402,457; July 20.
Strips of composite material from which insoles may be cut. Sewall & Son, Inc. 402,458; July 20.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 20TH DAY OF JULY, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Cook, Lewis R., and M. T. Goetz, Chicago, Ill., assignors, by mesne assignments, to Teletypesetter Corporation. Keyboard perforator and counter. Re. 22,350; July 20.

Cooper, Roy L., Sheffield, Ill. Airplane package transfer apparatus. Re. 22,351; July 20.

Du Pont, E. I., de Nemours & Company. (See Teeters, Wilber O., assignor.)

Goetz, Maurus T. (See Cook, L. R., and Goetz.)

Teeters, Wilber O., Bergenfield, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Polycarboxylic acids. Re. 22,352; July 20.

Teletypesetter Corporation. (See Cook, L. R., and Goetz, assignors.)

LIST OF DESIGN PATENTEES

Aaronson, Hyman S., Meridan, Conn. Clothes drier. 136,003; July 20.

Allred, Ernest, San Francisco, Calif. Broom holder. 136,004; July 20.

American Products Company, The. (See Flett, Raymond L., assignor.)

Armstrong, Victor C., Short Hills, N. J. Golf club head. 136,005; July 20.

Bannow, Rudolph F., Easton, and M. Wahlstrom, Bridgeport, Conn. Attachable shaping machine or the like. 136,019; July 20.

Barker, Alvin, Cincinnati, Ohio. Greeting card or similar article. 136,006; July 20.

Barnes, James F., trustee. (See Rebholz, Elmer F., assignor.)

Belmonte, John A., and A. E. Shagen, Brooklyn, N. Y. Finger nail protector. 136,030; July 20.

Bloom, Samuel, New York, N. Y. Dress. 136,031; July 20.

Bloom, Samuel, New York, N. Y. Dress. 136,032; July 20.

Boudinot, Eugene S., Des Moines, Iowa. Brooch or similar article. 136,007; July 20.

Brooks, Ernest N., Toronto, Ontario, Canada. Trackway cribbage board. 136,008; July 20.

Brooks, Stephen H., and M. A. Wright, Beverly Hills, Calif. Match book holder. 136,033; July 20.

Cashin, Bonnie, New York, N. Y. Dress. 136,034; July 20.

Cashin, Bonnie, New York, N. Y. Dress. 136,035; July 20.

Cashin, Bonnie, New York, N. Y. Dress. 136,036; July 20.

Coakley, Francis J., London, England. Curler comb. 136,009; July 20.

Comet Model Airplane & Supply Co. (See Horback, Alexander, assignor.)

Dawer, Sigmund, New York, N. Y. Compact or similar article. 136,010; July 20.

Doty, Boyd A., assignor to Hard Manufacturing Company, Buffalo, N. Y. Baby's bassinet and toilet stand or similar article. 136,011; July 20.

Flett, Raymond L., assignor to The American Products Company, Cincinnati, Ohio. Bottle. 136,024; July 20.

Goldbert, Max L., New York, N. Y. Cigarette case or similar article. 136,025; July 20.

Grab, Oscar F., New York, N. Y. Shaving soap holder. 136,012; July 20.

Hard Manufacturing Company. (See Doty, Boyd A., assignor.)

Horback, Alexander, Chicago, Ill., assignor to Comet Model Airplane & Supply Co., Inc. Toy glider. 136,013; July 20.

Kalisher, Benjamin, Poughkeepsie, assignor to Wood-Flex Fashions Inc., New York, N. Y. Handbag. 136,014; July 20.

Kleineck, Roy J., Onslow, Iowa. Pin or similar article of jewelry. 136,020; July 20.

Kraissl, Frederick, Jr., North Hackensack, N. J. Combined filter and strainer. 136,021; July 20.

Lampl, Walter, New York, N. Y. Ring or the like. 136,037; July 20.

Lampl, Walter, New York, N. Y. Ring or the like. 136,038; July 20.

Lampl, Walter, New York, N. Y. Ring or the like. 136,039; July 20.

Luger, Kenneth E., Minneapolis, Minn. Clothes-drying rack. 136,015; July 20.

Nordquist, Robert G., Oak Park, assignor to Patent License Corporation, Chicago, Ill. Light shield. 136,026; July 20.

Nordquist, Robert G., Oak Park, assignor to Patent License Corporation, Chicago, Ill. Bracket supported light fixture. 136,027; July 20.

Patent License Corporation. (See Nordquist, Robert G., assignor.)

Phillips, Solomon B., Waterbury, Conn. Combination paring knife and measuring spoon. 136,022; July 20.

Phillips, Solomon B., Waterbury, Conn. Kitchen utility knife. 136,023; July 20.

Pollock, Martin, Eastchester, N. Y. File fastener. 136,016; July 20.

Pollock, Martin, Eastchester, N. Y. File fastener. 136,017; July 20.

Preeshl, Frank J., New Richmond, Wis. Toy boat. 136,028; July 20.

Rebholz, Elmer F., Chicago, Ill., assignor to J. F. Barnes, as trustee. Toy figure. 136,040; July 20.

Reising, Eugene G., Hartford, Conn. Firearm. 136,041; July 20.

Sauls, Hosea C., Dayton, Ohio. Collapsible kite. 136,018; July 20.

Shagen, Alexander E. (See Belmonte, J. A., and Shagen.)

Veo, C. K., Newtonville, Mass. Tooth brush. 136,042; July 20.

Wahlstrom, Magnus. (See Bannow, R. F., and Wahlstrom.)

Weston, Alexander S., New York, N. Y. Fluted cigarette lighter. 136,029; July 20.

Weston, Alexander S., New York, N. Y. Full opening lighter. 136,043; July 20.

Wood-Flex Fashions Inc. (See Kalisher, Benjamin, assignor.)

Wright, Margaret A. (See Brooks, S. H., and Wright.)

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 20TH DAY OF JULY, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Aaron, Moe I., Denver, Colo. Stencil cutting method and ribbon. 2,324,662; July 20.
Abax Corporation. (See Svoboda, Antonin, assignor.)
Abbas, William E. (See McCurdy, Horace L., assignor.)
Abbott, Albert L., assignor to Diebold Safe & Lock Company, Canton, Ohio. Armor plate manufacture. 2,324,808; July 20.
Abbott, Lester E., Valley Stream, and W. W. Werring, Brooklyn, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Soldering method. 2,324,809; July 20.
Adam, Frank, Electric Company. (See Stieglitz, Henry M., assignor.)
Air Balance Instrument Co. (See Sutliffe, F. C., and Ashley, assignors.)
Airmax Corporation. (See Kelsey, R. A., and Wright, assignors.)
Aiton, John A., assignor to Aiton & Company Limited, Derby, England. Apparatus for distilling liquids. 2,324,663; July 20.
Aiton & Company Limited. (See Aiton, John A., assignor.)
Ajax Manufacturing Company, The. (See Criley, William W., assignor.)
Aktiebolaget Bofors, et al. (See Claesson, Martin A., assignor.)
Aktiebolaget Standard Radiofabrik, et al. (See Claesson, Martin A., assignor.)
Albree, George N., Winchester, Mass. Projectile. 2,324,551; July 20.
Alderfer, Sterling W., Fairlawn, and H. W. Greenup, assignors to The Firestone Tire & Rubber Company, Akron, Ohio. Making rubber thread. 2,324,975; July 20.
Alderfer, Sterling W., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Elastic novelty yarn. 2,324,989; July 20.
Alien Property Custodian. (See Harz, W., Rein, Hubert, and Kayser.)
Alien Property Custodian. (See Klein, H., Seidler and Stoewener.)
Alien Property Custodian. (See Kroeper, H., and Haussmann.)
Alien Property Custodian. (See Kurtz, P., Casper and Schwarz.)
Alien Property Custodian. (See Mercier, Jean.)
Alexaide, Hermes, Brooklyn, N. Y. Candle lamp and wick holder therefor. 2,324,753; July 20.
Allen, Raymond W., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Tire shaping apparatus. 2,324,986; July 20.
Allen, Raymond W., and W. T. Runals, assignors to The Firestone Tire & Rubber Company, Akron, Ohio. Baling rubber. 2,324,995; July 20.
Allen, Raymond W., and S. V. Carlsten, assignors to The Firestone Tire & Rubber Company, Akron, Ohio. Band cutter. 2,325,002; July 20.
Allen, William W., and J. C. Dawson, assignors to The Dow Chemical Company, Midland, Mich. Fumigant mixture. 2,324,471; July 20.
Allen, William W., and F. W. Fletcher, assignors to The Dow Chemical Company, Midland, Mich. Fumigant mixtures. 2,324,472; July 20.
Allinson, John J., assignor to Lion Oil Refining Company, El Dorado, Ark. Preparing bituminous emulsion. 2,324,473; July 20.
Aluminum Company of America. (See Lane, N. B., Mingle, and Colson, assignors.)
American Armament Corporation. (See Joyce, B. P., Brayton, Walsh, and Dardick, assignors.)
American Brake Shoe Company. (See Healy, Thomas J., assignor.)
American Can Company. (See Cereghino, Joseph, assignor.)
American Can Company. (See Erb, George C., assignor.)
American Can Company. (See Nordquist, Ronald E. J., assignor.)
American Can Company. (See Wolfe, Herbert J., assignor.)
American Cyanamid Company. (See Lynch, Kathryn L., assignor.)
American Steel and Wire Company, The. (See Brickman, Alan E., assignor.)
American Steel and Wire Company, The. (See Peterson, Carl H., assignor.)
Ammon, Edward R., Reading, Pa. Hosiery inspecting machine attachment. 2,324,897; July 20.
Anaconda Copper Mining Company. (See Macan, Harry C., assignor.)
Anderson, Charles A., Burlington, N. C. Syringe. 2,324,898; July 20.

Angst, Walter, Manhasset, N. Y., assignor to Square D Company, Detroit, Mich. Adjustable linkage for pressure measuring instruments. 2,324,666; July 20.
Appel, Henry J., Philadelphia, Pa., assignor, by mesne assignments, to Houdry Process Corporation, Wilmington, Del. Successive switching apparatus. 2,324,474; July 20.
Arens, Charles A., assignor to Arens Controls, Inc., Chicago, Ill. Control mechanism. 2,324,475; July 20.
Arens Controls, Inc. (See Arens, Charles A., assignor.)
Armour and Company. (See Keil, Havard L., assignor.)
Arthur, Marion A., Houston, Tex., assignor to Standard Oil Development Company. Method and apparatus for taking a series of spectrograph measurements. 2,324,899; July 20.
Asbridge, Harry H., Ashton-on-Mersey, assignor to The Churchill Machine Tool Company Limited, Broadheath, near Altrincham, England. Spindle bearing. 2,324,664; July 20.
Ashby, Carl T., Evansville, Ind., assignor to Servel, Inc., New York, N. Y. Refrigeration. 2,324,810; July 20.
Ashley, Roy. (See Sutliffe, F. C., and Ashley.)
Associated Electric Laboratories, Inc. (See Woodruff, Albert E., assignor.)
Auer, László, East Orange, assignor to Ridbo Laboratories, Inc., Paterson, N. J. Manufacture of varnish bases. 2,324,900; July 20.
Auslander, Henry, Brooklyn, N. Y. Tray. 2,324,811; July 20.
Autogiro Company of America. (See Larsen, Agnew E., assignor.)
Awot, Adolph W. (See Frederick, R. R., and Awot.)
Ayers, H. L., et al. (See Thomas, E. R., and (Erickson assignor).)
Ayers, H. K., et al. (See Thomas, E. R., and (Erickson assignor).)
Ayres, Martha O., Los Angeles, Calif. Sleeping bag. 2,324,665; July 20.
Badham, Philip W. (See Powell, E. F., Bulgin, and Badham.)
Bagpack, Inc. (See Clayton, Harry E., assignor.)
Bahnsen, Monroe J., Lakewood, and E. E. Bryant, Bedford, assignors to Ferro Enamel Corporation, Cleveland, Ohio. Porcelain enamel. 2,324,812; July 20.
Bailey, Charles M., San Francisco, Calif., assignor to Charles M. Bailey Co., Inc. Heat actuated safety shut-off valve. 2,324,552; July 20.
Bailey, Charles M., Co. (See Bailey, Charles M., assignor.)
Baker, Barton D., L. S. Harber and J. E. Pointon, Peterborough, England. Dividing and weighing of bread dough and like plastic masses. 2,324,667; July 20.
Barber, Oliver M., Visalia, Calif. Wind board. 2,324,754; July 20.
Baribeau, Hervé. (See Bedard, Henri, assignor.)
Barnes, Marion W., assignor to Universal Oil Products Company, Chicago, Ill. Heating of fluids. 2,324,553; July 20.
Barnum, Leslie F., Detroit, Mich. Machine for making twisted paper. 2,324,668; July 20.
Barr, David P. (See Rogers, V. C., and Barr.)
Barrett, George P., and H. F. Plaut, assignors to Precision Grinding Limited, Mitcham Junction, England. Linear-dimension gauge or comparator. 2,324,813; July 20.
Beamer, Clayton M., Roselle, N. J., assignor to Standard Alcohol Company. Distillation process. 2,324,755; July 20.
Becker, George L., Cleveland, Ohio. Layout and checking device. 2,324,476; July 20.
Beckman, Richard, assignor of one-half to O. Gries, New York, N. Y. Elastic fluid compressor or motor. 2,324,903; July 20.
Beckwith, Edwin L., Brookline, and C. P. MacIver, Newton, Mass., assignors to Beckwith Manufacturing Company, Dover, N. H. Venetian blinds. 2,325,003; July 20.
Beckwith Manufacturing Company. (See Beckwith, E. L., and MacIver, assignors.)
Bedard, Henri, assignor to H. Baribeau, Levis, Quebec, Canada. Spring feeding apparatus. 2,324,901; July 20.
Beene, Harry C., H. Marks, and D. L. Mitchell, Los Angeles, Calif. Test device for oil wells. 2,324,814; July 20.
Bell Telephone Laboratories, Incorporated. (See Abbott, L. E., and Werring, assignors.)
Bell Telephone Laboratories, Incorporated. (See Black, Harold S., assignor.)
Bell Telephone Laboratories, Incorporated. (See Brown, John T. L., assignor.)

Bell Telephone Laboratories, Incorporated. (See Hickman, Clarence N., assignor.)
Bell Telephone Laboratories, Incorporated. (See Holden, William H. T., assignor.
Bell Telephone Laboratories, Incorporated. (See Norton, Edward L., assignor.)
Bell Telephone Laboratories, Incorporated. (See Pierce, John R., assignor.)
Bell Telephone Laboratories, Incorporated. (See Pollard, Charles E., Jr., assignor.)
Bender, John. (See Pearson, R. W., and Bender.)
Bendix Aviation Corporation. (See Douglas, Kenneth F., assignor.)
Bendix Aviation Corporation. (See Noxon, Paul A., assignor.)
Bendix-Westinghouse Automotive Air Brake Company. (See Eaton, Wilfred A., assignor.)
Benzick, Alexander, and H. C. Rusch, Milwaukee, assignors to Nash-Kelvinator Corporation, Kenosha, Wis. Seat construction. 2,324,902; July 20.
Berdach, Sophie, assignor to Lily of France Corset Company, Inc., New York, N. Y. Brassière. 2,324,669; July 20.
Bergen, Von M., Huntington Park, Calif. Milk container. 2,324,670; July 20.
Berns, Morris A., Chicago, Ill. Ice-cream dipper. 2,324,477; July 20.
Bernstein, Isidor M., assignor to H. D. Roosen Company, Brooklyn, N. Y. Printing ink. 2,324,671; July 20.
Bethlehem Steel Company. (See Fine, L., and Kelchner, assignors.)
Bethlehem Steel Company. (See Hill, Harold O., assignor.)
Bethlehem Steel Company. (See Miller, L. G., and Statler, assignors.)
Bethlehem Steel Company. (See Reed, Claude D., assignor.)
Bethlehem Steel Company. (See Stevens, R. H., and Wilson, assignors.)
Bierman, William, New York, and A. W. Schenker, Richmond Hill, N. Y. Measuring and recording posture. 2,324,672; July 20.
Bilner, Karl P., New York, N. Y., assignor to Vacuum Concrete, Inc. Building construction. 2,324,554; July 20.
Black, Harold S., Elmhurst, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Stabilized feedback system. 2,324,815; July 20.
Bleakley, Gaylord P., Kansas City, Mo. Grave cribber. 2,324,465; July 20.
Bleakley, Purling A., Toledo, Ohio, and T. F. Kolts, Chicago, Ill. Apparatus for striping roadways. 2,324,478; July 20.
Blunk, William E., McGregor, Tex. Safety razor. 2,324,555; July 20.
Boldizzoni, Tebaldo G., New York, N. Y. Machine for pressing gloves. 2,324,673; July 20.
Bombard, Charles P., Hudson Falls, assignor of one-half to M. A. Schweitzer, Albany, N. Y. Flush tank. 2,234,756; July 20.
Borg-Warner Corporation. (See Smirl, Richard L., assignor.)
Born, William T., Tulsa, Okla., assignor to Geophysical Research Corporation, New York, N. Y. Seismic surveying. 2,324,816; July 20.
Bosomworth, George P., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Latex depositing apparatus. 2,324,977; July 20.
Bosomworth, George P., assignof to The Firestone Tire & Rubber Company, Akron, Ohio. Vulcanizing method and apparatus. 2,324,981; July 20.
Boston, David W. (See Kolb, O. K., and Boston.)
Botley, Richard M., assignor to Hawaiian Pineapple Company, Limited, Honolulu, T. H. Carton, carton blanks, and making same. 2,324,757; July 20.
Bowden, Charles W., Jr., Swarthmore, Pa., assignor to Hercules Powder Company, Wilmington, Del. Modified phenolic resin and production. 2,324,758; July 20.
Bowen, Kenneth H., and L. W. Gane, assignors to Columbian Rope Company, Auburn, N. Y. Sponge rubber and making same. 2,324,466; July 20.
Brady, Vernon E., McKeesport, Pa. Tire chain applicator and fastening device. 2,324,463; July 20.
Brandt, Francis L., Bridgeport, Conn., assignof to United Shoe Machinery Corporation, Flemington, N. J. Fastening-inserting machine. 2,324,479; July 20.
Brandt, Robert L., New York, N. Y., and H. G. Kirschenbauer, Palisade Park, assignors to Colgate-Palmolive-Peet Company, Jersey City, N. J. Recovery of organic materials. 2,324,467; July 20.
Brasel, Jesse R. (See McCarthy, H., and Brasel.)
Brassell, Bryan, Puerto De Luna, N. Mex. Windwheel and blade therefore. 2,324,759; July 20.
Bratley, Morris J., West Bridgford, assignor to Herbert Morris Limited Loughborough, England. Traverser. 2,324,817; July 20.
Brauer, Arthur J., Webster Groves, assignor to Brauer Bros. Shoe Co., St. Louis, Mo. Shoe. 2,325,004; July 20.
Brauer Bros. Shoe Co. (See Brauer, Arthur J., assignor.)
Brayton, Harold M. (See Joyce, B. P., Brayton, Walsh, and Dardick.)
Breeze, George E. (See Voorhees, H. R., and Breeze.)
Brickman, Alan E., Monongahela, Pa., assignor to The American Steel and Wire Company, of New Jersey. 2,324,468; July 20.
Brickner-Kropf Machine Company. (See Kropf, Henry W., assignor.)
Bristol Company, The. (See Hart, Eugene H., assignor.)
British Acoustic Films Limited. (See Koib, O. K., and Boston, assignors.)
Brown, Ellis V. (See Pasternack, R., and Brown.)
Brown, John T. L., Short Hills, N. J., assignor to Bell Telephone Laboratories, Incorporated. Manufacture of sealed articles. 2,324,556; July 20.
Brown, Roy W., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Pivotal joint. 2,324,984; July 20.
Brown, Roy W., assignor to the Firestone Tire & Rubber Company, Akron, Ohio. Resilient coupling. 2,324,997; July 20.
Brulotte, Joseph E., Yakima, Wash. Pipe former and layer. 2,324,760; July 20.
Brundage, James W., assignor to The Summit Mold & Machine Company, Akron, Ohio. Press. 2,324,818; July 20.
Brunson, Francis A., Sumter, S. C. Antiglare device. 2,324,469; July 20.
Bryant, Eugene E. (See Bahnsen, M. J., and Bryant.)
Bryant Heater Company, The. (See Ryden, E. H., and Higley, assignors.)
Buchanan, J. D, Los Angeles, Calif. Firearm action. 2,324,674; July 20.
Budner, Joseph, assignor of one-half to E. Rudolf, Newark, N. J. Trolley retriever mechanism. 2,324,761; July 20.
Builders Iron Foundry. (See Miner, Irving O., assignor.)
Bulgin, Douglas. (See Powell, E. F., Bulgin, and Badham.)
Burling, Eathel O., Yakima, Wash., assignor to Pacific Machinery Company, San Francisco, Calif. Freestone peach pitter. 2,324,470; July 20.
Burton, Robert A., High Point, N. C., assignor to Burton Upholstery Company. Sofa bed. 2,324,675; July 20.
Burton Upholstery Company. (See Burton, Robert A., assignor.)
Butterfield, John P., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Bearing. 2,324,676; July 20.
Butzbach, Orville K., assignor to The Studebaker Corporation, South Bend, Ind. Circuit controller. 2,324,819; July 20.
Cadwallader, Robert, Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Vehicle body. 2,324,677; July 20.
Calhoun, Van B., and K. C. Laughlin, Baton Rouge, La., assignors to Standard Oil Development Company. Isomerization process. 2,324,762; July 20.
Campbell, James R., Glendora, Calif., assignor to General Electric Company. Measuring and control method and apparatus. 2,324,821; July 20.
Canetta, John, Wilkinsburg, and J. B. Grosswege, Edgewood, assignors to The Westinghouse Air Brake Company, Wilmerding, Pa. Remote control device. 2,324,904; July 20.
Capehart, Homer E. (See Collison, Edward E., assignor.)
Capehart, Homer E. (See Collison, E. E., and Lannerd, assignors.)
Capps, Sidney E., Jefferson City, assignor of one-half to C. P. Owens, Springfield, Mo. Sign support. 2,324,820; July 20.
Carbide and Carbon Chemicals Corporation. (See Stoops, W. N., and Denison, assignors.)
Caresio, John. (See Krueger, O. J., and Krueger.)
Carlson, John I., assignor to Carlson Tool & Machine Co., Aurora, Ill. Brushmaking machine. 2,324,480; July 20.
Carlson, John I., assignor to Carlson Tool & Machine Co., Aurora, Ill. Brushmaking machine. 2,324,481; July 20.
Carlson, John I., assignor to Carlson Tool & Machine Co., Aurora, Ill. Clutch throwout mechanism. 2,324,482; July 20.
Carlson Tool & Machine Co. (See Carlson, John I., assignor.)
Carlsten, Sigurd V. (See Allen, R. W., and Carlsten.)
Carnegie-Illinois Steel Corporation. (See Stoker, Robert J., assignor.)
Carrier Corporation. (See Jones, Walter, assignor.)
Carruthers, Eben H., Seneca Falls, N. Y., assignor, by mesne assignments, to The Sharples Corporation, Philadelphia, Pa. Method and apparatus for oil purification. 2,324,763; July 20.
Carruthers, Eben H., Astoria, Oreg., and H. T. Moore, Drexel Hill, assignors, by mesne assignments, to The Sharples Corporation, Philadelphia, Pa. Filter construction and filtering. 2,324,764; July 20.
Carter, Mitchell, Trenton, N. J., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Mold and making same. 2,324,990; July 20.
Casper, Johannes. (See Kurtz, P., Casper, and Schwarz.)
Castan, Pierre, Zurich, Switzerland. Preparing synthetic resins. 2,324,483; July 20.
Celanese Corporation of America. (See Dreyfus, C., and Schneider, assignors.)

Celanese Corporation of America. (See Jackson, T., and Frearson, assignors.)
Century Electric Company. (See Schiff, Martin, assignor.)
Cereghino, Joseph, Los Angeles, Calif., assignor to American Can Company, New York, N. Y. Container. 2,324,484; July 20.
Chamberlain, George H., Jr., San Jose, Calif. Diaphragm inserter. 2,324,485; July 20.
Chambliss, Frank G., Kansas City, Mo., assignor to The Hinde & Hauch Paper Company, Sandusky, Ohio. Delivery case. 2,324,905; July 20.
Champlin, Franklin J., Dalton, Mass., assignor to General Electric Company. Electrical regulator. 2,324,822; July 20.
Chevigny, Georges P., assignor to International Standard Electric Corporation, New York, N. Y. Electron discharge device. 2,324,766; July 20.
Chicago Development Company. (See Moss, Cresap M., assignor.)
Chicago Electric Manufacturing Company. (See Gough, James J., assignor.)
Chilson, Francis, New York, N. Y., and I. Tornberg, Plainfield, N. J. Counting and filling machine. 2,324,823; July 20.
Chrysler Corporation. (See Butterfield, John P., assignor.)
Chrysler Corporation. (See Cadwallader, Robert, assignor.)
Chrysler Corporation. (See Livar, Allen P., assignor.)
Chrysler Corporation. (See Slack, Frederic W., assignor.)
Chrysler Corporation. (See Voorhees, H. R., and Breeze, assignors.)
Churchill Machine Tool Company Limited, The. (See Asbridge, Harry H., assignor.)
Ciba Pharmaceutical Products, Incorporated. (See Ruzicka, L., and Goldberg, assignors.)
Clack, Basil N., Wembley, England, assignor to General Electric Company. Thermal switch. 2,324,906; July 20.
Clack, Basil N., Wembley, England, assignor to General Electric Company. Thermal switch. 2,324,907; July 20.
Claesson, Martin A., Stockholm, assignor to Aktiebolaget Bofors, Bofors, and Aktiebolaget Standard Radiofabrik, Stockholm, Sweden. Gaseous electrical discharge device. 2,324,557; July 20.
Clark, Robert R., Chapel Hill, N. C. Bullet. 2,324,678; July 20.
Clausen, Sigurd, Brooklyn, N. Y., assignor to International Cigar Machinery Company. Wrapper paster roll. 2,324,486; July 20.
Clayton, Harry E., Holland, N. Y., assignor to Bagpak, Inc. Sewing machine. 2,324,558; July 20.
Clewell, Dayton H., Dallas, Tex., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Gravity meter. 2,325,005; July 20.
Clifcorn, La Verne E., Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y. Surplus fill drawoff means. 2,324,765; July 20.
Coben, William S., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Vehicle tire. 2,324,996; July 20.
Cochran, William S. (See Williams, R. A., and Cochran.)
Coleman Lamp and Stove Company, The. (See Martin, Russell, assignor.)
Colgate-Palmolive-Peet Company. (See Brandt, R. L., and Kirschenbauer, assignors.)
Collison, Edward E., Indianapolis, assignor to H. E. Capehart, Washington, Ind. Control device. 2,324,909; July 20.
Collison, Edward E., and P. U. Lannerd, Indianapolis, assignors to H. E. Capehart, Washington, Ind. Control device. 2,324,908; July 20.
Colson, Herman H. (See Lane, N. B., Mingle, and Colson.)
Columbian Rope Company. (See Bowen, K. H., and Gane, assignors.)
Cone Automatic Machinery Company Inc. (See Miller, Carroll E., assignor.)
Conlon, Thomas P., New York, N. Y. Navigational timepiece and setting mechanism. 2,324,560; July 20.
Continental Can Company. (See Clifcorn, L. E., assignor.)
Continental Can Company. (See Geist, William J., assignor.)
Continental Can Company. (See Kronquest, Alfred L., assignor.)
Cook, Earle S., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Brake valve device. 2,324,910; July 20.
Cooke, Herbert S., Stamford, assignor to Machlett Laboratories Incorporated, Springdale, Conn. Manufacture of vacuum apparatus. 2,324,559; July 20.
Corbetta, Louis P., Harrison, N. Y. Constructing concrete magazines. 2,324,911; July 20.
Corn Products Refining Company. (See Kelling, Alfred H., assignor.)
Cornell Machine Company, The. (See Cornell, Mead, assignor.)
Cornell, Mead, assignor to The Cornell Machine Company, Cleveland, Ohio. Treating apparatus. 2,324,824; July 20.
Cote, Omer E., Providence, R. I., assignor to United States Automatic Box Machinery Co., Inc., Roslindale, Mass. Variable cam mechanism. 2,324,767; July 20.
Cox, Nellie L., administratrix. (See Cox, Percy.)
Cox, Percy, Keston Park, England, deceased; N. L. Cox, administratrix. Rock boring and like tool. 2,324,679; July 20.
Crago, Paul H., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling apparatus. 2,324,912; July 20.
Crane Co. (See Schrohe, R. H., and Manuel, assignors.)
Crane Co. (See Svabek, John E., Jr., assignor.)
Cranston Print Works Company. (See May, John H., assignor.)
Crary, Selden B., Schenectady, N. Y., assignor to General Electric Company. Protective system. 2,324,825; July 20.
Crawford, Hugh J., Oakland, Calif. Vegetable pulper and juicer. 2,325,006; July 20.
Crawford, Richard A., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Liquid golf ball core. 2,324,768; July 20.
Criley, William W., Shaker Heights, assignor to The Ajax Manufacturing Company, Cleveland, Ohio. Clutch. 2,324,613; July 20.
Cripe, Maxwell L., South Bend, Ind. Milling attachment for lathes. 2,324,561; July 20.
Crompton & Knowles Loom Works. (See Dacey, Edward J., assignor.)
Cummings, Roy W., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Rounding workpieces. 2,324,562; July 20.
Custenborder, John M., Peoria, Ill. Tractor mower assembly. 2,324,563; July 20.
Dacey, Edward J., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Nose board for axminster looms. 2,324,564; July 20.
Dague, Max R., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Indicating depth gauge. 2,324,998; July 20.
D'Alello, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Triazine derivatives. 2,324,826; July 20.
D'Alello, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Reaction product of aldehydes and triazine derivatives. 2,324,827; July 20.
Dalton, Thomas L., Kansas City, Mo. Signal. 2,324,614; July 20.
Damrow Brothers Company. (See Damrow, Edward C., assignor.)
Damrow, Edward C., assignor to Damrow Brothers Company, Fond du Lac, Wis. Pasteurizing apparatus. 2,324,615; July 20.
Danberg, Charles A., Berlin, Conn. Storage battery cable connector. 2,324,828; July 20.
D'Andrea, Albert P., Brooklyn, N. Y. Adhesive composition. 2,324,680; July 20.
Daniels, Manuel, assignor to Gosnold Mills Corporation, New Bedford, Mass. Bobbin delivery control for weft magazines. 2,324,565; July 20.
Dante, Joseph J., Bantam, Conn. Electric terminal lug. 2,324,829; July 20.
Dardick, David. (See Joyce, B. P., Brayton, Walsh, and Dardick.)
Daukus, John F., Detroit, Mich. Clutch plate. 2,324,913; July 20.
Davino, Alphonso, Los Angeles, Calif. Aerial railway apparatus. 2,324,487; July 20.
Davis, Fay P., Omak, Wash. Puzzle. 2,324,566; July 20.
Davis, J. H., et al. (See Davis, Stephen H., assignor.)
Davis, Stephen H., assignor of one-fourth to W. C. Revis and one-fourth to J. H. Davis, Chicago, Ill. Load weighing and totaling device for cranes, hoists, and the like. 2,324,769; July 20.
Dawson, Joseph C. (See Allen, W. W., and Dawson.)
De Groote, Melvin, University City, and B. Keiser, Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del. Breaking petroleum emulsions. 2,324,488; July 20.
De Groote, Melvin, University City, and B. Keiser, Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del. Process for breaking petroleum emulsions. 2,324,489; July 20.
De Groote, Melvin, University City, and B. Keiser, Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del. Breaking petroleum emulsions. 2,324,490; July 20.
De Groote, Melvin, University City, and B. Keiser, Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del. Breaking petroleum emulsions. 2,324,491; July 20.
De Groote, Melvin, University City, and B. Keiser, Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del. Breaking petroleum emulsions. 2,324,492; July 20.

De Groote, Melvin, University City, and B. Keiser, Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del. Breaking petroleum emulsions. 2,324,493; July 20.
De Groote, Melvin, University City, and B. Keiser, Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del. Breaking petroleum emulsions. 2,324,494; July 20.
Dekker, Otto, Granger, Wash. Adjustable tractor wheel mounting means. 2,324,681; July 20.
D'Elia, Joseph A., Fairfield, Conn. Spark plug. 2,324,616; July 20.
De Long, Raleigh, assignor of forty percent to Fohs Oil Company, Houston, Tex. Side wall coring tool. 2,324,682; July 20.
Deming, Clarence E., Worthington, Minn. Game carrier. 2,324,495; July 20.
Denison, Walter A. (See Stoops, W. N., and Denison.)
De Rentiis, Augusto, Prospect Park, Pa. Resizing and shaving die set. 2,324,496; July 20.
De Rentiis, Augusto, Prospect Park, Pa. Force measuring device. 2,324,497; July 20.
Des Jardins, Wilfred H., Fullerton, Calif. Collar support. 2,324,617; July 20.
Despard, Victor R., assignor to Pass & Seymour, Inc., Syracuse, N. Y. Socket for fluorescent lamps. 2,324,683; July 20.
Dickinson, Henry R., Grand Rapids, Mich., and H. H. Moreton, East Orange, N. J. Desiccating foods. 2,324,914; July 20.
Diebold Safe & Lock Company. (See Abbott, Albert L., assignor.)
Dietrich, Otto E., Morton, Ill. Reduced tire pressure indicator. 2,324,618; July 20.
Dietz, William C. F., Amberley, Ohio. Portable table. 2,324,684; July 20.
D'Innocenzo, Herman J. (See Stevens, A. L., and D'Innocenzo.)
Ditto, Incorporated. (See Williams, R. A., and Cochran, assignors.)
Domestic Engineering Company. (See Holmstrom, Walter A., assignor.)
Donlon, Theodore R., Union, N. J., assignor to Standard Oil Development Company. Low temperature hydraulic medium. 2,324,770; July 20.
Douglas, Kenneth F., Elmira, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Engine starter. 2,325,007; July 20.
Dow Chemical Company, The. (See Allen, W. W., and Dawson, assignors.)
Dow Chemical Company, The. (See Allen, W. W., and Fletcher, assignors.)
Dow Chemical Company, The. (See Prendergast, J. J., Jones, and Gladen, assignors.)
Dow, Orville E., Port Jefferson, N. Y., assignor to Radio Corporation of America. Monitor system. 2,324,915; July 20.
Dreyfus, Camille, New York, N. Y., and G. Schneider, Montclair, N. J., assignors to Celanese Corporation of America. Manufacture and artificial filaments, threads, and the like. 2,324,567; July 20.
Duggan, James E., Detroit, Mich. Paint mask structure. 2,324,568; July 20.
Duncan, James K., Chicago, Ill., and G. L. Phelps, Tempe, Ariz., assignors to United States Gypsum Company, Chicago, Ill. Reinforced structural element. 2,324,916; July 20.
Dunlop Tire and Rubber Corporation. (See Powell, E. F., Bulgin, and Badham, assignors.)
Dunn, Maude, Birmingham, Ala. Bed comforter. 2,324,619; July 20.
Du Pont, E. I., de Nemours & Company. (See Karns, George M., assignor.)
Du Pont, E. I., de Nemours & Company. (See Spanagel, Edgar W., assignor.)
Eaton, Wilfred A., assignor to Bendix-Westinghouse Automotive Air Brake Company, Pittsburgh, Pa. Clutch control mechanism. 2,324,830; July 20.
Eberhart, Arthur H., Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Air conditioning apparatus. 2,324,620; July 20.
Ebert, Dwight L., assignor to Norris Products, Chicago, Ill. Dry-cleaning solvent. 2,324,917; July 20.
Einson-Freeman Co. (See Gold, Sam, assignor.)
Einson-Freeman Co. (See Horr, John V., assignor.)
Ekman, Olof I. H., Stockholm, and H. T. Nicou, Sodra Angby, near Stockholm, Sweden. Resilient stretcher-supporting device for vehicles. 2,324,685; July 20.
Electro Refractories and Alloys Corporation. (See Milligan, Chester E., assignor.)
Electrolux Corporation. (See Lofgren, Gustaf E., assignor.)
Emmert, George W., Chicago, Ill. Hone. 2,324,498; July 20.
Engle, Bruce W., West Burlington, Iowa, assignor to Foster-Johnson Reamer Company, Chicago, Ill. Abrading device. 2,324,918; July 20.
Erb, George C., Forest Hills West, assignor to American Can Company, New York, N. Y. Container. 2,324,499; July 20.
Erb, George C., Forest Hills West, assignor to American Can Company, New York, N. Y. Container. 2,324,500; July 20.
Erickson, Selma E., executrix. (See Thomas, E. R., and Erickson.)
Evans, Arthur G. (See Orelind, J. R., and Evans.)
Everel Propeller Corporation. (See Everts, Walter W., assignor.)
Everts, Walter W., assignor to Everel Propeller Corporation, Baltimore, Md. Propeller. 2,324,569; July 20.
Falk Corporation, The. (See Gruett, Le Roy E., assignor.)
Fantone, Charles B., Lyndhurst, assignor to Syncro Machine Company, Rahway, N. J. Adhesive applier. 2,324,686; July 20.
Ferro Enamel Corporation. (See Bahnsen, M. J., and Bryant, assignors.)
Figgins, Donald P., San Bernardino, Calif. Portable back for benches. 2,324,570; July 20.
Fine, Lewis, Bethlehem, and H. B. Kelchner, Lower Saucon Township, Northampton County, Pa., assignors to Bethlehem Steel Company. Apparatus for use in fabricating tunnel lining segments. 2,324,919; July 20.
Finlayson, William G., Detroit, L. R. Twyman, Bloomfield Township, Oakland County, and R. L. Tweedale, assignors to Vickers Incorporated, Detroit, Mich. Power transmission. 2,324,688; July 20.
Finkle, Donald H., Los Angeles, Calif. Fastener. 2,324,687; July 20.
Fiore, Otto, Grantwood, N. J. Bottle carton. 2,324,771; July 20.
Firestone Tire & Rubber Company, The. (See Alderfer, Sterling W., assignor.)
Firestone Tire & Rubber Company, The. (See Alderfer, S. W., and Greenup, assignors.)
Firestone Tire & Rubber Company, The. (See Allen, Raymond W., assignor.)
Firestone Tire & Rubber Company, The. (See Allen, R. W., and Carlsten, assignors.)
Firestone Tire & Rubber Company, The. (See Allen, R. W., and Runals, assignors.)
Firestone Tire & Rubber Company, The. (See Bosomworth, George P., assignor.)
Firestone Tire & Rubber Company, The. (See Brown, Roy W., assignor.)
Firestone Tire & Rubber Company, The. (See Carter, Mitchell, assignor.)
Firestone Tire & Rubber Company, The. (See Coben, William S., assignor.)
Firestone Tire & Rubber Company, The. (See Dague, Max R., assignor.)
Firestone Tire & Rubber Company, The. (See Gollings, Archie H., assignor.)
Firestone Tire & Rubber Company, The. (See Greenup, Harold W., assignor.)
Firestone Tire & Rubber Company, The. (See Greenup, H. W., and Johnston, assignors.)
Firestone Tire & Rubber Company, The. (See Groncy, C. W., and Heck, assignors.)
Firestone Tire & Rubber Company, The. (See Hale, James E., assignor.)
Firestone Tire & Rubber Company, The. (See Hatch, James W., assignor.)
Firestone Tire & Rubber Company, The. (See Kilbourne, Frederick L., Jr., assignor.)
Firestone Tire & Rubber Company, The. (See Kubaugh, Le Roy M., assignor.)
Firestone Tire & Rubber Company, The. (See Kuhn, Max O., assignor.)
Firestone Tire & Rubber Company, The. (See Lohrand, W. Q., and Whitlock, assignors.)
Firestone Tire & Rubber Company, The. (See McLaughlin, Francis M., assignor.)
Firestone Tire & Rubber Company, The. (See Riesing, Ellwood F., assignor.)
Firestone Tire & Rubber Company, The. (See Secrest, William J., assignor.)
Firestone Tire & Rubber Company, The. (See Shinn, Byron H., assignor.)
Firestone Tire & Rubber Company, The. (See Soper, Gilbert V., assignor.)
Firestone Tire & Rubber Company, The. (See Stevens, Horace D., assignor.)
Fitz, Edward J., Fairfield, Conn., assignor to Jenkins Bros., New York, N. Y. Valve operating mechanism. 2,324,571; July 20.
Fletcher, Fred W. (See Allen, W. W., and Fletcher.)
Fliegenschmidt, Edgar. (See Hoffmann, K. F., and Fliegenschmidt.)
Fohs Oil Company. (See De Long, Raleigh, assignor.)
Formica Insulation Company, The. (See Lytle, Robert W., assignor.)
Foster-Johnson Reamer Company. (See Engle, Bruce W., assignor.)
Fraser Companies Limited. (See Warren, David, assignor.)
Fraser, Robert B., Ventura, Calif. Valve for oil well swabs. 2,324,689; July 20.
Frazier, Sherman W., Washington, D. C., assignor to The Nik-O-Lok Company, Indianapolis, Ind. Coin operated door lock. 2,324,920; July 20.
Frearson, Thomas B. (See Jackson, T., and Frearson.)

Frederick, Robert R., Cheltenham, and A. W. Awot, Upper Darby, Pa., assignors to Sloane-Blabon, Trenton, N. J. Securing ends to tubes. 2,324,572; July 20.

Frederick, Walter B., Oakford, and T. J. Kelley, Philadelphia, Pa., assignors to Sloane-Blabon, Trenton, N. J. Printing floor coverings. 2,324,573; July 20.

Freedman, Harry. (See Susskind, Julius, assignor.)

Fröhlich, Alfred, and W. Schneider, Dessau, Germany, assignors to General Aniline & Film Corporation, New York, N. Y. Photographic emulsion. 2,324,831; July 20.

Fröhlich, Alfred, and W. Schneider, Dessau, Germany, assignors to General Aniline & Film Corporation, New York, N. Y. Photographic emulsion. 2,324,832; July 20.

Gane, Leonard W. (See Bowen, K. H., and Gane.)

Gans, Fred W., assignor to Sloane Blablon, Trenton, N. J. Manufacture of floor coverings or the like. 2,324,574; July 20

Gardiner, Duncan B, and R. S. Miller, assignors to Vickers Incorporated, Detroit, Mich. Valve device. 2,324,690; July 20.

Gardner, Edward. assignor to R. O. Hulbert, Ashtabula, Ohio. Game or puzzle device. 2,324,691; July 20.

Gates Rubber Company, The. (See Yelm, Charles W., assignor.)

Geist, William J., St. Louis, Mo., assignor, by mesne assignments, to Continental Can Company, Inc., New York, N. Y. Seaming machine. 2,324,501; July 20.

General Aniline & Film Corporation. (See Frölich, A., and Schneider, assignors.)

General Aniline & Film Corporation. (See Zerweck, W., and Kunze, assignors.)

General Electric Company. (See Campbell, James R., assignor.)

General Electric Company. (See Champlin, Franklin J., assignor.)

General Electric Company. (See Clack, Basil N., assignor.)

General Electric Company. (See Crary, Selden B., assignor.)

General Electric Company. (See D'Alelio, Gaetano F., assignor.)

General Electric Company. (See Hagenguth, Julius H., assignor.)

General Electric Company. (See Hall, Chester I., assignor.)

General Electric Company. (See Hutt, Philip, assignor.)

General Electric Company. (See Korte, Herman R., assignor.)

General Electric Company. (See Levine, Samuel J., assignor.)

General Electric Company. (See Peterson, J., and Weigel, assignors.)

General Electric Company. (See Quentin, William R., assignor.)

General Electric Company. (See Strobel, Rudolph W., assignor.)

General Electric Company. (See Thumim, Carl, assignor.)

General Electric Company. (See Witherow, Harry M., assignor.)

General Electric Company. (See Wright, Daniel K., assignor.)

General Luminescent Corporation. (See Hultgren, R. C., and Isenberg, assignors.)

General Motors Corporation. (See Smith, Nelson J., assignor.)

General Railway Signal Company. (See Hewes, Ralph W., assignor.)

General Strapping Corporation. (See Watt, B. L., and Osgood, assignors.)

Geophysical Research Corporation. (See Born, William T., assignor.)

Gibson, William T., London, England, assignor to International Standard Electric Corporation, New York, N. Y. Electron discharge apparatus. 2,324,772; July 20.

Gille, Willis H., St. Paul, Minn., and J. V. Sigford, Wabash, Ind., assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Load compensated control system. 2,324,692; July 20.

Gilpin, Garth G., Riverside, assignor to Standard Railway Equipment Manufacturing Company, Chicago, Ill. Railway car construction. 2,324,921; July 20.

Gladen, Carl F. (See Prendergast, J. J., Jones, and Gladen.)

Gold, Sam, Chicago, Ill., assignor to Einson-Freeman Co., Inc., Long Island City, N. Y. Educational airplane cock-pit outfit. 2,324,833; July 20.

Goldberg, Moses W. (See Ruzicka, L., and Goldberg.)

Goldstein, Maxwell K., Washington, D. C. Color reproduction. 2,324,773; July 20.

Gollings, Archie H., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Rubber light buoy. 2,324,983; July 20.

Goodrich, B. F., Company, The. (See Crawford, Richard A., assignor.)

Gosnold Mills Corporation. (See Daniels, Manuel, assignor.)

Gough, James J., assignor to Chicago Electric Manufacturing Company, Chicago, Ill. Electric iron. 2,325,017; July 20.

Grady, Stephen S., Magnolia, N. C. Electric switch. 2,324,621; July 20.

Grauel, Ernest H. (See Klein, M., and Grauel.)

Graves, Mark, Cleveland Heights, Ohio. Automatic tapping machine. 2,324,922; July 20.

Greenup, Harold W., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Inner tube and producing the same. 2,324,974; July 20.

Greenup, Harold W. (See Alderfer, S. W., and Greenup.)

Greenup, Harold W., Fall River, Mass., and Norris Johnston, Alhambra, Calif., assignors to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio. 2,324,988; July 20.

Gries, Otto. (See Beckman, Richard, assignor.)

Griswold, Walter R., Detroit, and F. R. McFarland, Huntington Woods, assignors to Packard Motor Car Company, Detroit, Mich. Transmission. 2,324,693; July 20.

Groedel, Franz M., New York, N. Y. Paste tube holder and closure. 2,324,575; July 20.

Groncy, Carl W., and E. Hec, assignors to The Firestone Tire & Rubber Company, Akron, Ohio. Molding apparatus. 2,324,991; July 20.

Grosswege, John B. (See Canetta, J., and Grosswege.)

Grow, Harlow B., Freeport, N. Y. Ignition system. 2,324,923; July 20.

Gruchow, Elmer R. (See McGovern, Van A., and Gruchow.)

Gruett, Le Roy E., assignor to The Falk Corporation, Milwaukee, Wis. Spray nozzle. 2,325,008; July 20.

Gulf Research & Development Company. (See Weinrich, W. W., and Yost, assignors.)

Gurries, Albert G., Gilroy, Calif. Rotary valve. 2,324,576; July 20.

Gurwick, Irving, Long Beach, N. Y. Making printed signatures. 2,324,834; July 20.

Gustkey, Carl W., Wheeling, W. Va., assignor to Imperial Glass Corporation, Bellaire, Ohio. Etching insignia upon articles of glassware. 2,324,694; July 20.

Haffner, Harold J., St. Louis, G. A. Siegelman, Overland, Mo., and G. H. von Fuchs, Alton, Ill., assignors to Shell Development Company, San Francisco, Calif. Method and composition for corrosion prevention. 2,324,577; July 20.

Hagenguth, Julius H., Pittsfield, Mass., assignor to General Electric Company. Impulse tester. 2,324,835; July 20.

Hale, Arthur N., Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Needle-actuating mechanism for zigzag-stitch sewing machines. 2,324,836; July 20.

Hale, James E., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Pneumatic tire and rim assembly. 2,324,994; July 20.

Hall, Chester I., Rexford, N. Y., assignor to General Electric Company. Electric heater. 2,324,837; July 20.

Hall, Harvey H., Denver, Colo. Electrode holder. 2,324,924; July 20.

Halliburton Oil Well Cementing Company. (See Hart, Merida L., assignor.)

Hallowell, Howard Thomas, Jr., Jenkintown, assignor to Pennsylvania Manufacturing Company, Jenkintown, Pa. Assembling machine. 2,324,925; July 20.

Hamilton, Francis C., Chattanooga, Tenn., assignor of one-half to L. Ray Schuessler, St. Louis, Mo. Bottling machine. 2,324,578; July 20.

Hamilton, William, S. H., Larchmont, and K. B. Rowell, New York, N. Y., assignors to The New York Central Railroad Company. Fuel and water controller for boilers or steam generators. 2,324,695; July 20.

Hannaford, Cleon M., Toledo, Ohio, deceased, Marie L., Hannaford, executrix. Telephone subscriber's ringer control. 2,324,696; July 20.

Hannaford, Marie L., executrix. (See Hannaford, Cleon M., assignor.)

Hansman, George A. (See Tinnerman, G. A., and Hansman.)

Harber, Laurence S. (See Baker, B. D., Harber, and Pointon.)

Harrington, Ferris T., and R. L. Tweedale, assignors to Vickers Incorporated, Detroit, Mich. Power transmission. 2,324,697; July 20.

Hart, Eugene H., assignor to The Bristol Company, Waterbury, Conn. Automatic control apparatus. 2,324,579; July 20.

Hart, Merida L., Chickasha, Okla., assignor to Halliburton Oil Well Cementing Company, Duncan, Okla. Well measuring device. 2,324,698; July 20.

Harz, Walter, Dormagen, Kreis Neuss, H. Rein, Leipzig, E. Hubert, Dessau-Ziebigk, and C. Kayser, Bitterfeld, Germany; vested in the Alien Property Custodian. Filter material. 2,324,838; July 20.

Harza, Leroy F., Highland Park, Ill. Automatic latch. 2,324,699; July 20.

Hascher, Eugene. (See Jackson, C. S., Parlini, and Hascher.)

Hatch, James W., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Airplane brake. 2,324,979; July 20.

Haumerson, Clifford C., Janesville, Wis. Tool handle. 2,324,839; July 20.

Haussmann, Hans. (See Kroeper, H., and Haussmann.)

Havel, Victor, Northbrook, Ill., assignor of one-half to M. E. Weinert, Austin, Tex. Display device. 2,324,926; July 20.

Hawaiian Pineapple Company, Limited. (See Botley, Richard M., assignor.)

Haynes, Artemas J., Jackson Heights, N. Y. Photometer. 2,324,581; July 20.

Hazeltine Corporation. (See Hergenrother, Rudolf C., assignor.)

Hazeltine Corporation. (See Wheeler, Harold A., assignor.)

Healy, Thomas J., Baltimore, Md., assignor to American Brake Shoe Company, Wilmington, Del. Bearing. 2,324,700; July 20.

Heck, Edward. (See Groncy, C. W., and Heck.)

Heilman, William O., Cranford, N. J., assignor to Standard Oil Development Company. Refining of mineral oils. 2,324,927; July 20.

Heller, William F., Manhasset, N. Y. Grinding mill. 2,324,502; July 20.

Henry, Beulah L., New York, N. Y. Movable lip for toy figures and actuating the same. 2,324,774; July 20.

Hentschel, Robert A. A., Easton, Conn., assignor to Remington Arms Company, Inc. Firearm. 2,324,775; July 20.

Hercules Powder Company. (See Bowden, Charles W., Jr., assignor.)

Hercules Powder Company. (See Speicher, John K., assignor.)

Hergenrother, Rudolf C., Beechhurst, N. Y., assignor to Hazeltine Corporation. Vacuum tube. 2,324,776; July 20.

Herman, Kenneth R., assignor to Vickers Incorporated, Detroit, Mich. Fluid pressure accumulator. 2,324,701; July 20.

Herrington, Arthur W., assignor to Marmon-Herrington Company, Inc., Indianapolis, Ind. Armored observation unit. 2,324,503; July 20.

Hewes, Ralph W., assignor to General Railway Signal Company, Rochester, N. Y. Track switch for railroads. 2,324,622; July 20.

Hickman, Clarence N., Jackson Heights, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Switching device. 2,324,623; July 20.

Hight, Herbert S., assignor to San Joaquin Valley Walnut Growers Association, Linden, Calif. Liquid metering and mixing apparatus. 2,324,580; July 20.

Higley, Frank R. (See Ryden, E. H., and Higley.)

Hildebrand, Walter. (See Logemann, W., and Hildebrand.)

Hile, Leslie M. (See Newhouse, W. F., and Hile.)

Hill, Harold O., Bethlehem, Pa., assignor to Bethlehem Steel Company. Welded pipe joint. 2,324,928; July 20.

Hill, Walter E. (See McLoughlin, H. F., Hill, Morgan, and Wintle.)

Hipple, James L., Canton, Ill., assignor to International Harvester Company. Agricultural implement. 2,324,840; July 20.

Hinde & Dauch Paper Company, The. (See Chambliss, Frank G., assignor.)

Hoffman, Roscoe C., assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 2,324,703; July 20.

Hoffmann, Karl F., New York, N. Y., and E. Fliegenschmidt, North Bergen, N. J. Surgical simulacra and preparing same. 2,324,702; July 20.

Holden, William H. T., Woodside, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Communication system. 2,324,624; July 20.

Holley, Earl, et al. (See Kittler, Milton J., assignor.)

Holley, Earl, et al. (See Olson, Elmer, assignor.)

Holley, Earl, et al. (See Schorn, Carl F., assignor.)

Holley, George M., et al. (See Kittler, Milton J., assignor.)

Holley, George M., et al. (See Olson, Elmer, assignor.)

Holley, George M., et al. (See Schorn, Carl F., assignor.)

Holmstrom, Walter A., Blue Island, assignor to Domestic Engineering Company, Chicago, Ill. Mailing piece. 2,324,777; July 20.

Hoover, Walter S., Montreal, Quebec, Canada. Transfer bearing. 2,324,625; July 20.

Hopkins, Robert C., Long Beach, Calif. Boiler mounting. 2,324,626; July 20.

Horr, John V., Hastings-on-Hudson, assignor to Einson-Freeman Co., Inc., Long Island City, N. Y. Educational device. 2,324,841; July 20.

Horton, Erwin C. (See Rappl, A., and Horton.)

Houdaille-Hershey Corporation. (See Johnson, Bernard C., assignor.)

Houdry Process Corporation. (See Appel, Henry J., assignor.)

Houts, John R., McLean, Va. Smoker's pipe. 2,324,704; July 20.

Huber, John S., South Milwaukee, assignor to Nash-Kelvinator Corporation, Kenosha, Wis. Combustion chamber. 2,324,705; July 20.

Hubert, Emil. (See Harz, W., Rein, Hubert, and Kayser.)

Huebner, William C., New York, N. Y. Compositor camera. 2,324,842; July 20.

Hulbert, Reed O. (See Gardner, Edward, assignor.)

Hultgren, Rudolph C., and S. Isenberg, assignors to General Luminescent Corporation, Chicago, Ill. Luminescent material and producing same. 2,324,843; July 20.

Hutt, Philip, Milford, Conn., assignor General Electric Company. Remote control switch. 2,324,844; July 20.

Hyler, Lolell L., Peoria, Ill., assignor to R. G. Le Tourneau, Inc., Stockton, Calif. Tracing hanger. 2,324,582; July 20.

I. T. E. Circuit Breaker Company. (See Scott, William M., Jr., assignor.)

Iams, Harley A., Summit, and A. Rose, East Orange, N. J., assignors to Radio Corporation of America. Television transmitting system. 2,324,504; July 20.

Iams, Harley A., Summit, and A. Rose, East Orange, N. J., assignors to Radio Corporation of America. Television transmitting tube and electrode structure. 2,324,505; July 20.

Imperial Glass Corporation. (See Gustkey, Carl W., assignor.)

Ingersoll-Rand Company. (See Stepanoff, Alexey J., assignor.)

Inredeco, Inc. (See Morgenthaler, Max R., assignor.)

International Cigar Machinery Company. (See Clausen, Sigurd, assignor.)

International Harvester Company. (See Hipple, James L., assignor.)

International Harvester Company. (See Mott, Carl W., assignor.)

International Harvester Company. (See Mott, Carl W., assignor.)

International Harvester Company. (See Orelind, John R., assignor.)

International Harvester Company. (See Orelind, J. R., and Evans, assignor.)

International Harvester Company. (See Mott, C. W., and Smith, assignors.)

International Harvester Company. (See Scarlett, Arthur A., assignor.)

International Standard Electric Corporation. (See Chevigny, Georges P., assignor.)

International Standard Electric Corporation. (See Gibson, William T., assignor.)

Isenberg, Sampson. (See Hultgren, R. C., and Isenberg.)

Ivers-Lee Company. (See Salfisberg, Leroy L., assignor.)

Jacobson & Company. (See Jacobson, Victor, assignor.)

Jacobson, Victor, New Rochelle, assignor to Jacobson & Company, Inc., New York, N. Y. Acoustical treatment. 2,324,706; July 20.

Jackson, Clarence S., Brooklyn, A. C. Parlini, Freeport, N. Y., and E. Hascher, Newark, N. J., assignors to Peters Bros. Rubber Co., Inc., Brooklyn, N. Y. Spot machine. 2,324,506; July 20.

Jackson, Thomas, and T. B. Frearson, Spondon, near Derby, England, assignors to Celanese Corporation of America. Cord for use in the covers of pneumatic tires and other reinforced articles of rubber and similar materials. 2,324,583; July 20.

Jeffrey Manufacturing Company, The. (See Moor, William C., assignor.)

Jenkins Bros. (See Fitz, Edward J., assignor.)

Jennings, Willis A., McKees Rocks, Pa. Paper clip. 2,324,929; July 20.

Joa, Curt G., Inc. (See Joa, Curt G., assignor.)

Joa, Curt G., assignor to Curt G. Joa, Inc., Sheboygan Falls, Wis. Stacking and boxing apparatus. 2,324,930; July 20.

Johnson, Bernard C., Libertyville, Ill., assignor to Houdaille-Hershey Corporation, Detroit, Mich. Evaporator unit with frozen food compartments. 2,324,931; July 20.

Johnson, Herman K., Grand Haven, Mich. Cooling apparatus. 2,324,707; July 20.

Johnson, James P., Shaker Heights, Ohio. Fuel control valve. 2,324,932; July 20.

Johnson, William B., U. S. Army, Baltimore, Md. Ambulance step. 2,324,507; July 20.

Johnson, William B., U. S. Army, Baltimore, Md. Military vehicle body. 2,324,508; July 20.

Johnston, Norris. (See Greenup, H. W., and Johnston.)

Jones, E. D. & Sons Company. (See Jones, Dwight E., assignor.)

Jones, Dwight E., assignorto E. D. Jones & Sons Company, Pittsfield, Mass. Beater roll. 2,324,845; July 20.

Jones, Leo D., assignor to The Sharples Corporation, Philadelphia, Pa. Centrifugal separator. 2,324,933; July 20.

Jones, Ronald A. (See Prendergast, J. J., Jones, and Gladen.)

Jones, Walter, Princeton, N. J., assignor to Carrier Corporation, Syracuse, N. Y. Refrigeration. 2,324,627; July 20.

Jorgensen, Bernhardt, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Machine for use in the manufacture of shoes. 2,324,509; July 20.

Jorgensen, Bernhardt, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Cement applying mechanism. 2,324,510; July 20.

Jorgensen, Bernhardt, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Shoe-supporting means for shoe machines. 2,324,511; July 20.

Jorgensen, Bernhardt, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Upper trimming means. 2,324,512; July 20.

Joyce, Bryan P., East Orange, H. M. Brayton, Dover, D. J. Walsh, Jersey City, N. J., and D. Dardick, Brooklyn, assignors to American Armament Corporation, New York, N. Y. Land mine and fuse. 2,324,846; July 20.

Julius, Awdry F. (See Julius, G. A., and Julius.)

Julius, George A., and A. F. Julius, Sydney, New South Wales, Australia. Integrating and total displaying mechanism for totalizators. 2,324,778; July 20.

June, William M., Syracuse, N. Y. Physician's in-and-out register for hospitals. 2,324,934; July 20.

Junkins, Raymond D., Cleveland Heights, Ohio. Control system. 2,324,513; July 20.

Kähr, Gustaf, Stockholm, Sweden. Composite board structure. 2,324,628; July 20.

Kalin, Albert, Cleveland, Ohio. Governor. 2,324,514; July 20.

Kalin, Albert, Cleveland, Ohio. Governor. 2,324,515; July 20.

Kalin, Albert, Cleveland, Ohio. Governor. 2,324,516; July 20.

Kalin, Albert, Cleveland, Ohio. Governor. 2,325,009; July 20.

Kaplan, Reuben A., assignor to Owatonna Tool Company, Owatonna, Minn. Tool. 2,324,847; July 20.

Karns, George M., Swarthmore, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Yarn winding. 2,324,584; July 20.

Kass, Charles B., Elizabeth, N. J., assignor to Standard Oil Development Company. Motor fuel. 2,324,779; July 20.

Kautter, Carl T., Darmstadt, and E. Trommsdorff, Jugenheim-on-the-Bergstrasse, Germany, assignors to Rohm & Haas Company, Philadelphia, Pa. Polymerizing derivatives of methacrylic acid. 2,324,935; July 20.

Kayser, Carl. (See Harz, W., Rein, Hubert, and Kayser.)

Keil, Havard L., Clarendon Hills, assignor to Armour and Company, Chicago, Ill. Preparing anti-anemic concentrates. 2,324,848; July 20.

Keiser, Bernhard. (See De Groote, M., and Keiser.)

Kelchner, Harle B. (See Fine, L., and Kelchner.)

Kelling, Alfred H., Chicago, Ill., assignor, by mesne assignments, to Corn Products Refining Company, New York, N. Y. Manufacture of starch. 2,324,849; July 20.

Kelling, Alfred H., Oak Park, Ill., assignor, by mesne assignments, to Corn Products Refining Company, New York, N. Y. Manufacture of starch. 2,324,850; July 20.

Kelly, Thomas J. (See Frederick, W. B., and Kelly.)

Kelsey, Robert A., and H. Wright, assignors, by mesne assignments, to Airmax Corporation, San Diego, Calif. Rotary air cleaner. 2,324,629; July 20.

Kilbourne, Frederick L., Jr., Copley, assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Reclaiming synthetic rubber. 2,324,980; July 20.

King, David W., Knoxville, Tenn. Apparatus for freezing foodstuffs. 2,324,517; July 20.

King, James T., Burbank, Calif. Hose clamp. 2,324,780; July 20.

Kirschenbauer, Hans G. (See Brandt, R. L., and Kirschenbauer.)

Kittler, Milton J., Detroit, Mich., assignor to G. M. and E. Holley. Torque responsive device. 2,324,585; July 20.

Klein, Hans, Mannheim, R. Seidler, Heidelberg, and F. Stoewener, Ludwigshafen-on-the-Rhine, Germany; vested in the Alien Property Custodian. Carrying out reactions with carbonaceous materials. 2,324,518; July 20.

Klein, Maximilian, Sellersville, and E. H. Graael, Perkasie, assignors to United States Gauge Company, Sellersville, Pa. Hardness tester. 2,324,586; July 20.

Koch, Winfield R., Haddonfield, N. J., assignor to Radio Corporation of America. Cathode ray measuring device. 2,324,851; July 20.

Kolb, Otto K., and D. W. Boston, assignors to British Acoustic Films Limited, London, England. Arrangement for the reproduction of sound. 2,324,781; July 20.

Kolts, Tennies F. (See Bleakley, P. A., and Kolts.)

Kopczynski, John, Buffalo, N. Y. Tool. 2,324,852; July 20.

Korte, Herman R., Fort Wayne, Ind., assignor to General Electric Company. Core clamp. 2,324,853; July 20.

Knapp-Monarch Company. (See Ward, Lawrence T., assignor.)

Kroeper, Hugo, Heidelberg, and H. Haussmann, Mannheim, Germany; vested in the Alien Property Custodian. Condensation of cyanocarboxylic acid with polyamine. 2,324,936; July 20.

Krogh, Peter O., assignor to Superior Coach Corporation, Lima, Ohio. Leveling means for vehicle bodies. 2,324,587; July 20.

Kronquest, Alfred L., Syracuse, assignor to Continental Can Company, Inc., New York, N. Y. Container fill checking machine. 2,324,782; July 20.

Kronquest, Alfred L., Syracuse, assignor to Continental Can Company, Inc., New York, N. Y. Surplus fill drawoff means. 2,324,783; July 20.

Kropf, Henry W., assignor to Brickner-Kropf Machine Company, Muskegon Heights, Mich. Adjustable grinding wheel dresser. 2,324,937; July 20.

Krueger, Otto J., Western Springs, and J. Caresio, Chicago, Ill., assignors to Masonite Corporation. Drying of distended fibrous products. 2,324,519; July 20.

Kubaugh, Le Roy M., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Rail insulator. 2,324,993; July 20.

Kuhn, Max O., Cuyahoga Falls, assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Apparatus for expanding and shaping annular articles. 2,324,982; July 20,

Kuhn, Max O., Cuyahoga Falls, assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Welding apparatus. 2,325,000; July 20.

Kunze, Wilhelm. (See Zerweck, W., and Kunze.)

Kurtz, Peter, J. Casper, and H. Schwarz, Leverkusen-Wiesdorf, Germany; vested in the Alien Property Custodian. Separation of acrylic acid nitrile. 2,324,854; July 20.

Lambach, Fritz, Fairview, N. J. Electrical control system for warping or beaming plants. 2,324,611; July 20.

Lambach, Fritz, Fairview, N. J. Warping or beaming machine. 2,324,612; July 20.

Lamson, Otis F., Seattle, Wash. Apparatus and method for closing abnormal openings in wall-like members of the anatomy. 2,324,520; July 20.

Lane, Norman B., Englewood, W. S. Mingle, Leonia, and H. H. Colson, Teaneck, N. J., assignors to Aluminum Company of America, Pittsburgh, Pa. Coil handling system and method. 2,324,855; July 20.

Lannerd, Paul U. (See Collinson, E. E., and Lannerd.)

Larsen, Agnew E., Jenkintown, assignor to Autogiro Company of America, Willow Grove, Pa. Rotative winged aircraft. 2,324,588; July 20.

Laughlin, Kenneth C. (See Calhoun, V. B. and Laughlin.)

Lavino, E. J., and Company. (See Seil, Gilbert E., assignor.)

Leary, Dorothy H., Waterbury, Conn. Maternity nightgown. 2,324,856; July 20.

Lee, Clarence B., and C. W. Wallhausen, Morristown, N. J., assignors to United States Radium Corporation, New York, N. Y. Luminous marker. 2,324,521; July 20.

Legge, Elmer E., West Hartford, Conn. Patenting steel. 2,324,630; July 20.

Leskiewicz, Stanley, assignor to North Shore Cutting Dies Company, Lynn, Mass. Cutting die. 2,324,857; July 20.

Le Tourneau, R. G., Inc. (See Hyler, Loiell L., assignor.)

Levine, Samuel J., Verona, N. J., assignor to General Electric Company. Outlet grille for air conditioning apparatus. 2,324,858; July 20.

Lieber, Eugene, Staten Island, N. Y., assignor to Standard Oil Development Company. Condensation product and preparing and using same. 2,324,784; July 20.

Liedholm, George E., Scarsdale, N. Y., assignor to Shell Development Company, San Francisco, Calif. Production of gasoline. 2,324,708; July 20.

Lily of France Corset Company. (See Berdach, Sophie, assignor.)

Linaker, Frederick W., Forest Hills, N. Y. Soot cleaner. 2,324,785; July 20, 1943.

Lind, Alex. (See Westberg, Erik, assignor.)

Lindemuth, Lewis B., Port Washington, N. Y. Ingot mold. 2,324,786; July 20.

Lindley Box & Paper Company. (See Lindley, Harry H., assignor.)

Lindley, Harry H., assignor to Lindley Box & Paper Company, Marion, Ind. Pressure resisting waterproof buoyant container. 2,324,709; July 20.

Lion Oil Rening Company. (See Allinson, John J., assignor.)

Livar, Allen P., Dayton, Ohio, assignor to Chrysler Corporation, Detroit, Mich. Wall panel for furnace jackets or the like. 2,324,710; July 20.

Lofgren, Gustaf E., Riverside, Conn., assignor to Electrolux Corporation, Dover, Del. Cord-winding device. 2,324,711; July 20.

Logemann, Willy, Berlin-Friedenau, and W. Hildebrand, Berlin-Pankow, Germany, assignors to Schering Corporation, Bloomfield, N. J. Manufacture of ketones of the cyclopentano polyhydrophenanthrene series. 2,324,522; July 20.

Lohrand, William Q., Barberton, and C. H. Whitlock, assignors to The Firestone Tire & Rubber Company, Akron, Ohio. Molding plastics. 2,324,978; July 20.

Love, Harry J., Washington, D. C. Method and mechanism for recovering metal. 2,324,938; July 20.

Lund, Arthur D., Minneapolis, Minn., assignor to Solar Corporation, Milwaukee, Wis. Machine for assembling storage battery plates and separators. 2,324,523; July 20.

Lundgren, Eric, Braddock Heights, Md., assignor to E. B. & A. C. Whiting Company, Burlington, Va. Method of and apparatus for dusting fibrous material. 2,324,787; July 20.

Lynch, Kathryn L., Riverside, Conn., assignor to American Cyanamid Company, New York, N. Y. Dialkyl esters of N-substituted aspartic acid and preparing the same. 2,324,712; July 20.

Lytle, Robert W., Cincinnati, Ohio, assignor to The Formica Insulation Company. Electroconductive wheel. 2,324,589; July 20.

Macan, Harry C., Rutherford, N. J., assignor to Anaconda Copper Mining Company, New York, N. Y. Protecting electrodeposited metal surfaces. 2,324,859; July 20.

Machlett Laboratories Incorporated. (See Cooke, Herbert S., assignor.)

MacIver, Charles P. (See Beckwith, E. L., and MacIver.)

Mannigel, Albert L., New South Wales, Australia. Toy firearm. 2,324,860; July 20.

Manuel, Robert W. (See Schrohe, R. H., and Manuel.)

Marinsky, Davis, assignor of one-half to L. H. Morin, Bronx, N. Y. Automatic lock slider. 2,324,788; July 20.

Marks, Harry. (See Beene, H. C., Marks, and Mitchell.)

Marmon-Herrington Company. (See Harrington, Arthur W., assignor.)

Marmon-Harrington Company. (See Schon, Pierre, assignor.)

Marsac, Leonard C., Cranford, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Feeding mechanism for sewing machines. 2,324,861; July 20.

Masonite Corporation. (eSe Krueger, O. J., and Caresio, assignors.)

Martin, Russell, assignor to The Coleman Lamp and Stove Company, Wichita, Kans. Floor furnace. 2,324,862; July 20.

Maurer, J. A., Inc. (See Maurer, John A., Jr., assignor.)

Maurer, John A., Jr., New York, N. Y., assignor, by mesne assignments, to J. A. Maurer, Inc. Reduction of stray light. 2,324,632; July 20.

May, John H., assignor to Cranston Print Works Company, Cranston, R. I. Printing machine pressure cylinder. 2,324,631; July 20.

Mayers, Horace C. (See Shaw, William F., assignor.)

Mayeux, Dandy J., Philadelphia, Pa. Midget toothbrush. 2,324,789; July 20.

McCann, Ronald A., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway traffic controlling apparatus. 2,324,939; July 20.

McCarthy, Harry, and J. R. Brasel, Kewanee, Ill., assignors to Walworth Patents Inc., Boston, Mass. Locking device. 2,324,633; July 20.

McClintock, John H., Cranford, N. J., assignor to Standard Oil Development Company. Sweetening of hydrocarbon oils. 2,324,790; July 20.

McCreary, Harold J., Lombard, Ill. Electromagnetic inductance apparatus. 2,324,634; July 20.

McCurdy, Horace L., Keene, assignor to W. E. Abbas, Cleburne, Tex. Carburetor. 2,325,010; July 20.

McFarland, Forest R. (See Griswold, W. R., and McFarland.)

McFarland, Forest R., Huntington Woods, assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 2,324,713; July 20.

McGovern, Van A., and E. R. Gruchow, Waterloo, Wis. Control system. 2,324,940; July 20.

McGowan, Harold, Central Islip, assignor of one-half to B. Raskin, Brightwaters, N. Y. Apparatus for forming one-piece plywood corner units. 2,324,714; July 20.

McKee, Clara M. (See Rake, G. W., Shaffer, and McKee.)

McKeown, John L., Winnetka, Ill. Game. 2,324,941; July 20.

McLaughlin, Francis M., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Collapsible form 2,325,001; July 20.

Meeson, Edwin L., and J. I., London, England. Grinding wheel dressing tool. 2,324,942; July 20.

Meeson, John I. (See Meeson, Edwin L. and J. I.)

Merchant, John S., Cuyahoga Falls, Ohio. Bearing. 2,324,863; July 20.

Mercier, Jean, Neuilly-sur-Seine, France; vested in the Alien Property Custodian. Pump. 2,324,524; July 20.

Metcalf, Arthur G. B., Milton, Mass., assignor to North American Holding Corporation, Syracuse, N. Y. Grading machine. 2,325,011; July 20.

Meyer, Edward B., Cleveland, Ohio. Implement handling mechanism. 2,324,635; July 20.

Meyer, William, East Orange, assignor to A. W. Wheaton Brass Works, Newark, N. J. Hose coupling. 2,324,792; July 20.

Miller, Carroll E., assignor to Cone Automatic Machine Company Inc., Windsor, Vt. End working tool mechanism. 2,325,012; July 20.

Miller, Louis G., and W. H. Statler, Bethlehem, Pa., assignors to Bethlehem Steel Company. Four-wheel truck for mine cars. 2,324,943; July 20.

Miller, Raymond S. (See Gardiner, D. B., and Miller.)

Milligan, Chester E., Cincinnati, Ohio, assignor to Electro Refractories & Alloys Corporation, Lackawanna, N. Y. Crucible furnace. 2,324,864; July 20.

Milligan, Verba A., Pasadena, Tex., assignor to Sinclair Refining Company, New York, N. Y. Tube caliper. 2,324,865; July 20.

Millwood, William H., Inverness, Scotland. Electric flash welding machine. 2,324,944; July 20.

Minard, Everett S., San Francisco, Calif., assignor, by mesne assignments to The Pfaudler Co., Rochester, N. Y. Valve structure. 2,324,793; July 20.

Minard, Everett S., San Francisco, Calif., assignor, by mesne assignments, to The Pfaudler Co., Rochester, N. Y. Capping machine. 2,324,794; July 20.

Minard, Everett S., San Francisco, Calif., assignor, by mesne assignments, to The Pfaudler Co., Rochester, N. Y. Liquid filling machine. 2,324,795; July 20.

Miner, Irving O., East Providence, assignor to Builders Iron Foundry, Providence, R. I. Electromagnetic clutch apparatus. 2,324,590; July 20.

Mingle, William S. (See Lane, N. B., Mingle, and Colson.)

Minneapolis-Honeywell Regulator Company. (See Gille, W. H., and Sigford, assignors.)

Minneapolis-Honeywell Regulator Company. (See Peterson, Clarence L., assignor.)

Minnesota and Ontario Paper Company. (See Woodward, Hobart F., assignor.)

Miollis, Raymond, Elmwood Park, Ill. Method and apparatus for cheese making. 2,324,636; July 20.

Mistacu, Evangle, assignor to Mina Mistacu, St. Louis, Mo. Ball-racking counter. 2,324,945; July 20.

Mistacu, Mina. (See Mistacu, Evangle, assignor.)

Mitchell, David L. (See Beene, H. C., Marks, and Mitchell.)

Mittelmann, Engen, Chicago, Ill. Method of and apparatus for heat treating metal. 2,324,525; July 20.

Molloy, James F., Oakland, Calif. Retarded self-closing faucet. 2,324,946; July 20.

Monogram Manufacturing Co. (See Wallace, Frank C., assignor.)

Moor, William C., Fort Worth, Tex., assignor to The Jeffrey Manufacturing Company. Liquid screening apparatus. 2,324,637; July 20.

Moore, Henry T. (See Carruthers, E. H., and Moore.)

Moreton, Henry H. (See Dickinson, H. R. and Moreton.)

Morgan, Richard W. (See McLoughlin, H. F., Hill, Morgan, and Wintle.)

Morgenthaler, Max R., Vevey, Switzerland, assignor to Inredeco, Inc., Panama City, Panama. Manufacture of soluble dry extracts. 2,324,526; July 20.

Morin, Louis H. (See Marinsky, Davis, assignor.)

Morris, Herbert, Limited. (See Bratley, Morriss J., assignor.)

Morrison, Willard L., Lake Forest, Ill. Refrigerating apparatus. 2,324,527; July 20.

Morse Bros. Machinery Company. (See Wigton, Paul L., assignor.

Morse Chain Company. (See Perry, David B., assignor.)

Moss, Cresap M., Salt Lake City, Utah, assignor to Chicago Development Company, Chicago, Ill. Copper-aluminum-manganese alloy. 2,324,528; July 20.

Moss, Eric B., London, assignor to S. Smith & Sons (Motor Accessories) Limited, Cricklewood, London, England. Pneumatic pressure head. 2,325,018; July 20.

Mott, Carl W., La Grange, Ill., assignor to International Harvester Company. Hydraulic lifting arrangement. 2,324,866; July 20.

Mott, Carl W., La Grange, and H. P. Smith, Canton, Ill., signors to international Harvester Company. Movable means for tractor mounted implements. 2,324,867; July 20.

Mott, Carl W., La Grange, Ill., assignor to International Harvester Company. Two-way plow. 2,324,868; July 20.

Moxley, William M., Kansas City, Mo. Multiple switch, multiple bulb electric lantern. 2,324,715; July 20.

Musher Foundation, Incorporated. (See Musher, Sidney, assignor.)

Musher, Sidney, assignor to Musher Foundation, Incorporated, New York, N. Y. Manufacture of paper and board. 2,324,529; July 20.

Mu Switch Corporation. (See Nordberg, Ernst A., assignor.)

Nash-Kelvinator Corporation. (See Benzick, A., and Rusch, assignors.)

Nash-Kelvinator Corporation. (See Huber, John S., assignor.)

Naucléer, Johan, O. (See Persson, A. R., and Naucléer.)

Neptune Meter Company. (See Soper, Henry F., assignor.)

Neptune, Vincent, Brookline, Mass. Carrier and dispenser for strip material in roll form. 2,324,796; July 20.

Newhouse, Walter F., and L. M. Hile, assignors to Saranac Patents Holding Company, Benton Harbor, Mich. Machine for forming loops on the ends of the wires of wire-bound boxes. 2,324,530; July 20.

New York Railroad Company. (See Hamilton, W. S. H., and Rowell, assignors.)

Nicou, Hans T. (See Ekman, Olof I. H.)

Nik-O-Lok Company,The. (See Frazier, Sherman W., assignor.)

Nohl, Max E., Milwaukee, Wis. Respiratory apparatus. 2,324,716; July 20.

Nordberg, Ernst A., Sharon, assignor to Mu Switch Corporation, Canton, Mass. Switch. 2,324,798; July 20.

Nordquist, Ronald E. J., Maplewood, N. J., assignor to American Can Company, New York, N. Y. Conveying mechanism. 2,324,531; July 20.

No Rewind Reel Corp. (See Wandel, Barney, assignor.)

Norris Products. (See Eberts, Dwight L., assignor.)
North American Holding Corporation. (See Metcalf, Arthur G. B., assignor.)
North Shore Cutting Dies Company. (See Leskiewicz, Stanley, assignor.)
Norton Company. (See Silven, Herbert A., assignor.)
Norton, Edward L., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Differentiating amplifier. 2,324,797; July 20.
Novak, Louis V., Sioux City, Iowa. Beef carcass prop. 2,324,717; July 20.
Noxon, Paul A., Tenafly, assignor to Bendix Aviation Corporation, Bendix, N. J. Compass compensating means. 2,324,718; July 20.
O'Brien, Robert J., Chicago, Ill. Bar spacer. 2,324,719; July 20.
O'Connor, Arthur F., assignor to Union Asbestos & Rubber Company, Chicago, Ill. Convertible bulkhead for refrigerator cars. 2,324,720; July 20.
O'Connor, Arthur F., assignor to Union Asbestos & Rubber Company, Chicago, Ill. Convertible bulkhead for refrigerator cars. 2,324,721; July 20.
O'Connor, James P., Dublin, Eire. Automatic means for controlling sliding members. 2,324,799; July 20.
O'Connor, Joseph J., Toronto, Ontario, Canada. Kit bag handle and lock. 2,324,638; July 20.
Odatto, George B., Cleveland, and W. J. Wesseler, East Cleveland, Ohio, assignors to themselves, as joint trustees. Mechanical movement. 2,325,013; July 20.
Ohio Carbon Company, The. (See Stoffel, Lester L., assignor.)
Oilgear Company, The. (See Wiedmann, Ernest, assignor.)
Olson, Charles E., Bridgeport, Conn. Shoe. 2,324,591; July 20.
Olson, Elmer, Detroit, Mich., assignor to G. M. and E. H. Holley. Heat control. 2,324,592; July 20.
Öman, Erik, Stocksund, Sweden. Apparatus for separating solution from a mixture of solution and ice crystals. 2,324,869; July 20.
Orelind, John R., Evanston, Ill., assignor to International Harvester Company. Agricultural implement. 2,324,870; July 20.
Orelind, John R., Evanston, and A. G. Evans, Canton, Ill., assignors to International Harvester Company. Tractor-mounted implement. 2,324,871; July 20.
Osgood, Charles F., Jr. (See Watt, B. L., and Osgood.)
Owatonna Tool Company. (See Kaplan, Reuben A., assignor.)
Owens, Claude P. (See Capps, Sidney E., assignor.)
Pacific Machinery Company. (See Burling, Ethel O., assignor.)
Pacific Railway Equipment Company. (See Wieden, Herbert J., assignor.)
Packard Motor Car Company. (See Griswold, W. R., and McFarland, assignors.)
Packard Motor Car Company. (See Hoffman, Roscoe C., assignor.)
Packard Motor Car Company. (See McFarland, Forest R., assignor.)
Papierniak, Stanley, Amsterdam, N. Y. Sport jacket. 2,324,722; July 20.
Paradise, Raymond P., Indianapolis, Ind. Irrigating pipe oscillator. 2,324,947; July 20.
Parker, Arthur L., Cleveland, Ohio. Valve for fuel tanks. 2,324,464; July 20.
Parker, George W., Jr., assignor to Specialty Engineering Company, Philadelphia, Pa. Advertising sign. 2,324,872; July 20.
Parlini, Alexander C. (See Jackson, C. S., Parlini, and Hascher.)
Parry, Frank, Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Feeding mechanism for sewing machines. 2,324,873; July 20.
Pass & Seymour, Inc. (See Despard, Victor R., assignor.)
Pasternack, Richard, Brooklyn, and E. V. Brown, Cold Spring Harbor, assignors to Charles Pfizer & Company, Brooklyn, N. Y. Purification of riboflavin. 2,324,800; July 20.
Patton, Matthew W., Portland, Oreg. Pollination of trees. 2,324,801; July 20.
Paul, John E., South Orange, N. J., assignor to United States Radium Corporation, New York, N. Y. Luminescent marker. 2,324,532; July 20.
Paulsen, Henry C., Elizabeth, N. J., assignor to Standard Oil Development Company. Refining petroleum oils. 2,324,948; July 20.
Pavia, Luigi, Allentown, Pa. Shuttle threading and tension mechanism. 2,324,949; July 20.
Pearson, Robert W., and J. Bender, Wilkinsburg, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Cooling means. 2,324,533; July 20.
Pennsylvania Manufacturing Company. (See Hallowell, Howard T., Jr., assignor.)
Pennsylvania Railroad Company, The. (See Sprankle, George D., assignor.)
Perelli-Minetti, Antonio, Delano, Calif. Utilizing grapes and product produced thereby. 2,324,639; July 20.
Perry, David B., assignor to Morse Chain Company, Ithaca, N. Y. Chain. 2,324,640; July 20.
Persson, Alef R., Hedemora, and J. O. Nauclér, Stocksund, Sweden. Purification of sewage. 2,324,593; July 20.
Peters Bros. Rubber Co. (See Jackson, C. S., Parlini, and Hascher, assignors.)
Peters, Fredus N., Evanston, assignor to The Quaker Oats Company, Chicago, Ill. Process and apparatus for treating foodstuffs. 2,324,874; July 20.
Peterson, Carl H., Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey. Spring coiling machine. 2,324,641; July 20.
Peterson, Clarence L., Berkeley, Calif., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Electromagnetic valve operator. 2,324,642; July 20.
Peterson, Justin, Lynn, and F. A. Weigel, East Lynn, Mass., assignors to General Electric Company. Protective device. 2,324,875; July 20.
Petrolite Corporation, Ltd. (See De Groote, M., and Keiser, assignors.)
Pfaudler Co., The. (See Minard, Everett S., assignor.)
Pfizer, Charles & Company. (See Pasternack, R., and Brown, assignors.)
Phelps, George L. (See Duncan, J. K., and Phelps.)
Phillips, John H., Pittsburgh, Pa. Coping tile. 2,324,643; July 20.
Pierce and Stevens, Incorporated. (See Stevens, A. L., and D'Innocenzo, assignors.)
Pierce, John R., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Television transmitter. 2,324,534; July 20.
Pipe Machinery Company, The. (See Robertson, Alexander F., assignor.)
Plaut, Hermann F. (See Barrott, G. M., and Plaut.)
Pointon, John E. (See Baker, B. D., Harber, and Pointon.)
Polin, Herbert S., New York, N. Y. Solvent extraction process. 2,324,594; July 20.
Pollard, Charles E., Jr., Hohokus, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Manufacture of sealed apparatus. 2,324,595; July 20.
Pollock, Jacob. (See Warsher, A., Pollock.)
Powell, Edward, Portland, Oreg. Vaccine injector. 2,324,535; July 20.
Powell, Ernest F., Sutton Coldfield, D. Bulgin, and P. W. Badham, Erdington, Birmingham, England, assignors to Dunlop Tire and Rubber Corporation, Buffalo, N. Y. Vulcanizing rubber articles. 2,324,644; July 20.
Powell, Raymond E., Westfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Soldering device. 2,324,802; July 20.
Powers, John M., and P. W. Russell, Cleveland Heights, Ohio; said Russell assignor to said Powers. Candle and candle section. 2,324,723; July 20.
Pratt, Raymond C., assignor to Transportation Equipment Co., Chicago, Ill. Closure structure. 2,324,536; July 20.
Pratt, William A., Watford, England. Edge trimming means for use in rotary printing presses. 2,324,950; July 20.
Precision Grinding Limited. (See Barrott, G. P., and Plaut, assignors.)
Prehler, William C., Cleveland, Ohio. Apparatus for impregnating and forming fabric tubing. 2,324,645; July 20.
Prendergast, James J., Bay City, R. A. Jones, Midland, and C. F. Gladen, Bay City, assignors to The Dow Chemical Company, Midland, Mich. Composition and coated rod for arc welding magnesium alloys. 2,325,014; July 20.
Process Management Company. (See Turkevich, John, assignor.)
Prosperity Company, The. (See Yanchenko, Basil J., assignor.)
Pyrene Minimax Corporation. (See Ratzer, Arthur F., assignor.)
Quain, Mark, Bronx, N. Y. Revolving laundry assembly unit. 2,324,596; July 20.
Quaker Oats Company, The. (See Peters, Fredus N., assignor.)
Quentin, William R., Schenectady, N. Y., assignor to General Electric Company. Controller operating mechanism. 2,324,876; July 20.
Quigley, John T., Los Angeles, Calif. Self-labeling visible index. 2,324,537; July 20.
Radio Corporation of America. (See Dow, Orville E., assignor.)
Radio Corporation of America. (See Iams, Harley A., and Rose, assignors.)
Radio Corporation of America. (See Koch, Winfield R., assignor.)
Rake, Geoffrey W., Kingston, M. F. Shaffer, and C. M. McKee, New Brunswick, N. J., assignors to E. R. Squibb & Sons, New York, N. Y. Lymphogranuloma venereum antigen and preparing it. 2,324,646; July 20.
Rappl, Anton, Buffalo, and E. C. Horton, Hamburg, assignors to Trico Products Corporation, Buffalo, N. Y. Window operator. 2,324,724; July 20.
Raskin, Bert. (See McGowan, Harold, assignor.)
Ratzer, Arthur F., Hanworth, England, assignor to Pyrene Minimax Corporation, Newark, N. J. Foam stabilizing composition. 2,324,951; July 20.
Ray, William A., Glendale, Calif. Thermal operator. 2,324,647; July 20.

Read, Chester L., Westfield, N. J., assignor to Standard Oil Development Company. Refining of mineral oils. 2,324,952; July 20.
Reed, Claude D., Lebanon, Pa., assignor to Bethlehem Steel Company. Apparatus for use in the manufacture of nuts. 2,324,953; July 20.
Reeve, Norman H., assignor to Webster Electric Company, Racine, Wis. Communication system. 2,324,877; July 20.
Rein, Herbert. (See Harz, W., Rein, Hubert, and Kayser.)
Remington Arms Company. (See Hentschel, Robert A. A., assignor.)
Revis, W. C., et al. (See Davis, Stephen H., assignor.)
Rich, Frank D., Stamford, Conn. Lavatory fixture. 2,324,725; July 20.
Richmond, Bruce D., Steubenville, Ohio. Cistern construction. 2,324,878; July 20.
Ridbo Laboratories, Inc. (See Auer, László, assignor.)
Riesing, Ellwood F., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Resilient support for pipes and the like. 2,324,992; July 20.
Robertson, Alexander F., South Euclid, assignor to The Pipe Machinery Company, Cleveland, Ohio. Tool for cutting threads. 2,324,879; July 20.
Robinson, Bestor, United States Army, Oakland, Calif. Contraction band. 2,324,538; July 20.
Roeder, Paul F., Brooklyn, N. Y. Cream whipping apparatus. 2,324,648; July 20.
Rogers, Vivian C., Lower Pontnewydd, near Newport, and D. P. Barr, Pontnewydd, near Newport, assignors to Saunders Valve Company, Limited, Cwmbran, England. Valve diaphragm. 2,324,880; July 20.
Rohm & Haas Company. (See Kautter, C. T., and Trommsdorff, assignors.)
Roosen, H. D., Company. (See Bernstein, Isidor M., assignor.)
Rose, Albert. (See Iams, H. A., and Rose.)
Rowell, Kendall B. (See Hamilton, W. S. H., and Rowell.)
Rubissow, George A., New York, N. Y. Molding by pulsating centrifugal force. 2,325,019; July 20.
Rudolf, Edward. (See Budner, Joseph, assignor.)
Ruggiero, Vincent J., North Bergen, N. J. Coffee can filling machine funnel. 2,324,597; July 20.
Runals, William T. (See Allen, R. W., and Runals.)
Runton, Leslie A., Andover, Mass. Sliver forming machine. 2,324,539; July 20.
Rupp, Walter H., Elizabeth, N. J., assignor to Standard Oil Development Company. Refining of mineral oils. 2,324,954; July 20.
Rupp, Walter H., Mountainside, and M. R. Smith, Westfield, N. J., assignors to Standard Oil Development Company. Removing water from hydrocarbon vapors. 2,324,955; July 20.
Rusch, Herman C. (See Benzick, A., and Rusch.)
Russell, Philip W. (See Powers, J. M., and Russell.)
Ruzicka, Leopold, and M. W. Goldberg, Zurich, Switzerland, assignors to Ciba Pharmaceutical Products, Incorporated, Summit, N. J. Tetracyclic compounds and making same. 2,324,881; July 20.
Ryden, Eric H., Bedford, and F. R. Higley, Cleveland Heights, assignors to The Bryant Heater Company, Cleveland, Ohio. Forced air heater. 2,324,540; July 20.
Salfisberg, Leroy L., South Orange, assignor to Ivers-Lee Company, Newark, N. J. Fold-closed package. 2,324,541; July 20.
Salfisberg, Leroy L., South Orange, assignor to Ivers-Lee Company, Newark, N. J. Package with a fold-closed delivery neck. 2,325,021; July 20.
San Joaquin Valley Walnut Growers Association. (See Hight, Herbert S., assignor.)
Saranac Patents Holding Company. (See Newhouse, W. F., and Hile, assignors.)
Sauer, George, Berwyn, assignor to Union Special Machine Company, Chicago, Ill. Sewing machine. 2,324,598; July 20.
Saunders Valve Company. (See Rogers, V. C., and Barr, assignors.)
Sawdey, Neil T., Shaker Heights, Ohio. Automatic steering apparatus. 2,324,882; July 20.
Sawyer, Emerson D., Chicago, Ill. Yielding barrier net. 2,324,726; July 20.
Scarlett, Arthur A., Hamilton, Ontario, Canada, assignor, by mesne assignments, to International Harvester Company, Chicago, Ill. Rod weeder shoe. 2,324,883; July 20.
Schenker, Abraham W. (See Bierman, W., and Schenker.)
Schering Corporation. (See Logemann, W., and Hildebrand, assignors.)
Schiff, Martin, Webster Groves, assignor to Century Electric Company, St. Louis, Mo. Alternating current motor. 2,324,728; July 20.
Schneider, George. (See Dreyfus, C., and Schneider.)
Schneider, Wilhelm. (See Frölich, A., and Schneider.)
Schon, Pierre, assignor to Marmon-Herrington Company, Inc., Indianapolis, Ind. Dual transmission control. 2,324,542; July 20.
Schorn, Carl F., Detroit, Mich., assignor to G. M. and E. Holley. Pressure carburetor. 2,324,599; July 20.

Schrohe, Robert H., and R. W. Manuel, assignors to Crane Co., Chicago, Ill. Sealing compound. 2,324,729; July 20.
Schuessler, L. Ray. (See Hamilton, Francis C., assignor.)
Schwarz, Herbert. (See Kurtz, P., Casper, and Schwarz.)
Schweitzer, Milton A. (See Bombard, Charles P., assignor.)
Scott, Joseph E., Pratt, Kans. Electric lighting means and control therefor. 2,324,600; July 20.
Scott, William M., Jr., Bryn Mawr, assignor to I. T. E. Circuit Breaker Company, Philadelphia, Pa. Enclosed circuit breaker operating mechanism. 2,324,543; July 20.
Secrest, William J., Cuyahoga Falls, assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Control system. 2,324,987; July 20.
Seidler, Rudolf. (See Klein, H., Seidler, and Stoewener.)
Sell, Gilbert E., Cynwyd, Pa., assignor to E. J. Lavino and Company, Philadelphia, Pa. Brick press liner. 2,324,884; July 20.
Servel, Inc. (See Ashby, Carl T., assignor.)
Sewall Paint & Varnish Company. (See Weissert, Gerald E., assignor.)
Sewell, Benjamin W., Tulsa, Okla., assignor to Standard Oil Development Company. Borehole tool. 2,324,956; July 20.
Shaffer, Morris F. (See Rake, G. W., Shaffer, and McKee.)
Sharp, Ewing L., assignor to Victory Switch Co., Hollywood, Calif. Delay action mechanism for snap switches. 2,324,730; July 20.
Sharples Corporation, The. (See Carruthers, E. H., assignor.)
Sharples Corporation, The. (See Carruthers, E. H., and Moore, assignors.)
Sharples Corporation, The. (See Jones, Leo D., assignor.)
Shartle, Robert A., Rockford, Ill., assignor to Vickers Incorporated, Detroit, Mich. Power transmission. 2,324,727; July 20.
Shaw, Markworth A., Vancouver, British Columbia, Canada. Expansion bit. 2,325,020; July 20.
Shaw, William F., assignor of one-half to H. C. Mayers, Rocky River, Ohio. Calculating device. 2,324,957; July 20.
Shell Development Company. (See Haffner, H. J., Siegelman, and von Fuchs, assignors.)
Shell Development Company. (See Liedholm, George E., assignor.)
Sherrill, Clarence O., Cincinnati, Ohio. Motor vehicle windshield sticker. 2,324,885; July 20.
Shinn, Byron H., Butler, Pa., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Gravity operable valve. 2,324,999; July 20.
Siegelman, George A. (See Haffner, H. J., Siegelman, and von Fuchs.)
Sigford, John V. (See Gille, W. H., and Sigford.)
Silven, Herbert A., assignor to Norton Company, Worcester, Mass. Grinding machine steady rest. 2,324,958; July 20.
Simmonds, Oliver E., Ripley, England. Self-locking nut and like internally screw-threaded member. 2,324,731; July 20.
Sinclair Refining Company. (See Milligan, Verba A., assignor.)
Singer Manufacturing Company, The. (See Hale, A. N., assignor.)
Singer Manufacturing Company, The. (See Marsac, Leonard C., assignor.)
Singer Manufacturing Company, The. (See Parry, Frank, assignor.)
Slack, Frederic W., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Power transmission. 2,324,732; July 20.
Sloane-Blabon. (See Frederick, R. R., and Awot, assignors.)
Sloane-Blabon. (See Frederick, W. B., and Kelly, assignors.)
Sloane-Blablon. (See Gans, Fred W., assignor.)
Smirl, Richard L., Bellwood, assignor to Borg-Warner Corporation, Chicago, Ill. Transmission. 2,324,733; July 20.
Smith, Hiram P. (See Mott, C. W., and Smith.)
Smith, Milton R. (See Rupp, W. H., and Smith.)
Smith, Nelson J., assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,324,649; July 20.
Smith, S., & Sons (Motor Accessories) Limited. (See Moss, Eric B., assignor.)
Snyder, La Verne S., Baltimore, Md. Work holder. 2,324,803; July 20.
Socony-Vacuum Oil Company. (See Clewell, Dayton H., assignor.)
Solar Corporation. (See Lund, Arthur D., assignor.)
Soper, Gilbert V., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Bicycle seat. 2,324,976; July 20.
Soper, Henry F., East Orange, N. J., assignor to Neptune Meter Company. Dispensing apparatus and interlocking mechanism therefor. 2,324,734; July 20.
Sowders, Andy, Trosper, Ky. Well tool. 2,324,886; July 20.

Spanagel, Edgar W., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Sizing. 2,324,601; July 20.

Spanel, Abraham N., New York, N. Y. Composite rubber article and producing same. 2,324,735; July 20.

Specialty Engineering Company. (See Parker, George W., Jr., assignor.)

Spreicher, John K., Newark, assignor to Hercules Powder Company, Wilmington, Del. Static-free sheeting. 2,324,887; July 20.

Spence Engineering Company. (See Spence, Paulsen, assignor.)

Spence, Paulsen, East Orange, N. J., assignor to Spence Engineering Company, Inc., Walden, N. Y. Hot-water system. 2,324,736; July 20.

Sprankle, George D., Lower Merion Township, Montgomery County, assignor to The Pennsylvania Railroad Company, Philadelphia, Pa. Locomotive hose connection. 2,324,602; July 20.

Square D. Company. (See Angst, Walter, assignor.)

Squibb, E. R., & Son. (See Rake, G. W., Shaffer, and McKee, assignors.)

Standard Alcohol Company. (See Beamer, Clayton M., assignor.)

Standard Oil Development Company. (See Arthur, Marion A., assignor.)

Standard Oil Development Company. (See Calhoun, V. B., and Laughlin, assignors.)

Standard Oil Development Company. (See Donlan, Theodore R., assignor.)

Standard Oil Development Company. (See Heilman, William O., assignor.)

Standard Oil Development Company. (See Kass, Charles B., assignor.)

Standard Oil Development Company. (See Lieber, Eugene, assignor.)

Standard Oil Development Company. (See McClintock, John H., assignor.)

Standard Oil Development Company. (See Paulsen, Henry C., assignor.)

Standard Oil Development Company. (See Read, Chester L., assignor.)

Standard Oil Development Company. (See Rupp, Walter H., assignor.)

Standard Oil Development Company. (See Rupp, W. H., and Smith, assignors.)

Standard Oil Development Company. (See Sewell, Benjamin W., assignor.)

Standard Railway Equipment Manufacturing Company. (See Gilpin, Garth G., assignor.)

Statler, Walter H. (See Miller, L. G., and Statler.)

Stepanoff, Alexey J., Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Controlling device for pumps. 2,324,650; July 20.

Stevens, Arthur L., and H. J. D'Innocenzo, assignors to Pierce and Stevens, Incorporated, Buffalo, N. Y. Flash bulb. 2,324,959; July 20.

Stevens, Horace D., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Apparatus for tire production. 2,324,985; July 20.

Stevens, Richard H., and T. Wilson, Baltimore, Md., assignors to Bethlehem Steel Company. Cutting pipe. 2,324,737; July 20.

Stewart, Clarence R. G., La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Making copper powder. 2,324,960; July 20.

Stewart-Warner Corporation. (See Whitted, John B., assignor.)

Stieglitz, Henry M., assignor to Frank Adam Electric Company, St. Louis, Mo. Hinged cover for electrical apparatus. 2,324,738; July 20.

Stites, Joseph D., New York, N. Y. Reinforcing bar. 2,324,651; July 20.

Stoewener, Fritz. (See Klein, H., Seidler, and Stoewener.)

Stoffel, Lester L., Lakewood, assignor to The Ohio Carbon Company, Cleveland, Ohio. Resistor. 2,324,961; July 20.

Stoker, Robert J., Gary, Ind., assignor to Carnegie-Illinois Steel Corporation. Apparatus for continuously conditioning conveyer rolls. 2,324,652; July 20.

Stoops, William N., Charleston, and W. A. Denison, South Charleston, W. Va., assignors to Carbide and Carbon Chemicals Corporation. Enamel coating. 2,324,739; July 20.

Stoops, William N., Charleston, and W. A. Denison, South Charleston, W. Va., assignors to Carbide and Carbon Chemicals Corporation. Stabilized liquid coating composition. 2,324,740; July 20.

Storey, Eugene W., Philadelphia, Pa. Shoelace fastening device. 2,324,962; July 20.

Strobel, Rudolph W., Stephentown, N. Y., assignor to General Electric Company. Electric switch. 2,324,888; July 20.

Strobel, Samuel, Chicago, Ill. Combination toolholder for lathes. 2,324,603; July 20.

Studebaker Corporation, The. (See Butzbach, Orville K., assignor.)

Summit Mold & Machine Company, The. (See Brundage, James W., assignor.)

Superior Coach Corporation. (See Krogh, Peter O., assignor.)

Susskind, Julius, Brookline, assignor of one-half to H. Freedman, Boston, Mass. Making shoe heels. 2,324,889; July 20.

Sutliffe, Frank C., Mill Valley, and R. Ashley, Almonte, assignors to Air Balance Instrument Co., San Francisco, Calif. Valve and gauge. 2,324,544; July 20.

Svabek, John E., Jr., assignor to Crane Co., Chicago, Ill. Swinging spout for faucets. 2,324,741; July 20.

Svirsky, Bennett, Los Angeles, Calif. Pipe plug. 2,324,545; July 20.

Svoboda, Antonin, Forest Hills, assignor to Abax Corporation, New York, N. Y. Method and means for determining altitude. 2,324,604; July 20.

Syncro Machine Company. (See Fantone, Charles B., assignor.)

Taylor, Lester M., Dayton, Ohio. Automatic form generating machine. 2,324,546; July 20.

Temple, George W., Flushing, assignor to Victor Metal Products Corporation, Brooklyn, N. Y. Collapsible tube spraying machine. 2,324,890; July 20.

Thomas, Elmer R., Healdton, Okla., and D. Erickson, deceased; S. E. Erickson, executrix; said S. E. Erickson, executrix, assignor to H. L. and H. K. Ayers, comprising the partnership of Wichita Wire & Iron Company, Wichita Falls, Tex. Pull rod connection. 2,324,963; July 20.

Thompson, Howard A., Edgewood, assignor to The Union Switch & Signal Company, Swissvale, Pa. Coded track circuit for railway train detection. 2,324,964; July 20.

Thumim, Carl, Yeadon, Pa., assignor to General Electric Company. Electric circuit interrupter. 2,324,891; July 20.

Tinnerman, George A., assignor to Tinnerman Products, Inc., Cleveland, Ohio. Sheet metal adjusting nut or the like. 2,324,653; July 20.

Tinnerman, George A., and G. A. Hansman, assignors to Tinnerman Products, Inc., Cleveland, Ohio. Wall construction. 2,324,654; July 30.

Tinnerman Products, Inc. (See Tinnerman, George A., assignor.)

Tinnerman Products, Inc. (See Tinnerman, G. A., and Hansman, assignors.)

Tornberg, Isidor. (See Chilsom, F., and Tornberg.)

Tozer, Clayton N., Julian, Calif. Funnel support. 2,324,655; July 20.

Transportation Equipment Co. (See Pratt, Raymond C., assignor.)

Trico Products Corporation. (See Rappl, A., and Horton, assignors.)

Trommsdorff, Ernest. (See Kautter, C. T., and Trommsdorff.)

Turkevich, John, Princeton, N. J., assignor to Process Management Company, Inc., Wilmington, Del. Hydrocarbon conversion. 2,325,015; July 20.

Turner, William E., Summerville, Ga. Liquid dispenser. 2,324,965; July 20.

Tweedale, Ralph L. (See Finlayson, W. G., Twyman, and Tweedale.)

Tweedale, Ralph L. (See Harrington, F. T., and Tweedale.)

Twyman, Raymond. (See Finlayson, W. G., Twyman, and Tweedale.)

Union Asbestos & Rubber Company. (See O'Connor, Arthur F., assignor.)

Union Special Machine Company. (See Sauer, George, assignor.)

Union Switch & Signal Company, The. (See Crago, Paul H., assignor.)

Union Switch & Signal Company, The. (See McCann, Ronald A., assignor.)

Union Switch & Signal Company, The. (See Thompson, Howard A., assignor.)

United Shoe Machinery Corporation. (See Brandt, Francis L., assignor.)

United Shoe Machinery Corporation. (See Cummings, Roy W., assignor.)

United Shoe Machinery Corporation. (See Jorgensen, Bernhardt, assignor.)

United States Automatic Box Machinery Co. (See Cote, Omer E., assignor.)

United States Automatic Box Machinery Co. (See Wentz, Oscar W., assignor.)

United States Gauge Company. (See Klein, M., and Grauel, assignors.)

United States Gypsum Company. (See Duncan, J. K., and Phelps, assignors.)

United States Radium Corporation. (See Lee, C. B., and Wallhausen, assignors.)

United States Radium Corporation. (See Paul, John E., assignor.)

Universal Oil Products Company. (See Barnes, Marion W., assignor.)

Urquhart, Radcliffe M., Montgomeryville, Pa. Apparatus for making cellular masses. 2,324,605; July 20.

Vacuum Concrete, Inc. (See Billner, Karl P., assignor.)

Van Gelderen, John, Union City, N. J. Apparatus for cleaning tanks. 2,324,804; July 20.

Vickers Incorporated. (See Finlayson, W. G., Twyman, and Tweedale, assignors.)

Vickers Incorporated. (See Gardiner, D. B., and Miller, assignors.)

Vickers Incorporated. (See Harrington, F. T., and Tweedale, assignors.)

Vickers Incorporated. (See Herman, Kenneth R., assignor.)

Vickers Incorporated. (See Shartle, Robert A., assignor.)

Victor Metal Products Corporation. (See Temple, George W., assignor.)

Victory Switch Co. (See Sharp, Ewing L., assignor.)

Vincent, Cranston G., Kansas City, Mo. Pessary. 2,324,656; July 20.

Von Fuchs, George H. (See Haffner, H. J., Siegelman, and von Fuchs.)

Voorhees, Henry R., Detroit, and G. E. Breeze, assignors to Chrysler Corporation, Highland Park, Mich. Motor vehicle lighting. 2,324,742; July 20.

Wachs, Benjamin, Brooklyn, N. Y. Safety attachment for hand-fed machines. 2,324,806; July 20.

Wagner, Frederick A., Oakland, Calif. Engine cylinder liner and method. 2,324,547; July 20.

Wagner, Walter C., Ardmore, Pa. Flowmeter. 2,324,606; July 20.

Wales, George F., Buffalo, N. Y. Spring mounting for presses. 2,324,657; July 20.

Walker, Dallas E., assignor of one-half to D. E. Walker, Tampa, Fla. Adjustable grille. 2,324,743; July 20.

Walker, Donald E. (See Walker, Dallas E., assignor.)

Wallace, Frank C., assignor to Monogram Manufacturing Co., Los Angeles, Calif. Curling device. 2,324,607; July 20.

Wallhausen, Clarence W. (See Lee, C. B., and Wallhausen.)

Walling, Clyde E., Cleveland, Ohio. Clamping fixture for machine tools. 2,324,608; July 20.

Walsh, David J. (See Joyce, B. P., Brayton, Walsh, and Dardick.)

Walworth Patents Inc. (See McCarthy, H., and Brasel, assignors.)

Wandel, Barney, Boston, Mass., assignor to No Rewind Reel Corp. Adapter for nonrewind expansible film reels. 2,324,658; July 20.

Ward, Lawrence T., Philadelphia, Pa., assignor to Knapp-Monarch Company, St. Louis, Mo. Life belt inflating mechanism. 2,324,744; July 20.

Warren, David, Madawaska, Maine, assignor to Fraser Companies Limited, Edmundston, New Brunswick, Canada. Paper machine slice assembly. 2,325,016; July 20.

Warren, Donald M., Lafayette, Ind. Toy scenery. 2,324,892; July 20.

Warsher, Adolph, Great Neck, and J. Polock, Kew Gardens, N. Y. Paper sputum cup. 2,324,893; July 20.

Watt, Burton L., Marquette, Mich., and C. F. Osgood, Jr., Hohokus, N. J., assignors to General Strapping Corporation, New York, N. Y. Band tightening and sealing tool. 2,324,609; July 20.

Weber, Karl H., Toledo, Ohio. Taping bodies. 2,324,745; July 20.

Webster Electric Company. (See Reeve, Norman H., assignor.)

Weigel, Frederic A. (See Peterson, J., and Weigel.)

Weinert, Malford E. (See Havel, Victor, assignor.)

Weinrich, William W., Oakmont, and J. M. Yost, Sewickley, assignors to Gulf Research & Development Company, Pittsburgh, Pa. Catalytic isomerization of paraffinic hydrocarbons. 2,324,746; July 20.

Weissert, Gerald E., assignor to Sewall Paint & Varnish Company, Kansas City, Mo. Drum rack. 2,324,747; July 24.

Welch, Rodney R., Detroit, Mich. Drill. 2,324,748; July 20.

Wentes, Isaac, Philadelphia, Pa. Knife and scissors sharpener. 2,324,805; July 20.

Wentz, Oscar W., Long Island City, N. Y., assignor to United States Automatic Box Machinery Co., Inc., Roslindale, Mass. Container discharge outlet and releasable closure means therefor. 2,324,807; July 20.

Werring, Walter W. (See Abbott, L. E., and Werring.)

Wesseler, William J. (See Odatto, G. B., and Wesseler.)

Westberg, Erik, Douglas, assignor of one-half to Alex Lind, Williston, N. Dak. Combined memorandum pad and container. 2,324,966; July 20.

Western Electric Company, Incorporated. (See Powell, Raymond E., assignor.)

Western Electric Company, Incorporated. (See Stewart, Clarence R. G., assignor.)

Westinghouse Air Brake Company, The. (See Canetta, J., and Grosswege, assignors.)

Westinghouse Air Brake Company, The. (See Cook, Earle S., assignor.)

Westinghouse Electric & Manufacturing Company. (See Eberhart, Arthur H., assignor.)

Westinghouse Electric & Manufacturing Company. (See Pearson, R. W., and Bender, assignors.)

Westrate, James S., Detroit, Mich. Vehicle jack construction. 2,324,967; July 20.

Wheaton, A. W., Brass Works. (See Meyer, William, assignor.)

Wheeler, Harold A., Great Neck, N. Y., assignor to Hazeltine Corporation. Directive antenna system. 2,324,548; July 20.

White, Alexander R., Port Arthur, Ontario, Canada. Removal of bark from trees. 2,324,968; July 20.

White, Lester M., assignor to Morton White & Co., Vancouver, British Columbia, Canada. Paper roll dispenser. 2,324,969; July 20.

White, Morton, & Co. (See White, Lester M., assignor.)

Whiting, E. B. & A. C., Company. (See Lundgren, Eric., assignor.)

Whitlock, Carl H. (See Lohrand, W. Q., and Whitlock.)

Whitted, John B., Evanston, assignor to Stewart-Warner Corporation, Chicago, Ill. Windshield wiper. 2,324,894; July 20.

Wichita Wire & Iron Company. (See Thomas, E. R., and (Erickson, assignor.)

Wieden, Herbert J., assignor to Pacific Railway Equipment Company, Los Angeles, Calif. Refrigerator system for cars and the like. 2,324,749; July 20.

Wiedmann, Ernest, assignor to The Oilgear Company, Milwaukee, Wis. Control for hydrodynamic machines. 2,324,750; July 20.

Wigton, Paul L., assignor to Morse Bros. Machinery Company, Denver, Colo. Classifier. 2,324,549; July 20.

Williams, Benjamin F., Douglas, Ariz. Pump. 2,324,610; July 20.

Williams, Robert A., Chicago, and W. S. Cochran, Evanston, assignors to Ditto, Incorporated, Chicago, Ill. Sheet trimming and handling device. 2,324,751; July 20.

Wilson, Tom. (See Stevens, R. H., and Wilson.)

Wintle, Thomas D. G. (See McLoughlin, H. F., Hill, Morgan and Wintle.)

Witherow, Harry M., Clifton, Mass., assignor to General Electric Company. Heavy load indicator for watt-hour meters. 2,324,895; July 20.

Wolfe, Herbert J., Maspeth, Long Island, assignor to American Can Company, New York, N. Y. Lithographic printing ink and making the same. 2,324,550; July 20.

Woodington, William E., Washington, D. C. Combination flashlight and testing device. 2,324,661; July 20.

Woodruff, Albert E., Oak Park, assignor to Associated Electric Laboratories, Inc., Chicago, Ill. Telephone system. 2,324,659; July 20.

Woodward, Hobart F., Minneapolis, Minn., assignor, by mesne assignments, to Minnesota and Ontario Paper Company. Wall. 2,324,971; July 20.

Woolley, Louis A., Xenia, Ohio. Exercising device. 2,324,970; July 20.

Wright, Daniel K., Cleveland Heights, Ohio, assignor to General Electric Company. Electric lamp. 2,324,972; July 20.

Wright, Harry. (See Kelsey, R. A., and Wright.)

Yanchenko, Basil J., assignor to The Prosperity Company, Inc., Syracuse, N. Y. Safety control for riveting machines and the like. 2,324,660; July 20.

Yelm, Charles W., assignor to The Gates Rubber Company, Denver, Colo. Picker. 2,324,752; July 20.

Yost, James M. (See Weinrich, W. W., and Yost.)

Young, Leonard P., Chester, Conn. Soldering device. 2,324,973; July 20.

Zerweck, Werner, and W. Künze, Frankfort-on-the-Main-Fechenheim, Germany, assignors to General Aniline & Film Corporation, New York, N. Y. Mixed polymerization products. 2,324,896; July 20.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 20TH DAY OF JULY, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Acids, Polycarboxylic. W. O. Teeters. Re. 22,352; July 20.

Keyboard perforator and counter. L. R. Cook and M. T. Goetz. Re. 22,350; July 20.

Transfer apparatus, Airplane package. R. L. Cooper. Re. 22,351; July 20.

LIST OF DESIGN INVENTIONS

Bassinet and toilet stand or similar article. Baby's. B. A. Doty. 136,011; July 20.

Bottle. R. L. Flett. 136,024; July 20.

Brooch or similar article. E. S. Boudinot. 136,007; July 20.

Brush, Tooth. C. K. Veo. 136,042; July 20.

Card or similar article, Greeting. A. Barker. 136,006; July 20.

Case or similar article, Cigarette. M. L. Goldbert. 136,025; July 20.

Comb, Curler. F. J. Coakley. 136,009; July 20.

Compact or similar article. S. Dawer. 136,010; July 20.

Cribbage board, Trackway. E. N. Brooks. 136,008; July 20.

Dress. S. Bloom. 136,031–2; July 20.

Dress. B. Cashin. 136,034–6; July 20.

Drier, Clothes. H. S. Aaronson. 136,003; July 20.

Fastener, File. M. Pollack. 136,016–17; July 20.

Filter and strainer, Combined. F. Kraissl, Jr. 136,021; July 20.

Firearm. E. G. Reising. 136,041; July 20.

Handbag. B. Kalisher. 136,014; July 20.

Head, Golf club. V. G. Armstrong. 136,005; July 20.

Holder, Broom. E. Allred. 136,004; July 20.

Holder, Match book. S. H. Brooks and M. A. Wright. 136,033; July 20.

Holder, Shaving soap. O. F. Grab. 136,012; July 20.

Kite, Collapsible. H. C. Sauls. 136,018; July 20.

Knife and measuring spoon, Combination paring. S. B. Phillips. 136,022; July 20.

Knife, Kitchen utility. S. B. Phillips. 136,023; July 20.

Light fixture, Bracket supported. R. G. Nordquist. 136,027; July 20.

Lighter, Fluted cigarette. A. S. Weston. 136,029; July 20.

Lighter, Full opening. A. S. Weston. 136,043; July 20.

Pin or similar article of jewelry. R. J. Kleineck. 136,020; July 20.

Protector, Finger nail. J. A. Belmonte and A. E. Shagen. 136,030; July 20.

Rack, Clothes-drying. K. E. Luger. 136,015; July 20.

Ring or the like. W. Lampl. 136,037–9; July 20.

Shaping machine or the like, Attachable. R. F. Bannow and M. Wahlstrom. 136,019; July 20.

Shield, Light. R. G. Nordquist. 136,026; July 20.

Toy boat. F. J. Preeshl. 136,028; July 20.

Toy figure. E. F. Rebholz. 136,040; July 20.

Toy glider. A. Horback. 136,013; July 20.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 20TH DAY OF JULY, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city telephone directory practice).

Abrading device. B. W. Engle. 2,324,918; July 20.

Acoustical treatment. V. Jacobson. 2,324,706; July 20.

Adapter for nonrewind expansible film reels. B. Wandel. 2,324,658; July 20.

Adhesive composition. A. P. d'Andrea. 2,324,680; July 20.

Advertising sign. G. W. Parker, Jr. 2,324,872; July 20.

Aerial railway apparatus. A. Davino. 2,324,487; July 20.

Agricultural implement. J. L. Hipple. 2,324,840; July 20.

Agricultural implement. J. R. Orelind. 2,324,870; July 20.

Air conditioning apparatus. A. H. Eberhart. 2,324,620; July 20.

Aircraft, Rotative winged. A. E. Larsen. 2,324,588; July 20.

Airplane brake. J. W. Hatch. 2,324,979; July 20.

Airplane-cockpit outfit, Educational. S. Gold. 2,324,833; July 20.

Alloy: *See*—
Copper-aluminum-manganese alloy.

Altitudes, Determining. A. Svoboda. 2,324,604; July 20.

Ambulance step. W. B. Johnson. 2,324,507; July 20.

Amplifier, Differentiating. E. L. Norton. 2,324,797; July 20.

Antenna system, Directive. H. A. Wheeler. 2,324,548; July 20.

Anti-anemic concentrates, Preparing. H. L. Keil. 2,324,848; July 20.

Antiglare device. F. A. Brunson. 2,324,469; July 20.

Apparatus and method for closing abnormal openings in wall-like members of the anatomy. O. F. Lamson. 2,324,520; July 20.

Apparatus for aerating viscous liquids. H. W. Greenup and N. Johnston. 2,324,988; July 20.

Apparatus for cleaning tanks. J. Van Gelderen. 2,324,804; July 20.

Apparatus for continuously conditioning conveyer rolls. R. J. Stoker. 2,324,652; July 20.

Apparatus for distilling liquids. J. A. Aiton. 2,324,663; July 20.

Apparatus for expanding and shaping annular articles. M. O. Kuhn. 2,324,982; July 20.

Apparatus for forming one-piece plywood corner units. H. McGowan. 2,324,714; July 20.

Apparatus for freezing foodstuffs. D. W. King. 2,324,517; July 20.

Apparatus for impregnating and forming fabric tubing. W. C. Prehler. 2,324,645; July 20.

Apparatus for making cellular masses. R. M. Urquhart. 2,324,605; July 20.

Apparatus for separating solution from a mixture of solution and ice crystals. E. Oman. 2,324,869; July 20.

Apparatus for striping roadways. P. A. Bleakley and T. F. Kolts. 2,324,478; July 20.

Apparatus for tire production. H. D. Stevens. 2,324,985; July 20.

Apparatus for use in fabricating tunnel lining lighting segments. L. Fine and H. B. Kelchner. 2,324,919; July 20.

Apparatus for use in the manufacture of nuts. C. D. Reed. 2,324,953; July 20.

Applicator and fastening device, Tire chain. V. E. Brady. 2,324,463; July 20.

Applier, Adhesive. C. B. Fantone. 2,324,686; July 20.

Armor plate manufacture. A. L. Abbott. 2,324,808; July 20.

Armored observation unit. A. W. Herrington. 2,324,503; July 20.

Arrangement for the reproduction of sounds. O. K. Kolb and D. W. Boston. 2,324,781; July 20.

Artificial filaments, threads, and the like, Manufacture of. C. Dreyfus and G. Schneider. 2,324,567; July 20.

Assembling machine. H. T. Hallowell, Jr. 2,324,925; July 20.

Attachment for hand-fed machines, Safety. B. Wachs. 2,324,806; July 20.

Attachment for lathes, Milling. M. L. Cripe. 2,324,561; July 20.

Automatic control apparatus. E. H. Hart. 2,324,579; July 20.

Automatic latch. L. F. Harza. 2,324,699; July 20.

Automatic means for controlling sliding members. J. P. O'Connor. 2,324,799; July 20.

Automatic steering apparatus. N. T. Sawdey. 2,324,882; July 20.

Axminster looms, Nose board for. E. J. Dacey. 2,324,564; July 20.

Back for benches, Portable. D. P. Figgins. 2,324,570; July 20.

Bag: *See*—
Sleeping bag.

Bar: *See*—
Reinforcing bar.

Band cutter. R. W. Allen and S. V. Carlsten. 2,325,002; July 20.

Band tightening and sealing tool. B. L. Watt and C. F. Osgood, Jr. 2,324,609; July 20.

Bark from trees, Removal of. A. R. White. 2,324,968; July 20.

Bearing: *See*—
Spindle bearing. Transfer bearing.

Bearing. J. P. Butterfield. 2,324,676; July 20.

Bearing. T. J. Healy. 2,324,700; July 20.

Bearing. J. S. Merchant. 2,324,863; July 20.

Bicycle seat. G. V. Soper. 2,324,976; July 20.

Bit, Expansion. M. A. Shaw. 2,325,020; July 20.

Bituminous emulsions, Preparing a. J. J. Allinson. 2,324,473; July 20.

Blind, Venetian. E. L. Beckwith and C. P. MacIver. 2,325,003; July 20.

Board: *See*—
Wind board.

Bobbin delivery control for weft magazines. M. Daniels. 2,324,565; July 20.

Boiler mounting. R. C. Hopkins. 2,324,626; July 20.

Borehole tool. B. W. Sewell. 2,324,956; July 20.

Bottling machine. F. C. Hamilton. 2,324,578; July 20.

Brake: *See*—
Airplane brake.

Brake valve device. E. S. Cook. 2,324,910; July 20.

Brassière. S. Berdach. 2,324,669; July 20.

Brick press liner. G. E. Seil. 2,324,884; July 20.

Brushmaking machine. J. I. Carlson. 2,324,480–1; July 20.

Building construction. K. P. Billner. 2,324,554; July 20.

Bulb, Flash. A. L. Stevens and H. J. D'Innocenzo. 2,324,959; July 20.

Bulkhead for refrigerator cars, Convertible. A. F. O'Connor. 2,324,720–1; July 20.

Bullet. R. R. Clark. 2,324,678; July 20.

Calculating device. W. F. Shaw. 2,324,957; July 20.

Caliper, Tube. V. A. Milligan. 2,324,865; July 20.

Cam mechanism, Variable. O. E. Cote. 2,324,767; July 20.

Camera, Compositor. W. C. Huebner. 2,324,842; July 20.

Candle and candle sections. J. M. Powers and P. W. Russell. 2,324,723; July 20.

Capping machine. E. S. Minard. 2,324,794; July 20.

Carbonaceous materials, Carrying out reactions with. H. Klein, R. Seidler and F. Stoewener. 2,324,518; July 20.

Carburetor. H. L. McCurdy. 2,325,010; July 20.

Carburetor, Pressure. C. F. Schorn. 2,324,599; July 20.

Carrier: *See*—
Game carrier.

Carrier and dispenser for strip material in roll form. V. Neptune. 2,324,796; July 20.

Carton, Bottle. O. Fiore. 2,324,771; July 20.

Carton, carton blanks, and making the same. R. M. Botley. 2,324,757; July 20.

Case: *See*—
Delivery case.

Catalytic isomerization of paraffinic hydrocarbons. W. W. Weinrich and J. M. Yost. 2,324,746; July 20.

Cathode ray measuring device. W. R. Koch. 2,324,851; July 20.

Cement applying mechanism. B. Jorgensen. 2,324,510; July 20.

Centrifugal separator. L. D. Jones. 2,324,933; July 20.

Chain. D. B. Perry. 2,324,640; July 20.

Checking machine, Container fill. A. L. Kronquest. 2,324,782; July 20.

Circuit breaker operating mechanism, Enclosed. W. M. Scott, Jr. 2,324,543; July 20.

Circuit controller. O. K. Butzmach. 2,324,819; July 20.

Circuit for railway train detection, Coded track. H. A. Thompson. 2,324,964; July 20.

Cistern construction. B. D. Richmond. 2,324,878; July 20.

Clamp: *See*—
Core clamp. Hose clamp.

Clamping fixture for machine tools. C. E. Walling. 2,324,608; July 20.

Classifier. P. L. Wigton. 2,324,549; July 20.

Cleaner: *See*—
Rotary air cleaner. Soot cleaner.

Clip: *See*—
Paper clip.
Closure structure. R. C. Pratt. 2,324,536; July 20.
Clutch. W. W. Criley. 2,324,613; July 20.
Clutch apparatus, Electromagnetic. I. O. Miner. 2,324,590; July 20.
Clutch control mechanism. W. A. Eaton. 2,324,830; July 20.
Clutch throwout mechanism. J. I. Carlson. 2,324,482; July 20.
Coil handling system and method. N. B. Lane, W. S. Mingle, and H. H. Colson. 2,324,855; July 20.
Coin operated door lock. S. W. Frazier. 2,324,920; July 20.
Collapsible form. F. M. McLaughlin. 2,325,001; July 20.
Collar support. W. H. Des Jardins. 2,324,617; July 20.
Color reproduction. M. K. Goldstein. 2,324,773; July 20.
Combustion chamber. J. S. Huber. 2,324,705; July 20.
Comforter, Bed. M. Dunn. 2,324,619; July 20.
Communication system. W. H. T. Holden. 2,324,624; July 20.
Communication system. N. H. Reeve. 2,324,877; July 20.
Compass compensating means. P. A. Noxon. 2,324,718; July 20.
Composite board structure. G. Kahr. 2,324,628; July 20.
Composition and coated rod for arc welding magnesium alloys. J. J. Prendergast, R. A. Jones, and C. F. Gladen. 2,325,014; July 20.
Concrete magazines, Constructing. L. P. Corbetta. 2,324,911; July 20.
Condensation of cyanocarboxylic acid with polyamine. H. Kroeper and H. Haussmann. 2,324,936; July 20.
Condensation product and preparing and using same. E. Lieber. 2,324,784; July 20.
Connector: *See*—
Storage battery cable connector.
Container: *See*—
Milk container.
Container. J. Cereghino. 2,324,484; July 20.
Container. G. C. Erb. 2,324,499–500; July 20.
Contraction band. B. Robinson. 2,324,538; July 20.
Control device. E. E. Collison and P. U. Lannerd. 2,324,908; July 20.
Control device. E. E. Collison. 2,324,909; July 20.
Control for hydrodynamic machines. E. Wiedmann. 2,324,750; July 20.
Control mechanism. C. A. Arens. 2,324,475; July 20.
Control system. R. D. Junkins. 2,324,513; July 20.
Control system. V. A. McGovern and E. R. Gruchow. 2,324,940; July 20.
Control system. W. J. Secrest. 2,324,987; July 20.
Controller operating mechanism. W. R. Quentin. 2,324,876; July 20.
Controlling device for pumps. A. J. Stepanoff. 2,324,650; July 20.
Conveying mechanism. R. E. J. Nordquist. 2,324,531; July 20.
Cooling apparatus. H. K. Johnson. 2,324,707; July 20.
Cooling means. R. W. Pearson and J. Bender. 2,324,533; July 20.
Copper-aluminum-manganese alloy. C. M. Moss. 2,324,628; July 20.
Copper powder, Making. C. R. G. Stewart. 2,324,960; July 20.
Cord for use in the covers of pneumatic tires and other reinforced articles of rubber and similar materials. T. Jackson and T. B. Frearson. 2,324,583; July 20.
Cord-winding device. G. E. Lofgren. 2,324,711; July 20.
Core clamp. H. R. Korte. 2,324,853; July 20.
Counter, Ball-racking. E. Mistacu. 2,324,945; July 20.
Counting and filling machine. F. Chilson and I. Tornberg. 2,324,823; July 20.
Coupling: *See*—
Hose coupling. Resilient coupling.
Cover for electrical apparatus, Hinged. H. M. Stieglitz. 2,324,738; July 20.
Cream whipping apparatus. P. F. Roeder. 2,324,648; July 20.
Cribber, Grave. G. P. Bleakley. 2,324,465; July 20.
Crucible furnace. C. E. Milligan. 2,324,864; July 20.
Cup, Paper sputum. A. Warsher and J. Pollock. 2,324,893; July 20.
Curling device. F. C. Wallace. 2,324,607; July 20.
Current motor, Alternating. M. Schiff. 2,324,728; July 20.
Cutter: *See*—
Band cutter.
Cutting die. S. Leskiewicz. 2,324,857; July 20.
Delay action mechanism for snap switches. E. L. Sharp. 2,324,730; July 20.
Delivery case. F. G. Chambliss. 2,324,905; July 20.
Dialkyl esters of N-substituted aspartic acid and preparing the same. K. L. Lynch. 2,324,712; July 20.
Die: *See*—
Cutting die.
Die set, Resizing and shaving. A. De Rentiis. 2,324,496; July 20.
Dipper, Ice-cream. M. A. Berns. 2,324,477; July 20.
Discharge outlet and releaseable closure means therefor, Container. O. W. Wentz. 2,324,807; July 20.
Dispenser: *See*—
Liquid dispenser. Paper roll dispenser.
Dispensing apparatus and interlocking mechanism therefor. H. F. Soper. 2,324,734; July 20.
Display device. V. Havel. 2,324,926; July 20.
Distillation process. C. M. Beamer. 2,324,755; July 20.
Dividing and weighing of bread dough and like plastic masses. B. D. Baker, L. S. Harber and J. E. Pointon. 2,324,667; July 20.
Drawoff means, Surplus fill. La V. E. Clifcorn. 2,324,765; July 20.
Drawoff means, Surplus fill. A. L. Kronquest. 2,324,783; July 20.
Drill. R. R. Welch. 2,324,748; July 20.
Drum rack. G. E. Weissert. 2,324,747; July 20.
Edge trimming means for use in rotary printing presses. W. A. Pratt. 2,324,950; July 20.
Educational device. J. V. Horr. 2,324,841; July 20.
Elastic fluid compressor or motor. R. Beckman. 2,324,903; July 20.
Electric circuit interrupter. C. Thumin. 2,324,891; July 20.
Electric iron. J. J. Gough. 2,325,017; July 20.
Electric lamp. D. K. Wright. 2,324,972; July 20.
Electric switch. S. S. Grady. 2,324,621; July 20.
Electric switch. R. W. Strobel. 2,324,888; July 20.
Electric terminal lug. J. J. Dante. 2,324,829; July 20.
Electrical control system for warping or beaming plants. F. Lambach. 2,324,611; July 20.
Electrical discharge devices, Gaseous. M. A. Claesson. 2,324,557; July 20.
Electrical heater. C. I. Hall. 2,324,837; July 20.
Electrical regulator. F. J. Champlin. 2,324,822; July 20.
Electrical wiring system. H. F. McLoughlin, W. E. Hill, R. W. Morgan and T. D. G. Wintle. 2,324,791; July 20.
Electroconductive wheel. R. W. Lytle. 2,324,589; July 20.
Electrode holder. H. H. Hall. 2,324,924; July 20.
Electrodeposited metal surfaces, Protecting. H. C. Macan. 2,324,859; July 20.
Electromagnetic inductance apparatus. H. J. McCreary. 2,324,634; July 20.
Electromagnetic valve operator. C. L. Peterson. 2,324,642; July 20.
Electron discharge apparatus. W. T. Gibson. 2,324,772; July 20.
Electron discharge device. G. P. Chevigny. 2,324,766; July 20.
Enamel coating. W. N. Stoops and W. A. Denison. 2,324,739; July 20.
Enamel, Porcelain. M. J. Bahnsen and E. E. Bryant. 2,324,812; July 20.
Engine cylinder liner and method. F. A. Wagner. 2,324,547; July 20.
Engine starter. K. F. Douglas. 2,325,007; July 20.
Etching insignia upon articles of glassware. C. W. Gustkey. 2,324,694; July 20.
Evaporator unit with frozen food compartments. B. C. Johnson. 2,324,931; July 20.
Exercising device. L. A. Woolley. 2,324,970; July 20.
Fastener. D. H. Finkle. 2,324,687; July 20.
Fastening-inserting machine. F. L. Brandt. 2,324,479; July 20.
Faucet, Retarded self-closing. J. F. Molloy. 2,324,946; July 20.
Feedback system, Stabilized. H. S. Black. 2,324,815; July 20.
Feeding mechanism for machines. F. Parry. 2,324,873; July 20.
Feeding mechanism for sewing machines. L. C. Marsac. 2,324,861; July 20.
Fibrous products, Drying of distended. O. J. Krueger and J. Caresio. 2,324,519; July 20.
Filter construction and filtering. E. H. Carruthers and H. T. Moore. 2,324,764; July 20.
Filter material. W. Harz, H. Rein, E. Hubert, and C. Kayser. 2,324,838; July 20.
Firearm. R. A. A. Hentschel. 2,324,775; July 20.
Firearm action. J. D. Buchanan. 2,324,674; July 20.
Flashlight and testing device, Combination. W. E. Woodington. 2,324,661; July 20.
Floor covering, Printing. W. B. Frederick and T. J. Kelley. 2,324,573; July 20.
Floor coverings or the like, Manufacture of. F. W. Gans. 2,324,574; July 20.
Floor furnace. R. Martin. 2,324,862; July 20.
Flow meter. W. C. Wagner. 2,324,606; July 20.
Fluids, Heating of. M. W. Barnes. 2,324,553; July 20.
Flush tank. C. P. Bombard. 2,324,756; July 20.
Foam stabilizing composition. A. F. Ratzer. 2,324,951; July 20.
Foods, Desiccating. H. R. Dickinson and H. H. Moreton. 2,324,914; July 20.
Force measuring device. A. De Rentiis. 2,324,497; July 20.
Forced air heater. E. H. Ryden and F. R. Higley. 2,324,540; July 20.
Form generating machine, Automatic. L. M. Taylor. 2,324,546; July 20.
Fuel and water controller for boilers or steam generators. W. S. H. Hamilton and K. B. Rowell. 2,324,695; July 20.
Fuel control valve. J. P. Johnson. 2,324,932; July 20.
Fumigant mixture. W. W. Allen and J. C. Dawson. 2,324,471; July 20.
Fumigant mixtures. W. W. Allen and F. W. Fletcher. 2,324,472; July 20.
Funnel support. C. N. Tozer. 2,324,655; July 20.
Furnace: *See*—
Crucible furnace. Floor furnace.

Game. J. L. McKeown. 2,324,941; July 20.
Game carrier. C. E. Deming. 2,324,495; July 20.
Game or puzzle device. E. Gardner. 2,324,691; July 20.
Gasoline, Production of. G. E. Liedholm. 2,324,708; July 20.
Gauge: *See*—
Indicating depth gauge.
Gauge or comparator, Linear-dimension. G. P. Barrott and H. F. Plaut. 2,324,813; July 20.
Golf ball core, Liquid. R. A. Crawford. 2,324,768; July 20.
Governor. A. Kalin. 2,324,514–16; July 20.
Governor. A. Kalin. 2,325,009; July 20.
Grading machine. A. G. B. Metcalf. 2,325,011; July 20.
Grapes and product produced thereby, Utilizing. A. Percilli-Minetti. 2,324,639; July 20.
Gravity meter. D. H. Clewell. 2,325,005; July 20.
Gravity operable valve. B. H. Shinn. 2,324,999; July 20.
Grille, Adjustable. D. E. Walker. 2,324,743; July 20.
Grille for air conditioning apparatus, Outlet. S. J. Levine. 2,324,858; July 20.
Grinding machine steady rest. H. A. Silven. 2,324,958; July 20.
Grinding mill. W. F. Heller. 2,324,502; July 20.
Grinding wheel dresser, Adjustable. H. W. Kropf. 2,324,937; July 20.
Grinding wheel dressing tool. E. L. Meeson and J. I. Meeson. 2,324,942; July 20.
Handle: *See*—
Tool handle.
Handle and lock, Kit bag. J. J. O'Connor. 2,324,638; July 20.
Hanger: *See*—
Tracing hanger.
Heat actuated safety shutoff valve. C. M. Bailey. 2,324,552; July 20.
Heat control. E. Olson. 2,324,592; July 20.
Heater: *See*—
Electrical heater. Forced air heater.
Holder: *See*—
Electrode holder. Work holder.
Holder and closure, Paste tube. F. M. Groedel. 2,324,575; July 20.
Hone. G. W. Emmert. 2,324,498; July 20.
Hose clamp. J. T. King. 2,324,780; July 20.
Hose connection, Locomotive. G. D. Sprankle. 2,324,602; July 20.
Hose coupling. W. Meyer. 2,324,792; July 20.
Hosiery inspecting machine attachment. E. R. Ammon. 2,324,897; July 20.
Hot water system. P. Spence. 2,324,736; July 20.
Hydraulic lifting arrangement. C. W. Mott. 2,324,866; July 20.
Hydraulic medium, Low temperature. T. R. Donlan. 2,324,770; July 20.
Hydrocarbon conversion. J. Turkevich. 2,325,015; July 20.
Ignition system. H. B. Grow. 2,324,923; July 20.
Implement handling mechanism. E. B. Meyer. 2,324,635; July 20.
Implement, Tractor-mounted. J. R. Orelind and A. G. Evans. 2,324,871; July 20.
Indicating depth gauge. M. R. Dague. 2,324,998; July 20.
Indicator: *See*—
Reduced tire pressure indicator.
Indicator for watt-hour meters, Heavy load. H. M. Witherow. 2,324,895; July 20.
Ingot mold. L. B. Lindemuth. 2,324,786; July 20.
Injector, Vaccine. E. Powell. 2,324,535; July 20.
Ink and making the same, Lithographic printing. H. J. Wolfe. 2,324,550; July 20.
Ink, Printing. I. M. Bernstein. 2,324,671; July 20.
Inner tube and producing the same. H. W. Greenup. 2,324,974; July 20.
Inserter, Diaphragm. G. H. Chamberlain, Jr. 2,324,485; July 20.
Integrating and total displaying mechanism for totalizators. G. A. and A. F. Julius. 2,324,778; July 20.
Iron: *See*—
Electric iron.
Isomerization process. V. B. Calhoun and K. C. Laughlin. 2,324,762; July 20.
Jack construction, Vehicle. J. S. Westrate. 2,324,967; July 20.
Jacket, Sport. S. Papierniak. 2,324,722; July 20.
Joint: *See*—
Pivotal joint. Welded pipe joint.
Ketones of the cyclopentano polyhydrophenanthrene series, Manufacture of. W. Logemann and W. Hildebrand. 2,324,522; July 20.
Lamp: *See*—
Electric lamp.
Lamp and wick holder therefor, Candle. H. Alexiade. 2,324,753; July 20.
Land mine and fuse. B. P. Joyce, H. M. Brayton, D. J. Walsh, and D. Dardick. 2,324,846; July 20.
Latch: *See*—
Automatic latch.
Latex depositing apparatus. G. P. Bosomworth. 2,324,977; July 20.
Laundry assembly unit, Revolving. M. Quain. 2,324,596; July 20.
Lavatory fixture. F. D. Rich. 2,324,725; July 20.
Layout and checking device. G. L. Becker. 2,324,476; July 20.
Leveling means for vehicle bodies. P. O. Krogh. 2,324,587; July 20.
Life belt inflating mechanism. L. T. Ward. 2,324,744; July 20.
Lighting means and control therefor, Electric. J. E. Scott. 2,324,600; July 20.
Linkage for pressure measuring instruments, Adjustable. W. Angst. 2,324,666; July 20.
Lip for toy figures and actuating the same, Movable. B. L. Henry. 2,324,774; July 20.
Liquid dispenser. W. E. Turner. 2,324,965; July 20.
Liquid filling machine. E. S. Minard. 2,324,795; July 20.
Liquid metering and mixing apparatus. H. S. Hight. 2,324,580; July 20.
Liquid screening apparatus. W. C. Moor. 2,324,637; July 20.
Load compensated control system. W. H. Gille and J. V. Sigford. 2,324,692; July 20.
Load weighing and totaling device for cranes, hoists, and the like. S. H. Davis. 2,324,769; July 20.
Lock: *See*—
Coin operated door lock.
Lock slider, Automatic. D. Marinsky. 2,324,788; July 20.
Locking device. H. McCarthy and J. R. Brasel 2,324,633; July 20.
Luminescent material and producing same. R. C Hultgren and S. Isenberg. 2,324,843; July 20.
Lymphogranuloma venereum antigen and preparing it. G. W. Rake, M. F. Shaffer, and C. M. McKee. 2,324,646; July 20.
Machine for assembling storaged battery plates and separators. A. D. Lund. 2,324,523; July 20.
Machine for forming loops on the ends of the wires of wire-bound boxes. W. F. Newhouse and L. M. Hile. 2,324,530; July 20.
Machine for making twisted paper. L. E. Barnum. 2,324,668; July 20.
Machine for pressing gloves. T. G. Boldizzoni. 2,324,673; July 20.
Machine for use in the manufacture of shoes. B. Jorgensen. 2,324,509; July 20.
Machine funnel, Coffee can filling. V. J. Ruggiero, 2,324,597; July 20.
Mailing piece. W. A. Holmstrom, 2,324,777; July 20.
Marker, Luminescent. J. E. Paul. 2,324,532; July 20.
Marker, Luminous. C. B. Lee and C. W. Wallhausen. 2,324,521; July 20.
Measuring and control method and apparatus. J. R. Campbell. 2,324,821; July 20.
Measuring and recording posture. W. Bierman and A. W. Schenker. 2,324,672; July 20.
Mechanical movement. G. B. Odatto and W. J. Wesseler. 2,325,013; July 20.
Memorandum pad and container, Combined. E. Westberg. 2,324,966; July 20.
Meter: *See*—
Flow meter. Gravity meter.
Method and apparatus for cheese making. R. Miollis. 2,324,636; July 20.
Method and apparatus for oil purification. E. H. Carruthers. 2,324,763; July 20.
Method and apparatus for taking a series of spectograph measurements. M. A. Arthur. 2,324,899; July 20.
Method and composition for corrosion prevention. H. J. Haffner, G. A. Siegelman, and G. H. von Fuchs. 2,324,577; July 20.
Method and mechanism for recovering metal. H. J. Love. 2,324,938; July 20.
Method of and apparatus for dusting fibrous material. E. Lundgren. 2,324,787; July 20.
Method of and apparatus for heat treating metal. E. Mittelmann. 2,324,525; July 20.
Milk container. Von M. Bergen. 2,324,670; July 20.
Mill: *See*—
Grinding mill.
Mold: *See*—
Ingot mold.
Mold and making same. M. Carter. 2,324,990; July 20.
Molding apparatus. C. W. Groncy and E. Heck. 2,324,991; July 20.
Molding by pulsating centrifugal force. G. A. Rubissow. 2,325,019; July 20.
Monitor system. O. E. Dow. 2,324,915; July 20.
Motor fuel. C. B. Kass. 2,324,779; July 20.
Motor vehicle. R. C. Hoffman. 2,324,703; July 20.
Motor vehicle. F. R. McFarland. 2,324,713; July 20.
Motor vehicle lighting. H. R. Voorhees and G. E. Breeze. 2,324,742; July 20.
Mounting: *See*—
Boiler mounting.
Movable means for tractor mounted implements. C. W. Mott and H. P. Smith. 2,324,867; July 20.
Navigational timepiece and setting mechanism. T. P. Conlon. 2,324,560; July 20.
Needle-actuating mechanism for zigzag-stitch sewing machines. A. N. Hale. 2,324,836; July 20.

Net, Yielding barrier. E. D. Sawyer. 2,324,726; July 20.
Nightgown, Maternity. D. H. Leary. 2,324,856; July 20.
Nozzle, Spray. Le R. E. Gruett. 2,325,008; July 20.
Nuts and internally screw-threaded member, Self-locking. O. E. Simmonds. 2,324,731; July 20.
Oils, Refining of mineral. W. O. Heilman. 2,324,927; July 20.
Oils, Refining of mineral. C. L. Read. 2,324,952; July 20.
Oils, Refining of mineral. W. H. Rupp. 2,324,954; July 20.
Oils, Refining petroleum. H. C. Paulsen. 2,324,948; July 20.
Oils, Sweetening of hydrocarbon. J. H. McClintock. 2,324,790; July 20.
Operator, Window. A. Rappl and E. C. Horton. 2,324,724; July 20.
Organic materials, Recovery of. R. L. Brandt and H. G. Kirschenbauer. 2,324,467; July 20.
Package, Fold-closed. L. L. Salfisberg. 2,324,541; July 20.
Package with a fold-closed delivery neck. L. L. Salfisberg. 2,235,021; July 20.
Paint mask structure. J. E. Duggan. 2,324,568; July 20.
Paper and board, Manufacture of. S. Musher. 2,324,529; July 20.
Paper clip. W. A. Jennings. 2,324,929; July 20.
Paper machine slice assembly. D. Warren. 2,325,016; July 20.
Paper roll dispenser. L. M. White. 2,324,969; July 20.
Pasteurizing apparatus. E. C. Damrow. 2,324,615; July 20.
Peach pitter, Freestone. E. O. Burling. 2,324,470; July 20.
Pessary. C. G. Vincent. 2,324,656; July 20.
Petroleum emulsions, Breaking. M. De Groote and B. Keiser. 2,324,448–94; July 20.
Photographic emulsion. A. Frölich and W. Schneider. 2,324,831–2; July 20.
Photometer. A. J. Haynes. 2,324,581; July 20.
Picker. C. W. Yelm. 2,324,752; July 20.
Pipe, Cutting. R. H. Stevens and T. Wilson. 2,324,737; July 20.
Pipe former and layer. J. E. Brulotte. 2,324,760; July 20.
Pipe oscillator, Irrigating. R. P. Paradise. 2,324,947; July 20.
Pipe plug. B. Svirsky. 2,324,545; July 20.
Pipe, smoker's. J. R. Houts. 2,324,704; July 20.
Pivotal joint. R. W. Brown. 2,324,984; July 20.
Plastics, Molding. W. Q. Lohrand and C. H. Whitlock. 2,324,978; July 20.
Plate, Clutch. J. F. Daukus. 2,324,913; July 20.
Plow, Two-way. C. W. Mott. 2,324,868; July 20.
Plug: *See*—
  Pipe plug.
  Spark plug.
Pneumatic pressure head. E. B. Moss. 2,325,018; July 20.
Pneumatic tire and rim assembly. J. E. Hale. 2,324,994; July 20.
Polymerization products, Mixed. W. Zerweck and W. Kunze. 2,324,896; July 20.
Polymerizing derivatives of methacrylic acid. C. T. Kautter and E. Trommsdorff. 2,324,935; July 20.
Portable table. W. C. F. Dietz. 2,324,684; July 20.
Power transmission. F. T. Harrington and R. L. Tweedale. 2,324,697; July 20.
Power transmission. W. G. Pinlayson, L. R. Twyman, R. L. Tweedale. 2,324,688; July 20.
Power transmission. R. A. Shartle. 2,324,727; July 20.
Power transmission. F. W. Slack. 2,324,732; July 20.
Press. J. W. Brundage. 2,324,818; July 20.
Pressure accumulator, Fluid. K. R. Herman. 2,324,701; July 20.
Pressure cylinder, Printing machine. J. H. May. 2,324,631; July 20.
Pressure resisting waterproof buoyant container. H. H. Lindley. 2,324,709; July 20.
Printed signatures, Making. I. Gurwick. 2,324,834; July 20.
Process and apparatus for treating foodstuffs. F. N. Peters. 2,324,874; July 20.
Projectile. G. N. Albree. 2,324,551; July 20.
Prop, Beef carcass. L. V. Novak. 2,324,717; July 20.
Propeller. W. W. Everts. 2,324,569; July 20.
Protecting device. J. Peterson and F. A. Weigel. 2,324,875; July 20.
Protective system. S. B. Crary. 2,324,825; July 20.
Pulper and juicer, Vegetable. H. J. Crawford. 2,325,006; July 20.
Pump. J. Mercier. 2,324,524; July 20.
Pump. B. F. Williams. 2,324,610; July 20.
Puzzle. F. P. Davis. 2,324,566; July 20.
Rack: *See*—
  Drum rack.
Rail insulator. Le R. M. Kubaugh. 2,324,993; July 20.
Railway car construction. G. G. Gilpin. 2,324,921; July 20.
Railway signaling apparatus. P. H. Crago. 2,324,912; July 20.
Railway traffic controlling appaartus. R. A. McCann. 2,324,939; July 20.
Razor, Safety. W. E. Blunk. 2,324,555; July 20.
Reaction product of aldehydes and triazine derivatives. G. F. D'Alelio. 2,324,827; July 20.
Reduced tire pressure indicator. O. E. Dietrich. 2,324,618; July 20.
Reduction of stray light. J. A. Maurer, Jr. 2,324,632; July 20.
Refrigerating apparatus. W. L. Morrison. 2,324,527; July 20.
Refrigerating apparatus. N. J. Smith. 2,324,649; July 20.
Refrigeration. C. T. Ashby. 2,324,810; July 20.
Refrigeration. W. Jones. 2,324,627; July 20.
Refrigerator system for cars and the like. H. J. Wieden. 2,324,749; July 20.
Register for hospitals, Physician's in-and-out. W. M. June. 2,324,934; July 20.
Regulator: *See*—
  Electrical regulator.
Reinforcing bar. J. D. Stites. 2,324,651; July 20.
Remote control device. J. Canetta and J. B. Grosswege. 2,324,904; July 20.
Remote control switch. P. Hutt. 2,324,844; July 20.
Resilient coupling. R. W. Brown. 2,324,997; July 20.
Resilient support for pipes and the like. E. F. Riesing. 2,324,992; July 20.
Resin and production, Modified phenolic. C. W. Bowden, Jr. 2,324,758; July 20.
Resistor. L. L. Stoffel. 2,324,961; July 20.
Respiratory apparatus. M. E. Nohl. 2,324,716; July 20.
Riboflavin, Purification of. R. Pasternack and E. V. Brown. 2,324,800; July 20.
Ringer control, Telephone subscriber's. C. M. Hannaford. 2,324,696; July 20.
Rock boring and like tool. P. Cox. 2,324,679; July 20.
Rod connection, Pull. E. R. Thomas and D. Erickson. 2,324,963; July 20.
Roll, Beater. D. E. Jones. 2,324,845; July 20.
Rotary air cleaner. R. A. Kelsey and H. Wright. 2,324,629; July 20.
Rotary valve. A. G. Gurries. 2,324,576; July 20.
Rubber article and producing same, Composite. A. N. Spanel. 2,324,735; July 20.
Rubber, Baling. R. W. Allen and W. T. Runals. 2,324,995; July 20.
Rubber light buoy. A. H. Gollings. 2,324,983; July 20.
Rubber, Reclaiming synthetic. F. L. Kilbourne, Jr. 2,324,980; July 20.
Rubber thread, Making. S. W. Alderfer and H. W. Greenup. 2,324,975; July 20.
Safety control for riveting machines and the like. B. J. Yanchenko. 2,324,660; July 20.
Sealed apparatus, Manufacture of. C. E. Pollard, Jr. 2,324,595; July 20.
Sealed articles, Manufacture of. J. T. L. Brown. 2,324,556; July 20.
Sealing compound. R. H. Schrohe and R. W. Manuel. 2,324,729; July 20.
Seaming machine. W. J. Geist. 2,324,501; July 20.
Seat: *See*—
  Bicycle seat.
Seat construction. A. Benzick and H. C. Rusch. 2,324,902; July 20.
Seismic surveying. W. T. Born. 2,324,816; July 20.
Separator: *See*—
  Centrifugal separator.
Separation of acrylic acid nitrile. P. Kurtz, J. Casper, and H. Schwarz. 2,324,854; July 20.
Sewage, Purification of. A. R. Persson and J. O. Naucler. 2,324,593; July 20.
Sewing machine. H. E. Clayton. 2,324,558; July 20.
Sewing machine. G. Sauer. 2,324,598; July 20.
Sharpener, Knife and scissors. I. Wentes. 2,324,805; July 20.
Sheet metal adjusting nut or the like. G. A. Tinnerman. 2,324,653; July 20.
Sheet trimming and handling device. R. A. Williams and W. S. Cochran. 2,324,751; July 20.
Sheeting, Static-free. J. K. Speicher. 2,324,887; July 20.
Shoe. A. J. Brauer. 2,325,004; July 20.
Shoe. C. E. Olson. 2,324,591; July 20.
Shoe heels, Making. J. Susskind. 2,324,889; July 20.
Shoe, Rod weeder. A. A. Scarlett. 2,324,883; July 20.
Shoe supporting means for shoe machines. B. Jorgensen. 324,511; July 20.
Shoelace fastening device. E. W. Storey. 2,324,962; July 20.
Side wall coring tool. R. De Long. 2,324,682; July 20.
Sign: *See*—
  Advertising sign.
Sign support. S. E. Capps. 2,324,820; July 20.
Signal. T. L. Dalton. 2,324,614; July 20.
Sizing. E. W. Spanagel. 2,324,601; July 20.
Sleeping bag. M. O. Ayres. 2,324,665; July 20.
Sliver forming machine. L. A. Runton. 2,324,539; July 20.
Socket for fluorescent lamps. V. R. Despard. 2,324,683; July 20.
Sofa bed. R. A. Burton. 2,324,675; July 20.
Soldering device. R. E. Powell. 2,324,802; July 20.
Soldering device. L. P. Young. 2,324,973; July 20.

Soldering method. L. E. Abbott and W. W. Werring. 2,324,809; July 20.
Soluble dry extracts, Manufacture of. M. R. Morgenthaler. 2,324,526; July 20.
Solvent, Dry-cleaning. D. L. Ebert. 2,324,917; July 20.
Solvent extraction process. H. S. Polin. 2,324,594; July 24.
Soot cleaner. F. W. Linaker. 2,324,785; July 24.
Spacer, Bar. R. J. O'Brien. 2,324,719; July 20.
Spark plug. J. A. D'Elia. 2,324,616; July 20.
Spindle bearing. H. H. Asbridge. 2,324,664; July 20.
Sponge rubber and making same. K. H. Bowen and L. W. Gane. 2,324,466; July 20.
Spot machine. C. S. Jackson, A. C. Parlini, and E. Hascher. 2,324,506; July 20.
Spout for faucets, Swinging. J. E. Svabek, Jr. 2,324,741; July 20.
Spraying machine, Collapsible tube. G. W. Temple. 2,324,890; July 20.
Spring coiling machine. C. H. Peterson. 2,324,641; July 20.
Spring feeding apparatus. H. Bedard. 2,324,901; July 20.
Spring mounting for presses. G. F. Wales. 2,324,657; July 20.
Stabilized liquid coating composition. W. N. Stoops and W. A. Denison. 2,324,740; July 20.
Stacking and boxing apapratus. C. G. Joa. 2,324,930; July 20.
Starch, Manufacture of. A. H. Kelling. 2,324,849–50; July 20.
Steel, Patenting. E. E. Legge. 2,324,630; July 20.
Stencil cutting method and ribbon. M. I. Aaron. 2,324,662; July 20.
Storage battery cable connector. C. A. Danberg. 2,324,828; July 20.
Stretcher-supporting device for vehicles, Resilient. O. I. H. Ekman and H .T. Nicou. 2,324,685; July 20.
Structural element, Reinforced. J. K. Duncan and G. L. Phelps. 2,324,916; July 20.
Successive switching apparatus. H. J. Appel. 2,324,474; July 20.
Support: *See*—
  Collar support.
  Sign support.
  Funnel support.
Surgical simulacra and preparing same. K. F. Hoffmann and E. Fliegenschmidt. 2,324,702; July 20.
Switch: *See*—
  Electric switch.
  Thermal switch.
  Remote control switch.
Switch. E. A. Nordberg. 2,324,798; July 20.
Switch for railroads, Track. R. W. Hewes. 2,324,622; July 20
Switch, multiple bulb electric lantern, Multiple. W. M. Moxley. 2,324,715; July 20.
Switching device. C. N. Hickman. 2,324,623; July 20.
Synthetic resins, Preparing. P. Castan. 2,324,483; July 20.
Syringe. C. A. Anderson. 2,324,898; July 20.
Table: *See*—
  Portable table.
Tank: *See*—
  Flush tank.
Taping bodies. K. H. Weber. 2,324,745; July 20.
Tapping machine, Automatic. M. Graves. 2,324,922; July 20.
Telephone system. A. E. Woodruff. 2,324,659; July 20.
Television transmitting system. H. A. Iams and A. Rose. 2,324,504; July 20.
Television transmitting tube and electrode structure. H. A. Iams and A. Rose. 2,324,505; July 20.
Test device for oil wells. H. C. Beene, H. Marks, and D. L. Mitchell. 2,324,814; July 20.
Tester, Hardness. M. Klein and E. H. Grauel. 2,324,586; July 20.
Tester, Impulse. J. H. Hagenguth. 2,324,835; July 20.
Tetracyclic compounds and making same. L. Ruzicka and M. W. Goldberg. 2,324,881; July 20.
Thermal operator. W. A. Ray. 2,324,647; July 20.
Thermal switch. B. N. Clack. 2,324,906–7; July 20.
Threading and tension mechanism, Shuttle. L. Pavia. 2,324,949; July 20.
Tile, Coping. J. H. Phillips. 2,324,643; July 20.
Tire shaping apparatus. R. W. Allen. 2,324,986; July 20.
Tire, Vehicle. W. S. Coben. 2,324,996; July 20.
Tool: *See*—
  Band tightening and sealing tool.
  Side wall coring tool.
  Rock boring and like tool.
  Borehole tool.
  Well tool.
  Grinding wheel dressing tool.
Tool. A. E. Brickman. 2,324,468; July 20.
Tool. R. A. Kaplan. 2,324,847; July 20.
Tool. J. Kopczynski. 2,324,852; July 20.
Tool for cutting threads. A. F. Robertson. 2,324,879; July 20.
Tool handle. C. C. Haumerson. 2,324,839; July 20.
Tool mechanism, End working. C. E. Miller. 2,325,012; July 20.
Toolholder for lathes, Combination. S. Strobl. 2,324,603; July 20.
Toothbrush, Midget. D. J. Mayeux. 2,324,789; July 20.
Torque responsive device. M. J. Kittler. 2,324,585; July 20.
Toy firearm. A. L. Mannigel. 2,324,860; July 20.
Toy scenery. D. M. Warren. 2,324,892; July 20.
Tracing hanger. L. L. Hyler. 2,324,582; July 20.
Tractor mower assembly J. M. Custenborder. 2,324,563; July 20.
Transfer bearing. W. S. Hoover. 2,324,625; July 20.
Transmission. W. R. Griswold and F. R. McFarland. 2,324,693; July 20.
Transmission. R. L. Smirl. 2,324,733; July 20.
Transmission control, Dual. P. Schon. 2,324,542; July 20.
Transmitter, Television. J. R. Pierce. 2,324,534; July 20.
Traverser. M. J. Bratley. 2,324,817; July 20.
Tray. H. Auslander. 2,324,811; July 20.
Treating apparatus. M. Cornell. 2,324,824; July 20.
Trees, Pollination of. M. W. Patton. 2,324,801; July 20.
Triazine derivatives. G. F. D'Alelio. 2,324,826; July 20.
Trolley retriever mechanism. J. Budner. 2,324,761; July 20.
Truck for mine cars, Four-wheel. L. G. Miller and W. H. Statler. 2,324,943; July 20.
Tube: *See*—
  Vacuum tube.
Tubes, Securing ends to. R. R. Frederick and A. W. Awot. 2,324,572; July 20.
Upper trimming means. B. Jorgensen. 2,324,512; July 20.
Vacuum apparatus, Manufacture of. H. S. Cooke. 2,324,559; July 20.
Vacuum tube. R. C. Hergenrother. 2,324,776; July 20.
Valve: *See*—
  Fuel control valve.
  Rotary valve.
  Gravity operable valve.
  Heat actuated safety shut-off valve.
Valve and gauge. F. C. Sutcliffe and R. Ashley. 2,324,544; July 20.
Valve device. D. B. Gardiner and R. S. Miller. 2,324,690; July 20.
Valve diaphragm. V. C. Rogers and D. P. Barr. 2,324,880; July 20.
Valve for fuel tanks. A. L. Parker. 2,324,464; July 20.
Valve for oil well swabs. R. B. Fraser. 2,324,689; July 20.
Valve operating mechanism. E. J. Fitz. 2,324,571; July 20.
Valve structure. E. S. Minard. 2,324,793; July 20.
Varnish bases, Manufacture of. L. Auer. 2,324,900; July 20.
Vehicle: *See*—
  Motor vehicle.
Vehicle body. R. Cadwallader. 2,324,677; July 20.
Vehicle body, Military. W. B. Johnson. 2,324,508; July 20.
Visible index, Self-labeling. J. T. Quigley. 2,324,537; July 20.
Vulcanizing method and apparatus. G. P. Bosomworth. 2,324,981; July 20.
Vulcanizing rubber articles. E. F. Powell, D. Bulgin, and P. W. Badham. 2,324,644; July 20.
Wall. H. F. Woodward. 2,324,971; July 20.
Wall construction. G. A. Tinnerman and G. A. Hansman. 2,324,654; July 20.
Wall panel for furnace jackets or the like. A. P. Livar. 2,324,710; July 20.
Warping or beaming machine. F. Lambach. 2,324,520; July 20.
Warping or beaming machine. F. Lambach. 2,324,612; July 20.
Water from hydrocarbon vapors, Removing. W. H. Rupp and M. R. Smith. 2,324,955; July 20.
Welded pipe joint. H. O. Hill. 2,324,928; July 20.
Welding apparatus. M. O. Kuhn. 2,325,000; July 20.
Welding machine, Electric flash. W. H. Millwood. 2,324,944; July 20.
Well measuring device. M. L. Hart. 2,324,698; July 20.
Well tool. A. Sowders. 2,324,886; July 20.
Wheel: *See*—
  Electroconductive wheel.
Wheel mounting means, Adjustable tractor. O. Dekker. 2,324,681; July 20.
Wind board. O. M. Barber. 2,324,754; July 20.
Windshield sticker, Motor vehicle. C. O. Sherrill. 2,324,885; July 20.
Windwheel and blade therefor. B. Brassell. 2,324,759; July 20.
Wiper, Windshield. J. B. Whitted. 2,324,894; July 20.
Work holder. L. V. S. Snyder. 2,324,803; July 20.
Workpieces, Rounding. R. W. Cummings. 2,324,562; July 20.
Wrapper paster roll. S. Clausen. 2,324,486; July 20.
Yarn, Elastic novelty. S. W. Alderfer. 2,324,989; July 20.
Yarn winding. G. M. Karns. 2,324,584; July 20.

CLASSIFICATION OF PATENTS

ISSUED JULY 20, 1943

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

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This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

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Patents	557	No. 2,325,022	to No. 2,325,578,	inclusive.
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Total	758			

Disclaimer Correction

1,772,824.—*Helmer Anderson*, Minneapolis, Minn. BAG-CLOSING MACHINE. Patent dated August 12 1930. Disclaimer filed May 17, 1943, by the inventor; the assignee, *General Mills, Inc.*, assenting.

Hereby enters this disclaimer to claim 14 of the above patent.

Attention has been called to an error in the disclaimer published in O. G. June 15, 1943, namely, for the Patent Number 1,712,824 read *1,772,824*.

Adjudicated Patents

(D. C. N. Y.) Potter patent, No. 1,536,627, for life preserver, claims 1, 2, 6, and 15 *Held* invalid. *American Pad & Textile Co.* v. *Cluff Fabric Products*, 49 F. Supp. 915.

(D. C. N. Y.) Brown patent, No. 1,994,189, for life preserver jacket, *Held* invalid. *Id.*

(C. C. A. Ill.) Rutten and Rutten patent, No. 2,151,234, for building structure, claims 1, 2, 3, 4, 6, 8, 10, and 13 *Held* invalid. *Rutten* v. *De Muth*, 135 F.(2d) 363.

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 2,219,269, J. H. K. McCullum et al., Vacuum power clutch, decided June 21, 1943, claims 17, 18, 19, 20, 21, 23, 24, 29, 30, 31, 33, and 34.

Pat. 2,204,962, R. Hildebrandt, Automatic volume control, decided May 3, 1943, claims 1, 3, 4, 5, 6, 7, 8, and 9.

Pat. 2,227,121, W. B. Blanton, Printing telegraph system, decided June 24, 1943, claims 1, 2, 3, 4, 5, 6, 7, 11, 13, 15, 16, and 18.

Notice—Attorney's Address

Many letters are being returned to this office for lack of street address. The attorney's full post-office address should be given in every power of attorney. The prompt delivery of communications will thereby be facilitated.

Notice of Cancellation

U. S. PATENT OFFICE, *Richmond, Va., July 9, 1943.*

Technical Lubricants Company, its assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Sulflo, Inc., 1143–45 E. Jersey St., Elizabeth, N. J., to effect the cancellation of trade-mark registration of Technical Lubricants Company, 1012 Baltimore Ave., Kansas City, Mo., No. 287,241, dated September 15, 1931, and the notice of such proceeding sent by registered mail to the said Technical Lubricants Company at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Technical Lubricants Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

Disclaimer

2,278,109.—*Ira C. Karp*, Cleveland, Ohio, and *Henry Witt Campbell*, Library, Pa. COIL SUPPORTING ARBOR. Patent dated March 31, 1942. Disclaimer filed July 8, 1943, by the inventors, the assignee, *The American Steel and Wire Company of New Jersey*, consenting.

Hereby enter this disclaimer to claim 1 of said patent.

Condition of Applications Under Examination at Close of Business July 10, 1943

(Total number of applications awaiting action, excluding Trade-Mark Division, 39,306; Trade-Mark Division, 998. Oldest new case, Aug. 31, 1942; oldest amended, Sept. 28, 1942.)
(The dates given are 1943 except where † indicates 1942)

Divisions, Examiners, and Subjects of Inventions	Oldest new application awaiting action	Oldest amended application awaiting action	No. of applications awaiting action
1. TUCKER, M. W., Closure Operators; Fences: Gates; Tillage; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Domestic Cooking Vessels; Sewerage.	Mar. 29	Apr. 1	267
2. HERRMANN, D., Fishing and Trapping; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Textile Wringers; Butchering.	Mar. 19	Mar. 6	271
3. WOLFFE, S., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	†Oct. 3	†Oct. 2	923
4. BISHOP, WALTER C., Conveyors; Hoists; Handling Apparatus; Excavating; Elevators: Fire Escapes; Ladders; Scaffolds; Pneumatic Dispatch; Store Service; Mining, Quarrying and Ice Harvesting.	Jan. 28	Jan. 19	400
5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Clasps	†Nov. 18	†Nov. 26	495
6. GENIESSE, E. W., Carbon Chemistry (part)	†Nov. 28	†Dec. 16	1019
7. JARBOE, C. G., Optics, Photography	Feb. 1	Jan. 25	774
8. ADAMS, F. L., Furniture; Kitchen and Table Articles; Racks and Cabinets	Jan. 21	Jan. 16	538
9. BENSON, R. B., Pumps and Fans: Fluid and Fluid-Current Motors	†Nov. 16	†Nov. 19	754
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	Jan. 13	Jan. 14	351
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Stop Mechanisms	Jan. 29	Dec. 21	324
13. DONNELLY, A. E., Metal Working (part): Gear Cutting, Milling and Planing; Needle and Pin Making	Jan. 19	Jan. 14	573
14. HANLIN, GEORGE, Metal Working (part): Farriery; Wire Fabrics	Mar. 4	Mar. 9	491
15. HENKIN, BENJ., Glass, Plastic Block and Earthenware Apparatus; Plastics	Feb. 2	Jan. 22	755
16. SPENCER, C. J., Telegraphy; Telephony	†Dec. 5	†Dec. 3	592
17. HABECKER, LEON B., Ornamentation; Paper Manufactures; Printing; Typo Casting; Sheet Material Associating or Folding; Sheet or Web Feeding; Type Setting.	†Oct. 16	†Oct. 7	703
18. KURZ, J. A., Motors, Expansible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal Combustion Engines.	†Nov. 12	†Nov. 25	570
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	†Oct. 27	†Oct. 26	557
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Undertaking; Bread, Pastry, and Confection Making; Laminated Fabrics (part).	Feb. 5	†Dec. 19	434
21. THOMPSON, T. J., Textiles	Feb. 15	Feb. 3	297
22. RINGLE, D., Aeronautics; Firearms; Ordnance and Explosive Devices	†Oct. 5	†Oct. 5	1789
23. BARROWS, B., Cash Registers; Calculators (part)	Jan. 21	Jan. 16	148
24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines	Mar. 15	Mar. 3	433
25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Jan. 15	Jan. 11	566
26. YOUNG, R. R., Electricity—Generation and Motive Power	†Nov. 25	†Dec. 16	751
27. CLARK, W. N., Brush, Broom, and Mop Making; Brushing, Scrubbing and General Cleaning; Textiles, Fluid Treating Apparatus; Ironing; Washing Apparatus.	†Nov. 20	†Nov. 18	542
28. SOLYOM, H. L., Internal-Combustion Engines (part); Cylinders and Pistons	†Oct. 6	†Oct. 24	654
29. SHKLARIN, J. B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Package and Article Carriers; Woodworking; Tools; Metal Working, Assembling.	Mar. 6	Mar. 19	387
30. McCANN, LEO P., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	Mar. 10	Mar. 17	276
31. DUNCOMBE, C. S., Hydrocarbons; Mineral Oils	Jan. 25	Jan. 25	1347
32. LESH, K., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; Earth Boring.	†Dec. 31	†Dec. 30	619
33. HULL, J. S., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements	Feb. 5	Feb. 4	645
34. SAPERSTEIN, S., Electricity—Meters and Transmission to Vehicles; Railways; Track Sanders; Signals and Indicators.	Feb. 5	Feb. 4	431
35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles	Feb. 2	Feb. 20	498
36. McFADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring	Feb. 26	Mar. 11	297
37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Feb. 24	Feb. 25	405
38. KRAFFT, C. F., Coating Processes: Coating or Plastic Compositions (part)	†Dec. 10	†Dec. 17	601
39. WHITNEY, F. L., Fluid-Pressure Regulators; Valves; Water Distribution	Mar. 24	Apr. 1	375
40. DRUMMOND, E. J., Receptacles	Apr. 15	Apr. 10	389
41. HERTZ, M., Coin Handling; Recorders; Deposit Receptacles; Counters and Calculators (part); Typewriting Machines; Check-Controlled Apparatus.	Jan. 14	Jan. 7	378
42. MARANS, H., Electric Signaling	Mar. 24	Mar. 25	321
43. FEDERICO, P. J., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Fluid Treatment of Textiles; Azo Compounds.	†Sept. 12	†Sept. 12	818
44. HARVEY, L. P., Refrigeration	Jan. 25	†Nov. 14	276
45. HILL, H. D., Shafting and Flexible Shaft Couplings; Wheels and Axles; Resilient Tires and Wheels; Lubrication; Bearings and Guides; Motors; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding; Land Vehicles (part).	Jan. 18	Feb. 6	701
46. BLEECKER, V. E., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers: Liquid Heaters and Vaporizers; Heating Systems; Coating Apparatus.	†Dec. 12	Jan. 16	370
47. KANOF, WM. J., Clutches and Power Stops; Brakes; Boring and Drilling; Land Vehicles (part)	†Dec. 10	†Dec. 26	973
48. ROEPKE, O. B., Electricity, General Applications: Igniters	†Oct. 31	†Oct. 8	742
49. SHEFFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Purification.	Jan. 13	†Dec. 24	590
50. LEVIN, SAMUEL, Resins; Rubber; Carbohydrates and Derivatives	†Dec. 26	†Dec. 26	1160
51. BACKUS, C. D., Radiant Energy	†Dec. 18	†Dec. 18	1105
52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Pipes and Tubular Conduits.	Jan. 25	Jan. 9	661
53. PECK, M. K., Label Pasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas and Canes; Curtains, Shades and Screens; Cutlery	Feb. 10	Mar. 9	169
54. STRACHAN, O. W., Electric Lamp and Discharge Devices (part)	†Oct. 23	†Dec. 21	526
55. BOWEN, S. T., Artificial Body Members; Dentistry; Surgery	†Sept. 29	†Sept. 28	812
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Laminated Fabrics (part); Paper Making	Jan. 6	Jan. 6	722
57. NICOLSON, O. D., Toys; Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	†Aug. 31	†Oct. 12	461
58. DOWELL, E. F., Abrading; Bottles and Jars; Stone Working	Jan. 27	Jan. 16	537
59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds; Compositions (part).	†Sept. 21	†Sept. 29	1178
60. GLASS, R. L., Electricity, Heating and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Marine Propulsion; Consumable Electrode Lamp and Discharge Devices.	†Oct. 27	†Oct. 27	503
61. YUNG KWAI, B., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery; Laminated Electrical Insulation, Belt, Hose, Tire and Ball Making; Boats and Buoys.	†Nov. 26	†Dec. 10	507
62. PUGH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors	Mar. 17	Feb. 26	450
63. WINKELSTEIN, A. H., Preserving; Poisons; Fermentation; Foods and Beverages; Proteins; Oils and Fats.	†Nov. 5	†Nov. 5	987
64. NASH, P. M., Acetylene; Gas Mixers: Compositions (part); Distillation; Fuel	Feb. 15	Feb. 12	1066
65. McDERMOTT, F. P., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave Transmission; Telephony, Repeaters and Relays.	†Nov. 12	†Nov. 9	726
TRADE MARKS: RICHMOND, F. A	June 4	June 12	998
DESIGNS: KALUPY, H. H	June 10	June 21	326

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Appeals for the District of Columbia

DIXIE ROSE NURSERY

v.

COE, COMMISSIONER OF PATENTS

No. 8,193. Decided November 16, 1942. Petition for rehearing denied December 23, 1942. Certiorari denied April 5, 1943

[131 F.(2d) 446]

1. TRADE-MARKS—DESCRIPTIVENESS—SECTION 5 OF TRADE-MARK ACT OF 1905.

Into the proviso of section 5 of the Trade-Mark Act of 1905 that "no mark which consists * * * merely in words or devices which are descriptive of the goods with which they are used, or of the character or quality of such goods * * * shall be registered," there cannot be read an exception to the effect that words which are descriptive may nonetheless be registered when the applicant and his licensees are, for the moment, the only persons who produce the thing described.

2. SAME—SAME—SAME.

"The policy of such an exception is not so clear that we can impute to Congress an intent to imply it. It is conceived to be fair to persuade buyers that they want goods from a particular source, and to enable them to get such goods by the convenient means that an exclusive trade mark or trade name provides. It is conceived to be unfair to require buyers who are indifferent to source, and want merely goods of certain characteristics, to name a particular source in order to name the desired characteristics."

3. SAME—SAME—SAME—"TEXAS CENTENNIAL."

Section 5 of the Trade-Mark Act of 1905 *Held* to forbid registration of the words "Texas Centennial," applied to a rose, in view of the finding of the Patent Office and the district court that these words, though originally arbitrary, have come to describe to the public a rose of a particular sort, not a rose from a particular nursery.

4. SAME—NAME OF PATENTED THING.

Appellant having patented the rose known to the trade as "Texas Centennial" *Held* that to allow registration of this name "would tend to prolong appellant's monopoly, beyond the life of appellant's patent, by making it difficult for a newcomer to break into the field."

5. SAME—DESCRIPTIVENESS—GEOGRAPHICAL FEATURES.

In regard to a mark consisting of the descriptive words "Texas Centennial" on an outline map of Texas *Held* that "the inclusion or addition of the geographical name and map does not entitle the mark to registration.

6. SAME—EFFECT OF ALLEGEDLY INCONSISTENT ACTIONS BY PATENT OFFICE.

"If, as appellant contends, the Patent Office has previously registered trade marks in like circumstances, it does not follow that its present action is erroneous."

APPEAL from the District Court of the United States for the District of Columbia. Affirmed.

Mr. Harry C. Robb, Sr., (*Messrs. John F. Robb* and *Harry C. Robb, Jr.*, of counsel) for Dixie Rose Nursery.

Mr. W. W. Cochran (*Mr. E. L. Reynolds* of counsel) for the Commissioner of Patents.

Before GRONER, Chief Justice, and EDGERTON and RUTLEDGE, Associate Justices

EDGERTON, A. *J.*:

This appeal is from the district court's refusal to authorize the Commissioner of Patents[1] to register appellant's trade mark for rose plants, scions, and cuttings. The mark consists of the words "Texas Centennial" on an outline map of Texas. The Trade-Mark Act of 1905 provides that

"no mark which consists . . . merely in words or devices which are descriptive of the goods with which they are used, or of the character or quality of such goods, or merely a geographical name or term, shall be registered . . . ."[2]

The Patent Office refused registration on the grounds that "Texas Centennial" is the name of a variety of rose, and descriptive, and that the name and map of Texas are geographical.

Appellant concedes that "Texas Centennial" is the name of a variety of rose. This variety is known throughout the trade, and listed in appellant's catalog, by this name. Purchasers call for it, and for no other variety, by this name. Appellant's catalog attributes to the "Texas Centennial" a number of physical features which distinguish it from other roses. Appellant has patented this rose, and apparently it is grown and marketed only by appellant and its licensees. Though the licensees agree to tell purchasers of appellant's connection with it, one may in fact buy "Texas Centennial" roses without learning that the original stock came from appellant's nursery.

If a man should invent a combination automobile and airplane, and call it an ambi, the name would at first be arbitrary and not descriptive. But if the name were applied, for a considerable period, to all such combinations and to nothing else, the name would come to identify or describe the thing, as the word "Cellophane"[3] has come to describe a thing.

"The meaning which should be given to the words constituting the mark is the impression and signification which they would convey to the public."[4]

The Patent Office and the district court might properly conclude that the words "Texas Centennial," though originally arbitrary, have come to describe to the public a rose of a particular sort, not a rose from a particular nursery. It follows that the statute forbids the registration of the words, unless an exception is to be read into the statute to the effect that words which are descriptive may nonetheless be registered when the applicant and his licensees are, for the moment, the only persons who produce the thing described.

[1] [2] [3] [4] The policy of such an exception is not so clear that we can impute to Congress an intent to imply it. It is conceived to be fair to persuade buyers that they want goods from a particular source, and to enable them to get such goods by the convenient means that an exclusive trade mark or trade name provides. It is conceived to be unfair to require buyers who are indifferent to source, and

[1] Under R. S. § 4915, 35 U. S. C. § 63.
[2] 33 Stat. 725, § 5; 15 U. S. C. § 85.
[3] *Dupont Cellophane Co., Inc.*, v. *Waxed Products Co., Inc.*, 85 F.(2d) 75, 80 (C. C. A. 2d), cert. den., 304 U. S. 575.
[4] *In re Irving Drew Co.*, 54 App. D. C. 310, 311, 324 O. G. 676.

want merely goods of certain characteristics, to name a particular source in order to name the desired characteristics.[5] To allow registration of the name "Texas Centennial" would give appellant an unfair advantage, despite the fact that only appellant and its licensees now produce Texas Centennials. It would tend to prolong appellant's monopoly, beyond the life of appellant's patent, by making it difficult for a newcomer to break into the field. We cannot read such an intent into the Trade-Mark Act.

[5] [6] The inclusion or addition of the geographical name and map does not entitle the mark to registration. If, as appellant contends, the Patent Office has previously registered trade marks in like circumstances, it does not follow that its present action is erroneous.

Affirmed.

[5] Cf. *Singer Mfg. Co.* v. *June Mfg. Co.*, 163 U. S. 169, 185, 186, 75 O. G. 1703; *Du Pont Cellophane Co.* v. *Waxed Products Co.*, 85 F.(2d) 75, 80 (C. C. A. 2d), cert. den., 304 U. S. 575.

U. S. Court of Customs and Patent Appeals

IN RE COOK

No. 4,683. Decided March 1, 1943

[134 F.(2d) 494]

PATENTABILITY—OLD COMBINATION—MINING DRILL COUPLING.

Certain claims to a mining drill coupling *Held* properly rejected upon the ground of old combination.

APPEAL from the Patent Office. Affirmed.

Mr. John D. Rippey for Cook.

Mr. W. W. Cochran (*Mr. Howard S. Miller* of counsel) for the Commissioner of Patents.

BLAND, *J.*:

Appellant, Walter Cook, filed his application in the United States Patent Office for an improvement in a mining drill coupling. The Primary Examiner rejected claims 1 to 6, inclusive (all the claims in the application), and upon appeal to the Board of Appeals, the Examiner's decision was affirmed. From the decision of the Board, appellant has here appealed.

In view of our conclusion, claim 1 is representative of all the claims and reads as follows:

1. In a mining drill coupling, a coupling element adapted to extend into a complementary socket in an adjacent drill section and having a radial well therein provided with a bottom integral with said element, a latch bolt mounted in said well for movements bodily longitudinally of its axis and radially with respect to said element for engagement with and disengagement from said drill section and having a beveled wall beyond the surface and toward the end of said element, a spring in said well for actuating said latch bolt bodily in an outward direction along its longitudinal axis and radially with respect to said element, and a latch pin rigid in said element engaging and limiting extent of outward bodily movement of said latch bolt and also preventing said latch bolt from turning in said well.

The references relied upon are: Spear, 389,335, September 11, 1888; Rassieur, 2,088,759, August 3, 1937; German patent, 267,304, November 14, 1913; British patent, 394,890, July 6, 1933.

Appellant's application describes the alleged invention as relating to a mining drill coupling which has "special reference to coupling devices for use in attaching a drill head to an auger, and to coupling devices for attaching together different auger sections or elements to make up a complete auger longer than any one of the elements."

The drill head carries one coupling element, which extends into an opening in another coupling element. This, of course, is a conventional arrangement. The alleged invention at bar relates to a means for holding the coupling elements in connected relation with each other. This is done by providing in the one coupling element a well, in the bottom of which is a spring which presses upwardly against a latch bolt. This bolt is beveled on the upper end, and when the coupling is made the bolt will be pushed downwardly against the spring until the bolt finally snaps into an opening in the other coupling element. The bolt has a notch into which a pin extends in order to limit the outward movement of the bolt and also to prevent it from turning inside the well.

The above-described construction is the basis for claims 1, 2, 3, and 5, which are drawn to Fig. 1 of the drawings. Figs. 5, 6, and 7 of the drawings show a modification relating to the pin and other modifications to which claims 4 and 6 are drawn, but which are immaterial in view of our conclusion.

The Examiner rejected all the claims as involving an old and exhausted combination and pointed out that the British patent showed the combination to be old. He stated that if there were any novelty in applicant's device, it resided in the latch bolt arrangement alone and not in a combination of the latch bolt and the things which are to be coupled. The Examiner also rejected all the appealed claims for want of patentability in view of the prior art. The Board agreed with both grounds of rejection of the Examiner.

In view of our conclusion it is not necessary for us to consider the prior art, except in so far as it illustrates the fact that appellant's combination claims are drawn to an old combination. All the claims combine the latch bolt, which they describe, with the parts to be connected. Appellant contends that the claims are definite in defining "the specific form of latch" but argues that the remaining language of the claims is in the form of a preamble which performs "the function of completing the setting of the invention and serving as an actual limitation."

It seems obvious to us that the appealed claims do not fall within the class of claims involved in the decisions cited in appellant's brief. In those decisions it was held that in some instances, introductory statements in claims should be regarded as limitations. Regardless of whether or not the language in controversy is a limitation, it is more than that. The appealed claims actually combine appellant's allegedly improved latch (which the Patent Office tribunals held to be anticipated by the prior art) with the structure to be coupled and recite the relationship between the latch bolt and the adjacent parts.

It is an old expedient, as is shown by the British patent and other patents of record, to take parts of mining drills or of other articles which require connection and make one part fit into a socket of another and have a hole or well containing a pin. Not only is this shown to be old in the art of record, but it is an expedient so old that it might well be said to be within the common understanding. Ofttimes an improvement of a part requires the inventor to adjust it with the device to which it belongs in such a manner as to be a new and useful combination, which, as a combination, brings about a new and useful result other than that merely flowing from the new part itself. If so combining the elements requires the exercise of the inventive faculty, he then may be regarded as an inventor of the combination.

Appellant claims to have made an improvement in the particular kind of bolt or latch device which goes into the hole or well. The improvement, obviously, is not in a new combination. His improvement fits into the combination in the same manner as other latch or bolt devices fit into the combination. As a combination, he obtains no new results, and if he otherwise obtains any new result, it flows from his latch improvement. The old elements of the combination perform their function in the same old way. There is no new co-action between parts of the combination.

Having arrived at this conclusion, it seems hardly necessary to further discuss the law because it is so well settled as to admit of no controversy. This and other courts, on many occasions, have passed upon this question. Appellant has cited no authorities on the subject. The following are pertinent authorities: *In re Germantown Trust Co., Executor*, 19 C. C. P. A. (Patents) 1140, 57 F.(2d) 365, 421 O. G. 857; *In re Hawley*, 26 App. D. C. 324, 121 O. G. 691; *In re Ratican*, 36 App. D. C. 95, 162 O. G. 540; *Langan* v. *Warren Axe & Tool Co.*, 184 Fed. 720, 166 O. G. 986; *In re Buckwalter*, 22 C. C. P. A. (Patents) 1031, 75 F.(2d) 515, 457 O. G. 480; *In re Reed and Lamie*, 22 C. C. P. A. (Patents) 1182, 76 F.(2d) 907, 460 O. G. 5; *In re Weber*, 24 C. C. P. A. (Patents) 1040, 88 F.(2d) 489, 484 O. G. 7; *In re Harris*, 27 C. C. P. A. (Patents) 757, 107 F.(2d) 623, 510 O. G. 776; *In re Land*, 27 C. C. P. A. (Patents) 863, 109 F.(2d) 246, 516, O. G. 813; *In re Land*, 27 C. C. P. A. (Patents) 869, 109 F.(2d) 251, 516 O. G. 1053; and *In re Allatt*, 28 C. C. P. A. (Patents) 1367, 121 F.(2d) 545, 532 O. G. 767.

In the Germantown Trust Co. case, supra, we said:

* * * A combination to be patentable as such must disclose a novelty of cooperation between its elements which produces a new result and amounts to invention, and the mere fact that some elements are themselves novel and possibly patentable as individual elements does not render the combination containing them patentable in the absence of such novel cooperative relation in the combination itself.

In *In re Harris*, supra, we said:

The only question here is whether or not claim 8 defines a patentably novel combination. * * * Any improvement in result that may be brought about in the combination of mirror and light source is entirely due to the characteristics of the new element (the mirror). There is no novel cooperation between this new element and the other elements of the prior art combination.

* * * * * * *

We, therefore, conclude that claim 8 fails to define a patentably novel combination in view of the cited prior art.

Numerous other authorities could be cited and quoted from, sustaining the rule that a new improvement on a part of a device does not necessarily entitle one to a patent claim which purports to define invention in the combination of the new device with the old elements.

Believing, as did the tribunals of the Patent Office, that appellant has made no new and inventive combination, we think that the Board's affirmance of the decision of the Examiner rejecting the appealed claims upon the ground of old combination was proper. The Board's decision is therefore affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE FRIDOLPH

No. 4,686. Decided March 1, 1943

[134 F.(2d) 414]

PATENTABILITY—BANDAGE.

Certain claims to a bandage *Held* unpatentable over the prior art.

APPEAL from the Patent Office. Affirmed.

Messrs. Barnes, Kisselle, Laughlin & Raisch (*Mr. John M. Kisselle* of counsel) for Fridolph.

Mr. W. W. Cochran (*Mr. Howard S. Miller* of counsel) for the Commissioner of Patents.

BLAND, *J.*:

Annette Fridolph appeals here from a decision of the Board of Appeals of the United States Patent Office which affirmed that of the Primary Examiner in rejecting, in view of the prior art, claims 1, 2, 3, 4, 5, 6, 11, and 12, of her application for a patent relating to "bandages and method of making same." Claims 7, 8, 9, and 10, the method claims in the application, were allowed.

Claim 1 of the appealed claims is illustrative of all of them and reads:

1. An article of manufacture adapted for use as a surgical bandage and the like, comprising a length of flexible yielding material of substantial width having a cross-head connecting means of stiffened, relatively impenetrable material secured directly to each end of said length of material, each connecting means being materially shorter than the full width of the material which is decreased in width adjacent said connecting means by smooth overlapping folds so that the width thereof approximates the length of the connecting means, said connecting means being relatively long and narrow but of sufficient length so as to be threaded through an eyelet, aperture or loop and then assume a crosswise position with respect thereto, whereby it is detachably secured in position.

The references relied upon are: Shepherd (British), 12,703, August 31, 1916; Langhammer, 1,483,896, February 19, 1924; German Patent 434,867, September 19, 1924; Blank (Swiss), 135,093, November 1, 1929; Swanstrom, 1,822,912, September 15, 1931; Rohlfing, 1,980,958, November 13, 1934.

The "connecting means" referred to in the claims, according to appellant's specification, is adaptable for use on infants' paper diapers, surgical dressings, hair bands, or ladies' belts and is particularly

adapted to the making of catamenial bandages or sanitary napkins wherein a filler or absorbent material or pad is used in connection with a gauze bandage as a holder. In appellant's disclosure, absorbent pads are confined within the folds of a strip of gauze, which is wrapped around the pads several times. The strip of gauze is continuous, but considerable space is left between the absorbent pads. Every other pad is then twisted with respect to the strip so that it is turned upside down. This operation brings the different parts of the gauze at the ends of the pads into close contact at the point of twisting. At this point the gauge is severed, and a clip, of certain characteristics and material hereinafter referred to, is fastened to the end of the gauze tips.

Some of the claims are drawn to cover the article with gauze tips which are clamped with relatively long, narrow, stiff, but bendable material, which is pressed down on the ends of the gauze. Other modifications of the alleged invention suggest the use of a relatively plastic material which may be pressed into one end to lock the longitudinal threads of the gauze. The plastic material is then hardened to form a long and relatively narrow, stiff cross-head, which is, according to some of the claims, shorter than the full width of the gauze-covered pad.

Appellant explains that the cross-head may be turned endwise and inserted through any kind of opening (such as a small round hole or eyelet) in a supporting member. Appellant also discloses a modification, covered by one or more of the claims, in which there is no twisting operation, but the gauze is merely folded together between the portions containing the pads. Her specification explains that the article produced according to her method is simple, inexpensive, and effective; that it may be readily attached and detached and insures "maximum comfort, flexibility, and also adjustability when desired"; that it is strong and secure and of such smallness in size as not to be uncomfortable and is easy of disposal when discarded; and that her device requires no pins or other cumbersome or uncomfortable obstructions.

The Primary Examiner rejected claims 1 to 4, inclusive, 6, 11, and 12 as being unpatentable over either Shepherd or the German patent in view of Blank, Langhammer, or Swanstrom.

Claim 5 was rejected on the same ground as the above claims, and in addition the Examiner added, "in view of Rohlfing." This claim was separately treated for the reason that it calls for a thermoplastic clip as a securing means for the gauze ends.

The references need but brief discussion. Swanstrom shows a cross-head connector which fits into a slot in a garment fastener.

Langhammer shows a hose supporter. The two ends of a button-supporting tape are clamped with a metal clamp, which is then inserted through a slot in the metal loop member of the hose supporter, in much the same manner as in appellant's structure. The crosswise set of the clamp holds the button-supporting tape or tab in place.

Shepherd relates to catamenial or sanitary towels or bandages. The first steps in making the bandages are similar to those of appellant. The gauze in the space between the pads is merely folded over, and a strip of tape with looped ends is laid lengthwise in the fold. The folded gauze with the strip is then stitched in two places, one row of stitching for each adjacent pad, and the gauze is severed between the rows of stitching. The gauze folds are then turned inside out, leaving a loop to which to fasten the supporting means.

The German patent relates to a catamenial bandage with cellulose wadding. It shows the gauze folded at the ends of the pads and also shows a manner of fastening the ends of the pads to a supporting means. The reference is of interest here only in showing the folds or bringing together of the ends of the gauze at the ends of the pads.

The Blank patent relates to sterile packing for surgical dressings. Blank uses clamps, apparently much like those of appellant, for closing the ends of the packing envelope. Other features of the invention are not of concern here.

Rohlfing, relating to sanitary napkins, is of interest only in so far as it discloses a means of applying thermoplastic material to the ends of the gauze protruding from the pads, thereby making tabs for connection with a supporting means.

In affirming the action of the Examiner, the Board of Appeals briefly said:

> We see no novelty in the concept of using a clip to hold the ends of a bandage cover in view of Blank and we believe it obvious that clips could be used as holding means instead of stitching as in Shepherd. To make these clips of thermoplastic material would be a mere matter of choice in view of Rohlfing.
>
> We also agree with the Examiner that the clamping cross could obviously, in view of the remaining references, be adapted to be threaded through an eyelet for the purpose described.

We are in agreement with the holding of the Board of Appeals that appellant has done nothing more than employ features of the prior art in constructing her bandage and in doing so has only exercised the skill of the art. Great stress is laid by appellant upon the fact that the prior art does not disclose a bandage to be used as appellant's is to be used, which has a light, comparatively stiff, small cross-bar which may be threaded through an eyelet and accomplish the purposes claimed by appellant. There is certainly no novelty in inserting a cross-bar endwise through a hole so that the cross-bar, being broader than the opening, will not, when turned crosswise of the hole, pass back through the opening. It is an old expedient to use a nail or locust thorn to secure a pair of trousers to a hole in a suspender strap. Some buttons are so shaped as to work on the same principle.

Appellant emphasizes that "there is no reference which shows the invention." This may readily be agreed to, but it is entirely proper to consider several references in connection with the allowance of patent claims. It is also inferred from appellant's argument that some of the references should not be considered since they do not relate to bandages. In considering more than one reference, or a reference alleged not to be in the art involved, the question always is: does such art suggest doing the thing which the applicant has done? We think the art of record clearly suggests doing what appellant has done.

It may be that appellant has produced a bandage that has all the good qualities claimed for it and that it is a distinct improvement over the art (although there is nothing of record to show this to be a fact, except the statement of appellant's counsel and appellant's application). This, however, does not necessarily mean that appellant has invented a new article. Invention must be present.

The decision of the Board of Appeals is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

SPERRY *v.* AUFIERO AND MAYO

No. 4,656. Decided February 1, 1943. Petition for rehearing denied February 26, 1943

[134 F.(2d) 174]

1. APPEAL—REASONS OF APPEAL—JURISDICTION.
   "There is nothing in the reasons of appeal with respect to counts 3 and 4 which would invoke our jurisdiction, all of said reasons being confined to predicating error in the decision of the Board with respect to counts 1, 2, 5, and 6. Since those counts are not before us they will not be considered and argument contained in appellant's brief concerning them must be ignored."

2. INTERFERENCE—REDUCTION TO PRACTICE—NECESSITY OF TESTS.
   Appellant Sperry's automobile heater *Held* not to be "simple enough to be classed with those devices the mere assembly of which is sufficient to constitute reduction of an invention to practice; such, for instance, as the electric service switch box involved in *Sachs* v. *Wadsworth*, 411 O. G. 545, 18 C. C. P. A. (Patents) 1284, 48 F.(2d) 928, the means for mounting an outlet box in *Buchanan* v. *Lademann*, 417 O. G. 273, 19 C. C. P. A. (Patents) 836, 54 F.(2d) 425, the magazine clip in *Mason* v. *Hepburn*, 84 O. G. 147, 1898 C. D. 510, 13 App. D. C. 86, the horse-collar in *Couch* v. *Barnett*, 110 O. G. 1481, 1904 C. D. 650, 23 App. D. C. 446, the snap hook in *Schartow* v. *Schleicher*, 156 O. G. 800, 35 App. D. C. 347, and the clamp for holding the blade of a safety-razor in position involved in *Gaisman* v. *Gillette*, 165 O. G. 244, 36 App. D. C. 440."

3. SAME—SAME—SUFFICIENCY OF TESTS.
   "While we do not think it was necessary for appellant to have installed his device in an automobile and to have tested it under actual operating conditions, nevertheless it was incumbent upon him to make his tests under comparable conditions. *Wilson et al.* v. *Sherts et al.*, 467 O. G. 724, 23 C. C. P. A. (Patents) 914, 81 F.(2d) 755; *Smith* v. *Place*, 472 O. G. 739, 23 C. C. P. A. (Patents) 1260, 84 F.(2d) 196; *Myers* v. *Roethel*, 485 O. G. 9, 24 C. C. P. A. (Patents) 1213, 90 F.(2d) 122; *Smith* v. *Swaine*, 542 O. G. 179, 29 C. C. P. A. (Patents) 973, 127 F.(2d) 140."

4. SAME—PRIORITY.
   Record reviewed and *Held* that priority of invention of the subject matter of counts 1, 2, 5, and 6 properly was awarded to appellee Mayo.

APPEAL from the Patent Office. Affirmed.

Messrs. Zabel, Carlson & Wells (*Mr. Max W. Zabel, Mr. Greek Wells*, and *Mr. Foster York* of counsel) for Sperry.

Messrs. Brown, Jackson, Boettcher & Dienner (*Mr. Arthur H. Boettcher* of counsel) for Mayo.

JACKSON, *J.*:

This is an appeal in an interference proceeding wherein the Board of Appeals of the United States Patent Office affirmed a decision of the Examiner of Interferences awarding priority of invention of the subject matter of the six counts in issue to appellee Mayo. Originally a series of interferences involving additional parties was declared, but by the elimination of certain parties and the consolidation of issues the present interference having three parties, Sperry, Aufiero and Mayo, resulted. The party Aufiero did not appeal to this court. Hereinafter the party Mayo is referred to as the appellee.

The interference as it comes to us involves an application filed by appellee March 28, 1936, and an application of appellant filed March 20, 1937. Appellant being the junior party has the burden of proving priority of invention by a preponderance of the evidence.

Counts 1 and 5 are illustrative and read as follows:

> 1. In a fluid-heated type heater for the passenger compartment of automotive vehicles, a fluid-heated radiator core having a plurality of air heating passages each communicating at its two ends respectively with the interior and exterior of the casing, a pair of air impellers within the casing, one adapted to discharge a relatively large flow of air from the casing to the compartment through a relatively large number of said passages, the other impeller adapted to draw another supply of air through a relatively smaller number of other of said passages to the interior of said casing, a wall of the casing providing an inlet port for air supply to the first impeller, a casing wall providing also a port for discharging the air operated upon by the second impeller from the casing, said second impeller relatively so disposed and formed as to effect a greater difference in air pressures on its approach and discharge sides than said first impeller, said casing comprising conduits and said passages and ports substantially comprised in two separate sets of serially related ducts, each set separately conducting air impelled by a different of said impellers into and from the casing, under different air-flow inducing pressures, and a common motor adapted to simultaneously operate both said impellers.
>
> 5. A heater comprising, a heating radiator means for guiding air through the radiator in separate paths, a fan of the axial delivery type for forcing air through one path, a fan of the radial delivery type for forcing air through another path, and a single motor operating both air forcing means.

The involved invention is sufficiently described in the above-quoted counts.

Appellant's preliminary statement alleged conception of the invention and disclosure to others on or about the tenth day of January 1936; and it is alleged that within a few days subsequent to that date he embodied the invention in a machine having all the necessary elements to demonstrate reduction to practice of the invention and that said machine, although not containing all the elements of the complete device, was an actual reduction to practice, and that his device was successfully operated.

Appellee in his preliminary statement alleged conception of the invention and disclosure to others as of February 27, 1936, and reduction to practice as of March 26, 1936.

Both parties here took testimony.

It appears from the record that appellant in the year 1935 became interested in the question of

causing currents of air to move in opposite directions by means of an ordinary air propelling fan and a Sirocco or blower type fan mounted directly behind the former and on the same shaft, the end of the shaft extending through a motor immediately behind the Sirocco or blower fan. Before mounting the propeller fan on the shaft two holes were bored in each of the four fan blades close to the base of each. Appellant testified that work began on this device, known as Exhibit 1, between September 5 and 21, 1935. None of the elements in this device was new; the function of each was well known.

For a test of the device appellant said that he put an ordinary heater core, such as is found in automobile heaters, in front of the fan assembly, put a shroud around the blower and by motor rotation of the fan assembly discovered that he could draw air through the rotating propeller fan sufficient to produce a volume of air for the blower. Appellant testified that he was endeavoring to substantiate his theory of directing air through a heater core so that heat would be drawn directly from the heater and at the same time provide a current of heated air moving in an opposite direction so that a volume of air could be used for other distributing purposes, for instance, to produce heated air in the body of an automobile for rear seat heating and at the same time directing heat to the driver's feet and for defrosting purposes. According to appellant's testimony, the operation of this device enabled him to obtain air through the center of the propeller type fan.

Exhibit 2, which appellant states was made and tested October 15, 1935, comprises the assembly of a motor, a brass housing approximately four inches in diameter and two inches wide, tangent to which protrudes a brass rectangular spout the full width of the housing, in which housing is a metal wheel about two inches in depth and three inches in diameter on the outer edge of which are soldered six blades of a propeller type fan. These blades appear to be the outer halves of conventional propeller fan blades. The cylindrical surface of the wheel consists of blades of the blower fan type and the bottom is a circular plate. The motor is connected to the housing and contained wheel by means of a shaft, the wheel being rotated by the action of the motor. The motor is attached to the housing by means of angle-irons and screws or bolts.

Exhibit 3 is an ordinary automobile heater coil in the conventional rectangular casing. It has a steel plate backing in which there is a large circular flanged opening. Soldered to the heating core in the center of the opening there is a circular brass ring of about the same diameter as that of the blower fan. The plate has two L-shaped brackets to which Exhibit 2 is intended to be fastened, and over those brackets is a large U-shaped bracket. At each of two diagonal corners of the casing protrude copper pipes which are the circulatory water-heating means for the core. Appellant testified that Exhibit 3 without the U-shaped bracket was completed about the same time as Exhibit 2. An assembly of Exhibits 2 and 3 was made by placing lugs of Exhibit 2 on the smaller brackets of Exhibit 3 and connecting the same. This placed the blades of the propeller fan over the circular area between the said flange and the smaller brass ring, and the blower fan portion of the device directly over the smaller brass ring. Appellant testified that after the assembly was made it was tested by drawing smoke through the core by means of the wheel device.

It was testified by appellant that the operation of the assembly of Exhibits 2 and 3 did not draw as great a volume of air as he desired, so he decided to make a blower of larger diameter. He stated that in about two weeks after the testing of the assembly Exhibits 2 and 3, he had made, under his direction, another propeller fan and blower model, which is known as Exhibit 4. This exhibit differs from Exhibit 2 mainly in that the diameter of the blower wheel is greater. In all other respects it is substantially the same as Exhibit 2. Appellant stated that Exhibit 4 was assembled with Exhibit 5 (substantially the same device as Exhibit 3) and believed it was tested by putting hot water through the core and that the B. t. u. heat dissipation of the entire unit was calculated. Appellant testified that Exhibits 4 and 5 were completed about two weeks after Exhibit 2 was completed, which was October 15, 1935.

The witness Deane, a builder and designer of motors, was the motor department manager of Excel Auto Radiator Company, of which appellant was the mechanical engineer and general manager. He testified that he made the motor and also cut the holes in the propeller blades of Exhibit 1. He stated he did this at the request of appellant, who, he said, had the idea that because the air in front of the center of propeller fan blades is always dead he could utilize the dead air space "by putting holes in there and feeding a Sirocco blower." He testified that this work was done in the latter part of August 1935. The witness testified that he saw Exhibit 1 being tested with cigarette smoke by appellant, which tests he said were made after he had completed the holes in the fan, and that he also saw Exhibit 2 being made sometime in September 1935. On being shown Exhibit 3, the witness said he recognized only the bracket that was made for Exhibit 2 but he recalled that the device he saw included the U-shaped mounting bracket and that he saw Exhibits 2 and 3 assembled but the only test he saw made on that unit was with smoke. In summary the witness Deane stated that he saw the first test (of Exhibit 1) in the latter part of August and a second test (of the assembly of Exhibits 2 and 3) in September of 1935, and that the tests consisted of holding a cigarette in front of the blower and watching the smoke go into the blower and out through the blower outlet.

The witness Peto was, during the years 1935, 1936 and 1937, employed by the Excel Auto Radiator Company in experimental work and special die and fixture work. He testified that Exhibit 2 was "mostly" constructed by him under direction of appellant. In this connection he stated as follows:

> • • • I received a blower used in this device with four blades mechanically secured to the outside diameter. I dismantled the four original blades and changed to six. The four was on when I got it. I then constructed the blower housing which had a straight spout, which was later changed to one put on at an angle. This same device, with the spout changed to an angled position. The motor was made up for this device at that time.

He stated that the motor on the exhibit was made by Mr. Deane, saying that "it was under his supervision for this device." The witness Peto said he assembled the motor with the housing and the fan and that

> • • • To establish a test, we constructed a steel plate, very large square, which was mounted on a clamping device to hold it erect. We built in a shroud and clamped on the radiator core, which was later tried out for efficiency of air. I also mounted on to that plate two brackets for holding the device, Exhibit 2.

The witness described the test as follows:

> • • • The complete device and equipment was moved from my bench to a newly constructed laboratory where we had the power and instruments for testing velocity of air. There it was tested with smoke from burning rags.

The witness further testified that the brass circular flange on Exhibit 3, heretofore mentioned, was made by him and is what he called a "shroud". He testified that he and appellant were present at that test. The evidence of this witness shows that after what he calls the first experiment with Exhibit 2, Exhibit 4 of a larger capacity was built by him with the assistance of one Golick. He also stated that he and Golick constructed Exhibit 5 and that after it was constructed Exhibit 4 was mounted thereon and it was taken to the laboratory and connected to a hot water supply and electricity. The witness then testified as follows:

> • • • We made a test for electrical rating of amperes, the amount of air that was passed out to the outside, the temperature of it, and efficiency of the defroster, which was also tested for temperature of air.

The witness stated that the testing of Exhibits 2 and 3, 4 and 5 was done about three or four or five months after the laboratory was built, which the record shows was in June or July 1935. He stated that appellant first talked to him in the fall of 1935, when appellant was going to make a trip, and on that occasion appellant told him he had a new type fan and blower defrosting combination which he would work on when he returned from the trip, about the last "week and a half" in September 1935.

No documentary records of the dates of making, assembling or testing appellant's exhibits were offered in evidence.

The Examiner of Interferences in his decision thoroughly discussed the testimony on behalf of appellant in connection with his exhibits. He held that none of said exhibits met the limitations of counts 1, 2, 3, and 4 and because of said holding restricted appellant to his filing date for conception and constructive reduction to practice with respect to those counts. In that decision it is stated appellant acknowledged in his brief that he could not prevail as to counts 3 and 4.

The Examiner stated that the testimony with respect to Exhibits 2 and 3 was sufficient to prove their assembly in cooperative relation at least by the end of October 1935 and sufficient to establish conception of the invention defined by counts 5 and 6 as of that date. He therefore awarded appellant the date of January 10, 1936, the date alleged in his preliminary statement, for conception of the invention. The Examiner held that there was no evidence of diligence shown by appellant subsequent to June 1936 and for the reasons stated he refused to award priority of invention of the subject matter of counts 5 and 6 to appellant.

With respect to the tests of Exhibits 2 and 3 the Examiner stated as follows:

> The tests to which Sperry Exhibits 2 and 3 were subjected appear to have been entirely inadequate to satisfy the requirements for reduction to practice. The party Mayo contends that it would be necessary to install and successfully operate such a device in an automobile to achieve an actual reduction to practice. While this might be necessary for some devices, it is not believed that it would be essential in this case if sufficiently thorough, accurately measured tests under suitable conditions were carried out in a laboratory. However, the tests performed by Sperry apparently involved nothing more than a visual inspection of the air flow, made possible by introducing smoke into the air stream. This is clearly not a sufficient test. Moreover, the only evidence that even suggests that this single inadequate test produced satisfactory results is the statement by Deane that—
>
> "We found that we got enough suction by holding our cigarette in front of the opening of the blower (illustrating), by watching the smoke go into the blower and out through the blower outlet." (Sperry record, page 77 XQ. 61.)
>
> Such an uncertain test could hardly be accepted as sufficient to establish satisfactory operation of even the single feature of the device (the blower) which was investigated. Furthermore, Sperry himself stated that Exhibit 2 did not deliver as much air as was desired (Sperry record, page 37, Q. 33). Apparently the heating capacity of the unit and the efficiency of the propeller type fan were not even tested.
>
> The evidence relating to Sperry Exhibits 2 and 3 does not establish satisfactory operation of those devices for their intended purpose, and, therefore, falls short of proving actual reduction to practice.

In discussing the testimony with relation to Exhibits 4 and 5 the Examiner stated:

> • • • Except for Peto's uncertain and indefinite statement • • • , there is no corroboration of Sperry's own testimony as to the approximate date when Exhibits 4 and 5 were assembled together and tested. This kind of proof is not of such a satisfactory character as is required to carry a junior party's date of invention back of a senior party's filing date. The probabilities are that Exhibits 4 and 5 were made, assembled, and tested before the end of December, 1935, but the Examiner of Interferences is not warranted in speculating as to probabilities in such a case. The evidence is deemed insufficient to establish the cooperative assembly and testing of Sperry Exhibits 4 and 5 prior to March 28, 1936, the filing date of the senior party, Mayo.

Further in his decision the Examiner said:

> The assembly in question [Exhibits 4 and 5] clearly responds to all the limitations of counts 5 and 6, and the tests to which the device was subjected appear to have been more complete than those to which Exhibits 2 and 3 were subjected. However, the results of those tests were not divulged by the witnesses and no records of the tests were introduced in evidence. There is not even a broad statement to the effect that the results were satisfactory.

The Board of Appeals, in affirming the decision of the Examiner of Interferences, held the tests to be insufficient, and in this connection stated as follows:

> • • • The only purpose of the device disclosed in the Sperry application is in connection with an automobile, but it is obvious from the Sperry record that no test of this type was carried out. The party Sperry contends that the completion of the unit disclosed in Exhibits 2, 3, 4, and 5 constituted a reduction to practice in that one examining the same could readily calculate the amount of air delivered by each of the fans. While it is true that there have been cases such as cited

by the court in *Rolfe* v. *Hoffman*, cited by the Examiner of Interferences, [118 O. G. 833, 1905 C. D. 352], in which it was held that the mere production without any successful test would be reduction to practice, still this is not the situation here. The cases mentioned by the court related to simple devices having no moving parts, but in the present case it is clear that while the fan devices would rotate, it is not clear that they would successfully perform the functions desired. For reasons stated we can see no error in the decision of the Examiner holding Sperry's alleged reduction to practice insufficient.

The citation by the Examiner of Interferences of the case of *Rolfe* v. *Hoffman*, 118 O. G. 833, 1905 C. D. 352, was evidently an inadvertence. The case cited, it will be seen, is a decision of the Commissioner of Patents. That decision was reversed by the Court of Appeals of the District of Columbia (now the United States Court of Appeals for the District of Columbia) in *Rolfe* v. *Hoffman*, 121 O. G. 1350, 26 App. D. C. 336. In that decision the Court of Appeals held that the mere construction of simple devices constituted reduction to practice, actual tests not being essential to establish such reduction to practice.

Appellant contends here that his device not only meets the limitations of counts 1, 2, 5, and 6, but also that it is so simple that its mere assembly is sufficient to constitute a reduction to practice. He further contends that his device was sufficiently reduced to practice with respect to all of the counts.

[1] There is nothing in the reasons of appeal with respect to counts 3 and 4 which would invoke our jurisdiction, all of said reasons being confined to predicating error in the decision of the Board with respect to counts 1, 2, 5, and 6. Since those counts are not before us they will not be considered and argument contained in appellant's brief concerning them must be ignored.

It is clear that appellant did not construct any device meeting the limitations of "a pair of air impellers within the casing" contained in count 1, and "the combination with a ported heater casing, a motor in the casing" contained in count 2.

Appellant's contention here is mainly directed to his alleged right to priority of invention as defined by counts 5 and 6. To sustain this contention his argument is based mainly on Exhibits 2, 3, 4, and 5 and the testimony in connection with those exhibits.

While exhibits other than those hereinbefore mentioned were received on behalf of appellant we do not deem it necessary to discuss them nor the testimony in connection with them for the reason that if the record with respect to Exhibits 2, 3, 4, and 5 is not sufficient to establish priority of invention of the subject matter of counts 5 and 6 the other exhibits and testimony concerning them are of no assistance to him.

[2] [3] Assuming, without holding, that the assembly of Exhibits 2 and 3 and the assembly of Exhibits 4 and 5 were made on the dates claimed by appellant, it is clear that the testimony concerning the tests to which those assemblies were subjected is not sufficient to establish that the tests demonstrated a reduction to practice of the invention defined by counts 5 and 6.

We do not believe that appellant's device is simple enough to be classed with those devices the mere assembly of which is sufficient to constitute reduction of an invention to practice; such, for instance, as the electric service switch box involved in *Sachs* v. *Wadsworth*, 411 O. G. 545, 18 C. C. P. A. (Patents) 1284, 48 F.(2d) 928, the means for mounting an outlet box in *Buchanan* v. *Lademann*, 417 O. G. 273, 19 C. C. P. A. (Patents) 836, 54 F.(2d) 425, the magazine clip in *Mason* v. *Hepburn*, 84 O. G. 147, 1898 C. D. 510, 13 App. D. C. 86, the horse-collar in *Couch* v. *Barnett*, 110 O. G. 1481, 1904 C. D. 650, 23 App. D. C. 446, the snap hook in *Schartow* v. *Schleicher*, 156 O. G. 800, 35 App. D. C. 347, and the clamp for holding the blade of a safety-razor in position involved in *Gaisman* v. *Gillette*, 165 O. G. 244, 36 App. D. C. 440.

The sole purpose of the invention here relates to the heating of an automobile by an apparatus or device which comprises means for heating the interior of an automobile with two currents of heated air moving in different directions. It is old in the art to heat the interior of an automobile by means of heated air moving in a single path. The heated air circulating means of appellant's device was novel in that it comprised on the circumference of the Sirocco or blower fan the outer portions of six blades of the propeller type fan. There is no evidence before us sufficient to establish that appellant's air circulating means was adequate to produce the result sought by the operation of his device. While we do not think it was necessary for appellant to have installed his device in an automobile and to have tested it under actual operating conditions, nevertheless it was incumbent upon him to make his tests under comparable conditions. *Wilson et al.* v. *Sherts et al.*, 467 O. G. 724, 23 C. C. P. A. (Patents) 914, 81 F.(2d) 755; *Smith* v. *Place*, 472 O. G. 739, 23 C. C. P. A. (Patents) 1260, 84 F.(2d) 196; *Myers* v. *Roethel*, 485 O. G. 9, 24 C. C. P. A. (Patents) 1213, 90 F.(2d) 122; *Smith* v. *Swaine*, 542 O. G. 179, 29 C. C. P. A. (Patents) 973, 127 F.(2d) 140. Whether or not appellant's tests were made under comparable conditions we cannot ascertain from the record. Appellant himself did not testify positively that his assembly of Exhibits 4 and 5 was connected with a hot water system, and his sole corroborating witness with respect to that test stated unequivocally that he was no judge of the efficiency of automobile heaters. While appellant "believed" that the test of that assembly included a connection of the heating core with hot water and stated that in the test the B. t. u. heat dissipation of the entire structure was calculated neither he nor any other witness has testified what the result of such calculation was.

It seems to us it would have been a simple matter for appellant to have testified what the actual result of such test was with respect to the temperature of the air coming from the propeller and blower fans respectively, the pressure and volume thereof and whether or not it was sufficient to heat the interior of an automobile. In the face of such a record we cannot indulge in speculation, surmise or inference, which we would be compelled to do if we were to hold any of the tests of appellant's device to have been sufficient.

The Examiner of Interferences properly held that appellant's record was sufficient to establish that he had a conception of the invention as to counts 5 and 6 in October 1935. It is clear, however, that appellant did not exercise reasonable diligence throughout the critical period from immediately prior to March 28, 1936, to March 20, 1937, his filing date. The record shows that appellant made another air circulating device comprising the two fan assembly and housing in May or June 1936. That fan blower housing assembly is in evidence here, represented by Exhibit 8. It differs in no essential particular from Exhibits 2 and 4. However, there is nothing in the record to advise us that appellant did any work upon the involved invention between that date and the date upon which he filed his application.

[4] For the reasons hereinbefore set out the decision of the Board of Appeals affirming that of the Examiner of Interferences awarding priority of invention of the subject matter of counts 1, 2, 5, and 6 to appellee Mayo is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE JENNINGS

No. 4,681. Decided March 1, 1943

[134 F.(2d) 492]

PATENTABILITY—PLANT WATERING METHOD AND APPARATUS.

Certain claims to an apparatus for watering plants and to a method of watering plants *Held* unpatentable over the prior art.

APPEAL from the Patent Office. Affirmed.

Messrs. Barnes, Kisselle, Laughlin & Raisch (*Mr. John M. Kisselle* of counsel) for Jennings.

Mr. W. W. Cochran (*Mr. Howard S. Miller* of counsel) for the Commissioner of Patents.

JACKSON, *J.*:

This is an appeal from a decision of the Board of Appeals of the United States Patent Office affirming a decision of the Primary Examiner rejecting claims 1 to 5 inclusive, 7 to 11 inclusive, and 13 to 20 inclusive, of an application for a patent for certain new and useful improvements in "Plant Watering Method and Apparatus". Two apparatus claims were allowed.

In the Examiner's statement it is pointed out that six different forms of the invention are shown. Claims 1, 2, 13, and 16 to 20 inclusive were held to be generic to all forms of the invention. Those claims were rejected for want of invention over the prior art, and appellant was required to elect a single species. In response to the requirement election was made of the species shown in Figures 2, 4, and 7, preferably Figure 4, of the application.

Claims 4, 5, 7, 8, 9, and 15 were rejected on the grounds of estoppel to prosecute them in the involved application in the absence of an allowable generic claim, the Examiner holding that those claims are not readable on the elected species.

The involved claims are for method and apparatus. They are so closely related that it is not necessary to give them separate consideration. Claims 1 and 14 are illustrative of the subject matter involved and read as follows:

1. An apparatus for watering and feeding plants comprising a source of water, and a strip of glass wool extending from the source to root soil of a plant whereby water may be furnished to the plant.

14. A method of irrigating plants which comprises locating a body of glass wool to extend from a water source to root soil of a plant and from said root soil to atmosphere above said root soil.

The references cited are: George (British), 1,104, of 1875; Clapp et al. (British), 1,608, January 25, 1895; Kremzow (German), 183,168, April 2, 1907; Von Pazsiczky (German), 261,909, July 3, 1913; Barlow, 1,305,434, June 3, 1919; Kneller, 1,977,827, October 23, 1934; Richards, 2,084,005, June 15, 1937; McCall, "A New Method . . . in Sand Culture", published 1915 in Journal of the American Society of Agronomy, vol. 7, plate 4 and page 250.

The invention relates generally to plant husbandry and is particularly directed to so-called self-watering flower pots and flower beds in which water is supplied to the soil in which the plant grows by means of a wick made of glass wool extending from a source of water to the soil.

The generic claims were finally rejected for the reason that they are unpatentable over the Richards reference. Other rejections of the claims of that group were made by the Examiner, but in view of our conclusion it is not necessary to discuss them.

Claims 3, 10, 11, and 14 were also rejected on the same reference in view of the Kremzow, Barlow, Kneller or George references.

The Richards patent relates to apparatus and methods of irrigation and more particularly to "ceramic materials and methods of controlling the flow of fluids therethrough." One of the drawings in that patent shows a flexible porous tubular irrigator which is kept filled with water from an outside source. The plant is furnished with water through the pores of the irrigator, which is placed in the soil beneath the roots of the plant. The specification states that the irrigator may be made of a fibrous capillary material, such as asbestos, cotton or ceramic, which is embedded in a wall of flexible material such as rubber, the finished tube resembling garden hose except that the wall is porous. The specification further states as follows:

The flexible walled irrigators can be made by the same process now commonly used for canvas, water hose, garden hose or asbestos steam hose, except that when rubber is employed, a porous, spongy form must be used. I may also employ in my flexible porous irrigators, glass fibers, spun and woven in much the same manner as asbestos and plant fibers now are.

The Kremzow patent relates to a watering arrangement for flower pots with an absorbent medium introduced through the bottom of the pot. It discloses a flower pot superimposed upon a water container from which a wick made of felt, asbestos or the like projects through the bottom of the pot into the soil.

The Barlow patent relates to plant boxes and what is said to be a novel, self-watering device for plants. It discloses a soil container for growing plants to which moisture is supplied from a reservoir in the lower portion of the box by means of an asbestos strip.

The patent to Kneller relates to a so-called self-watering flower vessel and discloses a tube of capillary material extending from a water reservoir in the base of a flower pot through the root soil and thence protruding above the soil into the atmosphere. The porous member is made of porous baked clay.

The George patent relates to flower pots, troughs, and plant holders and means of supplying fluids or moisture to trees, plants, cuttings, growing crops and seeds. One of the drawings of the patent shows a flower pot in which a wick of capillary material extends from a water reservoir below the pot into the soil. The wick is a piece of rope, sponge, fabric, wood or other fibrous or porous material which will act by capillary attraction to conduct the water from the reservoir into the soil.

It is not necessary to consider the other references.

The Board of Appeals approved the reasoning and conclusions reached by the Primary Examiner.

It will be seen that it is old in the art to supply moisture to the roots of plants by means of wicks. It will also be observed that it is old in the art to use glass fibers in an irrigating apparatus such as is shown in the Richards reference. Therefore, the question presented to us is whether or not the claims here present any patentable novelty over Richards and Richards in view of Kremzow, Barlow, Kneller or George.

Appellant contends that he has discovered and utilized a new property of glass wool not heretofore known to inventors in the plant-watering art or in any other art. He argues that he has discovered that glass wool has a hydrophilic property or attraction for water which is entirely independent of the capillary action which has been previously relied on, as in the use of cotton and asbestos as wicks. Therefore, appellant argues that the principle of mere substitution of materials does not apply herein.

The generic claims herein provide for an apparatus for and a method of transferring moisture from a source of water to the root soil by means of a strip or body of glass wool or spun glass wool. The Richards patent plainly discloses an apparatus for and method of supplying moisture to root soil. While the watering means of Richards may comprise ceramic or other porous material, the patent plainly states that he may employ in his flexible porous irrigators "glass fibers spun or woven in much the same manner as asbestos and plant fibers now are." Therefore, in our opinion the generic claims are squarely met by the Richards patent and we agree with the reasoning of the Primary Examiner that the generic claims differ only by a statement of theory as to how and why Richards' apparatus works.

Claims 4, 5, 7, 8, 9 and 15, as was held by the tribunals below, do not read upon the elected species. Appellant in his brief does not rely upon alleged error on the part of the Patent Office in rejecting those claims on the grounds of estoppel as hereinbefore stated. Furthermore, they are not discussed in the brief. Therefore, the appeal as to those claims is considered to be abandoned here, and will not be discussed.

As to the rejection of claims 3, 10, 11, and 14, we are in agreement with the tribunals below, for the reason that it plainly appears they are unpatentable over the Richards reference for the same reason given by the Primary Examiner with respect to the generic claims. We are of opinion that in employing glass fabric for the wick disclosed in such references as Kremzow, Barlow, Kneller, or George appellant has made only an analogous use of the irrigator of the Richards patent.

While appellant has not specifically discussed the separate claims involved herein, he contends that claim 14 presents a feature which renders the claim patentable over the prior art in that it calls for glass wool extending from the source to soil and from the soil to the air. An examination of the Kneller reference discloses that one of its figures shows the porous member extending from the water to the root soil and thence to the atmosphere. We think it would be obvious to one skilled in the art to replace the porous tube of Kneller with the spun glass fabric shown in the Richards patent. Therefore we cannot agree with appellant's contention as to claim 14.

For the reasons hereinabove stated, the decision of the Board of Appeals is affirmed.

Affirmed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,359,024, P. D. Brewster, Method of color cinematography; 1,359,025, same, Apparatus for color cinematography, D. C., S. D. N. Y., Doc. 13/351, *P. D. Brewster* v. *Technicolor, Inc., et al.* Dismissed for lack of prosecution (notice June 7, 1943).

1,359,025. (See 1,359,024.)

1,619,742, J. E. Mayhew, Garment hanger, filed June 17, 1943, D. C., N. D. N. Y., Doc. 1271, *The Mead Corp.* v. *Knickerbocker Box & Board Co.*

1,637,184, J. A. Guay, Friction clutch; 2,027,650, H. Nutt, Clutch plate; 2,119,025, H. V. Reed, same; 2,129,372, 1,659,289, D. E. Gamble, same, D. C., E. D. Ill. (Danville), Doc. 68–D, *Borg-Warner Corp.* v. *Chefford Master Mfg. Co., Inc.* Dismissed with prejudice as to infringement Mar. 20, 1943.

1,637,885, H. Wasserman, Fur bearing sheet used in the manufacture of garments and garment trimmings and process of producing same, D. C., S. D. N. Y., Doc. 10/348, *The Constad Laboratories* v. *Ace Sta-Rite et al.* Dismissed for lack of prosecution June 7, 1943.

1,659,289. (See 1,637,184.)

1,677,022, 1,682,167, 1,894,028, A. Deutschmeister, Advertisement carrier, D. C., S. D. N. Y., Doc. 12/499, *D & S Patents Corp.* v. *The Sawdon Co., Inc.* Dismissed for lack of prosecution (notice June 7, 1943).

1,682,167. (See 1,677,022.)

1,695,223. (See Re. 17,345.)

1,697,754. (See Re. 17,114.)

1,768,496, B. Trager, Brief bag; 2,043,833, A. I. Klotz, Protecting framing for brief cases, D. C., S. D. N. Y., Doc. 10/340, *A. I. Klotz* v. *R. H. Macy & Co., Inc.* Dismissed for lack of prosecution (notice June 7, 1943).

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1,850,319, Fensom & Green, Advertising sign, D. C., S. D. Ohio, W. Div., Doc. E 1024, *The Lackner Co., Inc., et al.* v. *The Quehl Sign Co.* Patent held invalid, bill dismissed for want of equity (notice June 21, 1943).

1,856,864. (See Re. 17,114.)

1,859,004. (See Re. 17,114.)

1,868,123, F. Pertot, Hat form, D. C., S. D. N. Y., Doc. 6/444, *F. Pertot* v. *National Saddler Co.* Dismissed for lack of prosecution (notice June 7, 1943).

1,867,314, I. Gurwick, Method for multi-color printing on transparent cellulose paper and product resulting from same, D. C., S. D. N. Y., Doc. 11/409, *Shellmar Products Co.* v. *Baker Gravure Corp.* Dismissed for lack of prosecution (notice June 7, 1943).

1,874,179, A. C. Furo, Headlight indicator, D. C., S. D. N. Y., Doc. 16/257, *G. A. Biasco* v. *General Motors Corp.* Dismissed for lack of prosecution (notice June 7, 1943).

1,894,028. (See 1,677,022.)

1,942,353. (See Re. 17,345.)

2,027,650. (See 1,637,184.)

2,039,218. (See Re. 17,114.)

2,043,833. (See 1,768,496.)

2,108,174. (See Re. 21,144.)

2,112,606, E. Pless, Film development spool, D. C., S. D. N. Y., Doc. 7/481, *Mimosa American Corp. et al.* v. *R. H. Macy & Co., Inc., et al.* Consent order discontinuing action without prejudice as to R. H. Macy & Co., Inc., Willoughby Camera Stores, Inc., and Abe Cohen's Exchange, Inc., Jan. 3, 1942. Dismissed for lack of prosecution as to Elkay Photo Products Co., June 7, 1943.

2,119,025. (See 1,637,184.) 2,129,372. (See 1,637,184.)

2,174,336, Walker & Foran, Method of recovering well fluids and conserving reservoir pressure D. C., E. D. Tex. (Tyler), Doc. 417, *Distillate Engineering & Processes Co., and Eureka Process Corp.* v. *Lone Star Gasoline Co. et al.* Dismissed with prejudice June 21, 1943. Doc. 418, *Distillate Engineering & Processes Co., and Eureka Process Corp.* v. *Trinity Gas Corp. et al.* Decree as above.

2,191,314, W. A. Davis, Wrist watch strap construction, D. C. R. I. (Providence), Doc. 146, *S & B Lederer Co.* v. *Kay Jewelry Co.* Judgement for plaintiff enjoining defendant from infringing claim 1 (notice June 18, 1943.)

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2,299,269, J. R. Gammeter, Method and apparatus for making dipped rubber articles, filed June 16, 1943, D. C. N. J., Doc. 2954, *J. R. Gammeter* v. *Allied Latex Corp. et al.*

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2,320,327, J. F. Meduna, Application of spray metal to metal surfaces, filed June 21, 1943, D. C. Conn. (New Haven), Doc. 1017, *Metallizing Engineering Co., Inc.*, v. *Kenyon Bearing & Auto Parts Co., Inc., et al.* Same, filed June 22, 1943, D. C., S. D. Ohio, W. Div., Doc. 743, *Metallizing Engineering Co., Inc., v. Buckeye Service & Supply et al.* Same, D. C., W. D. N. Y., Doc. 1473, *Metallizing Engineering Co., Inc.*, v. *Balco-Pedrick Parts Corp. et al.* Doc. 1474, *Metallizing Engineering Co., Inc.*, v. *B. Simon, Inc., et al.* Same, D. C., N. D. Ohio, E. Div., Doc. 21875, *Metallizing Engineering Co., Inc.*, v. *Aberdeen Motor Supply Co., Inc., et al.* Same, filed June 22, 1943, D. C., N. D. Ala. (Montgomery), Doc. 252–M, *Metallizing Engineering Co., Inc.*, v. *Parts Service Corp. et al.*

Re. 17,114, 1,697,754, F. H. Chandler, Toasting or cooking apparatus; 1,859,004, E. Reich, Heating device; 1,839,112, H. R. Mills, Electrical cooking machine; 1,856,864, E. C. Claus, Cooking utensil; 2,039,218, A. Govoroff, Electrical cooking machine, filed June 23, 1943, D. C. Conn. (New Haven), Doc. 1019, *The Griswold Mfg. Co.* v. *E. Reich.*

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Des. 114,416, C. Stoll, Sofa, D. C., S. D. N. Y., Doc. 3/479, *Stand-Built Upholstery Co., Inc.*, v. *Morris Chorost & Co.* Dismissed for lack of prosecution (notice June 7, 1943).

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Des. 118,917, M. Stone, Dress, D. C., S. D. N. Y., Doc. 12/264, *Will Steinman, Inc.*, v. *Harlene Frocks, Inc.* Dismissed for lack of prosecution (notice June 7, 1943).

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Des. 119,912, E. Breer, Dress, D. C., S. D. N. Y., Doc. 9/246, *Musman-Pincus, Inc.*, v. *Jay-Day Dress Co., Inc.* Dismissed for lack of prosecution (notice June 7, 1943).

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Des. 122,637, S. Novak, Dress, D. C., S. D. N. Y., Doc. 10/460, *Flora Dress Co.* v. *Anna Kay Frocks, Inc.* Dismissed for lack of prosecution (notice June 7, 1943).

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Des. 127,721, A. Gold, Necktie clasp, D. C., S. D. N. Y., Doc. 19/60, *Gold Bros.* v. *G. T. Moore Sons, Inc.* Consent order of discontinuance (notice June 21, 1943).

Des. 128,318, F. B. Saloff, Dress, D. C., S. D. N. Y., Doc. 16/220, *Lee Claire, Inc.*, v. *Andora Frocks, Inc., et al.* Consent judgment as to Andora Frocks, bill dismissed for lack of prosecution as to Slimline Dress Co. (notice June 7, 1943).

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Des. 129,248, E. Wener, Dress, D. C., S. D. N. Y., Doc. 15/382, *Flora Dress Co.* v. *Ramo Frocks, Inc., et al.* Dismissed for lack of prosecution (notice June 7, 1943).

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Des. 135,261, Sloane & Sloane, Handbag, D. C., S. D. N. Y., Doc. 21/312, *Sloane Bros.* v. *Retailer Handbag Co.* Stipulation of dismissal (notice June 22, 1943). Doc. 21/313, *Sloane Bros.* v. *Diana Bag Co.* Stipulation of dismissal without prejudice (notice June 23, 1943).

T. M. 83,100, Standard Oil Co. of New York, Naptha and gasoline; T. M. 287,746, same, Petroleum and products of petroleum, C. C. A., 6th Cir., Doc. 9335, *Socony-Vacuum Oil Co., Inc.*, v. *Oil City Refiners, Inc., et al.* Doc. 9336, *Oil City Refiners, Inc.*, v. *Socony-Vacuum Oil Co., Inc.* Judgment affirmed on both appeals June 22, 1943.

T. M. 287,746. (See T. M. 83,100.)

BULLETIN OF DECISIONS OF PATENT OFFICE ON TRADE-MARKS

RENDERED DURING JUNE, 1943

EX PARTE FRAM CORPORATION, Serial No. 441,200.

In a decision rendered June 2, 1943 (166 Ms. Dec. 199, 57 U. S. P. Q. 462), *First Assistant Commissioner Frazer* passed upon the petition by Fram Corporation, of East Providence, R. I., for reconsideration of his decision of May 6, 1943 (551 O. G. 737, 57 U. S. P. Q. 330), affirming the refusal of the Examiner of Trade-Marks to register the expression "Oil & Motor Cleaner," under the act of March 19, 1920, as a trade-mark for oil filters.

In his decision upon the request for reconsideration, the First Assistant Commissioner quoted as follows from his earlier decision:

"It may well be that to persons who are familiar with applicant's device, the expression 'Oil & Motor Cleaner' is indicative of origin in applicant, particularly in view of the fact that the expression invariably appears in association with applicant's registered trade-mark 'Fram.' But by the general public, I think it would be regarded merely as the name of the goods."

He then added:

"Applicant insists that if the alleged trade-mark may be 'indicative of origin' to anyone, under any circumstances, it should not be refused registration. I do not think that is necessarily true. As I had occasion to remark in the somewhat similar case of *Ex parte Hardinge Company*, 491 O. G. 723, 37 U. S. P. Q. 754: 'A trade-mark must indicate origin, but it does not follow that everything which indicates origin is a trade-mark.'

"I am free to confess, however, that the language employed in the instant case was not happily chosen. The thought I intended to express was that because of its invariable association with applicant's registered trade-mark 'Fram,' purchasers would be likely to know that the expression 'Oil & Motor Cleaner' refers to a product of applicant's manufacture. Standing alone it would have no such significance, except to those who may have knowledge of the asserted fact that no other dealer in oil filters uses the expression; and that fact alone does not make it a trade-mark. *In re Bailey Motor Co.*, 26 C. C. P. A. 1136, 102 Fed.(2d) 843.

"Applicant takes exception to the statement in my decision that the word 'cleaner' is the generic name of applicant's filters. That statement was based upon an admission in applicant's brief on appeal that 'a filter undoubtedly is a cleaner.' If that be true, then obviously the word 'cleaner,' as applied to a filter, is generic.

"The petition is granted to the extent that the foregoing discussion may be considered as incorporated in the decision on appeal.

"The decision of the Examiner of Trade-Marks remains affirmed."

MOHAWK CARPET MILLS, INC., *v.* BISSELL CARPET SWEEPER CO., Opposition No. 20,705.

In a decision rendered June 8, 1943 (166 Ms. Dec. 201, 58 U. S. P. Q. 30), *First Assistant Commissioner Frazer* affirmed the decision of the Examiner of Trade-Mark Interferences sustaining the opposition of Mohawk Carpet Mills, Inc., of Amsterdam, N. Y., to the application of Bissell Carpet Sweeper Co., of Grand Rapids, Mich., for registration of the word "Mohawk" as a trade-mark for carpet sweepers.

The Examiner sustained the opposition because of opposer's established prior use of the same mark on rugs and carpets, and because the mark was found to be the salient feature of opposer's corporate name.

The First Assistant Commissioner stated that the soundness of the decision appealed from, as to both grounds, depended upon the answer to a single question: Are carpet sweepers merchandise of the same descriptive properties as rugs and carpets? Like the Examiner of Interferences, the First Assistant Commissioner answered that question in the affirmative. He said:

"While it is unusual for the same manufacturer to deal in both items, this is not true of retailers. As stated by the Examiner of Interferences in his decision:

"'It appears from the record that in some cases, at least, carpet sweepers are sold in the same department of stores as rugs and carpets and that it is sometimes the practice of salesmen to try and sell a carpet sweeper in connection with the sale of a rug or carpet. In some cases, in furtherance of this trade practice, it appears that even though carpet sweepers in the main are carried in the houseware department, they are also on display in the rug and carpet department. It would therefore seem that the trade in some instances has attempted to closely associate these articles in the mind of the public and it would appear that purchasers, having become accustomed to this practice and seeing a "Mohawk" carpet or rug and likewise "Mohawk" carpet sweepers in the same department and being urged to buy a carpet sweeper under the same name as the rug which they purchased, would reasonably expect that both articles emanate from the same source.'

"While I agree with the conclusion thus reached by the Examiner, I am further of the opinion that because carpet sweepers and floor coverings are so closely related in actual use, their sale under identical trade-marks would lead many purchasers to assume that they had a common origin. It so happens that I am more familiar with the 'Bissell' mark as applied to sweepers than with the 'Mohawk' mark as applied to rugs. If I should see the word 'Bissell' on a rug I would be inclined to take it for granted that the rug was manufactured or sold by the present applicant, as would others, I believe, who are equally familiar with applicant's well-known mark. And I have no doubt that an application by another to register the word 'Bissell' for rugs would be vigorously and successfully opposed by Bissell Carpet Sweeper Co., by reason of its ownership of the mark for sweepers.

"The goods of the parties being of the same descriptive properties, and their trade-marks being identical, the proposed registration is expressly forbidden by the first proviso of section 5 of the act of February 20, 1905. *Philadelphia Inquirer Company* v. *Coe*, 55 U. S. P. Q. 435, 133 Fed.(2d) 385. Whether it is also forbidden by the second proviso depends upon the interpretation to be given the rule announced by the Supreme Court in *American Steel Foundries* v. *Robertson*, 269 U. S. 372, 1926 C. D. 289, that 'where less than the whole name has been appropriated, the right of registration will turn upon whether it appears that such partial appropriation is of such character and extent that, under the facts of the particular case, it is calculated to deceive or confuse the public to the injury of the corporation to which the name belongs.' It seems clear to me that in the instant case applicant's partial appropriation of opposer's corporate name is so calculated to deceive."

MOHAWK EXPORT AND IMPORT CORPORATION *v.* BISSELL CARPET SWEEPER CO., Trade-Mark Interference No. 3306.

This trade-mark interference involves an application of Bissell Carpet Sweeper Co., of Grand Rapids, Mich., for registration of the word "Mohawk" as a trade-mark for carpet sweepers, and four applications of Mohawk Export and Import Corporation, of Amsterdam, N. Y., for registration of marks for the same goods, each including the same word as its essential feature.

The Examiner of Trade-Mark Interferences held that, as between the parties to the proceeding,

Bissell Carpet Sweeper Co. had established prior use of the trade-mark in question. He adjudged Mohawk Export and Import Corporation "not entitled to the registrations for which it has made application." He did not adjudicate the right of Bissell Carpet Sweeper Co. to registration of the mark. Instead, he referred to his decision in Opposition No. 20,705, where he had sustained the opposition of Mohawk Carpet Mills, Inc., to the application of Bissell Carpet Sweeper Co. involved in this interference.

In a decision rendered June 8, 1943 (166 Ms. Dec. 203, 58 U. S. P. Q. 31), *First Assistant Commissioner Frazer* modified the decision of the Examiner of Trade-Mark Interferences. He adjudged that neither party to the interference owns the trade-mark "Mohawk" as applied to carpet sweepers, and that none of the interfering applications may be allowed.

In his decision the First Assistant Commissioner referred to the parties as Bissell Company and Mohawk Corporation, and stated:

"This case and the opposition proceeding to which the Examiner of Interferences made reference were submitted on the same record. The opposer was Mohawk Carpet Mills, Inc., of which Mohawk Corporation is said to be a wholly-owned subsidiary. It is clearly established by the record, and is disputed by no one, that for many years prior to the date of first use of the trade-mark 'Mohawk' by either of the parties to the instant proceeding, Mohawk Carpet Mills, Inc., had used this mark on carpets and rugs. The Examiner of Interferences ruled that carpet sweepers are merchandise of the same descriptive properties as carpets and rugs, and thus sustained the opposition. That case was appealed, and in a decision rendered concurrently herewith I have affirmed the decision of the Examiner of Interferences (*Mohawk Carpet Mills, Inc.*, v. *Bissell Carpet Sweeper Co.*, 166 Ms. D. 201). As the mark here sought to be registered was owned by another at the time of its adoption by each of the parties to this proceeding, and appropriated to merchandise of the same descriptive properties as that for which registration is now proposed, neither party is entitled to register the mark upon any of the interfering applications. See *The Penetrene Corporation* v. *Plough, Inc.*, 29 C. C. P. A. 1029, 128 Fed.(2d) 591, and cases there cited.

"Mohawk Corporation argues that it 'must be regarded as the successor to a part of the business of Mohawk Carpet Mills and may claim exclusive rights to the use of the mark "Mohawk" on carpet sweepers from the dates of first use of the mark on carpets and rugs by Mohawk Carpet Mills.' Bissell Company argues that 'when Mohawk Carpet Mills, Inc., authorized or permitted the use by Mohawk Corporation of "Mohawk" on carpet sweepers, it definitely abandoned any right that it might have had therein, so it is a question of priority as to use as between Bissell Carpet Sweeper Company and Mohawk Export and Import Corporation.' But there is not a scintilla of evidence in the record to support either argument. There is testimony to the effect that Mohawk Corporation was organized for the purpose of selling products of Mohawk Carpet Mills, Inc., in foreign countries; but nothing to indicate the transfer of any business, good will, or trade-mark rights. It is true, as pointed out in the brief of Mohawk Corporation, that its applications to register were not opposed by Mohawk Carpet Mills, Inc.; but that circumstance falls far short of proving any contractual relationship between these two concerns sufficient to endow Mohawk Corporation with the right to register the trade-mark of Mohawk Carpet Mills, Inc. The paramount interest to be protected is that of the public.

"It is insisted by Mohawk Corporation that Bissell Company had made no use of the mark at the time of filing its application. In the view I take of the case that question becomes immaterial and need not be discussed. Suffice it to say that in my opinion the use relied upon by Bissell Company is sufficient to support registration if its application were otherwise allowable, and that such use antedated the first use by Mohawk Corporation of any of the marks involved in the interference."

SHARP & DOHME, INCORPORATED, *v.* SCHERING & GLATZ, INC., Opposition No. 20,792.

In a decision rendered June 10, 1943 (166 Ms. Dec. 206, — U. S. P. Q. —), *Assistant Commissioner Van Arsdale* passed upon a petition by Schering & Glatz, Inc., of New York, N. Y., for reconsideration of his decision of May 4, 1943 (551 O. G. 736, 57 U. S. P. Q. 281).

The complete decision of the Assistant Commissioner upon the petition for reconsideration reads as follows:

"Applicant petitions for reconsideration of my decision of May 4, 1943, asserting in effect that sufficient weight was not given to the differences in the products actually sold by the parties under their marks and that due prominence was not accorded to the suffix 'quin' in applicant's mark 'Thromboquin' in view of the fact that the term 'Thrombo' by itself should be held descriptive of blood coagulants as a class.

"It is believed, however, that comparison of the goods as named in opposer's registration and in applicant's application is proper and that 'even though "Thrombo"—were considered to be descriptive it would seem hardly possible that persons viewing the words would not attribute trade-mark significance to the entire words' and not only to the final letter 'l' of 'Thrombol' and to the final syllable 'quin' of 'Thromboquin,' particularly as both marks are single words.

"Reconsideration has been accorded but the previous decision is believed to be correct and is adhered to.

"The petition is granted to the extent indicated above."

EX PARTE THE DOBECKMUN COMPANY, Serial No. 441,353.

In a decision rendered June 10, 1943 (166 Ms. Dec. 206, — U. S. P. Q. —), *Assistant Commissioner Van Arsdale* passed upon a petition by The Dobeckmun Company, of Cleveland, Ohio, for reconsideration of his decision of May 1, 1943 (551 O. G. 736, 57 U. S. P. Q. 280).

The complete decision of the Assistant Commissioner upon the petition for reconsideration reads as follows:

"Applicant requests reconsideration of my decision of May 1, 1943, contending principally that the word 'breakfast' as applied to bread is not descriptive but is merely suggestive of one manner of using the bread, and therefore the expression 'Breakfast Bread' is not descriptive of the bread for which the bread wrappers are intended and consequently does not declare the intended purpose or function of the empty bread wrappers to which the expression is applied.

"I am unable to follow applicant's contention. To my mind the expression 'Breakfast Bread' names a definite commodity and applied to the empty bread wrappers would be understood to describe the wrappers as suitable for wrapping breakfast bread and to mean that the intended purpose and function of the wrappers is to cover and to protect such bread.

"Reconsideration has been accorded but the previous decision is believed to be correct and is adhered to.

"The request for reconsideration is granted to the extent indicated above."

BEECH-NUT PACKING COMPANY *v.* LA CHOY FOOD PRODUCTS, INC., Opposition No. 21,534.

In a decision rendered June 11, 1943 (166 Ms. Dec. 207, 57 U. S. P. Q. 565), *Assistant Commissioner Van Arsdale* passed upon a petition by La Choy Food Products, Inc., of Detroit, Mich., for reconsideration of his decision of May 13, 1943 (551 O. G. 739, 57 U. S. P. Q. 334).

The complete decision of the Assistant Commissioner upon the petition for reconsideration reads as follows:

"Applicant petitions for reconsideration of my decision of May 13, 1943, both as to sustaining the notice of opposition and as to the granting of appellee's motion to strike appellant's reply brief.

"Applicant contends that the decision does not give due and proper weight to applicant's registration of the mark 'Beanut Butter' for peanut and soy bean butter and is wrong in comparing the marks in their entireties instead of disregarding entirely the portions 'nut' which applicant contends are merely descriptive of the products to which the marks are applied.

"In my opinion the word 'nut' is not descriptive of the goods to which the marks are applied, and after careful consideration of the present petition and the brief filed therewith and the authorities cited therein it is still my opinion that there is no error in the previous decision with regard to sustaining the notice of opposition for the reasons stated in the decision.

"As to the reply brief, it was not received in time to be available at the hearing of the appeal or to have a copy placed in the hands of appellee's attorney until after the hearing. In view of the late filing of the brief and the fact that reply briefs are not ordinarily accepted in trade-mark appeals the granting of the motion to strike is believed to have been proper.

"Reconsideration is granted but the previous decision is believed to be correct and is adhered to."

EX PARTE THE BULLARD COMPANY, Serial No. 436,563.

In a decision rendered June 15, 1943 (166 Ms. Dec. 210, 58 U. S. P. Q. 85), *Assistant Commissioner Van Arsdale* reversed the action of the Examiner of Trade-Marks in refusing registration to The Bullard Company, of Bridgeport, Conn., of the mark "Robo-Matic" for metal-working lathes with automatic controller. The Examiner had refused registration in view of a prior registration, to another, of the mark "Robot" for similar machine tools. The Examiner held the marks to be confusingly similar. The Examiner stated that he considered the words "Robot" and "Robo" to have substantially the same pronunciation and that both marks convey the idea of automatic action.

In overruling the Examiner and granting registration, the Assistant Commissioner said:

"In considering the marks in their entireties, as is proper, it is noted that only the first syllables 'Ro' thereof are the same; the second syllables 'bot' and 'bo' being quite different in sound and are not identical in appearance.

"'Robo-Matic' is a four syllable word of which the part 'matic' has no counterpart in the two syllable word 'Robot'.

"'Robo' and 'matic' are arbitrary and fanciful terms, whereas 'Robot' is a dictionary word, and I do not believe persons will consider the 'Robo' part of 'Robo-Matic' the equivalent of 'Robot' or to have the same trade-mark significance. However, I agree that the mark 'Robot' because it means a robot indirectly suggests automatic action, and that some persons may receive the same impression from the part 'matic' of 'Robo-Matic', even though 'matic' is not found in the dictionary as a combining form or as a word; but 'Robo-Matic' does not mean or suggest a robot as such, as does the word 'Robot'.

"The machine tools to which the marks are applied are extremely costly, and are purchased with the greatest of care and discrimination and for long use.

"Considering the marks in their entireties and the nature of the goods to which the marks are applied it is my opinion that they are so dissimilar in appearance, sound and meaning that notwithstanding the similarities which they do have, their concurrent use on the machine tools to which they are applied would not be likely to cause confusion or mistake in the mind of the public or to deceive purchasers. It seems to me the marks are in the same category as the marks 'Rotarex' and 'Roto-Verso' which were held not to be confusingly similar when applied to laundry machines in *The Apex Electrical Manufacturing Company* v. *Landers, Frary, and Clark*, 17 C. C. P. A. 1184, 41 Fed.(2d) 99, 398 O. G. 708."

THE SCHOLL MFG. CO., INC., *v.* THE SCHIFF COMPANY, Opposition No. 21,629.

In a decision rendered June 15, 1943 (166 Ms. Dec. 211, 58 U. S. P. Q. 86), *Assistant Commissioner Van Arsdale* affirmed the decision of the Examiner of Trade-Mark Interferences sustaining the opposition of The Scholl Mfg. Co., Inc., of Chicago, Ill., to the application of The Schiff Company, of Columbus, Ohio, for registration of a composite mark for shoes consisting of the expression "Medico Pedic" spaced above the expression "'For Foot Health,'" both expressions being framed in rectangular lines and extending across an arrangement of lines forming a background effect, the expression "For Foot Health" and the word "Medico" being disclaimed.

The Examiner sustained the opposition upon a prior registration to opposer of the mark "Practipedic" for shoes, boots and slippers. The Assistant Commissioner stated that this registration concededly antedates applicant's first use of its mark for the identical goods. Only the question of confusing similarity between the marks, the Assistant Commissioner said, required determination by him.

The question of confusing similarity was discussed by the Assistant Commissioner as follows:

"Appellant contends that the word 'Pedic' is descriptive of shoes, and that applicant's composite mark has 'features' which distinguish it from opposer's mark, one of the features being the 'tongue twister' character of opposer's mark.

"I do not agree that the word 'Pedic' is descriptive. So far as I am aware the word has no descriptive or other ordinary meaning and does not appear as a word in the dictionary. 'Pedi' is a combining form meaning foot, but it is not a word and 'Pedic' is not the combining form 'pedi'.

"I agree that there is a considerable degree of dissimilarity in the appearances of the marks, but the dominating spoken part of applicant's mark is the expression 'Medico Pedic' and in my opinion this expression and opposer's mark 'Practipedic' are so similar in sound that the concurrent use of the marks on shoes would be likely to cause confusion and mistake in the mind of the public and to deceive purchasers. As stated in *Traders Oil Mill Company* v. *Lever Brothers Company*, 26 C. C. P. A. 899, 100 F.(2d) 249, 504 O. G. 291:

"'That similarity in sound alone is sufficient to constitute confusing similarity between marks is well established. *E-Z Mills, Inc.*, v. *Martin Brothers Company*, 25 C. C. P. A. (Patents) 992, 95 F.(2d) 269.'"

EX PARTE GEORGE LA MONTE & SON, Serial No. 428,558.

In a decision rendered June 15, 1943 (166 Ms. Dec. 208, 58 U. S. P. Q. 87), *Assistant Commissioner Van Arsdale* affirmed the action of the Examiner of Trade-Marks in refusing registration to George La Monte & Son, of Nutley, N. J., of the mark "Basketweave" for safety paper, such as is used for bank checks, bank drafts, tickets, vouchers and the like. The Assistant Commissioner stated that, as appears from the sample of safety paper filed by applicant, the paper to which applicant applies the mark is made to show lines or markings arranged in basketweave fashion covering the entire surface of the paper, giving the surface of the paper a basketweave appearance or finish.

The Assistant Commissioner also stated that the Examiner had held that the basketweave marking is the characteristic safety marking of the paper and is a functional part of the paper and that the mark is merely descriptive of the paper because it aptly describes the functional safety markings thereof.

In concluding that the Examiner was correct in refusing registration, the Assistant Commissioner said:

"Applicant asserts that the safety qualities of the paper are not due to the markings thereon but are due entirely to the sensitive or fugitive tint and that the paper would have the same safety qualities if the surface were plain and had no markings thereon, and therefore the basketweave lines thereon perform no safety function. It does

not appear that applicant is not correct in this contention. Applicant further stresses the fact that safety paper having a basketweave finish is unique with applicant and that such finish on the paper is recognized by the trade as identifying the paper as a product of applicant's, and the basketweave finish on the paper is a valid design trade-mark, and the word 'Basketweave' applied to such paper is merely the word equivalent of that design trade-mark and therefore is a valid trade-mark itself and is so recognized by the trade and the public. Whether the design of the surface finish of the paper is or is not registrable as a trade-mark is not here involved. We are here concerned only with the registrability of the word 'Basketweave' as applied to the safety paper.

"In my opinion the fact that the surface markings of the safety paper may serve no safety function and the fact that the basketweave markings on the paper may have acquired a secondary meaning and are or are not a valid trade-mark of applicant's are not controlling in the situation here presented.

"The Trade-Mark Act of 1905 expressly prohibits registration of marks which consist 'merely in words or devices which are descriptive of the goods with which they are used, or of the character or quality of such goods.' It is conceded that the word 'Basketweave' aptly describes the appearance or ornamental finish of the surface of the paper to which the mark is applied, and the mark consists merely in that word. In my opinion since the word 'Basketweave' is descriptive of the surface appearance or finish of the paper it is descriptive of the paper and therefore is prohibited from registration under act of 1905, even though the markings are nonfunctional and their application to safety paper may be unique with applicant as a source of origin.

"A situation somewhat similar to that present here was involved in *Kay & Ess Company v. Conway P. Coe, Commissioner of Patents*, 68 App. D. C. 3, 92 Fed.(2d) 552, 483 O. G. 229. In that case registration was sought of the word 'Morocco' for enamels, lacquers, varnishes, etc., which it appeared were used for a final coat to give a special finish that looked like imitation Morocco leather. It was also asserted that the mark had acquired a secondary meaning indicating the applicant as the sole source of origin of the 'Morocco' paint items. The court held the mark to be descriptive of the paints and the secondary meaning of the mark to be no foundation for registration."

"AUTOMATIC" SPRINKLER CORPORATION OF AMERICA *v.* CENTRAL STATION SIGNALS, INC., Opposition No. 21,492.

In a decision rendered June 21, 1943 (166 Ms. Dec. 214, — U. S. P. Q. —), *Assistant Commissioner Van Arsdale* affirmed the decision of the Examiner of Trade-Mark Interferences dismissing the opposition of "Automatic" Sprinkler Corporation of America, of Youngstown, Ohio, to the application of Central Station Signals, Inc., of New York, N. Y., for registration of a trade-mark for thermostats for automatic fire alarm signalling systems consisting of the words "Temp-O-Rise" and "Automatic Fire Detection" forming a circle enclosing the representation of a thermometer with flames at its bulb and zigzag lines at each side, the expression "Automatic Fire Detection" being disclaimed.

As stated by the Assistant Commissioner, the controlling question presented by this case was whether the mark applicant seeks to register is or is not confusingly similar to the mark of opposer consisting of the term "Rate of Rise" encircled by the name of opposer. This mark, the Assistant Commissioner said, is used by opposer on automatic fire detectors and heat actuated devices, both employing thermostats for the detection of fire. Opposer has a registration issued under the Trade-Mark Act of March 19, 1920, of such mark.

In concluding that the marks of the parties are not confusingly similar, the Assistant Commissioner stated:

"It appears from exhibits filed with the notice of opposition that opposer applies the 'Rate of Rise' mark to devices which are operatively responsive to an abnormal rate of rise of temperature, and accordingly the term is descriptive of such devices. The term means rate of temperature rise.

"Obviously the devices to which the parties apply the marks are not of the type that are purchased casually or without considerable discrimination and care.

"Considered in their entireties the appearance of applicant's mark and the appearance of the mark of opposer's registration impress me as being so dissimilar that visual confusion between them is unlikely. However, the marks would be identified verbally only by the terms 'Temp-O-Rise' and 'Rate of Rise'.

"The nature of the goods to which the marks are applied should be considered, and in my opinion, in this instance the nature of the goods is the controlling factor. The goods are purchased for the purpose of securing automatic fire protection and this highly important purpose and use would naturally cause purchasers to exercise great care and discrimination in purchasing the devices. It seems to me that in view of the character of the devices to which the marks are applied and the class of purchasers to whom the devices are sold the marks in their entireties are so dissimilar that notwithstanding their similarities the concurrent use of the marks on the particular goods to which they are applied would not be likely to cause confusion or mistake in the mind of the public or to deceive purchasers."

M. & W. THOMAS CORPORATION *v.* GOODALL WORSTED COMPANY, Opposition No. 21,612.

In a decision rendered June 21, 1943 (166 Ms. Dec. 213, — U. S. P. Q. —), *Assistant Commissioner Van Arsdale* reversed the decision of the Examiner of Trade-Mark Interferences and thereby sustained the opposition of M. & W. Thomas Corporation, of New York, N. Y., to the application of Goodall Worsted Company, of Sanford, Maine, for registration of the mark "Springweave" for fabric piece goods.

The opposition was based, the Assistant Commissioner asserted, on a prior registration issued to and owned by opposer of a mark consisting of the word "Springer" above a picture of a dog (apparently a springer spaniel) for fabric piece goods.

The Examiner of Interferences held the marks not to be confusingly similar and dismissed the opposition. In disagreeing with this holding and sustaining the opposition, the Assistant Commissioner said:

"Based on a consideration of the marks in their entireties and keeping in mind the nature of the goods to which the marks are applied and the fact that the parties apply the marks to identical goods it is my opinion that the words 'Springweave' and 'Springer' are so similar in appearance and in sound that their concurrent use by the parties on identical fabric piece goods would be likely to cause confusion and mistake in the mind of the public and to deceive purchasers, and that the notice of opposition should have been sustained. It seems to me that the confusing similarity between the entire marks results principally from the prominence of the syllable 'Spring' in the mark 'Springweave' and the close similarity between that syllable 'Spring' and the mark 'Springer', coupled with the fact that the words of both marks are single words and are the only spoken parts of the marks. In my opinion the fact that the words of the marks may have different meanings and that the one includes a picture of a dog and the other has no picture does not render the marks not confusingly similar."

CUSHING REFINING & GASOLINE CO. *v.* FAMOUS LUBRICANTS, INC. (FAMOUS LUBRICANTS, ASSIGNEE SUBSTITUTED), Trade-Mark Interference No. 3283.

This trade-mark interference involves an application filed June 8, 1940, by Famous Lubricants, Inc., of Chicago, Ill. (Famous Lubricants, Assignee Substituted), for registration of the words "Motor Life" as a trade-mark for "lubricating fluid," and an application filed October 14, 1940, by Cushing Refining & Gasoline Co., of Cushing, Okla., for registration of the notation "Motorlife" as a trade-mark for "motor oil."

Both parties conceded that the marks and the goods are substantially identical. The Examiner of Trade-Mark Interferences awarded priority of adoption and use to Famous Lubricants, Inc., and adjudged that party entitled to registration.

In a decision rendered June 22, 1943 (166 Ms. Dec. 219, — U. S. P. Q. —), *First Assistant Commissioner Frazer* affirmed the decision of the Examiner of Trade-Mark Interferences. In that decision he referred to Famous Lubricants, Inc., as "Famous" and Cushing Refining & Gasoline Co. as "Cushing." He discussed the priority proofs of the parties as follows:

"Each party relies upon use by a series of alleged predecessors to establish present ownership of the mark. Famous professes to have shown such use since 1915, while Cushing asserts that its evidence proves use since 1917. The Examiner of Interferences was of the opinion that Cushing had established use commencing 'at some undetermined date, at least prior to January 25, 1927,' and that the evidence of Famous 'is deemed to establish continuous use of the mark since December 1, 1923.'

"In their applications to register, Cushing claimed use of the mark since January, 1920, and Famous claimed use since 1922. Proof of use as of an earlier date than that so claimed must be clear and convincing. *Anchor Products Co.* v. *Hospital Import Corporation*, 484 O. G. 982, 35 U. S. P. Q. 199; *National Dairy Products Corporation* v. *Allied Mills, Inc.*, 469 O. G. 773, 30 U. S. P. Q. 274. Neither party has met this requirement. As I view the case, however, the evidence relied upon by Famous in this connection need not be considered, because I agree with the Examiner of Interferences that Famous has otherwise clearly established a date of first use earlier than that proved by Cushing.

"Disregarding noncorroborated oral testimony, the first sale of motor oil under the 'Motor Life' trade-mark, which inures to the benefit of Famous, was made by a partnership known as Famous Sales Company on February 5, 1926. This sale is evidenced by the testimony of the witness Hapeman, and by a copy of the invoice marked Exhibit 12. There is also proof that Famous is a successor in title to Famous Sales Company, and that the mark has been in continuous use since that date by Famous, or by one or another of its predecessors.

"Cushing's attempted proofs of use prior to February 5, 1926, consist in the testimony of witnesses based upon their mere recollection many years after the event. This testimony, for the most part, is very general in character. No specific sale is attempted to be fixed either as to date or as to identity of the purchaser. A reading of Cushing's record leaves one with the conviction that several, and perhaps all, of its alleged predecessors made some use of the trade-mark in question. But it is impossible to say that such use was continuous over any particular period of time, or had not been abandoned prior to the date of first use definitely established by Famous. As junior party the burden of proof was upon Cushing, and all doubts must be resolved against it. *Brewster-Ideal Chocolate Co.* v. *Dairy Maid Confectionery Co.*, 20 C. C. P. A. 848, 62 Fed.(2d) 844. So resolving doubts, it is my opinion that the Examiner of Interferences reached the right result."

EX PARTE THE WATSON COMPANY, Serial No. 446,747.

In a decision rendered June 22, 1943 (166 Ms. Dec. 217, — U. S. P. Q. —), *Assistant Commissioner Van Arsdale* affirmed the action of the Examiner of Trade-Marks in refusing registration to The Watson Company, of Attleboro, Mass., of the mark "Foxhall" for precious metal flatware and hollowware. The Examiner refused registration of said mark on the ground that the mark is primarily a geographical term.

The Assistant Commissioner quoted the following description of the mark included in the application:

"The mark is the name of a deceased celebrity, viz., the owner of the foundry in what is now the District of Columbia where 'the finest guns in America' were said to be made. It is reported that Admiral Perry refused to fight the battle of Lake Erie until his ships were fitted with Foxhall guns. One object of the British attack on Washington in 1814 was to destroy this gun foundry. The sparing of this foundry due to act of God resulted in Foxhall donating ground for what is still known as 'Foundry Methodist Church.' Foxhall Ordnance Foundry was established in 1797 and is commemorated by Foundry Branch, Foundry Parkway, and Foxhall Road in the District of Columbia as well as by a marker on the site of the old foundry. The Foxhall-McKenney House at 3123 Dumbarton Av., Washington, D. C., was built by Foxhall for his daughter and remains an outstanding example of Federal architecture."

He then added:

"The mark is the name of a town in Galway, Ireland, and of a town in Queensland, Australia, and the Examiner states that the mark is primarily a geographical name. Applicant contends the mark is primarily the name of the deceased celebrity identified in the application.

"I am constrained to agree with the Examiner that the historical significance or meaning of the name 'Foxhall' as developed by applicant does not, even in this country, outweigh the geographical character or meaning of the name, and consider the Examiner properly refused registration of the mark as predominately a geographical name. *Ex parte Wolverine Manufacturing Company*, 152 O. G. 487, 1910 C. D. 41."

EX PARTE SCHIER BROTHERS, Serial No. 446,666.

In a decision rendered June 22, 1943 (166 Ms. Dec. 216, — U. S. P. Q. —), *Assistant Commissioner Van Arsdale* affirmed the action of the Examiner of Trade-Marks in refusing registration to Schier Brothers, of Sealy, Texas, of the mark "Safe-Way" for goods which the Assistant Commissioner said were identified merely as "feed for livestock and poultry."

The Examiner refused registration in view of a prior registration to another of the mark "Safeway" for certain kinds of jams and canned vegetables, berries, fruits, and fish, and salad oil, olive oil, honey, vinegar, corn meal and white flour.

The Examiner predicated his refusal of registration on the decision in *The Quaker Oats Company* v. *Holland-O'Neil Milling Co.*, 146 Ms. D. 382, in which it was held that white flour and chicken feed are goods of the same descriptive properties. Applicant contended that said decision has been overruled, or at least outmoded, by the more recent decisions of *Kellogg Co.* v. *Bremner Bros.*, 163 Ms. D. 488, 45 U. S. P. Q. 446, 515 O. G. 837, and *Pabst-Ett Corporation* v. *Dr. W. J. Ross Company*, 163 Ms. D. 504, 45 U. S. P. Q. 532.

The Assistant Commissioner stated that, in the former of these cases, it was held that crackers are not goods of the same descriptive properties as dog foods, poultry foods, and other animal foods, and that, in the latter case, it was held that canned dog and cat food do not possess the same descriptive properties as cheese. The Assistant Commissioner noted that in another earlier case, *Imperial Cotton Sales Co.* v. *The N. K. Fairbanks Co.*, 50 App. D. C. 250, 270 Fed. Rep. 686, 284 O. G. 961, the court sustained a notice of opposition based on the use of a mark for a cooking fat made from cottonseed oil and oleostearin against registration of an identical mark for an animal-feed meal composed principally of cotton-seed.

Upon review of all these decisions, the Assistant Commissioner concluded that the registration ap-

plied for was properly refused in view of the prior registration cited. He stated:

"I do not think the cases relied on by applicant go so far as to hold that feed for livestock and poultry and food for human consumption can never be goods of the same descriptive properties, and the comparison here is between goods specifically different from the goods which were compared in those cases.

"In my opinion at least corn meal and white flour, which goods are named in the cited registration, are goods of the same descriptive properties as some products which are used as feed for livestock or poultry; as, for instance, Indian corn, either whole or cracked, corn meal and flour, all of which products are embraced within the broad scope of the application."

The Assistant Commissioner found another ground for refusing the registration applied for. With reference thereto he said:

"There is a further ground which seems to me to require refusal of the registration applied for and that is that in the application the identification of the goods to which the mark is applied is so broad and indefinite as to convey no definite or intelligible idea of the particular goods to which the mark is applied, the identification merely, in effect, specifying any and all products, with it naming any, which may be designated as feed for liv stock and poultry. There are many different kinds of livestock and many different kinds of feed differently suitable for different kinds of livestock; and the same holds true for poultry. Such feeds may well include products not having similar descriptive properties. Applicant has not complied with the statutory requirement for a statement of the particular goods upon which the mark has been used. *In re A. G. Spalding and Bros.*, 27 App. D. C. 314, 123 O. G. 321, 1906 C. D. 674."

DR. EDWIN H. DIXON *v.* DENTHOL COMPANY, Trade-Mark Interference No. 3354.

On June 23, 1943 (166 Ms. Dec. 221, — U. S. P. Q. —), *First Assistant Commissioner Frazer* denied a petition on behalf of Dr. Edwin H. Dixon, of New York, N. Y., that his time to appeal from the decision of the Examiner of Trade-Mark Interferences in this trade-mark interference proceeding be extended.

The First Assistant Commissioner stated that the Examiner of Trade-Mark Interferences adjudged that neither Dixon nor his opponent, Denthol Company, of San Francisco, Calif., is entitled to registration of the trade-mark involved in the interference. The Examiner in his decision on petition for reconsideration, dated March 1, 1943, set times of appeal to expire April 20 for Dixon and April 30 for Denthol Company. Denthol Company filed an appeal on April 26. The Dixon appeal was received on June 8, together with the petition that the time for its filing be extended to the date of its receipt.

The First Assistant Commissioner concluded that the showing made was "utterly insufficient to warrant the relief requested." In criticizing the showing, he said:

"In support of the petition is the affidavit of one of Dixon's attorneys to the effect that he wrote his client on March 30 asking whether an appeal should be taken, and, for reasons that are not material here, did not receive a reply 'until after April 20.' The attorney's delay of nearly a month in writing Dixon, after the limit of appeal had been fixed, is not explained; nor is his failure to ask for an extension before the time set had expired."

A. ZEREGA'S SONS, INC., *v.* THE PFAFFMAN COMPANY, Cancellation No. 4002.

On June 23, 1943 (166 Ms. Dec. 222, — U. S. P. Q. —), *First Assistant Commissioner Frazer* denied a motion by The Pfaffman Company, of Cleveland, Ohio, respondent in this cancellation proceeding, that trade-mark registration No. 391,424, issued November 4, 1941, under the act of March 19, 1920, to the petitioner, A. Zerega's Sons, Inc., of Brooklyn, N. Y., be canceled.

In denying the motion, the First Assistant Commissioner stated:

"In its petition to cancel respondent's registration, petitioner pleaded its ownership of this registration, and also of a registration of the same mark under the act of 1905 for somewhat similar goods. Respondent's registration was canceled on the ground that respondent's mark was confusingly similar to the mark of petitioner's 1905 registration, the Examiner of Interferences expressly refusing to consider petitioner's 1920 registration as evidence of ownership.

"The theory of the present motion seems to be that because the marks of the parties have been held to be confusingly similar, and respondent's canceled registration was issued before petitioner's 1920 registration, petitioner was not entitled to the exclusive use of its mark at the time the latter registration was applied for. Petitioner's 1905 registration, however, was issued many years prior to respondent's claimed date of first use, and is prima facie evidence of petitioner's ownership of the mark for all goods of the same descriptive properties as those set forth in the registration.

"Moreover, the Patent Office has authority to cancel a registration only in a proceeding instituted for that purpose and conducted in accordance with the statute."

THE AMERICAN OIL COMPANY *v.* ANDERSON-PRICHARD OIL CORPORATION, Opposition No. 21,321.

In a decision rendered June 24, 1943 (166 Ms. Dec. 223, — U. S. P. Q. —), *First Assistant Commissioner Frazer* affirmed the decision of the Examiner of Trade-Mark Interferences sustaining the opposition of The American Oil Company, of Baltimore, Md., to the application of Anderson-Prichard Oil Corporation, of Oklahoma City, Okla., for registration of the notation "Apco" as a trade-mark for "gasoline, kerosene, and industrial naphthas."

The opposition was predicated upon opposer's ownership of the trade-mark "Amoco," registered May 8, 1923, for "gasoline, motor fuels, and lubricating oils," and June 16, 1936, for "naphtha." The only issue for determination by the First Assistant Commissioner was whether or not the two marks "Amoco" and "Apco" bear such resemblance as to be likely to confuse purchasers when applied to identical merchandise of the character involved in the opposition proceeding.

The First Assistant Commissioner decided that the marks are confusingly similar, and, in so doing, said:

"The issue is simple, and requires but brief discussion. Manifestly, the marks differ in some respects; but they are nevertheless quite similar both in appearance and in sound. Applicant insists that the Examiner of Interferences was wrong in refusing to accord any weight to the alleged fact that the parties do business in widely separated localities. Even if proved, that circumstance would add nothing to applicant's right to register. No one would mistake one mark for the other if they were seen side by side. But having purchased 'Amoco' gasoline in Richmond, it seems to me that a motorist finding 'Apco' gasoline for sale in applicant's home town in Oklahoma (after the war, of course), may be very likely to believe that it was the same brand.

"I agree with the Examiner of Interferences that 'there is a reasonable likelihood of resultant confusion in the trade' if both marks are concurrently used on the merchandise described; and the fact that no actual confusion has been shown is immaterial."

TRADE-MARKS

OFFICIAL GAZETTE, JULY 27, 1943

[VOL. 552. No. 4]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 459,339. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio. Filed Mar. 25, 1943.

Applicant is the owner of Regs. Nos. 384,587 and 385,656.

POLYFOAM

FOR SPONGE MATERIAL MADE OF POLYVINYL CHLORIDE USED IN THE MANUFACTURE OF MATTRESSES, CUSHIONS, ARMRESTS, ETC.

Claims use since Mar. 3, 1943.

Ser. No. 459,599. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio. Filed Apr. 3, 1943.

Applicant is the owner of Regs. Nos. 307,106, 323,370, and 370,981.

PLIOFLEX

FOR THERMO-SETTING MATERIAL COMPRISING POLYVINYL VINYLIDENE CHLORIDE IN SHEET FORM.

Claims use since Mar. 18, 1943.

Ser. No. 460,933. MONSANTO CHEMICAL COMPANY, St. Louis, Mo. Filed May 26, 1943.

RESIMENE

FOR SYNTHETIC RESIN COMPOSITIONS IN THE FORM OF MOLDINGS AND PARTICULATE SOLIDS SUITABLE FOR MOLDING.

Claims use since Mar. 31, 1943.

CLASS 2

RECEPTACLES

Ser. No. 451,945. TRAVER CORPORATION, Chicago, Ill. Filed Mar. 27, 1942.

CELL-U-ART

FOR MERCHANDISE ENVELOPES.

Claims use since Aug. 14, 1942.

Ser. No. 460,177. THE WARREN FEATHERBONE CO., Three Oaks, Mich. Filed Apr. 26, 1943.

FEATHERTEX

FOR GARMENT BAGS.

Claims use since Sept. 18, 1942.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 460,040. WALLERSTEIN COMPANY, INC., New York, N. Y. Filed Apr. 20, 1943.

Petite

FOR SPOT REMOVER.

Claims use since Apr. 9, 1943.

Ser. No. 460,357. FRED L. TRICKEY, doing business as Nitroloid Company, Berlin, Wis. Filed May 1, 1943.

NITROLENE

FOR CLEANER FOR REMOVING GREASE, OIL, TAR, PAINT, VARNISH, LACQUER, AND PRINTERS' INKS, AND A CLEANER FOR OILY, GREASY, AND MUCOUS SURFACES AND FOR EXPOSED SURFACES OF THE BODY FOR EMBALMERS' USE.

Claims use since July 2, 1927.

Ser. No. 460,592. AD-LAG COMPANY, La Crosse, Wis. Filed May 13, 1943.

Ad-Lag

FOR CHEMICALLY TREATED FABRIC ADAPTED TO BE VULCANIZED TO PULLEYS TO PREVENT SLIPPAGE AND LOSS OF POWER IN A BELT DRIVEN BY THE PULLEY.

Claims use since Apr. 24, 1943.

Ser. No. 460,915. THE J. B. WILLIAMS COMPANY, Glastonbury, Conn. Filed May 25, 1943.

Baby's Own

Applicant is the owner of Reg. No. 296,083 for the mark "Baby's Own" registered July 19, 1932.
FOR TOILET SOAP.
Claims use since Aug. 22, 1899.

CLASS 5

ADHESIVES

Ser. No. 460,620. MACMILLAN PETROLEUM CORPORATION, Los Angeles, Calif. Filed May 14, 1943.

SCOTSEAL

FOR FLEXIBLE PLASTIC OILPROOF MATERIAL USED AS A COATING ADHERING TO THE INTERIOR OF PAPER OR CARDBOARD CONTAINERS FOR OILS, GREASES, PAINTS AND THE LIKE, SO AS TO MAKE THE CONTAINER IMPERVIOUS TO THE MATERIAL CONTAINED THEREIN.
Claims use since Mar. 22, 1943.

Ser. No. 460,922. THE COFAX CORPORATION, Long Island City, N. Y. Filed May 26, 1943.

PAX

FOR ADHESIVE TAPE.
Claims use since May 24, 1943.

Ser. No. 460,932. MONSANTO CHEMICAL COMPANY, St. Louis, Mo. Filed May 26, 1943.

RESIMEL

FOR THERMO-SETTING SYNTHETIC RESIN ADHESIVES FOR LAMINATING PURPOSES AND FILM-TYPE THERMO-SETTING SYNTHETIC RESIN ADHESIVE MATERIALS FOR LAMINATING PURPOSES.
Claims use since Mar. 16, 1943.

Ser. No. 461,215. AMERICAN MAIZE-PRODUCTS COMPANY, New York, N. Y. Filed June 8, 1943.

PROLIK

FOR PROTEIN-CONTAINING SOLUTION OBTAINED AS A BY-PRODUCT IN THE PURIFICATION OF CORN GLUTEN USED AS AN EXTENDER FOR STARCH AND DEXTRIN ADHESIVES.
Claims use since Nov. 24, 1942.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 454,863. EMILY BROOKS, doing business under the name "Em-Tex Distributors," Mobile, Ala. Filed Aug. 12, 1942.
The portrait is that of the applicant.



FOR HAIR GLOSS AND HAIR PREPARATION FOR STIMULATING THE ROOTS OF THE HAIR.
Claims use since July 10, 1941.

Ser. No. 459,863. GENERAL DYESTUFF CORPORATION, New York, N. Y. Filed Apr. 14, 1943.

FENACET

FOR DYESTUFFS.
Claims use since Apr. 8, 1943.

Ser. No. 459,864. GENERAL DYESTUFF CORPORATION, New York, N. Y. Filed Apr. 14, 1943.

FENANTHREN

FOR DYESTUFFS.
Claims use since Apr. 8, 1943.

Ser. No. 459,865. GENERAL DYESTUFF CORPORATION, New York, N. Y. Filed Apr. 14, 1943.

FENAPAL

FOR DYESTUFFS.
Claims use since Apr. 8, 1943.

Ser. No. 459,866. GENERAL DYESTUFF CORPORATION, New York, N. Y. Filed Apr. 14, 1943.

FENAPHTOL

FOR DYESTUFFS.
Claims use since Apr. 8, 1943.

Ser. No. 460,022. GENERAL DYESTUFF CORPORATION, New York, N. Y. Filed Apr. 20, 1943.

FENAFOR

FOR DYESTUFFS.
Claims use since Apr. 15, 1943.

Ser. No. 460,023. GENERAL DYESTUFF CORPORATION, New York, N. Y. Filed Apr. 20, 1943.

FENALAN

FOR DYESTUFFS.
Claims use since Apr. 15, 1943.

Ser. No. 460,024. GENERAL DYESTUFF CORPORATION, New York, N. Y. Filed Apr. 20, 1943.

FENAZO

FOR DYESTUFFS.
Claims use since Apr. 15, 1943.

Ser. No. 460,025. GENERAL DYESTUFF CORPORATION, New York, N. Y. Filed Apr. 20, 1943.

FENOGEN

FOR DYESTUFFS.
Claims use since Apr. 15, 1943.

Ser. No. 460,109. GENERAL DYESTUFF CORPORATION, New York, N. Y. Filed Apr. 23, 1943.

FENAKROM

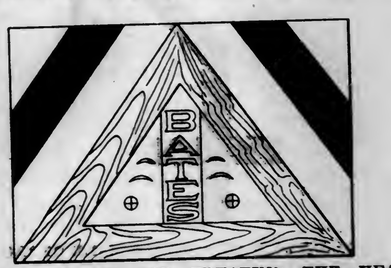
FOR DYESTUFFS.
Claims use since Apr. 15, 1943.

Ser. No. 460,149. GENERAL DYESTUFF CORPORATION, New York, N. Y. Filed Apr. 24, 1943.

FENALUZ

FOR DYESTUFFS.
Claims use since Apr. 20, 1943.

Ser. No. 460,752. ROBERT BATES, doing business as Bates Mfg. Co., Athens, Tenn. Filed May 20, 1943.
The surname "Bates" is disclaimed apart from the mark.



FOR LINIMENT FOR TREATING THE HEAD, FACE, AND NECK EXTERIORLY IN THE TREATMENT OF DISEASES OF THE RESPIRATORY ORGANS.
Claims use since Apr. 30, 1943.

Ser. No. 460,782. AMERICAN CHEMICAL PAINT COMPANY, Ambler, Pa. Filed May 21, 1943.

RIDOXEN

FOR CHEMICAL COMPOSITION FOR THE TREATMENT OF METAL SURFACES TO REMOVE, REDUCE OR PREVENT SCALE FORMATION THEREON.
Claims use since Apr. 20, 1943.

Ser. No. 460,818. THE UPJOHN COMPANY, Kalamazoo, Mich. Filed May 21, 1943.
The vitamin designation "B" is disclaimed apart from the mark.

Solu-B

FOR MEDICINAL PREPARATION FOR THE TREATMENT OF VITAMIN DEFICIENCIES.
Claims use since Dec. 22, 1942.

Ser. No. 460,849. TABLEROCK LABORATORIES, INC., Greenville, S. C. Filed May 22, 1943.

NIBESOL

FOR TABLET FOR THE TREATMENT OF VITAMIN DEFICIENCIES.
Claims use since Jan. 1, 1943.

Ser. No. 460,850. TABLEROCK LABORATORIES, INC., Greenville, S. C. Filed May 22, 1943.

ASOFLAMIN

FOR TABLET FOR THE TREATMENT OF VITAMIN DEFICIENCIES.
Claims use since March 1940.

Ser. No. 460,852. TABLEROCK LABORATORIES, INC., Greenville, S. C. Filed May 22, 1943.

YEASTAGA

FOR BULK PRODUCING MECHANICAL LAXATIVE.
Claims use since Aug. 25, 1941.

Ser. No. 460,873. JONES MEDICAL LABORATORIES, INC., Cleveland, Ohio. Filed May 24, 1943.
The word "Film" is disclaimed apart from the association shown.

NEO-FILM

FOR LIQUID PREPARATION FOR APPLICATION TO PARTS OF THE BODY, ESPECIALLY THE HANDS, AS A PROTECTIVE COATING AGAINST THE ACTION OF INDUSTRIAL OILS, SOLVENTS, AND FUMES ON THE SKIN.
Claims use since May 1, 1943.

Ser. No. 460,875. MAGNAFLUX CORPORATION, Chicago, Ill. Filed May 24, 1943.



FOR HAND CREAM.
Claims use since May 1942.

Ser. No. 460,880. NEWVILLE F. REA, doing business as Getzum Products, Sumner, Wash. Filed May 24, 1943.

CARGO

FOR VEGETABLE SPRAYS.
Claims use since November 1922.

Ser. No. 460,907. REFINED PRODUCTS CORPORATION, Lyndhurst, N. J. Filed May 25, 1943.

PERMA-CIDE

FOR INSECTICIDE AND FUNGICIDE.
Claims use since 1937.

Ser. No. 461,079. HART DRUG CORPORATION, Miami, Fla. Filed June 1, 1943.

OTOZOLE

FOR BACTERIOSTATIC, ANALGESIC AND DEHYDRATING PREPARATION USED IN TREATING EAR INFECTIONS.
Claims use since May 18, 1943.

CLASS 7

CORDAGE

Ser. No. 460,641. WHITLOCK CORDAGE CO., Jersey City, N. J., and New York, N. Y. Filed May 14, 1943.

DURACOR

FOR ROPE AND CABLES MADE OF MANILA, SISAL, AND OTHER VEGETABLE FIBRES, AND ALSO OF SYNTHETIC FILAMENTS, AND INTENDED FOR ALL PURPOSES FOR WHICH SUCH ROPE AND CABLES ARE ORDINARILY USED, INCLUDING MARINE, OIL DRILLING, CONSTRUCTION AND TRANSMISSION.
Claims use since Apr. 21, 1943.

CLASS 13

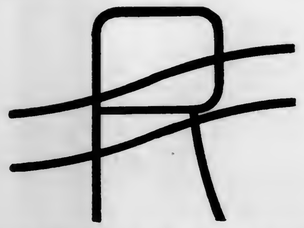
HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 459,699. AMERICAN CHAIN & CABLE COMPANY, INC., Bridgeport, Conn. Filed Apr. 8, 1943.

JdE

FOR PRESSURE REDUCING AND REGULATING FLUID CONTROL VALVES.
Claims use since Feb. 16, 1943.

Ser. No. 460,807. RESISTOFLEX CORPORATION, Belleville, N. J. Filed May 21, 1943.



FOR HOSE FITTINGS AND PIPE COUPLINGS FOR FLEXIBLE FLUID CONDUITS.
Claims use since Feb. 7, 1940.

Ser. No. 460,984. COOK CHOCOLATE COMPANY, Chicago, Ill. Filed May 28, 1943.

THERMAT

FOR LARGE COMMERCIAL DOUBLE JACKETED CHOCOLATE HEATING KETTLES.
Claims use since July 1940.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 461,106. ALLOY CASTINGS COMPANY, INC., Worcester, Mass. Filed June 3, 1943.



FOR CASTINGS AND METALS MADE OF IRON AND COPPER ALLOY AND COPPER FERRITE.
Claims use since May 8, 1943.

CLASS 15

OILS AND GREASES

Ser. No. 460,241. THE PURE OIL COMPANY, Chicago, Ill. Filed Apr. 28, 1943.

PUREFLIGHT

FOR GASOLINE AND OTHER MOTOR FUEL OILS.
Claims use since Apr. 5, 1943.

Ser. No. 461,122. THE TEXAS COMPANY, New York, N. Y. Filed June 3, 1943.

CLEARTEX

FOR CUTTING OIL.
Claims use since Apr. 28, 1943.

CLASS 19

VEHICLES, NOT INCLUDING ENGINES

Ser. No. 460,517. BOEING AIRCRAFT COMPANY, Seattle, Wash. Filed May 10, 1943.

FORTRESS

FOR AIRPLANES AND STRUCTURAL PARTS THEREOF.
Claims use since Dec. 20, 1942.

Ser. No. 461,056. ROCKY MOUNTAIN STEEL PRODUCTS, INC., Los Angeles, Calif. Filed May 31, 1943.

PONY EXPRESS

FOR POWER TRUCKS AND TRAILERS FOR TRANSPORTATION IN WAREHOUSES, FACTORIES AND THE LIKE.
Claims use since November 1938.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 459,804. ELECTRONIC LABORATORIES, INCORPORATED, Indianapolis, Ind. Filed Apr. 12, 1943.

E/L

FOR ELECTRICAL POWER SUPPLY UNITS FOR CONTROLLING OR RECTIFYING A GIVEN ELECTRIC POWER TO SUIT A USE, CONVERTERS AND INVERTERS, AND PORTABLE RADIO COMMUNICATION APPARATUS AND VISIBLE SIGNALLING APPARATUS.
Claims use since Mar. 29, 1943.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 458,789. PARAMOUNT STEEL RULE DIES INC., New York, N. Y. Filed Feb. 26, 1943.



The boy and girl figures are fanciful. The drawing is lined for blue, red, yellow, and orange colors.
FOR SPELLING BOARDS.
Claims use since Feb. 1, 1943.

Ser. No. 459,802. JAMES CATTRANO, Flushing, Long Island, N. Y. Filed Apr. 12, 1943.
No claim is made to the representation of the billiard balls and the rack apart from the mark.



FOR BILLIARD TABLES, BILLIARD BALLS, BILLIARD CUES, AND BILLIARD CUE TIPS.
Claims use since Feb. 23, 1943.

Ser. No. 459,985. COMET MODEL AIRPLANE & SUPPLY COMPANY, INC., Chicago, Ill. Filed Apr. 19, 1943.

SPEED-O-MATIC

FOR TOY MODEL AIRPLANE KITS.
Claims use since Feb. 24, 1943.

Ser. No. 460,224. TUDOR METAL PRODUCTS CORPORATION, New York, N. Y. Filed Apr. 27, 1943.

GLOBALOTTO

FOR EDUCATIONAL AND AMUSEMENT GAMES PLAYED BY A PLURALITY OF PERSONS, BY CHANCE, FILLING IN REQUIREMENTS RELATING TO GEOGRAPHICAL, HISTORICAL, AND OTHER DATA.
Claims use since Mar. 9, 1943.

Ser. No. 460,955. WILLIAM G. FLETCHER, doing business as Speed Checker Company, Bogota, N. J. Filed May 27, 1943.

SPEED CHECKERS

The word "Checkers" is disclaimed apart from the association.
FOR CHECKER GAME.
Claims use since December 1942.

Ser. No. 460,970. SHOE FORM CO., INC., Auburn, N. Y. Filed May 27, 1943.

PYRA SHELL

No claim is made to the word "Shell" apart from the mark.
FOR BAIT BOXES.
Claims use since March 1935.

Ser. No. 461,204. NANCY ANN DRESSED DOLLS, San Francisco, Calif. Filed June 7, 1943.

LADY IN WAITING

FOR DOLLS AND DOLLS' CLOTHES.
Claims use since Jan 1, 1942.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 459,974. A. FINKL & SONS COMPANY, Chicago, Ill. Filed Apr. 16, 1943.



FOR FINISHED DIE BLOCKS, RAMS FOR FORGING MACHINES AND SOW BLOCKS MADE OF STEEL ALLOY.
Claims use since May 2, 1919.

Ser. No. 460,485. THE UNITED SPECIALTIES COMPANY, Chicago, Ill. Filed May 7, 1943.



FOR AIR CLEANERS AND DUST SEPARATORS FOR USE IN ASSOCIATION WITH INTERNAL COMBUSTION ENGINES.
Claims use since June 1935.

Ser. No. 460,837. GENERAL MOTORS CORPORATION, Detroit, Mich. Filed May 22, 1943.

DUREX 100

FOR MACHINE ELEMENTS WHEREIN A PORTION ONLY IS MADE FROM SINTERED METAL POWDERS—NAMELY, BEARINGS FOR SHAFTS AND THE LIKE, THRUST BEARINGS AND FRICTION PLATES.
Claims use since Mar. 26, 1943.

CLASS 24

LAUNDRY APPLIANCES AND MACHINES

Ser. No. 458,343. SOUTHERN MILLS, INCORPORATED, Atlanta, Ga. Filed Feb. 4, 1943.

Col.

COTTONBLOSSOM

FOR COTTON FABRIC USED ON IRONER ROLLS; COTTON KNITTED PADDING FOR FLAT WORK IRONER ROLLS; PRESS COVERS MADE OF SATEEN OR SIMILAR MATERIAL USED ON GARMENT PRESSES AND LAUNDRY PRESSES; PRESS PADS MADE OF COTTON PADDING CUT TO SIZE AND USED ON GARMENT PRESSES AND LAUNDRY PRESSES; AND PICOT TAPE USED ON FLAT WORK IRONERS TO GUIDE THE WORK THROUGH THE ROLLS.
Claims use since January 1930.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 442,623. BENJAMIN R. BRODY, New York, N. Y. Filed Apr. 16, 1941.
The drawing is lined for the colors blue and gold.



FOR PENDANTS, LOCKETS, BROOCHES, EARRINGS, TIARAS, LAVALIERES, NECKLACES, BRACELETS, COSTUME JEWELRY, DETACHABLE INITIALS; FINGER RINGS; AND THE FOLLOWING ARTICLES IN THE NATURE OF JEWELRY AND MADE OF PRECIOUS METAL OR PLATED WITH PRECIOUS METAL—NAMELY, PINS, CLIPS, BARRETTES, HAIRCOMBS, BELT BUCKLES, SHOE BUCKLES; AND BELT, SHOE, HAIR, AND DRESS ORNAMENTS.
Claims use since November 1940.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 452,379. BENJAMIN GUZOFSKY, doing business as Ben-Gee Sales Company, New York, N. Y. Filed Apr. 16, 1942.

RU-RITA

FOR HAIR BRUSHES.
Claims use since Jan. 2, 1941.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 460,963. MARDELL-ALLEN KANDELL, INC., New York, N. Y. Filed May 27, 1943.

ARALIGHT

FOR PILLOWS.
Claims use since Apr. 15, 1943.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 460,410. UNITED STATES RUBBER COMPANY, New York, N. Y. Filed May 4, 1943.

HELON

FOR FLEXIBLE HOT AIR DUCT COMPRISING A FABRIC SLEEVE HAVING A STIFFENING COIL OF NONMETALLIC MATERIAL.
Claims use since Nov. 16, 1942.

Ser. No. 460,808. RUBBER-WELD PRODUCTS CORP., Cambridge, Mass. Filed May 21, 1943.

Rubber-Weld

The word "Rubber" is disclaimed apart from the mark.
FOR TIRE REPAIR PATCHES OF FABRIC, RUBBER, OR COMBINATIONS THEREOF; AND RUBBER REPAIR KITS CONSISTING OF BEVELED CUT PATCHES AND RUBBER SHEETING FOR REPAIRING INNER TUBES FOR PNEUMATIC TIRES, AUTOMOBILE TIRES, RUBBER BOOTS, RUBBER HOT WATER BOTTLES, AIR CUSHIONS, KELLEY PADS, RUBBER ICE BAGS, SYRINGES, RUBBER GLOVES, GARDEN HOSE, GAS TUBING, BATHING CAPS, RUBBER TOYS, BLADDERS FOR FOOTBALLS, BASKETBALLS, ETC.
Claims use since Jan. 1, 1925.

CLASS 37

PAPER AND STATIONERY

Ser. No. 459,843. MATERIAL COORDINATING AGENCY, INC., New York, N. Y. Filed Apr. 13, 1943.



FOR PRINTED BLANK FORMS FOR RECORD USE IN THE COORDINATING, EXPEDITING, PROCURING, AND PURCHASING OF MATERIALS IN THE CONSTRUCTION OF SHIPS OR OTHER BUILDING PROJECTS.
Claims use since Oct. 15, 1942.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 458,141. THE AMERICAN ASSOCIATION OF INDUSTRIAL EDITORS, INC., Ottumwa, Iowa. Filed Jan. 25, 1943.
No claim is made to the representation of a map of the United States apart from the mark.



FOR SERVICE BULLETINS FOR EMPLOYEE PUBLICATION EDITORS, PUBLISHED FROM TIME TO TIME AND PRINTED ANNUAL REPORTS OF THE ASSOCIATION.
Claims use since Sept. 15, 1942.

Ser. No. 460,569. INTER-COASTAL ADVERTISING COMPANY, INC., Trumansburg, N. Y. Filed May 12, 1943.

EL AMIGO DE TODOS

FOR PUBLICATION PUBLISHED FROM TIME TO TIME AND CONTAINING PROSE AND VERSE IN SPANISH ON SUBJECTS OF GENERAL INTERESTS AND ADVERTISING MATTER.
Claims use since Mar. 9, 1943.

CLASS 39

CLOTHING

Ser. No. 441,290. ROSENAU BROS., INC., Philadelphia, Pa.; assignor to Rosenau Brothers, Philadelphia, Pa., a partnership. Filed Mar. 6, 1941.

Bonnie Blair

No claim is made to the word "Blair" apart from the mark.
FOR CHILDREN'S AND YOUNG GIRLS' DRESSES.
Claims use since Feb. 26, 1941.

Ser. No. 453,013. MALCOLM KENNETH COMPANY, Boston, Mass. Filed May 14, 1942.
Applicant disclaims the word "Kintyre" apart from the mark.



FOR MEN'S AND WOMEN'S TOPCOATS AND SPORT JACKETS.
Claims use since January 1933.

Ser. No. 454,305. SAMUEL J. GOLDFARB, New York, N. Y. Filed July 18, 1942.
No claim is made to the words "Help Yourself to Bargains" apart from the mark.

BARGAINTERIA
"HELP YOURSELF TO BARGAINS"

FOR LADIES' AND MISSES' DRESSES AND APRONS.
Claims use since Apr. 15, 1942.

Ser. No. 454,319. YUKON COAT CORP., New York, N. Y. Filed July 18, 1942.

No claim is made to the words "North American Muskrat" apart from the mark. The drawing is lined for red and blue.



FOR FUR COATS MADE OF MUSKRAT.
Claims use since December 1940.

Ser. No. 460,747. MAX ROSENFELD, Brooklyn, N. Y. Filed May 19, 1943.

The surname "Russell" is disclaimed apart from the mark.

RUSSELL SQUARE

MAXIS

FOR MEN'S SUITS AND OVERCOATS.
Claims use since Apr. 26, 1943.

Ser. No. 460,794. FISBA FABRICS, INC., New York, N. Y. Filed May 21, 1943.



FOR HANDKERCHIEFS FOR MEN AND WOMEN.
Claims use since Feb. 2, 1942.

Ser. No. 460,814. SULLOWAY HOSIERY MILLS, Franklin, N. H. Filed May 21, 1943.

Applicant is the owner of registration No. 95,130, issued under the 10-year proviso, dated Feb. 3, 1914, and renewed, and registration No. 96,530, dated Apr. 21, 1914, and renewed.

Lady FRANKLIN

FOR HOSIERY.
Claims use since Mar. 15, 1893, as to the word "Franklin"; and since May 1, 1943, as to the mark as shown.

Ser. No. 460,830. CLUETT, PEABODY & CO., INC., Troy, N. Y. Filed May 22, 1943. Under 10-year proviso.

ARDEN

FOR COLLARS.
Claims use since 1891.

Ser. No. 460,871. HAT CORPORATION OF AMERICA, Norwalk, Conn. Filed May 24, 1943.



No claim is made to the term "New York" apart from the mark.
FOR HATS FOR MEN.
Claims use since May 11, 1943.

Ser. No. 461,064. ISIDORE SMITH, New York, N. Y. Filed May 31, 1943.

Luella

FOR WOMEN'S, MISSES', AND JUNIOR MISSES' COATS AND SUITS.
Claims use since June 15, 1935.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS

Ser. No. 455,421. BAXTER, WOODHOUSE & TAYLOR LIMITED, Stockport, England. Filed Sept. 9, 1942.



FOR PIECE GOODS COMPOSED WHOLLY OR MAINLY OF COTTON.
Claims use since Oct. 24, 1941.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS

Ser. No. 460,572. LANKENAU COMPANY, New York, N. Y. Filed May 12, 1943.



FOR SILK, RAYON, WOOLEN, AND WORSTED PIECE GOODS.
Claims use since Jan. 25, 1943.

CLASS 43

THREAD AND YARN

Ser. No. 458,608. THE DUPLAN CORPORATION, New York, N. Y. Filed Feb. 18, 1943.

ETNATEX

FOR YARNS MADE OF SILK, RAYON, WOOL, COTTON, AND OTHER YARNS.
Claims use since Feb. 9, 1943.

Ser. No. 459,390. AMERICAN VISCOSE CORPORATION, Wilmington, Del. Filed Mar. 27, 1943.

AVCOCEL

FOR YARNS, THREADS, AND YARN AND THREAD FILAMENTS.
Claims use since Mar. 18, 1943.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 450,221. GEORGE H. BUDD, Los Angeles, Calif. Filed Jan. 15, 1942.



El-Sun-Con

No claim is made to the illustration of the goods per se.
FOR TREATMENT TENTS AND PARTS THEREOF.
Claims use since Jan. 6, 1942.

Ser. No. 457,290. TYRRELL'S HYGIENIC INSTITUTE, INC., New York, N. Y. Filed Dec. 8, 1942.

Applicant disclaims apart from the mark as shown the words "Internal Bath."

J. B. L. CASCADE
INTERNAL BATH

FOR DOUCHE SYRINGES, HOT WATER BAGS, AND HOT WATER BOTTLES.
Claims use since 1894.

Ser. No. 458,618. JULIUS SCHMID, INC., New York, N. Y. Filed Feb. 18, 1943.

Applicant disclaims the words "The Seal of Protection" apart from the mark and disclaims the words "Trade Mark Reg. U. S. Pat. Off." per se.



FOR PESSARIES AND PESSARY INTRODUCERS.
Claims use since Jan. 29, 1943.

Ser. No. 460,938. ROCKLAND DENTAL CO., INC., New York and Sparkill, N. Y. Filed May 26, 1943.

Acryfoil

FOR SUBSTITUTE FOR DENTAL TIN FOIL—NAMELY, A LIQUID, APPLIED WITH A BRUSH TO ALL SURFACES, PLASTERS, AND METALS WITH WHICH ACRYLIC MATERIALS COME IN CONTACT AT THE TIME WHEN PRESSED INTO FORMS.
Claims use since October 1942.

CLASS 45

BEVERAGES, NONALCOHOLIC

Ser. No. 460,904. PASSION FRUIT PLANTATIONS INC., Los Angeles, Calif. Filed May 25, 1943.

Passionola

FOR FRUIT JUICES AND FLAVORING FOR NONALCOHOLIC DRINKS.
Claims use since May 1932.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 459,268. WM. P. MCDONALD CORPORATION, Flushing, N. Y. Filed Mar. 22, 1943.

FLORI-DON

FOR CANNED CITRUS FRUIT JUICES.
Claims use since Mar. 1, 1943.

Ser. No. 459,984. COLLEGE INN FOOD PRODUCTS COMPANY, Chicago, Ill. Filed Apr. 19, 1943.
Applicant claims ownership of registration Numbers 175,067, Oct. 30, 1923, 194,678, Feb. 3, 1925, 202,297, Aug. 18, 1925, and 227,866, May 17, 1927.

COLLEGE INN

FOR NOODLE SOUP MIX.
Claims use since Feb. 10, 1943.

Ser. No. 460,281. ADA MILLING COMPANY, Ada, Okla. Filed Apr. 30, 1943.



FOR POULTRY AND LIVESTOCK FEEDS.
Claims use since Feb. 22, 1943.

Ser. No. 460,363. COLUMBIA RIVER SALMON CO. INC., Astoria, Oreg. Filed May 3, 1943.
Applicant is the owner of trade-mark registration No. 170,515, registered July 17, 1923, and renewed. No claim is made to the representation of the fish apart from the mark.

BLUE A LETTER

FOR CANNED SALMON.
Claims use since 1932.

Ser. No. 460,518. THE BORDEN COMPANY, New York, N. Y. Filed May 10, 1943.

Ladpro

FOR POULTRY FEED SUPPLEMENT.
Claims use since Dec. 4, 1942.

Ser. No. 460,977. MAX AMS, INC., New York, N. Y. Filed May 28, 1943.

PRUNELADE

FOR PRUNE JAMS AND PRUNE BUTTER FOR USE AS A SANDWICH SPREAD.
Claims use since May 3, 1943.

Ser. No. 461,075. MAX AMS, INCORPORATED, New York, N. Y. Filed June 1, 1943.
Applicant is the owner of registrations Nos. 93,026, of Aug. 12, 1913 (renewed), 343,147, of Feb. 9, 1937, and 392,090, of Dec. 9, 1941.

AIRLINE

FOR SPAGHETTI AND EGG NOODLES.
Claims use since May 18, 1943.

Ser. No. 461,081. THE SCHUMAN CO., Chicago, Ill., and Lodi, Calif. Filed June 1, 1943.



FOR FRESH VEGETABLES AND GRAPES.
Claims use since Oct. 11, 1926, for grapes; and since Apr. 25, 1941, for fresh vegetables.

Ser. No. 461,107. AMERICAN MAIZE-PRODUCTS COMPANY, New York, N. Y. Filed June 3, 1943.

AMIOCA

FOR CORN STARCH OBTAINED FROM SO-CALLED "WAXY MAIZE."
Claims use since Mar. 24, 1943.

Ser. No. 461,210. SANNA DAIRY ENGINEERS, Madison, Wis. Filed June 7, 1943.

SANALAC

FOR DRIED SKIM MILK.
Claims use since Aug. 19, 1935.

CLASS 47

WINES

Ser. No. 460,921. CHATEAU WINES CORPORATION, Royal Oak, Mich. Filed May 26, 1943.

MOLLY PITCHER

The name "Molly Pitcher" is the name of a heroine of Revolutionary fame who distinguished herself at the battle of Monmouth.
FOR WINES.
Claims use since May 12, 1943.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Ser. No. 460,469. DISTILLED LIQUORS IMPORT CO. INC., New York, N. Y. Filed May 7, 1943.

CHATHAM HOUSE

No claim is made to the term "Chatham" except as shown.
FOR DISTILLED DRY GIN.
Claims use since Apr. 19, 1943.

Ser. No. 460,667. R. U. DELAPENHA & CO. INC., New York, N. Y. Filed May 17, 1943.

Kirschwasser Rathaus

No claim is made to the word "Kirschwasser" apart from the mark.
FOR BRANDY.
Claims use since Nov. 24, 1942.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

JULY 27, 1943

402,462. WATER SOLUBLE DETERGENT CLEANING COMPOUND FOR USE IN HOUSEHOLD AND INDUSTRIAL CLEANING. SOLVENTOL CHEMICAL PRODUCTS, INC., Detroit, Mich.
Filed October 14, 1936. Serial No. 384,340. PUBLISHED MARCH 8, 1938. Class 4.

402,463. WINES. JOSEPH MUTASCIO, doing business as Prosperity California Wines, New York, N. Y.
Filed December 3, 1940. Serial No. 438,490. PUBLISHED APRIL 1, 1941. Class 47.

402,464. WINES. JOSEPH MUTASCIO, doing business as Prosperity California Wines, New York, N. Y.
Filed December 10, 1940. Serial No. 438,700. PUBLISHED APRIL 1, 1941. Class 47.

402,465. DEVELOPING INK THAT IS APPLIED TO AN EXPOSED PHOTOGRAPHIC PLATE TO MAKE THE IMAGE VISIBLE TO THE EYE AND TO CREATE A GREASY BASE ON THE IMAGE PORTION OF THE PLATE TO WHICH THE LITHOGRAPHIC INK WILL ADHERE. DAVIDSON MANUFACTURING CORPORATION, Chicago, Ill.
Filed February 8, 1941. Serial No. 440,452. PUBLISHED MAY 11, 1943. Class 11.

402,466. BREAD. ELIZABETH MONAGHAN INC., Detroit, Mich.
Filed April 12, 1941. Serial No. 442,536. PUBLISHED JUNE 24, 1941. Class 46.

402,467. STRAINERS USED IN LIQUID SYSTEMS SUCH AS REFRIGERATION AND WATER SYSTEMS. AUTOMATIC PRODUCTS COMPANY, Milwaukee, Wis.
Filed May 24, 1941. Serial No. 443,870. PUBLISHED MAY 18, 1943. Class 13.

402,468. ELECTRICALLY OPERATED VACUUM CLEANERS, FACSIMILE TRANSMITTERS, FACSIMILE RECEIVERS, RADIO COMPASSES, TELEVISION TRANSMITTERS, TELEVISION RECEIVERS, TWO-WAY RADIO TELEPHONES, RADIO DIRECTION FINDERS, PARTS THEREOF, ATTACHMENTS THERETO, AND ACCESSORIES THEREFOR. RCA MANUFACTURING COMPANY, INC., Camden, N. J., assignor to Radio Corporation of America, a corporation of Delaware.
Filed June 21, 1941. Serial No. 444,741. PUBLISHED MAY 18, 1943. Class 21.

402,469. RAILWAY CAR CASTINGS—NAMELY, SIDE FRAMES, BOLSTERS, CORNER BRACKETS, AND CENTER FILLER CASTINGS. BIRDSBORO STEEL FOUNDRY AND MACHINE COMPANY, Birdsboro, Pa.
Filed July 2, 1941. Serial No. 445,006. PUBLISHED NOVEMBER 17, 1942. Class 14.

402,470. PREPARED MEATS IN TIN AND GLASS—NAMELY, FOR BEEF STEAK AND ONIONS, BEEF STEW, BREAKFAST SAUSAGE, CHILI CON CARNE, CORNED BEEF HASH, COOKED LUNCH TONGUES, ETC. UNITED PACKERS, INC., Chicago, Ill.
Filed July 3, 1941. Serial No. 445,073. PUBLISHED NOVEMBER 24, 1942. Class 46.

402,471. COTTON BATTING OR COTTON BATTS. LOCKPORT COTTON BATTING CO., Lockport, N. Y.
Filed October 27, 1941. Serial No. 448,157. PUBLISHED MAY 18, 1943. Class 1.

402,472. STORAGE BATTERIES. COMMANDER BATTERY MANUFACTURING CO., Chicago, Ill.
Filed February 24, 1942. Serial No. 451,186. PUBLISHED MAY 18, 1943. Class 21.

402,473. SOAP. BEACH SOAP COMPANY, Lawrence, Mass.
Filed February 26, 1942. Serial No. 451,220. PUBLISHED MAY 18, 1943. Class 4.

402,474. SOAP. BEACH SOAP COMPANY, Lawrence, Mass.
Filed February 26, 1942. Serial No. 451,221. PUBLISHED MAY 18, 1943. Class 4.

402,475. PATNA TYPE RICE. MONROE D. GREEN, San Francisco, Calif.
Filed March 18, 1942. Serial No. 451,712. PUBLISHED MAY 18, 1943. Class 46.

402,476. MEAT PRODUCTS—NAMELY, HAM. OSCAR MAYER & CO., Chicago, Ill.
Filed June 26, 1942. Serial No. 453,896. PUBLISHED MAY 18, 1943. Class 46.

402,477. CARBON-SILICATES USED AS A PIGMENT FOR PAINTS. CARBSIL PIGMENT COMPANY, Franklin, Tenn.
Filed July 3, 1942. Serial No. 454,028. PUBLISHED MAY 4, 1943. Class 16.

402,478. PLAYING CARDS. EARL PLEASANT BUTLER, doing business as Anma Card Company, Tulsa, Okla.
Filed August 3, 1942. Serial No. 454,684. PUBLISHED MAY 18, 1943. Class 22.

402,479. REGISTERING MACHINES—NAMELY, CASH REGISTERS; POSTAGE REGISTERING MACHINES; POSTAGE MACHINES; POSTAGE RECEIPTING MACHINES; ETC. THE NATIONAL CASH REGISTER COMPANY, Dayton, Ohio.
Filed August 21, 1942. Serial No. 455,021. PUBLISHED MAY 18, 1943. Class 26.

402,480. SMOKING TOBACCO. CHARLES & CO., INC., New York, N. Y.
Filed September 1, 1942. Serial No. 455,226. PUBLISHED MAY 18, 1943. Class 17.

402,481. COATS FOR MEN AND BOYS, ESPECIALLY COATS WITH ADJUSTABLE COLLARS. CIRO MEROLA & COMPANY, Bayonne, N. J.
Filed September 14, 1942. Serial No. 455,514. PUBLISHED MAY 11, 1943. Class 39.

402,482. GIRLS' COATS. CARSON PIRIE SCOTT & COMPANY, Chicago, Ill.
Filed October 6, 1942. Serial No. 455,996. PUBLISHED MAY 11, 1943. Class 39.

402,483. WOMEN'S BLOUSES. CARSON PIRIE SCOTT & COMPANY, Chicago, Ill.
Filed October 6, 1942. Serial No. 455,997. PUBLISHED MAY 11, 1943. Class 39.

402,484. PUBLICATION PUBLISHED PERIODICALLY. BOTANY WORSTED MILLS, Passaic, N. J.
Filed October 22, 1942. Serial No. 456,333. PUBLISHED MAY 11, 1943. Class 38.

402,485. EXHAUST FANS AND BLOWERS USED PRINCIPALLY FOR SHIPHOLD VENTILATION. CHELSEA FAN & BLOWER CO., INC., Irvington, N. J.
Filed November 5, 1942. Serial No. 456,651. PUBLISHED MAY 18, 1943. Class 34.

402,486. ELECTRIC HEATERS AND ELECTRIC WATER LIGHTS. C. C. GALBRAITH & SON, INC., New York, N. Y.
Filed November 13, 1942. Serial No. 456,794. PUBLISHED MAY 18, 1943. Class 21.

402,487. TRANSFER SCREEN SHEETS FOR TINTING OR SHADING ARTISTS' DRAWINGS OR THE LIKE. PARA-TONE CO. INC., Chicago, Ill.
Filed November 14, 1942. Serial No. 456,830. PUBLISHED MAY 18, 1943. Class 37.

402,488. GAME APPARATUS—NAMELY, DOMINOES; A DICE AND COUNTER GAME; GAME BOARDS WITH HOLES AND PEGS TO FIT IN THE HOLES; SETS OF CASES WITH SHIFTING BLOCKS; ETC. E. S. LOWE COMPANY, INC., New York, N. Y.
Filed November 17, 1942. Serial No. 456,875. PUBLISHED MAY 18, 1943. Class 22.

402,489. DEVICES ADAPTED FOR ATTACHMENT TO THE FEET FOR USE AS AIDS IN SWIMMING. SEA-NET MANUFACTURING COMPANY, Los Angeles, Calif.
Filed November 18, 1942. Serial No. 456,906. PUBLISHED MAY 18, 1943. Class 22.

402,490. RADIO TRANSMITTERS. BENDIX AVIATION, LTD., North Hollywood, Calif.
Filed December 9, 1942. Serial No. 457,294. PUBLISHED MAY 18, 1943. Class 21.

402,491. CLEANING MATERIAL HAVING OIL AND WATER ABSORBENT AND FIRE PREVENTIVE PROPERTIES. CHARLES M. ADDIS, doing business as Refiners Lubricating Company, New York, N. Y.
Filed December 17, 1942. Serial No. 457,456. PUBLISHED MAY 18, 1943. Class 4.

402,492. SYNTHETIC RESIN PLASTICS PREPARED FOR USE IN THE MANUFACTURE OF DENTAL PROSTHESES. THE AMALGAMATED DENTAL COMPANY LIMITED, London, England.
Filed December 18, 1942. Serial No. 457,489. PUBLISHED MAY 18, 1943. Class 44.

402,493. LENS, HAVING THE CHARACTERISTIC THAT WHEN USED IN CONJUNCTION WITH ANOTHER LENS, SAID LENS GIVES A WIDE ANGLE COVERING. Q-O-S CORPORATION, New York, N. Y.
Filed December 26, 1942. Serial No. 457,613. PUBLISHED MAY 18, 1943. Class 26.

402,494. CLEANER FOR PAINTED WALLS, WOODWORK, LINOLEUM, TILE, PORCELAIN, VENETIAN BLINDS, REFRIGERATORS, STOVES, AND FURNITURE. ROMAN CLEANSER CO., Detroit, Mich.
Filed January 4, 1943. Serial No. 457,752. PUBLISHED MAY 18, 1943. Class 4.

402,495. SOYBEAN OIL MEAL FOR USE IN ANIMAL FEEDS. THE TOLEDO SOYBEAN PRODUCTS COMPANY, Toledo, Ohio.
Filed January 19, 1943. Serial No. 458,022. PUBLISHED MAY 18, 1943. Class 46.

402,496. MEN'S AND BOYS' OUTER SHIRTS, PAJAMAS, UNDERWEAR AND SHORTS. SOUTHLAND MANUFACTRING CO., INC., Wilmington, N. C.
Filed January 30, 1943. Serial No. 458,250. PUBLISHED MAY 18, 1943. Class 39.

402,497. PRINTED AND ILLUSTRATED BOOKS FOR CHILDREN. HOWARD R. GARIS, East Orange, N. J.
Filed February 5, 1943. Serial No. 458,355. PUBLISHED MAY 11, 1943. Class 38.

402,498. CHEWING CANDIES CONTAINING NATURAL FRUIT FLAVORS BUT NOT CONTAINING ANY NUTS OR NUT-LIKE INGREDIENTS. VOLPIT CHEWING CANDY CO., INC., Long Island City, N. Y.
Filed February 6, 1943. Serial No. 458,377. PUBLISHED MAY 18, 1943. Class 46.

402,499. EGG POACHERS—NAMELY, COMBINATION RECEPTACLES FOR SEPARATELY HOLDING EGGS AND WATER. JOHN C. ZIEGLER, Weslaco, Tex.
Filed February 6, 1943. Serial No. 458,382. PUBLISHED MAY 18, 1943. Class 13.

402,500. PRINTED FORMS — NAMELY, CHECK BOOKS. BANK OF AMERICA NATIONAL TRUST AND SAVINGS ASSOCIATION, San Francisco, Calif.
Filed February 8, 1943. Serial No. 458,384. PUBLISHED MAY 18, 1943. Class 37.

402,501. NUTS, BOLTS, DRIVE CLIPS, METAL TIE PLATES, METAL TIE BARS, ANCHOR PLATES, SCREWS, HINGES. PACIFIC HUTS, INC., Seattle, Wash.
Filed February 8, 1943. Serial No. 458,403. PUBLISHED MAY 18, 1943. Class 13.

402,502. CANNED FRUITS. TURLOCK CO-OPERATIVE GROWERS, Modesto and San Francisco, Calif.
Filed February 8, 1943. Serial No. 458,418. PUBLISHED MAY 18, 1943. Class 46.

402,503. AIR CONDITIONING AND VENTILATING UNITS. YOUNG RADIATOR COMPANY, Racine, Wis.
Filed February 8, 1943. Serial No. 458,420. PUBLISHED MAY 18, 1943. Class 34.

402,504. NECKLACES AND BRACELETS NOT INCLUDING WATCHES, FINGER RINGS, EARRINGS, JEWELRY CLIPS, ETC. COHN & ROSENBERGER, INC., New York, N. Y.
Filed February 10, 1943. Serial No. 458,455. PUBLISHED MAY 18, 1943. Class 28.

402,505. WOMEN'S UNDERGARMENTS—NAMELY, SLIPS. SIMON POLLOCK, doing business as American Lingerie Co., New York, N. Y.
Filed February 11, 1943. Serial No. 458,479. PUBLISHED MAY 11, 1943. Class 39.

402,506. SOLID ZINC-TREATED ROSIN. NEWPORT INDUSTRIES, INC., Pensacola, Fla.
Filed February 15, 1943. Serial No. 458,544. PUBLISHED MAY 18, 1943. Class 1.

402,507. NURSES' UNIFORMS. WHITE SWAN UNIFORMS, INC., Yonkers and New York, N. Y.
Filed February 15, 1943. Serial No. 458,558. PUBLISHED MAY 18, 1943. Class 39.

402,508. PRECISION INSTRUMENTS — NAMELY, SPACE GAUGES, PLUG GAUGES, RING GAUGES, ALINEMENT GAUGES, AND GUIDE SLEEVES FOR GAUGES. METRICAL LABORATORIES, INC., Ann Arbor, Mich.
Filed February 17, 1943. Serial No. 458,597. PUBLISHED MAY 18, 1943. Class 26.

402,509. CANNED SOY BEAN SUCCOTASH COMPRISING WHOLE KERNEL GOLDEN CORN AND SOYBEANS. FRANCIS H. LEGGETT & COMPANY, New York, N. Y.
Filed February 20, 1943. Serial No. 458,658. PUBLISHED MAY 18, 1943. Class 46.

402,510. SHELLED POPCORN. THE ALBERT DICKINSON COMPANY, Chicago, Ill.
Filed February 22, 1943. Serial No. 458,683. PUBLISHED MAY 18, 1943. Class 46.

402,511. FRESH GRAPES. EDWARD BARBERA, Lodi, Calif.
Filed February 24, 1943. Serial No. 458,719. PUBLISHED MAY 18, 1943. Class 46.

402,512. SERIES OF PUZZLE GAMES PLAYED WITH BLOCKS CUT AT VARIOUS ANGLES AND IN VARIOUS SHAPES. OTTO RAHN, Ithaca, N. Y.
Filed February 24, 1943. Serial No. 458,741. PUBLISHED MAY 18, 1943. Class 22.

402,513. DOOR MATS MADE OF WOOD LINKS. HOLIDAY WEBER, doing business as New England Wholesale Co-operative Buyers, Boston, Mass.
Filed February 24, 1943. Serial No. 458,748. PUBLISHED MAY 18, 1943. Class 50.

402,514. CHAMPAGNE WINE. SAN MARINO WINE CORPORATION, New York, N. Y.
Filed February 26, 1943. Serial No. 458,795. PUBLISHED MAY 18, 1943. Class 47.

402,515. MISSES' AND JUNIOR MISSES' COATS, SUITS, COAT AND SUIT ENSEMBLES, JACKETS, AND SKIRTS. NORMANDIE COAT CORP., New York, N. Y.
Filed March 3, 1943. Serial No. 458,881. PUBLISHED MAY 11, 1943. Class 39.

402,516. LADIES' UNDERWEAR. ROLLINS HOSIERY MILLS, INC., Des Moines, Iowa.
Filed March 3, 1943. Serial No. 438,883. PUBLISHED MAY 18, 1943. Class 39.

402,517. FRESH VEGETABLES. HENRY WIESEHAN, McAllen, Tex.
Filed March 3, 1943. Serial No. 458,887. PUBLISHED MAY 18, 1943. Class 46.

402,518. FRESH CITRUS FRUITS. WM. P. MCDONALD CORPORATION, Flushing, Long Island, N. Y.
Filed March 6, 1943. Serial No. 458,943. PUBLISHED MAY 18, 1943. Class 46.

402,519. JELLIES, FRUIT PRESERVES, CANNED FRUITS, AND CANNED VEGETABLES. ROBERT ASPINALL, doing business as Robert Aspinall Company and West American Sales Co., San Francisco, Calif.
Filed March 10, 1943. Serial No. 458,995. PUBLISHED MAY 18, 1943. Class 46.

402,520. WOMEN'S, MISSES', AND GIRLS' COATS, SUITS, DRESSES, BLOUSES, SLACKSUITS, AND SKIRTS. FRANK-CERF, INC., New York, N. Y.
Filed March 11, 1943. Serial No. 459,022. PUBLISHED MAY 18, 1943. Class 39.

402,521. WRITING PENS OF ALL KINDS, FOUNTAIN PENS, AND PARTS THEREOF. THE ESTERBROOK STEEL PEN MANUFACTURING COMPANY, Camden, N. J.
Filed March 12, 1943. Serial No. 459,044. PUBLISHED MAY 18, 1943. Class 37.

402,522. MONTHLY MAGAZINE. THE NATIONAL TOOL COMPANY, Cleveland, Ohio.
Filed March 12, 1943. Serial No. 459,050. PUBLISHED MAY 11, 1943. Class 38.

402,523. HOSIERY. TRICAMP CORPORATION, New York, N. Y.
Filed March 12, 1943. Serial No. 459,055. PUBLISHED MAY 18, 1943. Class 39.

402,524. LADIES' AND MISSES' COATS. BARKIN, LEVIN & CO., INC., New York, N. Y.
Filed March 13, 1943. Serial No. 459,067. PUBLISHED MAY 18, 1943. Class 39.

402,525. POLYMERIZED OR PARTIALLY POLYMERIZED RESIN. NEWPORT INDUSTRIES, INC., Pensacola, Fla.
Filed March 15, 1943. Serial No. 459,127. PUBLISHED MARCH 18, 1943. Class 1.

402,526. WINES. SCHENLEY IMPORT CORPORATION, New York, N. Y.
Filed March 16, 1943. Serial No. 459,154. PUBLISHED MAY 11, 1943. Class 47.

402,527. SPECIALLY PROCESSED COTTONSEED FLOUR FOR HUMAN CONSUMPTION. TRADERS OIL MILL COMPANY, Fort Worth, Tex.
Filed March 16, 1943. Serial No. 459,156. PUBLISHED MAY 18, 1943. Class 46.

402,528. WHISKEY. DILLINGER DISTILLERIES, INC., Ruffsdale and Philadelphia, Pa.
Filed March 17, 1943. Serial No. 459,169. PUBLISHED MAY 11, 1943. Class 49.

402,529. SHIP ANCHORS. DURKEE MARINE PRODUCTS CORPORATION, New York and Grasmere, Staten Island, N. Y.
Filed March 22, 1943. Serial No. 459,259. PUBLISHED MAY 18, 1943. Class 14.

402,530. HOUSE ORGAN. THE S. K. WELLMAN COMPANY, Cleveland, Ohio.
Filed March 22, 1943. Serial No. 459,279. PUBLISHED MAY 18, 1943. Class 38.

402,531. BI-MONTHLY MAGAZINE. DELL PUBLISHING COMPANY, INC., New York, N. Y.
Filed March 23, 1943. Serial No. 459,283. PUBLISHED MAY 18, 1943. Class 38.

402,532. PERIODICAL PUBLICATION. FIRECRAFT DOOR COMPANY, Chicago, Ill.
Filed March 29, 1943. Serial No. 459,465. PUBLISHED MAY 18, 1943. Class 38.

402,533. MONTHLY MAGAZINE. DELL PUBLISHING COMPANY, INC., New York, N. Y.
Filed March 31, 1943. Serial No. 459,536. PUBLISHED MAY 18, 1943. Class 38.

402,534. TAPE DISPENSERS. INTERNATIONAL PLASTIC CORPORATION, Morristown, N. J.
Filed April 1, 1943. Serial No. 459,568. PUBLISHED MAY 18, 1943. Class 2.

402,535. HOSE REELS. SCOVILL MANUFACTURING COMPANY, Waterbury, Conn.
Filed April 1, 1943. Serial No. 459,573. PUBLISHED MAY 18, 1943. Class 2.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]
THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

402,536. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) MERCURY BATTERY CHARGER & TESTER CORP., Kansas City, Mo., assignor to The Mercury Corporation, Kansas City, Mo., a corporation of Missouri. Filed Dec. 3, 1940. Serial No. 438,487.

DESULPHATER

FOR COMBINED BATTERY CHARGERS, TESTERS, AND CONDENSERS.
Claims use since Nov. 1, 1940.

402,537. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) HAMILTON MANUFACTURING COMPANY, Two Rivers, Wis. Filed Aug. 26, 1941. Serial No. 446,544.

STEELTONE

FOR PHYSICIANS' AND SURGEONS' TABLES, STOOLS, STANDS, CHAIRS, WASTE CONTAINERS, AND CABINETS.
Claims use since 1937.

402,538. (CLASS 47. WINES.) GOLAN WINES, INC., doing business as Golan Wines, Los Angeles and St. Helena, Calif., assignor to Colton Wineries, Los Angeles, Calif., a corporation of California. Filed Oct. 13, 1941. Serial No. 447,735.

LANGO

FOR WINES.
Claims use since Sept. 30, 1941.

402,539. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) NATIONAL TOILET COMPANY, doing business as Merrit Laboratories, Paris, Tenn. Filed Apr. 7, 1942. Serial No. 452,197.

MERRIT

FOR SHAVING SOAP, SHAVING CREAM, BRUSHLESS SHAVING CREAM, TOILET SOAP, BATH SOAP, FOOT SOAP, STOVE AND NICKEL POLISH, WHITE SHOE POLISH, AUTO CLEANER, GLASS CLEANER, WASHING TABLETS, DENTAL PLATE CLEANER, AND RUG AND UPHOLSTERY CLEANER.
Claims use since Jan. 30, 1942.

402,540. (CLASS 38. PRINTS AND PUBLICATIONS.) DELL PUBLISHING COMPANY, INC., New York, N. Y. Filed May 15, 1942. Serial No. 453,031.

WAR HEROES

FOR MAGAZINES PUBLISHED BI-MONTHLY.
Claims use since Apr. 24, 1942.

402,541. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) H. E. SHAW COMPANY, Worcester, Mass. Filed July 16, 1942. Serial No. 454,274.

Tadcaster

FOR SOAPS AND DRY CLEANSING FLUIDS.
Claims use since June 3, 1942.

402,542. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) H. E. SHAW COMPANY, Worcester, Mass. Filed July 16, 1942. Serial No. 454,275.

Tadcaster

FOR PIPES.
Claims use since June 3, 1942.

402,543. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) WESCO WATERPAINTS, INC., Berkeley, Calif. Filed Aug. 17, 1942. Serial No. 454,958.

BEAUTI-WALL

FOR PAINTS—VIZ., PAINT IN DRY POWDER FORM.
Claims use since Apr. 1, 1942.

402,544. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) DALE MANUFACTURING COMPANY, Florence, Mass. Filed Aug. 19, 1942. Serial No. 454,979.

Dale

FOR ABSORBENT CATAMENIAL TAMPONS.
Claims use since Apr. 10, 1942.

402,545. (CLASS 32. FURNITURE AND UPHOLSTERY.) STOR-AID, INC., New York, N. Y. Filed Sept. 17, 1942. Serial No. 455,604.

MIR-O-RAK

FOR FURNITURE RACKS AND MIRRORS.
Claims use since June 15, 1942.

402,546. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE HEWITT SOAP COMPANY, INC., Dayton, Ohio. Filed Jan. 8, 1943. Serial No. 457,811.

NORTHERN PINE

FOR SOAP.
Claims use since November 1936.

402,547. (CLASS 39. CLOTHING.) L. L. ROSENTHAL & COMPANY, INC., Chicago, Ill. Filed Feb. 11, 1943. Serial No. 458,484.

Harvard Clothes

FOR SUITS, OVERCOATS, TOP COATS, TUXEDOS, MEN'S FULL DRESS SUITS, SPORT JACKETS, AND LEISURE JACKETS FOR MEN AND YOUNG MEN.
Claims use since 1914.

402,548. (CLASS 39. CLOTHING.) ASSOCIATED LERNER SHOPS OF AMERICA, INC., New York, N. Y. Filed Mar. 23, 1943. Serial No. 459,282.

LERNER SHOPS
"O.D.C.'S"
(ON DUTY CLOTHES)

FOR WOMEN'S AND GIRLS' DRESSES.
Claims use since Jan. 4, 1941.

402,549. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) SPORT PRODUCTS, INC., Cincinnati, Ohio. Filed May 14, 1943. Serial No. 460,634.

MacGregor
THE GREATEST NAME IN GOLF

FOR GOLF CLUBS AND PARTS THEREOF, GOLF BALLS, GOLF BAGS, GOLF MARKERS, GOLF TEES, AND GOLF PRACTICE DEVICES.
Claims use since Jan. 4, 1938.

TRADE-MARK REGISTRATIONS RENEWED

23,874. **REX.** CIGARS. Registered November 28, 1893. EDWIN F. LAW, Lancaster, Pa. Re-renewed November 28, 1943, to Bayuk Cigars Incorporated, Philadelphia, Pa., a corporation of Maryland, assignee by mesne assignments.

23,883. **CARLOWA.** OIL OF ROSES. Registered November 28, 1893. GEORGE LUEDERS. Re-renewed November 28, 1943, to George Lueders & Co., New York, N. Y., a corporation of New York, assignee.

161,101. **"HARRY COLLINS" AND DRAWING.** LADIES' DRESSES, SUITS, WRAPS, AND FUR PIECES. Registered November 7, 1922. HARRY COLLINS, INC. Renewed November 7, 1942, to Harry Collins, New York, N. Y., successor.

165,381. **BIG LEAGUE.** DAIRY FEED, SCRATCH FEED, HORSE AND MULE FEED, AND HOG FEED. Registered March 6, 1923. JOHN M. WILSON, doing business as Meridian Grain & Elevator Company. Renewed March 6, 1943, to Meridian Grain & Elevator Co., Meridian, Miss., a firm, assignee.

165,738. **ANGELUS.** BOND PAPER. Registered March 20, 1923. W. P. JEFFRIES COMPANY. Renewed March 20, 1943, to Jeffries Banknote Company, Los Angeles, Calif., a corporation of California, successor.

166,466. **MEADOW BLEACH.** LINEN SMALL WARES—NAMELY, TABLE CLOTHS, NAPKINS, TOWELS, SHEETS, PILLOWCASES, TEA CLOTHS, AND BUREAU AND SIDEBOARD SCARFS AND LINEN PIECE GOODS. Registered April 3, 1923. YORK STREET FLAX SPINNING CO. LIMITED, Belfast, Ireland, a corporation of Great Britain and Ireland. Renewed April 3, 1943.

167,383. **CONRAD'S QUALITY ASSERTS ITSELF.** BREAD, ROLLS, AND BUNS MADE FROM GRAHAM, RYE, WHOLE-WHEAT, AND WHITE FLOURS. Registered May 1, 1923. HENRY W. CONRAD. Renewed May 1, 1943, to E. Litoborski, doing business as The H. W. Conrad Bakery, Momence, Ill., successor.

167,809. **REPRESENTATION OF HAND BEING BANDAGED. AN ANTISEPTIC LINIMENT FOR THE FIRST-AID TREATMENT OF BURNS, CUTS, BRUISES, INFLAMMATIONS, AND MINOR INJURIES.** Registered May 8, 1923. CLARA M. SHIPMAN, doing business as C. A. Mosso Laboratories. Renewed May 8, 1943, to C. A. Mosso Company, Chicago, Ill., a firm, successor.

169,196. **LACTEA LAC.** MILK CULTURE. Registered June 12, 1923. LACTEAL ANALYTICAL LABORATORIES, INC. Renewed June 12, 1943, to Nathan E. Lazarus, doing business as Lacteal Analytical Laboratories, Buffalo, N. Y., assignee.

169,271. **"KENLIT" AND DRAWING.** TEXTILE FABRIC SHEETING COATED WITH COMPOSITIONS CONTAINING NITROCELLULOSE, AND RUBBER-COATED CLOTH. Registered June 12, 1923. KENLIT MFG. CO., Medford, Mass., a corporation of Massachusetts. Renewed June 12, 1943.

169,292. **AMELITA.** WOMEN'S KNITTED AND TEXTILE UNDERGARMENTS. Registered June 12, 1923. THE FAIR, Chicago, Ill., a corporation of Illinois. Renewed June 12, 1943.

169,313. **HÖMAKER.** HEATED-CABINET LAUNDRY DRIERS. Registered June 12, 1923. THE WILLIAMSON HEATER COMPANY, Cincinnati, Ohio, a corporation of Ohio. Renewed June 12, 1943.

169,622. **"PONOLITH" AND DRAWING.** PAINT PIGMENTS, ESPECIALLY LITHOPONE AND CADMIUM YELLOW. Registered June 26, 1923. THE KREBS PIGMENT & CHEMICAL COMPANY, Newport, Del. Renewed June 26, 1943, to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware, assignee by mesne assignments.

169,769. **"STRIDE A WAY" AND DRAWING.** WOMEN'S BLOOMERS. Registered July 3, 1923. THE L. N. GROSE COMPANY, Cleveland, Ohio, a corporation of Ohio. Renewed July 3, 1943.

169,807. **WADGE.** COAL. Registered July 3, 1923. THE VICTOR-AMERICAN FUEL COMPANY, Portland, Maine and Denver, Colo. Renewed July 3, 1943, to The Victor-American Fuel Company, Denver, Colo., a corporation of Maine.

169,808. **SUNSHINE-MAITLAND.** COAL. Registered July 3, 1923. THE VICTOR-AMERICAN FUEL COMPANY, Portland, Maine and Denver, Colo. Renewed July 3, 1943, to The Victor-American Fuel Company, Denver, Colo., a corporation of Maine.

169,849. **TAXICORD.** PNEUMATIC-TIRE CASINGS MADE OF RUBBER COMBINED WITH FABRIC. Registered July 3, 1923. THE B. F. GOODRICH COMPANY, New York, N. Y., a corporation of New York. Renewed July 3, 1943.

169,863. **AME'S.** DENTAL CEMENTS, SUCH AS CROWN AND BRIDGE CEMENT, INLAY CEMENT, OXYPHOSPHATE OF COPPER, BERYLITE, OXYCHLORIDE OF ZINC, COPPER AMALGAM, PIGMENTS AND TEMPORARY CEMENT. Registered July 3, 1923. THE W. V-B. AMES COMPANY. Renewed July 3, 1943, to The W. V-B. Ames Company, Fremont, Ohio, a corporation of Ohio, assignee.

169,910. **BATHASWEET.** PERFUMED ADDITION FOR THE BATH. Registered July 3, 1923. THE C. S. WELCH COMPANY, New York, N. Y., a corporation of New York. Renewed July 3, 1943.

170,491. **"IRIS" AND DRAWING.** TAPIOCA. Registered July 17, 1923. HAAS BARUCH & CO., Los Angeles, Calif., a corporation of California. Renewed July 17, 1943.

170,565. **REPRESENTATION OF AN EAGLE AND DIAMOND. MATCHES.** Registered July 17, 1923. THE DIAMOND MATCH COMPANY, Chicago, Ill. Renewed July 17, 1943, to The Diamond Match Company, New York, N. Y., a corporation of Delaware, assignee by mesne assignments.

170,566. **"DIAMOND" AND DRAWING.** MATCHES. Registered July 17, 1923. THE DIAMOND MATCH COMPANY, Chicago, Ill. Renewed July 17, 1943, to The Diamond Match Company, New York, N. Y., a corporation of Delaware, assignee by mesne assignments.

170,585. **"NATURAL TIP" AND DRAWING.** SHOE AND CORSET LACES. Registered July 17, 1923. HUTMACHER BRAIDING CO., Paterson, N. J., a corporation of New Jersey. Renewed July 17, 1943.

170,617. **RED TOP.** MATCHES. Registered July 17, 1923. THE DIAMOND MATCH COMPANY, Chicago, Ill. Renewed July 17, 1943, to The Diamond Match Company, New York, N. Y., a corporation of Delaware, assignee by mesne assignments.

170,618. **"COPPERHEAD" AND DRAWING.** MATCHES. Registered July 17, 1923. THE DIAMOND MATCH COMPANY, Chicago, Ill. Renewed July 17, 1943, to The Diamond Match Company, New York, N. Y., a corporation of Delaware, assignee by mesne assignments.

170,619. **"BIRD'S EYE" AND DRAWING.** MATCHES. Registered July 17, 1923. THE DIAMOND MATCH COMPANY, Chicago, Ill. Renewed July 17, 1943, to The Diamond Match Company, New York, N. Y., a corporation of Delaware, assignee by mesne assignments.

170,620. **BIRD'S EYE.** MATCHES. Registered July 17, 1923. THE DIAMOND MATCH COMPANY, Chicago, Ill. Renewed July 17, 1943, to The Diamond Match Company, New York, N. Y., a corporation of Delaware, assignee by mesne assignments.

170,847. **CLOVER FARM.** CERTAIN-NAMED FOODS AND INGREDIENTS OF FOODS. Registered July 24, 1923. THE HIGGINS-BABCOCK-HURD COMPANY. Renewed July 24, 1943, to Clover Farm Stores Corporation, Cleveland, Ohio, a corporation of Delaware, assignee.

171,202. **ROGER WILLIAMS.** MEN'S AND BOYS' SUITS AND OVERCOATS. Registered July 31, 1923. THE FAIR, Chicago, Ill., a corporation of Illinois. Renewed July 31, 1943.

171,221. **PRANG.** CRAYONS AND PENCILS. Registered July 31, 1923. THE AMERICAN CRAYON COMPANY, Sandusky, Ohio, a corporation of Ohio. Renewed July 31, 1943.

171,360. **WHEATLETS.** MACARONI. Registered August 7, 1923. PETER ROSSI & SONS INC., Braidwood, Ill., a corporation of Illinois. Renewed August 7, 1943.

171,971. **ÉLETIN.** MEDICINAL PREPARATION FOR THE TREATMENT OF DIABETES AND TO LOWER BLOOD SUGAR AND TO DIMINISH ACIDOSIS. Registered August 21, 1923. THE ELI LILLY & COMPANY. Renewed August 21, 1943, to Eli Lilly and Company, Indianapolis, Ind., a corporation of Indiana, by change of name.

172,595. **MODESTO.** BUTTER. Registered September 11, 1923. MILK PRODUCERS ASSOCIATION OF CENTRAL CALIFORNIA, Modesto, Calif., a corporation of California. Renewed September 11, 1943.

172,613. **ROSEMARY.** WHEAT FLOUR. Registered September 11, 1923. GEORGE A. ZABRISKIE, New York, N. Y. Renewed September 11, 1943, to Pillsbury Flour Mills Company, Minneapolis, Minn., a corporation of Delaware, assignee by mesne assignments.

173,182. **ROCKFAST.** DRY, READY-MIXED, AND PASTE PAINTS. Registered September 18, 1923. THE WALL PAPER MANUFACTURERS LIMITED, London, England. Renewed September 18, 1943, to The Walpamur Company, Limited, Darwen, England, a United Kingdom Corporation, assignee.

173,215. **METEOR.** STEEL RODS SUITABLE FOR THE MAKING OF TAPS AND SMALL TOOLS. Registered September 18, 1923. GLOBE WIRE CO., Sharpsburg, Pa. Renewed September 18, 1943, to Firth-Sterling Steel Company, McKeesport, Pa., a corporation of Pennsylvania, assignee.

173,815. **"$1000.^{88} GUARANTEED GOLDEN GLOSS" AND DRAWING.** METAL POLISH. Registered October 2, 1923. B. HELLER & COMPANY, Chicago, Ill., a corporation of Illinois. Renewed October 2, 1943.

174,008. **CARAMEL-INE.** COMBINED COLORING AND FLAVORING FOR USE IN FOOD PRODUCTS AND CONFECTIONERY AND ICE CREAM. Registered October 3, 1923. B. HELLER & COMPANY, Chicago, Ill., a corporation of Illinois. Renewed October 2, 1943.

174,010. **"$1000.^{88} GUARANTEED MOTH KILLER" AND DRAWING.** INSECTICIDE FOR KILLING MOTHS AND CARPET BEETLES. Registered October 2, 1923. B. HELLER & COMPANY, Chicago, Ill., a corporation of Illinois. Renewed October 2, 1943.

174,016. **"UNITED KIMONO CO." AND DRAWING.** KIMONOS, BATH ROBES, PETTICOATS APRONS, AND FLANNEL GOWNS. Registered October 2, 1923. JOSEPH BROS., doing business as United Kimono Co., New York, N. Y. Renewed October 2, 1943.

174,123. **CHERRI-O.** NONALCOHOLIC MALTLESS COMPOUND FOR MAKING BEVERAGES TO BE SOLD AS SOFT DRINKS AND THE BEVERAGES MADE THEREFROM. Registered October 2, 1923. THE ZIPP MANUFACTURING COMPANY, Cleveland, Ohio, a corporation of Ohio. Renewed October 2, 1943.

174,715. **"VACUUM BRAND" AND DRAWING.** GARLIC FLAVORING COMPOUND. Registered October 23, 1923. B. HELLER & COMPANY, Chicago, Ill., a corporation of Illinois. Renewed October 23, 1943.

174,790. **PLASTIC-ARC.** ELECTRIC WELDING MACHINES, CABLES, RESISTANCE UNITS, MOTORS, GENERATORS, SWITCHBOARDS, SWITCHBOARD PANELS, SWITCHES, WELDING TRANSFORMERS, AND ELECTRODES. Registered October 23, 1923. WILSON WELDER & METALS COMPANY, INC., New York, N. Y., a corporation of New York. Renewed October 23, 1943.

174,937. **GRANDE MAISON DE BLANC.** HANDKERCHIEFS, LACE TRIMMINGS, RIBBONS, EDGINGS, NETS, DOILIES, NAPKINS, TABLECLOTHS, PILLOWCASES, SHEETS, BEDSPREADS, BUREAU COVERS, PIANO COVERS, TOWELS, PILLOW TOPS, CENTERPIECES, AND TABLE SCARFS. Registered October 30, 1923. GRANDE MAISON DE BLANC, INC. Renewed October 30, 1943, to The New York Grande Maison de Blanc Corporation, New York, N. Y., a corporation of New York, assignee.

175,371. **NUTTOLENE.** NUT BUTTER. Registered November 6, 1923. THE BATTLE CREEK FOOD COMPANY, Battle Creek, Mich., a corporation of Michigan. Renewed November 6, 1943.

175,420. **"B" CONDIMENTINE.** CHEMICAL PREPARATION FOR USE IN PRESERVING SMOKED SAUSAGE. Registered November 6, 1923. B. HELLER & COMPANY, Chicago, Ill., a corporation of Illinois. Renewed November 6, 1943.

175,421. **"A" CONDIMENTINE.** CHEMICAL PREPARATION FOR USE IN PRESERVING FRESH SAUSAGE. Registered November 6, 1923. B. HELLER & COMPANY, Chicago, Ill., a corporation of Illinois. Renewed November 6, 1943.

175,508 **STERO-OIL.** LUBRICATING AND STERILIZING MEDIUM FOR DENTAL INSTRUMENTS, PRIMARILY FOR LUBRICATING, CLEANING, AND PROLONGING THE LIFE OF THE INSTRUMENTS. Registered November 6, 1923. HARRY P. EMEIS, doing business as Stero-Oil Company. Renewed November 6, 1943, to Sterile Products Co. Inc., San Diego, Calif., a corporation of California, successor.

175,522. **GRANDE MAISON DE BLANC.** CERTAIN NAMED ARTICLES OF CLOTHING FOR MEN, WOMEN, AND CHILDREN. Registered November 6, 1923. GRANDE MAISON DE BLANC, INC. Renewed November 6, 1943, to The New York Grande Maison de Blanc Corporation, New York, N. Y., a corporation of New York, assignee.

175,545. **"NON-FADO" AND DRAWING.** MEN'S AND BOYS' OUTER CLOTHING—NAMELY, SUITS. Registered November 6, 1923. STRAWBRIDGE & CLOTHIER, Philadelphia, Pa., a corporation of Pennsylvania. Renewed November 6, 1943.

175,767. **MARIECO.** KNITTED AND TEXTILE UNDERWEAR IN ONE AND TWO PIECE GARMENTS. Registered November 13, 1923. MANNY-RIELLY CO. Renewed November 13, 1943, to Manny-Rielly Company, Inc., New York, N. Y., a corporation of New York, successor.

175,885. **REPRESENTATION OF A KEYSTONE.** CORRUGATED FIBER AND PAPER BOXES, ENVELOPES, WRAPPERS, PACKING CASES, AND CORRUGATED PAPER BOARD. Registered November 13, 1923. DAVID WEBER & CO., Philadelphia, Pa., a corporation of Pennsylvania. Renewed November 13, 1943.

175,886. **"MAGNUS" AND DRAWING.** SOAPS FOR DETERGENT PURPOSES AND SOAP MIXTURES FOR CLEANING FINISHED SURFACES. Registered November 13, 1923. MAGNUS CHEMICAL COMPANY (INC.), Brooklyn, N. Y. Renewed November 13, 1943, to Magnus Chemical Company, Inc., Garwood, N. J., a corporation of New York.

176,193. **KING.** SOAP. Registered November 20, 1923. THE ANDREW JERGENS COMPANY Cincinnati, Ohio, a corporation of Ohio. Renewed November 20, 1943.

176,228. **"B-C" AND DRAWING.** ANTITOXIC FOODS, PARAFFIN TABLETS, PARAFFIN OIL HYDROCHLORIC ACID WITH PROTEIN, AND LAXATIVES, ALL USED FOR MEDICINAL PURPOSES. Registered November 20, 1923. THE BATTLE CREEK FOOD COMPANY, Battle Creek, Mich., a corporation of Michigan. Renewed November 20, 1943.

176,259. **THEME.** HOSIERY. Registered November 20, 1923. THIEME BROTHERS COMPANY, Fort Wayne, Ind., assignor to Theme Hosiery Company. Renewed November 20, 1943, to Theme Hosiery Company, Los Angeles, Calif., a corporation of Indiana, assignee.

176,420. **PANDO.** VEGETABLE SHORTENING. Registered November 27, 1923. THE BEST FOODS, INC. Renewed November 27, 1943, to The Best Foods, Inc., New York, N. Y., a corporation of New Jersey, assignee by mesne assignments.

176,445. **PAKSAFE.** CORRUGATED SOLID FIBER AND PAPER BOXES, ENVELOPES, WRAPPERS, CASES, AND CORRUGATED PAPER BOARD. Registered November 27, 1923. DAVID WEBER & CO., Philadelphia, Pa., a corporation of Pennsylvania. Renewed November 27, 1943.

176,447. **REPRESENTATION OF A TRIANGLE AND SCROLL DESIGN.** CANNED FISH. Registered November 27, 1923. TAYLOR & SLEDD, INC., Richmond, Va., a corporation of Virginia. Renewed November 27, 1943.

176,450. **"URBAN'S" AND DRAWING.** POULTRY FEEDS. Registered November 27, 1923. GEORGE URBAN MILLING COMPANY, Buffalo, N. Y., a corporation of New York. Renewed November 27, 1943.

176,452. **TIDEWATER.** CANNED FISH, VEGETABLES AND FRUITS, JAMS AND JELLIES, APPLE BUTTER, PEANUT BUTTER, AILMENTARY PASTE PRODUCTS, AND CONDIMENTS. Registered November 27, 1923. TAYLOR & SLEDD INC., Richmond, Va., a corporation of Virginia. Renewed November 27, 1943.

176,453. **VITAMET.** VEGETABLE FOOD CONSISTING OF WHEAT PROTEIN COMBINED WITH NUTS. Registered November 27, 1923. THE BATTLE CREEK FOOD COMPANY, Battle Creek, Mich., a corporation of Michigan. Renewed November 27, 1943.

176,460. **CUSHION WEAVE.** HOSIERY. Registered November 27, 1923. RICHMOND HOSIERY MILLS, Rossville, Ga., a corporation of Georgia. Renewed November 27, 1943.

176,461. **VITA-BITS.** CEREAL BREAKFAST FOOD. Registered November 27, 1923. THE BATTLE CREEK FOOD COMPANY, Battle Creek, Mich., a corporation of Michigan. Renewed November 27, 1943.

176,494. **WOOL-O-CREPE.** NECK-TIES, CRAVATS, AND SCARFS. Registered November 27, 1923. FRANK & MEYER NECKWEAR CO., St. Louis, Mo., a corporation of Missouri. Renewed November 27, 1943.

176,522. **LA PALUMA.** FRESH APPLES. Registered November 27, 1923. J. C. PALUMBO, Payette, Idaho. Renewed November 27, 1943.

176,578. **"ARMADA" AND DRAWING.** WHEAT FLOUR. Registered November 27, 1923. INTERNATIONAL MILLING COMPANY. Renewed November 27, 1943, to International Milling Company, Minneapolis, Minn., a corporation of Delaware, assignee.

176,593. **"EVERDUE" AND DRAWING.** METALLIC ALLOYS. Registered November 27, 1923. DU PONT ENGINEERING COMPANY, Wilmington, Del. Renewed November 27, 1943, to The American Brass Company, Waterbury, Conn., a corporation of Connecticut, assignee by mesne assignments.

176,608. **NUJOY.** CANDY. Registered November 27, 1923. STANDARD CANDY COMPANY, Nashville, Tenn., a corporation of Tennessee. Renewed November 27, 1943.

176,682. **"GOODMAN'S" AND DRAWING.** ALIMENTARY PASTE PRODUCTS. Registered November 27, 1923. A. GOODMAN & SONS, INC., New York, N. Y., a corporation of New York. Renewed November 27, 1943.

176,693. **CLEVELAND SHOPPING NEWS.** NEWSPAPER. Registered November 27, 1923. THE CLEVELAND SHOPPING NEWS COMPANY, Cleveland, Ohio, a corporation of Ohio. Renewed November 27, 1943.

176,706. **CHAS. H. PHILLIPS.** COCOA AND CHOCOLATE. Registered November 27, 1923. THE CHARLES H. PHILLIPS CHEMICAL CO., Glenbrook, Conn., and New York, N. Y. Renewed November 27, 1943, to Sterling Drug Inc., Wilmington, Del., a corporation of Delaware, assignee.

176,719. **"PEGGY RIZE" AND DRAWING.** SELF-RISING FLOUR. Registered November 27, 1923. SPRAGUE ROLLER MILLS, Sprague, Wash. Renewed November 27, 1943, to Centennial Flouring Mills Co., Seattle, Wash., a corporation of Washington, assignee.

176,732. **RED BALL.** CITROUS FRUITS, SUCH AS ORANGES, LEMONS, AND GRAPEFRUIT, IN THEIR NATURAL STATE. Registered November 27, 1923. CALIFORNIA FRUIT GROWERS EXCHANGE, Los Angeles, Calif., a corporation of California. Renewed November 27, 1943.

176,741. **URBAN'S.** WHEAT FLOUR AND RYE FLOUR. Registered November 27, 1923. GEORGE URBAN MILLING COMPANY, Buffalo, N. Y., a corporation of New York. Renewed November 27, 1943.

176,751. **GRANOSE.** CEREAL BISCUIT. Registered November 27, 1923. THE BATTLE CREEK FOOD COMPANY, Battle Creek, Mich., a corporation of Michigan. Renewed November 27, 1943.

176,752. **GALLEGO.** FEED—NAMELY, BRAN. Registered November 27, 1923. WARNER, MOORE & CO., doing business as Dunlop Mills. Renewed November 27, 1943, to C. B. Stout, doing business as Dixie-Portland Flour Mills, Richmond, Va., assignee.

REISSUES

JULY 27, 1943

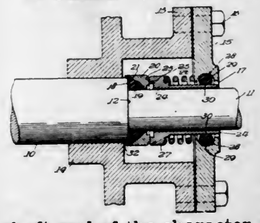
22,353

SHAFT SEAL

Arvid E. Karlberg, Chicago, Ill., assignor to Chicago Seal Company, Chicago, Ill., a corporation of Illinois

Original No. 2,299,395, dated October 20, 1942, Serial No. 415,592, filed October 18, 1941. Application for reissue October 20, 1942, Serial No. 462,721

14 Claims. (Cl. 286—7)



9. In a shaft seal of the character described, a wall provided with an opening therethrough and having a recess in the wall of said opening spaced from the lateral faces of the first said wall and communicating with said opening entirely within the confines of the planes of the outer faces of the first said wall, the size of said recess being unvariable and the depth thereof being greater than the diameter of that portion of the said opening which is adjacent the ends of the recess, a shaft bearing sleeve projecting into said opening and of an external diameter less than the diameter of said opening, and an annular resilient packing member encompassing said sleeve and seated in said recess, the depth of said recess being less than the normal external diameter of the said resilient element, the internal diameter of said resilient element being less than the external diameter of said sleeve.

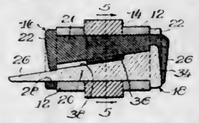
22,354

CONNECTING PIN

James King, Glendale, Calif.

Original No. 2,292,128, dated August 4, 1942, Serial No. 444,725, May 27, 1942. Application for reissue May 13 1943, Serial No. 486,882

6 Claims. (Cl. 85—4)



1. A connecting pin, including a shank portion with a head portion at each end thereof, comprising a pair of complementary members, each member including an elongated shank portion flat on one side and round on the other side, a laterally offset head portion at one end and a shouldered longitudinally extending reduced portion at the opposite end of said last named shank portion, said offset head portion having an aperture therethrough, the shank portions of said members being disposed in lengthwise contact side by side with their contacting surfaces in flatwise engagement with each other, the shouldered portion of each member abutting the offset head portion of the other member, the reduced end portion of each member extending through and beyond the aperture of the other member, one of said reduced end portions being bent over against the adjacent head portion to maintain said pair of members in cooperative engagement with each other.

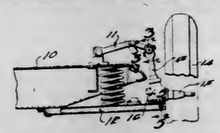
22,355

INDIVIDUAL SPRINGING CONNECTION

John W. Leighton, Port Huron, Mich.

Original No. 2,234,803, dated March 11, 1941, Serial No. 238,457, November 2, 1938. Application for reissue February 12, 1942, Serial No. 430,615

17 Claims. (Cl. 280—96.2)



1. In an individual wheel springing, a link, an upright wheel supporting member, a threaded element rigidly fixed to the outer end of the link and having its axis extending longitudinally of the vehicle, a second threaded element having threaded pivotal bearing engagement with the first element, said wheel supporting member having an enlarged longitudinally extending opening receiving the second element, and means in said opening for adjustably clamping the wheel supporting member to the second element but being adjustable to allow adjustable tilting of the wheel supporting member in a direction longitudinally of the vehicle.

22,356

ALLOY

James M. Lohr, Morristown, N. J., assignor to Driver-Harris Company, Harrison, N. J., a corporation of New Jersey

No Drawing. Original No. 2,005,431, dated June 18, 1935, Serial No. 748,084, October 12, 1934. Application for reissue April 24, 1943, Serial No. 484,441

4 Claims. (Cl. 75—170)

3. An electric resistance element comprising 15 to 25 percent chromium, .01 to .20 percent calcium, .01 to .50 percent zirconium, .01 to 1 percent aluminum, balance nickel.

22,357

ALLOY

James M. Lohr, Morristown, N. J., assignor to Driver-Harris Company, Harrison, N. J., a corporation of New Jersey

No Drawing. Original No. 2,005,433, dated June 18, 1935, Serial No. 360, January 4, 1935. Application for reissue April 24, 1943, Serial No. 484,442

6 Claims. (Cl. 75—171)

4. An electric resistance element comprising 10 to 15 percent chromium, 25 to 30 percent iron, .01 to .20 percent calcium, .01 to .50 percent zirconium, .01 to 1.0 percent aluminum, balance nickel.

PATENTS

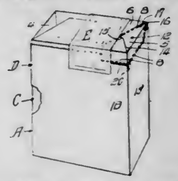
GRANTED JULY 27, 1943

2,325,022

CIGARETTE PACKAGE

Gustave W. Aegerter, St. Louis, Mo.

Application April 12, 1940, Serial No. 329,373
1 Claim. (Cl. 229—51)



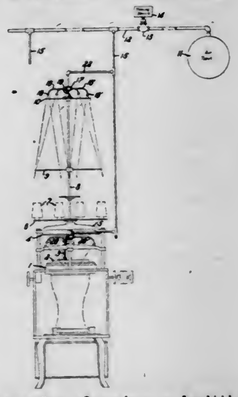
A wrapper for cigarette packages holding twenty cigarettes and comprising a rectangular wrapper sheet of material folded at its upper end along diagonal fold lines to provide four interfolded portions, said sheet being provided with a circuitous score tear line having portions thereof coinciding in part with two of said fold lines and a cutout portion interrupting the scored tear line near one end thereof in one of said portions so as to provide a notch at a fold edge of one of the interfolded portions to facilitate tearing away the section of the wrapper within the confines of the scored tear line.

2,325,023

APPARATUS FOR CLEANING MACHINERY

George W. Allred, Mayodan, N. C., assignor to The Bahnson Company, Winston-Salem, N. C., a corporation of North Carolina

Application February 19, 1941, Serial No. 379,679
4 Claims. (Cl. 15—20)



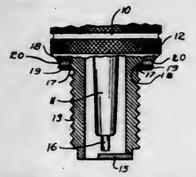
1. Apparatus for cleaning a knitting machine of the stationary guide and rotating cylinder type having a yarn guide ring and stop motion carried by a vertically extending support, said apparatus comprising a nozzle system having a hub, means adapted to support the hub for rotation about a vertical axis on the upper end of the vertically extending support of the knitting machine, and at least one pipe extending horizontally and eccentrically from the hub and terminating in a downwardly directed nozzle, and means for conveying air under pressure to said hub, said nozzle system being rotatable by the reaction of air passing therethrough.

2,325,024

SPARK PLUG COOLING MEANS

Paul G. Andres, Oak Park, Ill., assignor to Bowes Seal Fast Corporation, Indianapolis, Ind., a corporation of Indiana

Application April 24, 1941, Serial No. 390,061
10 Claims. (Cl. 123—169)



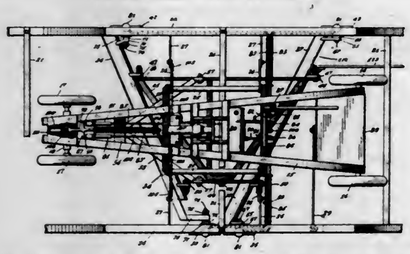
1. For an engine having a water jacketed wall through which extends a spark plug receiving bore, a spark plug having a metallic shell; a central insulator carried thereby; a central electrode carried by the insulator; a lower shell end portion threaded exteriorly and having an internal bore receiving said central electrode therein, said end portion extending below the lower end of said electrode; a straight shell electrode bar having one end inserted within a slot in and integrally united with said portion to extend in a straight transverse direction into the bore of said portion to leave a spark gap between it and said central electrode; and means forming a rapid heat dissipation zone around the upper end of said lower shell portion; whereby heat may be dissipated with minimum travel through said shell electrode to said wall and limited in upward travel in said shell by said zone.

2,325,025

ROAD MAINTAINER

Morris F. Allen, Canton, Ohio

Application September 11, 1940, Serial No. 356,295
16 Claims. (Cl. 37—150)



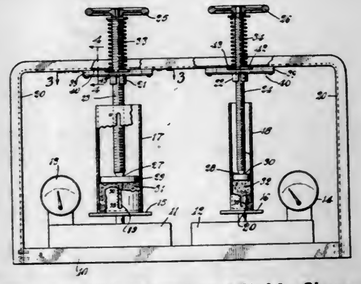
1. In a road maintainer, a wheel-supported main frame, a pair of ground-engaging skid frames disposed longitudinally at the sides of said main frame, a pair of scraper blades extending in oppositely oblique directions between said skid frames and supported for vertical adjustment thereon, means for independently adjusting each end of each of said blades, a subframe disposed beneath said main frame, said blades near their more widely spaced ends being pivotally connected to said sub-frame on axes extending transversely of the maintainer, a space-bar pivotally connected at a point intermediate its length to said sub-frame on an axis transverse to the maintainer, sad blades near their less widely spaced ends being pivotally connected respectively to opposite ends of said space bar, and means for conveying draft effort from said main frame to said skid frames and blades.

2,325,026

METHOD FOR TESTING FELTABLE FIBERS

Herman W. Anway, Cloquet, Minn., assignor to Wood Conversion Company, Cloquet, Minn., a corporation of Delaware

Application January 15, 1940, Serial No. 313,920
9 Claims. (Cl. 73—51)



2. The method of testing feltable fibers to determine the frictional characteristic of a sliding mass of said fibers which comprises forming two axial cylinders of test specimens of loose heterogeneous masses of said fibers, said columns having known radii of R and r and column defining walls of substantially the same frictional characteristics, the weights of the fibers in the two columns being proportional to the cross-sectional areas, compressing each column axially at the same regular rate of compression, determining the force exerted by the end of each column when at the same density, and determining the coefficient of friction between the fibers and the wall-defining material by application of formulas involving the observed forces and the known radii R and r.

5. The method of testing feltable fibers to determine elastic properties thereof which comprises forming an axial column of a test specimen of a loose heterogeneous mass of said fibers, said column having a known cross-sectional area and a known weight of fibers, compressing the column axially at a regular rate of compression, measuring the force exerted by the end of the column at a plurality of densities including a final density at which the fibers are felted and further feltable, releasing the compressing force immediately upon attaining said final density so as to permit any elasticity in the fiber mass freely to expand the column, and measuring the density of the expanded column, whereby the known and observed values permit calculation of values indicative of the elastic properties of the fiber.

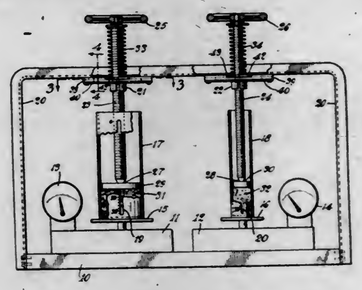
2,325,027

TESTING APPARATUS FOR COMPRESSING RESILIENT MASSES

Herman W. Anway, Cloquet, Minn., assignor to Wood Conversion Company, Cloquet, Minn., a corporation of Delaware

Original application January 15, 1940, Serial No. 313,920. Divided and this application October 8, 1941, Serial No. 414,078
7 Claims. (Cl. 265—12)

1. Apparatus for testing feltable fibers comprising an axial container in which to house for compression axially a columnar mass of fibers, a presser relatively movable axially into said container and adapted to press only upon the end of a column of fiber, said presser being normally biased to move relatively away from said container axially thereof, means for so relatively moving said presser and said container at a constant predetermined rate in compressing the fiber column in the container, indicating means adapted to register the force exerted by said column



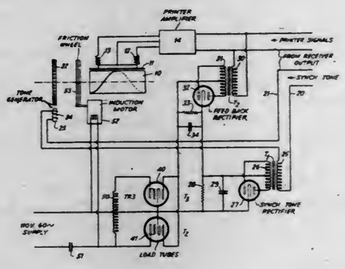
while being compressed, means adapted to be released to free the presser from the compressing force whereby the normal bias of the presser effects immediate separation of the presser and the compressed column of fibers to halt the compression thereof and whereby the compressed column may freely expand, and means to indicate the height of the compressed and the expanded column in the container.

2,325,028

MOTOR SYNCHRONIZING DEVICE

Maurice Artzt, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application November 28, 1941, Serial No. 420,799
9 Claims. (Cl. 172—239)

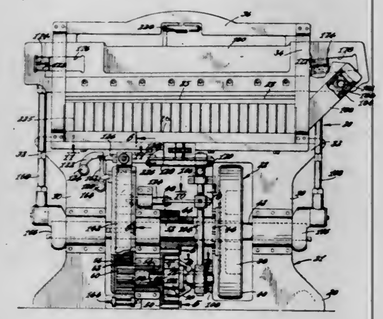


7. In a synchronizing system for synchronizing the operation of a first electric motor driving a load with that of a second electric motor, and wherein signals are available representative of the speed and phase of operation of said second motor, means for generating a signal proportional to the speed and phase of said first electric motor, means for comparing the sets of signals representative of the speed and phase of each of the motors, means for controlling the voltage impressed onto said first electric motor in accordance with the comparison of the two sets of developed signals, and independent means for further controlling said voltage in accordance with the variation of said load.

2,325,029
CALCIUM GLUCONATE SOLUTION
William B. Baker, Peoria, Ill., assignor to Sutliff & Case Co., Inc., Peoria, Ill., a corporation of Illinois
No Drawing. Application April 21, 1941, Serial No. 389,687
3 Claims. (Cl. 167—68)

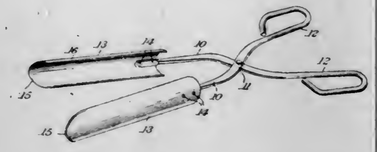
3. A stable aqueous solution of calcium gluconate in concentration greater than 3% containing a strontium salt of the group consisting of strontium chloride and strontium lactate.

2,325,030
PAPER CUTTER
Oscar Bellar, Brooklyn, N. Y.
Application September 26, 1941, Serial No. 412,395
34 Claims. (Cl. 164—54)



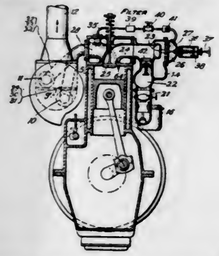
1. In combination in a power-driven paper cutter having a paper bed, a supporting frame, a reciprocable knife blade slidingly supported on said frame, a reciprocable paper clamp slidingly supported on said frame, a driving member for said knife blade journalled on said frame above said bed, means to actuate said driving member, a driving member for said paper clamp journalled on said frame above said bed, an impositive driving train directly interconnecting said driving members, a drive shaft, and means to actuate one of said driving members from said drive shaft.

2,325,031
CORING KNIFE
Morris A. Berns, Chicago, Ill.
Application February 9, 1942, Serial No. 430,135
2 Claims. (Cl. 30—174)



1. A coring knife comprising crossed levers pivotally connected together at their crossing end terminating at one end in finger loops, and blades of semicylindrical cross section on the free ends of the levers adapted to interfit along their longitudinal edge portions when closed to form a cylinder open at both ends, the leading ends of the blades being sharpened and rounded to facilitate entry of the blades into a bread roll for coring the roll to receive a filling.

2,325,032
CONTROL DEVICE FOR SCAVENGED, IGNITION-TYPE ENGINES
Alfred Büchi, Winterthur, Switzerland
Application November 25, 1939, Serial No. 306,192
In Switzerland September 1, 1939
12 Claims. (Cl. 60—13)



1. In admission control apparatus for internal combustion engines of the ignition type operating by means of precompressed charges of fuel-air mixture and scavenging with air, an internal combustion engine having cylinders, said cylinders having inlet means, induction conduits communicating with said inlet means in advance thereof, exhaust gas conduits leading from said engine cylinders, separate scavenging air admission control members arranged in said induction conduits, exhaust gas conduction means communicating with the exhaust conduits of said cylinders and with said scavenging air admission control members for controlling the timing of operation of the scavenging air inlet members by the momentary differential pressure between the inlet and exhaust conduits of said engine in dependence on the condition of operation of said engine, by action of the variable exhaust gas pressure transmitted through said conduit, and means arranged in the inlet means for the charge for timing the inlet of charge to the cylinders.

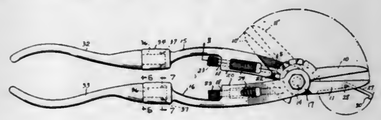
2,325,033
DESULPHURIZING CATALYST
Alva C. Byrns, Los Angeles, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California
No Drawing. Application October 30, 1939, Serial No. 302,018
23 Claims. (Cl. 252—210)

1. A catalyst comprising material from the class consisting of cobalt molybdate of the probable formula $CoO.MoO_3$ and cobalt thiomolybdate of the probable formula $CoO.MoO_3$ having S substituted in part for O precipitated upon a previously undried synthetic hydrous metal oxide gel.

2,325,034
METHOD OF DESULPHURIZING PETROLEUM FRACTIONS
Alva C. Byrns, Palos Verdes Estates, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California
No Drawing. Application August 20, 1940, Serial No. 353,378
19 Claims. (Cl. 196—28)

1. A method of desulphurizing sulphur-bearing petroleum fractions which comprises contacting such fractions in vapor form in the presence of hydrogen and at a temperature between about 600° F. and 950° F. with a gel catalyst comprising cobalt molybdate prepared by precipitating a metal hydroxide from a solution of a salt of a metal from the class consisting of aluminum, zirconium, thorium and titanium, filtering and washing the precipitated hydroxide, suspending the metal hydroxide in aqueous solution, supplying thereto solutions of cobalt and molybdenum salts and precipitating upon said hydroxide the cobalt molybdate, and separating and drying the resultant gel carrying the cobalt molybdate.

2,325,035
ADJUSTABLE JAW PLIERS
Paul J. Cargile, United States Navy
Application March 19, 1942, Serial No. 435,262
6 Claims. (Cl. 81—51.4)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. An instrument or tool comprising a pair of jaws mounted for operation on a common pivot, a pair of handles for said jaws mounted on the same pivot and positive locking means for quickly fixing each handle to its respective jaw in selectively adjusted angular relations so that each jaw will be positively locked from turning in either direction relative to its handle.

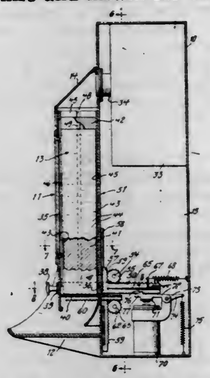
2,325,036
RADIATOR CORE TUBE
Harold W. Case, Dayton, Ohio
Application July 22, 1941, Serial No. 403,557
1 Claim. (Cl. 257—262)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



A radiator core element comprising a Venturi-shaped tube of circular cross section having walls which gradually converge from each end of said tube to the throat thereof, and a mounting sleeve surrounding each end of said tube, said mounting sleeves each being comprised of a plurality of flat, rectangular-shaped portions bent off from the end of said tube and back over the outer surface thereof to form a prismatic mounting sleeve which will not interfere with the smooth flow of air through said tube.

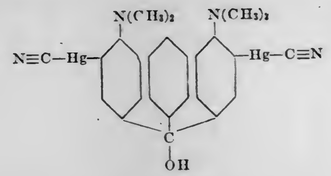
2,325,037
BUTTER VENDING MACHINE
Santiago Castro, Brooklyn, N. Y.
Application January 8, 1941, Serial No. 373,554
12 Claims. (Cl. 194—10)

8. In a machine having a compartment adapted to contain a column of butter or the like and having a normally cool slide knife positioned adjacent said column adapted to be slid forward to shear said column, means for supplying heat to said knife prior to said forward sliding of said knife and means for cutting off said heat supply after completion of said forward sliding.

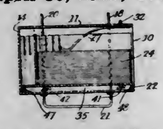


2,325,038
NUCLEAR SUBSTITUTED TRIARYLMETHANE DERIVATIVES AND PROCESS OF MAKING THEM
Lyman Chalkley, Brick Township, Ocean County, N. J.
No Drawing. Application December 13, 1939, Serial No. 309,107
5 Claims. (Cl. 260—387)

4. As a new product, dicyanomercuri-bis-dimethyl-aminotriphenyl carbinol, having the formula:



2,325,039
PORTABLE DESK
Gustave E. Chesler, Pittsburgh, Pa.
Application April 9, 1941, Serial No. 387,619
4 Claims. (Cl. 45—2)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



2. A portable desk comprising the combination of a desk surface member, a support carried by said member in spaced relation thereto and forming therewith the bottom member of a compartment open at its front for use as a container for records, a wall of said compartment being provided with a slot, said desk surface member having a window through which a portion of records within the compartment may be visualized for reference while contained therein, means carried by said desk adapted to hook over an upright wall of a drawer whereby the desk may be removably supported at desired places of use, an upright member carried within said compartment in an adjustable manner whereby the size

of the area of the compartment to be used may be varied in accordance with sizes of records to be carried thereby, and a compressor provided with means extending through a slot in a wall of a compartment for adjustably clamping it to said wall within said compartment for holding records placed therein flat against the inner surface of one of said compartment-forming members.

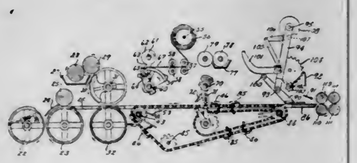
2,325,040
LUBRICATING COMPOSITION
Elmer William Cook, New York, N. Y., and Theodore Franklin Bradley, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application May 20, 1941, Serial No. 394,362
5 Claims. (Cl. 252—46)

1. A lubricating composition having incorporated therein a sulfurized lower alkyl ester of a polymerized unsaturated higher fatty acid having conjugated double bonds.

2,325,041
BERYLLIUM CEMENTATION
Hugh S. Cooper, Forest Hills, Long Island, N. Y., assignor to Cooper-Wilford-Beryllium, Ltd., Philadelphia, Pa., a corporation of Delaware
No Drawing. Application January 29, 1941, Serial No. 376,527
5 Claims. (Cl. 148—13.2)

1. In the method of producing surface alloys of copper beryllium on a copper body, the steps comprising heating said copper body in the presence of a powdered copper beryllium alloy, and then subsequently heating the body in the absence of said powdered alloy to reduce the surface concentration and increase the depth of penetration of the beryllium in said body.

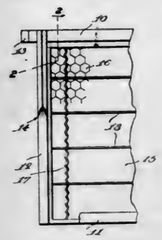
2,325,042
METHOD AND APPARATUS FOR BOTTOMING BAGS
Harry H. Crawford, Wellsburg, W. Va., assignor to St. Regis Paper Company, New York, N. Y., a corporation of New York
Application May 27, 1941, Serial No. 395,440
9 Claims. (Cl. 93—23)



1. The method of closing the end of a bag tube to form a closed end with a sleeve through the bag to be filled, which consists in opening the end of a bag tube to form two oppositely disposed outwardly extending side flaps and two inwardly extending end flaps connecting the ends of the side flaps, applying paste to the edges of the end flaps and one of the side flaps, applying a supplemental sheet to the pasted edge of one end flap so that the sheet extends outward beyond the ends of the side flaps and extends across the base line of the pasted side flap, applying paste to the edge of the supplemental sheet that extends across said base line, folding inward the unpasted side flap, and finally folding inward the pasted side flap and thereby uniting the side flaps and the edges of the supplemental sheet.

2. Bag bottoming apparatus comprising an opening device for opening the end of a bag tube, a conveyor in position to receive the opened bag from the opening device, said conveyor comprising three parallel chains, a clamp on the central chain timed to clamp the leading edge of the opened end, flap folders at the delivery end of the conveyor, means to release the clamp before it reaches the folders, and pushers on the side chains in position to engage the rear end of the bag tube and push it through the folders.

2,325,043
BEE COMB FOUNDATION
Henry C. Dadant and Roy A. Grout, Hamilton, Ill.
Application October 9, 1941, Serial No. 414,338
2 Claims. (Cl. 6—10)



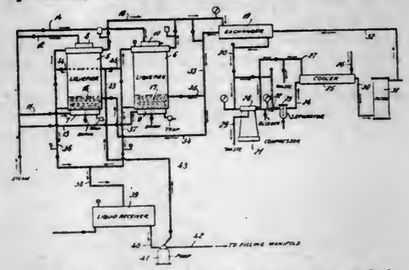
1. In a honey comb foundation supporting means, a frame having at least one bar provided with a rabbet, a wax sheet having a wire embedded therein and supported by the frame, said wire having a lateral bend at one end, and an anchoring bar clamped upon said wire end and around its lateral bend, taking the position of the bend and thus simulating a hook, said anchoring bar being seated within the rabbet and an attaching bar disposed in the rabbet and secured to the frame bar with one edge frictionally pressed against one side of the anchoring bar.

2,325,044
MANGANESE ALLOYS
Reginald S. Dean, Salt Lake City, Utah, assignor to Chicago Development Company, Chicago, Ill., a corporation of Illinois
No Drawing. Application July 12, 1941, Serial No. 402,238
10 Claims. (Cl. 148—12)

2. A process of producing hardened stainless alloys of iron, chromium and manganese, which comprises selecting an alloy within the composition range 16 to 30 per cent manganese, 17.5 to 30 per cent chromium, balance substantially all iron, heating said alloy to approximately 1200 degrees C., quenching, and cold working.

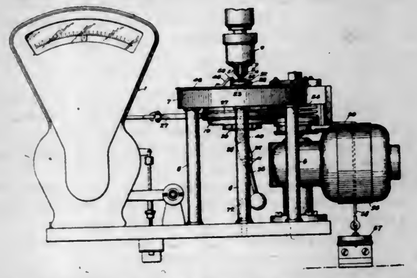
2,325,045
PRODUCTION OF LIQUID CARBON DIOXIDE
Wolcott Dennis, Stamford, Conn., assignor to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York
Application October 29, 1941, Serial No. 417,003
12 Claims. (Cl. 62—91.5)

4. The method of converting solid carbon dioxide to the liquid phase which comprises heating the solid carbon dioxide, withdrawing and compressing vapor therefrom and conducting the



vapor in heat exchange relation with solid carbon dioxide, thereby condensing the vapor.

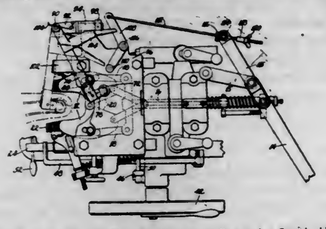
2,325,046
SPINNING AND TORQUE MEASURING MACHINE
Augusto De Rentiis, Prospect Park, Pa.
Application September 13, 1940, Serial No. 356,628
2 Claims. (Cl. 265—10)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A force measuring device comprising a fixed annular table having a flanged, inner periphery, a drum having an annular channel surrounding the flange of said table and journalled within the same, a work-holding member carried by said drum and extending through the central opening in said table, a rotatably mounted table on the side of said table opposite from said drum and journalled in the inner periphery of said table, an arm on said rotatably mounted table positioned for engagement with a portion of the work in the work-holding member, a driving member including a clutch and a driving connection between said driving member and said rotatably mounted table, a load-indicating device and a connection between the load-indicating device and the periphery of said drum.

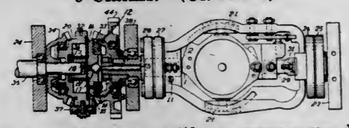
2,325,047
LASTING MACHINE
René E. Duplessis, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application July 24, 1942, Serial No. 452,126
22 Claims. (Cl. 12—14.2)

1. In a lasting machine, the combination with means for supporting a shoe bottom upward with one side thereof toward the operator and the other side facing rearwardly, and means for lasting the marginal portion of an end of the upper inwardly over an insole, of a holddown for engaging the insole at that end of the shoe, said holddown being supported for swinging movements lengthwise and heightwise of the shoe re-



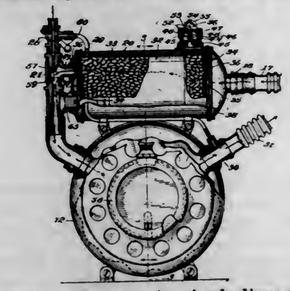
spectively about different axes located at the rear of the shoe.

2,325,048
GYROSCOPE
John S. Forster, Pittsburgh, and Seymour W. Herwald, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 8, 1941, Serial No. 373,680
9 Claims. (Cl. 74—5)



1. In combination with a gyroscope having torque, spin and precession axes all substantially at right angles with respect to one another, means for rotatably supporting the entire gyroscope about its precession axis, drive means including a drive shaft and clutch coaxially disposed with respect to said precession axis for rotating the entire gyroscope, said clutch being normally in engagement and being disengageable in response to excessive speed of rotation by said drive means.

2,325,049
BREATHING APPARATUS
Henry H. Frye and Albert R. Behnke, United States Navy
Application February 27, 1942, Serial No. 432,616
2 Claims. (Cl. 128—191)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A breathing apparatus including an oxygen supply bottle, a breathing bag, a breath purifying device, a mask, a pipe connecting said breathing bag to the mask, a second pipe connecting said mask to said purifying device, a T-pipe connecting said oxygen bottle across said purifying device to said breathing bag, said purifying device being of a nature that generates heat in its

operation, said T-pipe being secured to said purifying device and conducting the generated heat therefrom to warm the oxygen as it passes therethrough to the breathing bag, and a relief valve on said purifying device, said relief valve being warmed by said purifying device and thereby kept from freezing when used in an atmosphere of low temperature.

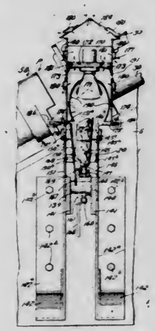
2,325,050

CAP FEED AND HEATING APPARATUS

Carl W. Goodwin, Plainfield, N. J., and Harold W. Martin, Malverne, N. Y., assignors to American Seal-Kap Corporation of Delaware, Wilmington, Del., a corporation of Delaware

Original application June 23, 1941, Serial No. 399,280. Divided and this application August 26, 1941, Serial No. 408,306

10 Claims. (Cl. 219—34)



1. In a machine for applying to containers and sealing thereon partially preformed hood caps having foldable pleated skirts carrying a thermoplastic adhesive coating for securing the folds together, mechanism delivering said caps to container heads with the thermoplastic adhesive rendered tacky for sealing, said mechanism comprising a feed chute having a surface along which said caps are adapted to roll, feed means causing said caps to roll along said chute, said feed means comprising a travelling pusher means engaging said cap and advancing at a predetermined speed along said chute, an elongated radiant heat source extending along said chute, and means concentrating radiant heat from said source onto the coating on the upper edge of the skirt as the cap rolls along said chute, to thereby render the thermoplastic adhesive tacky for sealing without substantially heating the body of the cap or skirt.

2,325,051

DENTAL IMPRESSION COMPOUND

Charles Victor Gross, Penfield, Pa., assignor to The S. S. White Dental Manufacturing Company, a corporation of Pennsylvania

No Drawing. Application May 31, 1940, Serial No. 338,229

5 Claims. (Cl. 18—47)

1. A dry composition adapted upon mixing with water to form an impression paste capable of setting to an elastic solid, comprising carob seed gum in the form of a fine powder, a sparingly soluble borate in the form of a fine powder, and a powdered inert filler, said dry ingredients being intimately mixed together.

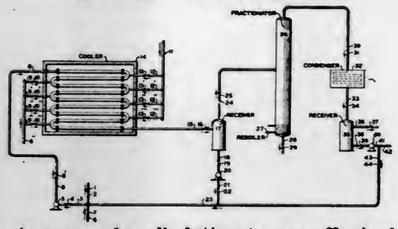
2,325,052

ALKYLATION OF PARAFFIN HYDROCARBONS

Aristid V. Grosse, Bronxville, N. Y., and Carl B. Linn, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

Application September 9, 1940, Serial No. 355,936

10 Claims. (Cl. 260—683.4)



1. A process for alkylating iso-paraffin hydrocarbons with olefin hydrocarbons in the presence of hydrogen fluoride as a catalyst which comprises continuously passing a mixture of said iso-paraffin hydrocarbons and hydrogen fluoride through a reaction zone of relatively small cross section in proportion to its length while introducing successive portions of said olefin hydrocarbons along the line of flow in said reaction zone and simultaneously introducing hydrogen fluoride along the line of flow.

2,325,053

VITAMIN B_6 AND RELATED COMPOUNDS

Stanton A. Harris, Westfield, N. J., assignor to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey

No Drawing. Original application December 27, 1938, Serial No. 247,948. Divided and this application July 3, 1941, Serial No. 400,987

3 Claims. (Cl. 260—295)

1. A member selected from the group consisting of the lactone of 3-carboxy-4-hydroxymethyl-6-methylpyridone-2, and the lactone of 3-carboxy-4-hydroxymethyl-5- nitro -6 - methylpyridone-2.

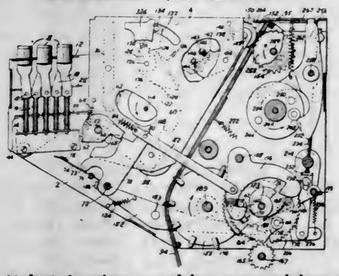
2,325,054

TICKET ISSUING MACHINE

Reuben H. Helsel, Long Island City, N. Y., assignor to General Register Corporation, New York, N. Y., a corporation of Pennsylvania

Application January 7, 1941, Serial No. 373,437

13 Claims. (Cl. 164—49)



1. A ticket issuing machine comprising means for guiding a ticket strip having openings therein, means for clamping the ticket strip and movable to advance it along said guiding means, means for effecting engagement and release of the ticket strip by said clamping means, means comprising a fixed knife and a movable knife for severing the ticket strip, and means for aligning the ticket strip with respect to said severing means, the aligning means comprising an element continuously engaging the openings in the ticket strip, means forcibly holding said engaging element in predetermined positions relative to the direction of movement of the ticket strip, and means releasing said element from restraint by the last mentioned means when the clamping means advances the ticket strip.

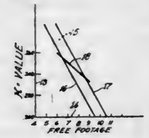
2,325,055

THERMAL INSULATION

Clark C. Heritage, Cloquet, Minn., assignor to Wood Conversion Company, Cloquet, Minn., a corporation of Delaware

Application May 22, 1940, Serial No. 336,495

8 Claims. (Cl. 154—44)



1. Thermal insulation material comprising an aggregate mass of fibers the composition of which is essentially lignocellulose, said fibers being characterized by a coarseness modulus within the range from 60 to 250, and further characterized when dry and in substantially unfelted mass formation by a free-footage not less than 6 board-feet per pound; by a specific felting resistance within the range of 20 to 80 pounds per sq. ft. at a density corresponding to 3.15 board-feet per pound; and by a specific elasticity of not less than 50 pounds per sq. ft. at a density corresponding to 3.15 board-feet per pound.

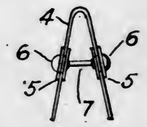
2,325,056

MEANS FOR FORMING PLAITS

Alexander McDonald Hess, Jamaica, N. Y.

Application July 26, 1939, Serial No. 286,573

1 Claim. (Cl. 160—348)



A plaited tape structure comprising in combination a snap fastening member having a male snap fastening constituting the extremity at each end of said member and a bar connecting said male fastenings whereby said male fastenings are engaged with female fastenings by a thrust substantially longitudinally of said bar, a tape having female snap fastenings only, said male fastenings being engaged in two of said female snap fastenings in said tape, the length of tape between the engaged female fastenings being greater than the length of said bar whereby said last mentioned female snap fastenings are drawn together to form a plait, said fastening member wholly lying between the edges of said tape whereby it is substantially concealed, and said fastening member being unsecured between the female fastenings with which it engages at its ends whereby the said snap fastening member may be readily changed from one plaiting location to another.

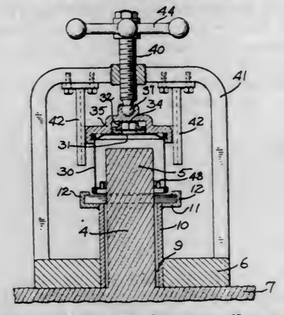
2,325,057

MEANS FOR OBTAINING SOIL SAMPLES

Herbert Hoover, Jr., Sierra Madre, and Herbert E. Metcalf, San Francisco, Calif., assignors to Consolidated Engineering Corporation, Pasadena, Calif., a corporation of California

Application May 28, 1940, Serial No. 337,646

7 Claims. (Cl. 255—1.4)



1. Apparatus for collecting a soil sample without substantially disturbing the contents thereof, which comprises a body member having an aperture for admitting a substantially rigid preformed soil column, a container holder secured to said body, alined with the axis of said aperture, and adapted to position a container around a free end of said soil column, guides supported by said body member transverse to said axis, cutting means transversely movable in said guides and adapted to sever a portion of said soil from the end of said soil column, said portion being of such size as to readily fit into said container.

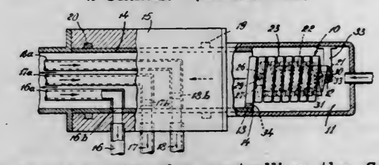
2,325,058

TEMPERATURE DETERMINATION

Ernest Russell Howard, Ridgewood, N. J., assignor to The H. A. Wilson Company, Newark, N. J., a corporation of New Jersey

Application April 19, 1941, Serial No. 389,475

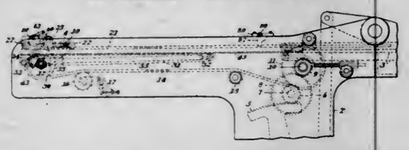
2 Claims. (Cl. 236—34)



1. In apparatus for controlling the flow of liquid in an internal combustion engine in response to changes in the temperature of the liquid, the combination which comprises a conduit through which the liquid is flowed, a thermally responsive structure mounted in the conduit and free of the walls thereof with its longitudinal axis extending in the direction of liquid flow in the conduit and comprising a group of bimetal strip helices disposed one within the other with their longitudinal axes substantially parallel and with annular passages for the liquid therebetween, connecting spacer members disposed between the helices at neighboring ends and connecting the helices rigidly by said ends but spaced from each other by the annular passages which are approximately equal in thickness to the strips, the helices being so connected to each other that the rotational angles described by the individual helices are additive, one free end of the group of helices being fixed, and flow control means directly connected to the other free end of the group of helices at a point that is spaced

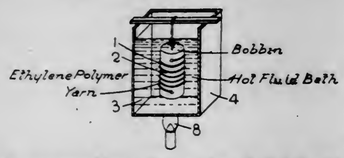
angularly from the nearest connecting spacer member between helices by an angle that is greater than the combined angular movement of the group of helices in response to the maximum temperature change.

2,325,059
SHEET HANDLING APPARATUS
Samuel A. Huffman, Avalon, Pa., assignor to Miller Printing Machinery Co., Pittsburgh, Pa., a corporation of Pennsylvania
Application April 28, 1941, Serial No. 390,639
36 Claims. (Cl. 271—77)



1. Sheet handling apparatus comprising a movable carrier against which a sheet is adapted to be positioned, means for positioning the sheet relatively to the carrier movable to and from operative position relatively to the carrier and means including a rotary member and a member along which said rotary member is adapted to roll upon movement of the carrier to move the positioning means relatively to the carrier.

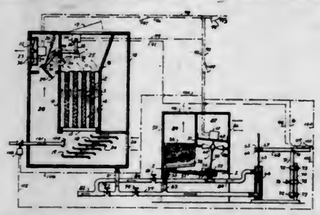
2,325,060
NONSHRINKING YARN
Henry G. Ingersoll, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application February 25, 1942, Serial No. 432,369
3 Claims. (Cl. 8—115.5)



1. A process for raising the shrinking temperature of oriented ethylene polymer filaments selected from the class of fibers, yarns, and the like which comprises maintaining the filaments at a temperature of from 30° C. to 2° C. below the melting point of the polymer while preventing retraction in the direction of the length of the filaments and then heating the filaments in relaxed condition at a temperature above about 40° C. below the melting point of the polymer, but not higher than the temperature of the preceding treatment.

2,325,061
HUMIDITY CONTROL DEVICE
Hiram Joseph Kaufman, Detroit, Mich.
Application April 24, 1940, Serial No. 331,372
4 Claims. (Cl. 236—44)

1. A method of conditioning air of an enclosure to maintain a substantially constant relative humidity within a relatively wide dry bulb temperature range, comprising the steps of chemically dehydrating air of said enclosure to form a waste hygroscopic solution having a vapor pressure substantially in equilibrium with that of the air being conditioned, determining the density of said solution and controlling the rate of dehydration of the air in accordance with the density, and compensating the control due

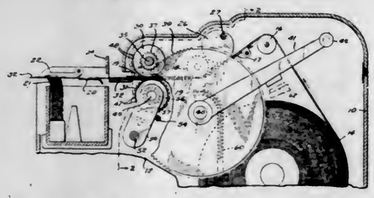


to density according to the temperature of the air of the enclosure.

2,325,062
ACID-REACTING DERIVATIVES OF ALCOHOL AMINE CONDENSATION PRODUCTS
Wolf Kritchevsky, Chicago, Ill., assignor, by mesne assignments, to Ninol Development Company, Chicago, Ill., a copartnership
No Drawing. Application August 12, 1939, Serial No. 289,789
18 Claims. (Cl. 260—404)

1. The method of preparing acid-reacting products from a condensation product of alkylolamine and carboxylic acid substance containing at least six carbon atoms, said condensation product normally having an alkaline reaction in aqueous media, which comprises condensing therewith an organic compound which unites with said condensation product to produce an acid-reacting product, said organic compound being a halogeno-acyl halide containing not more than six carbon atoms.

2,325,063
STRIP SERVING MACHINE
Theodore H. Krueger, Stratford, Conn., assignor to Better Packages Incorporated, a corporation of New York
Application August 19, 1941, Serial No. 407,411
8 Claims. (Cl. 271—2.3)



1. In strip feeding mechanism, a pair of feed rolls adapted to grip the strip to be fed, one of said rolls being mounted on a displaceable axle, a movable support in which said axle is journaled, a gear on said axle and reversible driving gearing for rotating said gear, said driving gearing when moved in tape advancing direction producing a reaction of said axle gear, axle, movable support and feed roll to cause said movable support to move and bring said feed rolls into gripping engagement with said strip.

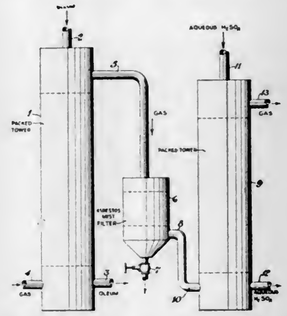
2,325,064
EXPLOSIVE COMPOSITION
Robert W. Lawrence, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 29, 1940, Serial No. 343,162
6 Claims. (Cl. 52—11)

2. An explosive composition comprising an oxygen deficient liquid nitroparaffin containing not more than two nitro groups and having an oxygen balance in excess of about —100% in admixture with ammonium nitrate and a carbonaceous material.

2,325,065
EXPLOSIVE COMPOSITION
Robert W. Lawrence, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 27, 1940, Serial No. 367,381
8 Claims. (Cl. 52—5)

8. An explosive composition comprising an admixture having an oxygen balance between about —25% and about +25% and composed of nitric acid and a lower nitroparaffin selected from the group consisting of nitromethane, nitroethane, dinitroethane, nitrobutane, nitroisobutane, nitropropane, and dinitropropane.

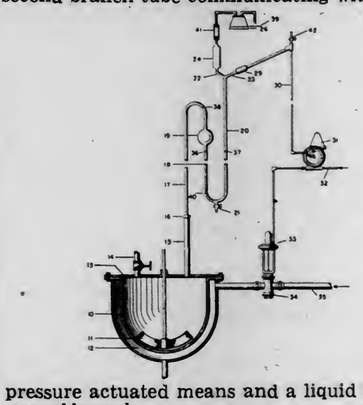
2,325,066
REMOVAL OF NITROGEN OXIDE FROM GASES
Louis Joseph Marcotte, Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application December 31, 1941, Serial No. 425,061
4 Claims. (Cl. 23—178)



1. A process for removing nitrogen oxides from gases containing the same which comprises forming a solid addition compound of sulfuric anhydride and nitric oxide by passing said gases into contact with sulfuric anhydride, and removing the solid addition compound by passing the gas stream through a filter.

2,325,067
PROCESS AND APPARATUS FOR POLYMERIZATION
Barnard M. Marks, Newark, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application November 10, 1941, Serial No. 418,512
2 Claims. (Cl. 23—290)

1. An apparatus for the polymerization of an ethenoid monomer in suspension in an aqueous vehicle comprising a closed reaction vessel, a jacket upon said vessel, pressure actuated means for controlling the flow of cooling fluid through said jacket, a mercury manometer, a tube connecting said vessel with the first arm of the said manometer, a branch tube connected to and extending upwardly from the second arm of said manometer and communicating with the atmosphere, a valve located in said branch adapted to be closed by rise of mercury in said branch, a second branch tube communicating with the said

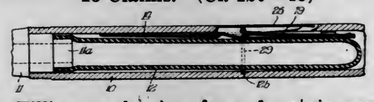


pressure actuated means and a liquid filling said second branch.

2,325,068
PREPARATION OF ALLOYS FROM ELECTROLYTIC MANGANESE
John J. McLaughlin, Chicago, Ill., assignor to Chicago Development Company, Chicago, Ill.
No Drawing. Application January 5, 1939, Serial No. 249,375
8 Claims. (Cl. 204—37)

1. The process of making alloys containing electrolytic manganese which includes the step of forming a composite sheet of the approximate composition of the alloy desired by electroplating manganese on a metal sheet and melting said composite sheet without separating the manganese from the original metal sheet.

2,325,069
FOUNTAIN PEN
Fred P. Moore, Chicago, Ill., assignor to Eversharp, Inc., Chicago, Ill., a corporation of Delaware
Application March 2, 1942, Serial No. 432,914
15 Claims. (Cl. 120—46)

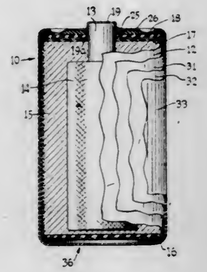


1. Filling mechanism for a fountain pen having a tubular barrel comprising a presser bar, a spring leaf overlying the presser bar and connected at one end thereto, an operating lever hinged on the spring leaf and cooperating with the presser bar to flex the leaf and swing the presser bar away from it when the lever is swung to approximately perpendicular relationship to the bar, and a mounting member forming the hinge connection between said lever and leaf and having a portion for seating removably within the barrel bore, all said parts being insertable into and removable from the barrel in their assembled condition.

2,325,070
DRY BATTERY CELL
Bernard Francis Muldoon, Mountain View, N. J., assignor to Henry Hyman, Brooklyn, N. Y.
Application October 11, 1939, Serial No. 298,938
12 Claims. (Cl. 136—107)

1. In an electric dry cell comprising a metal

cup electrode, a core electrode and an upper layer of insulating material interposed between said electrodes, independent resilient means for rendering the junction of said metal cup electrode



and said insulating material leak-proof, said means being overlaid and pressed against said cup and said material adjacent the junction thereof.

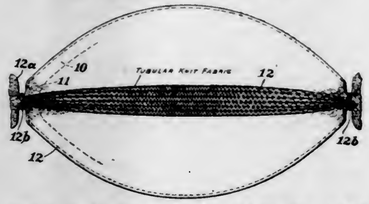
2,325,071
BEARING AND LIKE ARTICLE
William S. Murray, Utica, N. Y., assignor to Indium Corporation of America, a corporation of New York
No Drawing. Application November 30, 1940, Serial No. 368,041
6 Claims. (Cl. 308—237)

1. An article comprising a supporting member having thereon a surface layer comprised of finely divided lead-indium particles consisting essentially of lead and indium, said particles being bonded together to form an integral surface layer adherent to the supporting member.

2,325,072
PROCESS FOR THE CATALYTIC DESTRUCTIVE HYDROGENATION OF HEAVY OILS OR RESIDUES CONTAINING ASPHALT
Mathias Pier, Heidelberg, and Ernst Donath, Mannheim, Germany, assignors to Standard Catalytic Company, a corporation of Delaware
No Drawing. Application February 18, 1939, Serial No. 257,208. In Germany February 19, 1938
5 Claims. (Cl. 196—53)

1. A process for the catalytic destructive hydrogenation of heavy oils or residues containing asphalts for the production of middle oils, which comprises treating the initial material with hydrogen at a temperature between 450° and 550° C., in the presence of a hydrogenating catalyst the activity of which lies below that of catalysts of standard hydrogenating activity, with a throughput between 0.5 and 1.8 kilograms of initial material per liter of reaction space per hour, and at a hydrogen pressure which ranges between a pressure determined in accordance with the propane-asphalt content of the initial material so that the hydrogen pressure is about 320, 360, 450, 550 and 600 atmospheres for about 8, 15, 33, 50 and 60 per cent of propane-asphalt, respectively, and a pressure determined in accordance with the amount of vacuum residue of the initial material remaining after distillation at about 20 millimeters of mercury up to about 325° C. of about 320, 360, 450, 550 and 600 atmospheres with a vacuum residue amounting to about 10, 15, 25, 35 and 40 per cent, respectively.

2,325,073
METHOD OF MAKING ATHLETIC GAME BALLS
Milton B. Reach, Springfield, Mass.
Original application March 2, 1937, Serial No. 128,672, now Patent No. 2,175,128, dated October 3, 1939. Divided and this application March 1, 1939, Serial No. 259,243
32 Claims. (Cl. 154—16)



7. Steps in a method of making an inflatable athletic game ball consisting in forming a flexible carcass of textile material, providing material in liquid form within said carcass capable of sealing said carcass air tight, and flexing with said carcass, subjecting the carcass to a first curing heat while the said material remains liquid, tumbling the ball to distribute said liquid material over the inner surface of the carcass and then completing the curing of the ball, substantially as described.

2,325,074
METHOD OF MAKING ATHLETIC GAME BALLS
Milton B. Reach, Springfield, Mass.
Application March 6, 1939, Serial No. 260,203
17 Claims. (Cl. 154—16)



1. Steps in a method of making a spherical athletic game ball of substantially uniform wall thickness, strength and accuracy of reaction throughout comprising building on a rigid form a substantially non-stretchable carcass in layers, at least one of which is a cord winding of textile material in great circles, cementing said cord windings, cutting an opening through the layers, including the cord winding of a diameter much less than that of the said carcass, reducing the material of the rigid form to small particles, removing the said reduced material of the rigid form through said opening, inserting means rendering the ball inflatable, inflating the ball, closing said opening by a patch of substantially equal thickness, strength and accuracy of reaction as of the main wall of the carcass, said patch including cord winding and being within said opening and substantially flush with the exterior surface of the carcass, and cementing cover sections on the carcass, substantially as described.

2,325,075
METHOD OF MAKING INFLATABLE GAME BALLS
Milton B. Reach, Springfield, Mass.
Application April 14, 1941, Serial No. 388,533
3 Claims. (Cl. 154—16)

1. Steps in a method of making a spherical inflatable game ball consisting in applying to a rigid reducible form material providing a non-

slipping surface, applying a patching means of sheet material of limited area and in one or more layers, applying upon said patching means a plate member substantially resistant to being cut, said plate being of limited area, applying over said plate another layer of patching material in sheet form and of limited area, winding cord substantially in great circles onto said form and over the outside of the patching material, said winding being performed continuously and uninterruptedly and of continuous strand of cord and forming a solid mass entirely of cord constituting the main portion of the carcass of the ball, impreg-

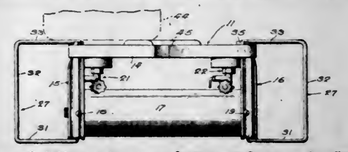


nating the cord winding with cement to bind it together and to the underlying layer of patching material, cutting through the solid mass of cord winding and through the patching material down to the plate, opening the same, removing the plate, providing openings in the underlying patching means as by cutting down through the same to the form, reducing the form and removing it through the openings in the carcass, inserting means rendering the ball inflatable, and closing the opening by restoring all the cut out patching portions and the cut out portion of the overlying main wall portion of solid cord.

2,325,076
LUBRICANT
Raymond Reuter, Medford Lakes, N. J., assignor to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania
No Drawing. Application February 20, 1940, Serial No. 319,839
7 Claims. (Cl. 252—53)

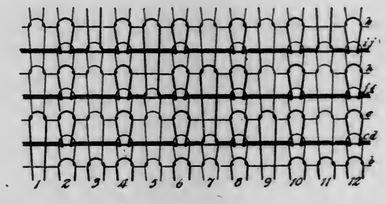
1. A hydrocarbon oil composition comprising a relatively large proportion of a refined hydrocarbon oil normally tending to deteriorate by oxidation under normal conditions of use and in intimate admixture therewith a relatively small amount sufficient to inhibit such deterioration, of an oil-soluble, water-insoluble mixed ester produced by the reaction of an ester of phosphorous acid and an alkyl aroxy alkanol.

2,325,077
FOLDING STOVE
Bestor Robinson, United States Army, Oakland, Calif.
Application July 7, 1942, Serial No. 449,988
3 Claims. (Cl. 126—38)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



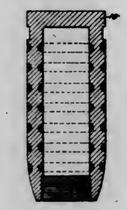
2. In a folding stove, a burner frame including a liquid fuel burner, a perforation in said frame comprising a pivotal mounting on said frame arranged to receive the inner end of a shiftable utensil bracket including a metal rod having a vertical pivot portion and a horizontal utensil supporting rail, a locking notch positioned adjacent the top pivot and open at the top to receive the shiftable bracket, the inner end of the bracket being supported only by the notch so that the full weight of the load on the inner end of the bracket will act on the notch to provide a substantially positive lock for the bracket when the stove is loaded.

2,325,078
KNIT FABRIC
Stanley R. Shelmire, Laconia, N. H., assignor to Scott & Williams, Incorporated, Laconia, N. H., a corporation of Massachusetts
Application January 9, 1941, Serial No. 373,818
10 Claims. (Cl. 66—200)



1. A knitted fabric comprising face and back wales, said face wales being formed of loops of a plurality of contrasting yarns, each of said yarns being knitted singly a certain of the wales, and said back wales being formed of loops of each of said contrasting yarns and courses of an elastic thread, said fabric having a plurality of courses of loops appearing in the back wales for each course of loops appearing in the face wales.

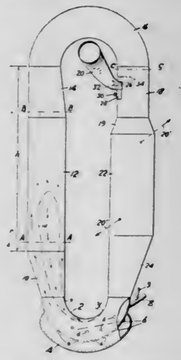
2,325,079
HEAT TREATMENT OF PROJECTILES
Walter H. Soderholm, United States Army, Syracuse, N. Y.
Application June 11, 1941, Serial No. 397,651
13 Claims. (Cl. 148—10)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In the art of producing a fragmentation controlled shell, the apparatus comprising more than two spaced coaxial coils adapted to partially encase the shell, orifices disposed between adjacent coils, means to project a stream of liquid through said orifices, means for maintaining the shell stationary with respect to the coils, and means for spacing said coils whereby rings of the shell material are heated when high frequency current is passed through the coils.

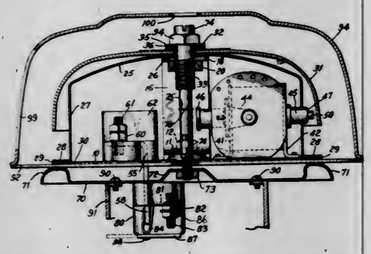
8. In the process of producing a fragmentation body from a smooth surfaced body the steps which comprise, heating selected portions of the smooth surfaced body and then quickly quenching the selected portions, whereby fragmentation is controlled.

2,325,080
METHOD AND APPARATUS FOR COMMINUTING OR DRYING MATERIALS
Nicholas N. Stephanoff, Haverford, Pa., assignor to Thermo-Plastics Corporation, Elizabeth, N. J., a corporation of New Jersey
Application October 15, 1938, Serial No. 235,139
17 Claims. (Cl. 83—46)



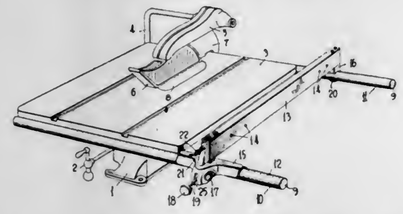
1. Apparatus for the treatment of material in comminuted form comprising a casing providing an endless tubular passage, a plurality of portions of said passage being in the form of Venturi passages, means for feeding material to said tubular passage, and means for inducing a high velocity flow of elastic fluid through said tubular passage to maintain particles of the material continuously in suspension and recirculating through said tubular passage.

2,325,081
ELECTRIC BELL
Lewis J. Stern, Adrian, Mich., assignor, by mesne assignments, to Schwarze Electric Company, Chicago, Ill., a limited partnership of Illinois
Application October 2, 1941, Serial No. 413,267
7 Claims. (Cl. 177—7)



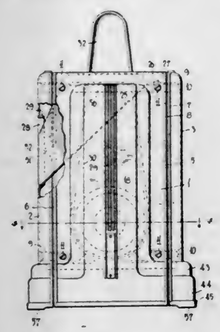
1. In an electric bell, a base member, a bridge secured to said base member, a casing having a top portion and a depending wall portion overlying said bridge said wall portion being adapted to engage said base member and to cooperate therewith to enclose completely the working parts of said bell to protect said parts from dust and moisture, electro-magnetic gong operating means including a striker supported by said base member within said casing, a gong disposed over said casing and secured thereto by a single eyelet, an opening in said casing through which said striker can strike said gong and screw means passing through said eyelet for securing said gong and said casing to said bridge.

2,325,082
RIP GAUGE
Herbert E. Tautz, Milwaukee, Wis., assignor, by mesne assignments, to Delta Manufacturing Company, Milwaukee, Wis., a partnership consisting of Marshall Field, Charles G. Cushing, and H. Campbell Stuckeman
Application April 13, 1936, Serial No. 74,177
Renewed March 7, 1940
10 Claims. (Cl. 143—176)



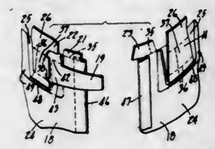
8. In a woodworking machine having a work-receiving table and a work-guiding gauge movable thereover, means for guiding and securing the gauge with respect to the table, said means comprising two elongated guide members of substantially circular cross section secured to the table along the front and rear edges thereof, the gauge having correspondingly curved arcuate portions at its respective ends slidably fitting the said two elongated members, and means for securing it at will to both of said members, by clamping said arcuate portions against the respective guide members.

2,325,083
STAND FOR MOTOR DRIVEN TOOLS AND THE LIKE
Herbert E. Tautz, Miami Beach, Fla., assignor, by mesne assignments, to Delta Manufacturing Company, Milwaukee, Wis., a partnership consisting of Marshall Field, Charles G. Cushing, and H. Campbell Stuckeman
Application February 3, 1941, Serial No. 377,243
9 Claims. (Cl. 248—13)



1. A stand for a machine tool, consisting of cast metal panels forming vertical sides, said panels being substantially out of contact with their neighbors at their vertical edges, slightly yieldable braces forming the sole connections between adjacent panels, said braces being secured to the panels in two series, one near the top and one near the bottom respectively of the cabinet, said stand being open at top and bottom, and a motor-support secured to the lower braces.

2,325,084
CONTAINER
Edward O. Then, Newark, N. J., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application June 6, 1941, Serial No. 396,929
3 Claims. (Cl. 220—54)



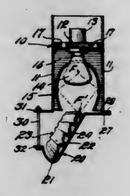
3. A sealed key opening metallic container, comprising a tubular body having an integral folded circumferential wall area of triple thickness at its upper end, the outermost wall of said area including a circumferentially disposed tearing strip set off by score lines, a tongue formed in the intermediate wall of said area, a bottom end closure member secured to the lower end of said body, a top end closure member secured to the said outermost wall of said area and to an adjacent portion of said body wall, said tubular body wall being bent out of its circumferential plane adjacent the lower edge of said folded wall area to provide a flush exterior surface for said outermost area wall and the tubular body wall below said area, said body having an uninterrupted longitudinal lock seam extending continuously between said top and bottom end closure members and between adjacent spaced end portions of said folded wall area to strengthen the body, the base of said tongue being soldered to said outermost wall adjacent said tearing strip to secure the tongue to the tearing strip, portions of said folded body wall area being cut away and soldered down at said longitudinal lock seam, whereby pulling outwardly on said tongue in said intermediate wall breaks and removes the tearing strip in said outermost wall to open the container, such removal of the top end closure with its attached outermost folded body wall area providing a reclosure member having frictional engagement with said tubular body wall and said folded body wall area.

2,325,085
ANTIOXIDIZING PARAFFIN COMPOSITION
Herbert G. Vore, Jackson Heights, N. Y., assignor to American Seal-Kap Corporation of Delaware, Wilmington, Del., a corporation of Delaware
No Drawing. Application February 14, 1941, Serial No. 378,973
9 Claims. (Cl. 106—270)

5. The method of preventing oxidation of molten paraffin wax baths and hot paraffin oil baths which comprises maintaining therein about .003% to .04% of a petroleum residue asphalt.

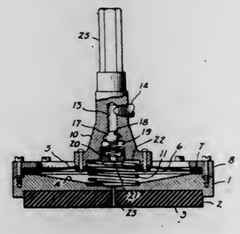
2,325,086
HEATING APPARATUS
Herbert G. Vore, Jackson Heights, N. Y., assignor to American Seal-Kap Corporation of Delaware, Wilmington, Del., a corporation of Delaware
Application July 9, 1941, Serial No. 401,624
5 Claims. (Cl. 219—34)

1. A device for heat-softening a thermoplastic adhesive coating on a bottle cap, comprising a feed chute having a surface along which said bottle cap is adapted to roll, means causing said caps to roll along said surface, an elongated radiant heat source extending along said chute, and means concentrating radiant heat from said source onto the coating on the cap skirt as the cap rolls along said chute, to thereby render the



thermoplastic adhesive tacky for sealing without substantially heating the body of the cap or skirt.

2,325,087
METHOD OF AND APPARATUS FOR TREATING SURFACES
Louis S. Wertz, Cleveland Heights, Ohio
Application September 1, 1942, Serial No. 456,863
11 Claims. (Cl. 72—127)



1. The method of treating concrete and masonry structures and the like to densify them in the region of their surfaces, which comprises presenting a member having a resilient depressible face against the surface of the structure, feeding a highly flowable material containing Portland cement, through said face into contact with the surface of said structure, repeatedly and suddenly impacting said flowable material to cause periodic variations of pressure therein, and transmitting said impacts substantially entirely through said flowable material to said resilient depressible face of said member and to the surface of the structure being treated, whereby the pressure of said resilient depressible face against said structure varies as a function of the instantaneous pressure of said flowable material.

6. A device for treating the surfaces of masonry and concrete structures and the like, which comprises two spaced walls connected by peripheral portions to define a chamber, one wall being movable relative to the other, a relatively flat, resilient face carried by one of said walls, impact transmitting means carried by the other of said walls, a passageway through said resilient face and its supporting wall for the passage of fluid from said chamber, means for supplying a readily flowable treating material to said chamber, and means for suddenly and periodically applying pressures to said transmitting means to periodically increase and decrease the pressure on the treating material in said chamber and to transmit through said material similar periodic forces over said resilient face when said face is disposed against the surface to be treated.

2,325,088
ALLOY STEEL ANTIFRICTION BEARING ELEMENT

Frank L. Wright, Stamford, Conn., and George V. Luerssen, Muhlenberg Park, Pa., assignors of one-half to The Carpenter Steel Company, Reading, Pa., a corporation of New Jersey, and one-half to Norma-Hoffmann Bearings Corporation, Stamford, Conn., a corporation of New York

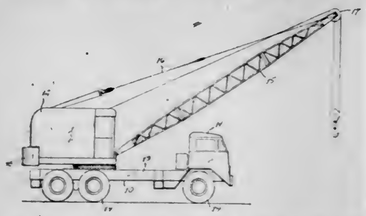
Application November 4, 1939, Serial No. 302,824
1 Claim. (Cl. 75—126)

An alloy steel antifriction bearing element free from harmful internal stresses and free from harmful non-metallic inclusions from linings used in the process of manufacture of the alloy, comprising 1.50 to 4% chromium, 1 to 3% manganese, 1.50 to 3% silicon, .80 to 1.20% carbon, and the balance substantially all iron, the content of chromium, manganese and silicon exceeding 5% but not 10%, the content of manganese and silicon together exceeding the chromium, the manganese content sufficient for deep hardening by oil quenching, the content of silicon at least equal to the manganese, and the content of chromium sufficient for a wide allowable quenching range.

2,325,089
REMOVABLE COUNTERWEIGHT FOR EXCAVATING AND LOAD HANDLING MACHINES

Roy H. Zeilman, Lorain, Ohio, assignor to Thew Shovel Company, Lorain, Ohio, a corporation of Ohio

Application September 8, 1941, Serial No. 409,917
8 Claims. (Cl. 212—49)



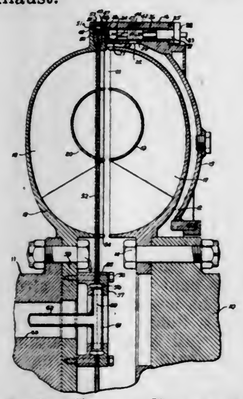
1. In an excavating or load handling machine, a truck chassis having mounted thereon a turntable upon which a superstructure is erected, a machinery frame for said superstructure and a cab structure, a counterweight removably secured adjacent the rear end of said cab structure consisting of a semi-cylindrical weight, said weight being adapted to be suspended from the upper portion of the machinery frame for the superstructure, skid beams being adapted to be mounted on said truck chassis under the counterweight and removably secured thereto, said counterweight being adapted to be removed from said suspended relation with said machinery frame and from said mounting and being supported by said skid beams whereby said counterweight may be readily removed from its association with said excavating and load handling machine.

2,325,090
DUMP VALVE FOR HYDRAULIC COUPLINGS

Noah L. Alison, Detroit, Mich., assignor to The American Blower Corporation, Detroit, Mich., a corporation of Delaware

Application September 24, 1940, Serial No. 358,144
6 Claims. (Cl. 60—54)

3. In a hydraulic coupling, a primary rotor, a secondary rotor, means for supplying working fluid to said rotors, a casing enclosing said rotors and having a discharge port, a discharge passageway in said casing having a substantially radial portion in continuous communication with said rotors and an angular portion connecting said substantially radial portion with said discharge port, valve means in said angular portion for controlling communication between said discharge passageway and said discharge port, and choke means continuously connecting the radially outermost portion of said discharge passageway with an exhaust.

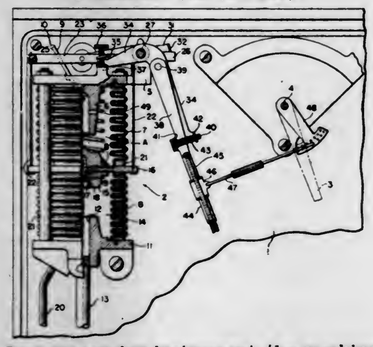


6. In a hydraulic coupling, a primary rotor, a secondary rotor, means for supplying working fluid to said rotors, a casing surrounding said rotors and including a restricted normally open passageway for conveying working fluid to an exhaust, a sleeve extending into said passageway and having an opening with its rim portions protruding beyond adjacent wall portions of said passageway, an exhaust port in said sleeve, and a dumping piston slidably mounted in said sleeve and operable selectively to open or close said opening.

2,325,091
PRESSURE MEASURING INSTRUMENT

Aloysius F. Allwein and Edwin C. Burdick, Philadelphia, Pa., assignors to The Brown Instrument Company, Philadelphia, Pa., a corporation of Pennsylvania

Application October 17, 1941, Serial No. 415,372
8 Claims. (Cl. 73—110)

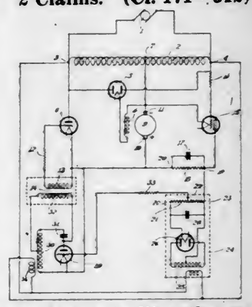


1. In a measuring instrument, the combination of a pair of expansible chambers mounted with one end of each chamber in a fixed position and the opposite end of each chamber in abutting relation and free to move, a member interposed between said abutting ends and movable therewith, means to rigidly fasten said ends and member together, a pair of stiff, flexible links fastened to spaced points on said member and extending in the same direction beyond the fixed end of one of said chambers, a cross-member attached to the free ends of said links, to move therewith as said member moves, a pivoted lever attached at one end to the center of said cross-member, the arrangement being such that as the lever moves around its pivot the links will flex, an arm biased into engagement with said lever to follow the movements thereof, and an exhibiting element operated by said arm.

2,325,092
ELECTRIC MOTOR CONTROL

Elmer Andrews, Woodcliff, N. J., assignor to Callite Tungsten Corporation, Union City, N. J., a corporation of Delaware

Application October 17, 1941, Serial No. 415,358
2 Claims. (Cl. 171—312)



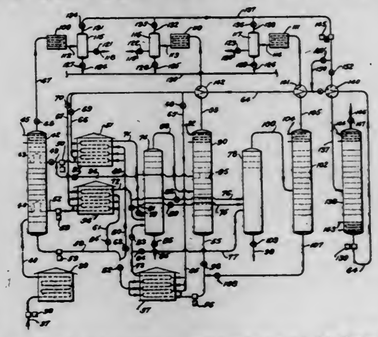
2. A system for controlling the speed of a D. C. motor operated on an A. C. source of power, including rectifier means connected to said source and feeding D. C. to the motor field, a half-wave grid controlled gas rectifier connected to said source and feeding half-waves of D. C. to the motor armature, a speed control condenser, switching means actuated 180° out of phase with said half-wave rectifier and connecting said condenser to and charging it by the C. E. M. F. of the motor armature on alternate half-waves, leakage discharge means for said condenser, a source of predetermined bucking voltage connected serially to said condenser, an electronic phase-shifter of the resistance-capacity type excited from said A. C. source, a connection feeding the differential of the condenser charge and the bucking voltage to the control grid of said electronic phase-shifter so as to determine the degree of phase-shift, and means coupling the output of said phase-shifter to the control grid of said gas rectifier, whereby the effective output thereof and the speed of the motor are controlled.

2,325,093
MOTOR FUEL PRODUCTION

George Armistead, Jr., Houston, Tex., assignor to Process Management Company, Inc., New York, N. Y., a corporation of Delaware

Original application October 23, 1937, Serial No. 170,603. Divided and this application October 19, 1940, Serial No. 361,808
1 Claim. (Cl. 196—9)

The method of treating hydrocarbons to produce therefrom motor fuel of high anti-knock value which comprises fractionating crude oil to separate therefrom a light naphtha distillate, a heavy naphtha condensate, a virgin gas oil condensate and a hydrocarbon oil higher boiling than said virgin gas oil, passing said gas oil through a single-pass cracking zone wherein the gas oil is separately subjected to cracking conditions of temperature and pressure to effect cracking thereof to lighter products comprising motor fuel constituents of high anti-knock value, fractionating resultant conversion products in a fractionating zone to obtain a residue, a reflux condensate, a desired motor fuel distillate and normally gaseous hydrocarbons predominating in hydrocarbons heavier than ethane, separately subjecting said heavy naphtha condensate, obtained in fractionating the crude oil, to reforming conditions of temperature and pressure to effect conversion thereof to motor fuel constituents of high anti-knock value by passage as a stream through a separate elongated heating zone of restricted cross-section, introducing into said elongated heating zone intermediate the ends thereof said normally gaseous hydrocarbons and said higher boiling hydrocarbon oil, obtained from the said



crude oil fractionation, whereby said higher boiling hydrocarbon oil and said normally gaseous hydrocarbons are merged with said heavy naphtha in said zone after substantial reforming of the heavy naphtha has been effected, passing the merged products through the remainder of the heating zone under cracking conditions of temperature and pressure to effect conversion to motor fuel constituents of high anti-knock value, directing the resultant products of conversion to the aforesaid fractionating zone, passing reflux condensate from said fractionating zone to a separate recycling cracking zone wherein the reflux condensate is separately subjected to cracking conditions of temperature and pressure to effect conversion into motor fuel constituents and diricting the resultant products of conversion to said fractionating zone for fractionation therein.

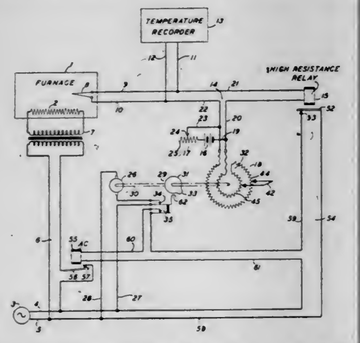
2,325,094
FURNACE CONTROL APPARATUS

Joseph A. Ashworth, North Arlington, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application February 27, 1941, Serial No. 380,761
3 Claims. (Cl. 236—46)

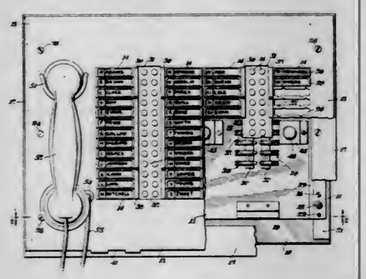
1. An apparatus for controlling the temperature of a furnace in accordance with desired programs, comprising in combination, a heating device in the furnace, a circuit including a source of current supply for said heating device, a relay having contacts in said circuit and operable to control the opening and closing of said circuit, a control circuit for said relay, a thermocouple in said furnace, a local circuit including a local source of current supply, a rheostat and a high

resistance relay in said local circuit and connected in series with said thermocouple, a potentiometer connected across said local circuit in shunt of said local source of current supply and said rheostat, said high resistance relay being operable by electromotive forces supplied by said thermocouple and said local source of current supply, and said potentiometer being operable to control the electromotive force supplied from said local source of current supply to said high resistance relay by increasing or decreasing the



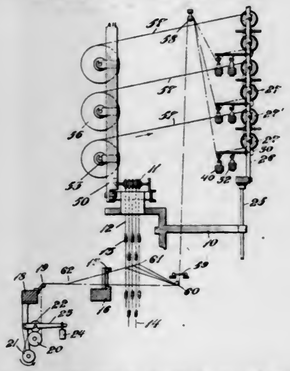
resistance shunting said local source of current supply, contacts in said control circuit controlled by means of said high resistance relay, a motor, a shaft driven by means of said motor and operable to control the operation of said potentiometer, a switch in said control circuit, a cut-out for said motor and means mounted on said shaft and operable to open said switch and the cut-out for said motor at the end of the desired program.

2,325,095
DIRECTORY AND PUSH-BUTTON CALL-BOARD DEVICE
Charles Auth, Malba, N. Y.; Emma L. Auth executrix of said Charles Auth, deceased
Application August 9, 1940, Serial No. 351,932
2 Claims. (Cl. 175—307)



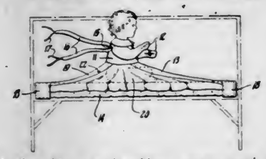
1. In a device of the character described: an open outlet box and a chassis adjustably attachable therein by means including overlapping flanges on said outlet box and chassis respectively, together with screws threaded through said chassis flanges and resting on said outlet box flanges, and other screws passing through enlarged apertures in said chassis flanges and threaded through said outlet box flanges, thereby to provide for both angular and elevational adjustment of said chassis with respect to said outlet box.

2,325,096
LOOM WARP FEED
George J. Beaudreau, Kenyon, R. I.
Application September 16, 1942, Serial No. 458,483
11 Claims. (Cl. 139—103)



1. In a narrow-ware loom, a supporting frame, a warp controlled rotatable friction beam in said frame, means governed by the warp for controlling the rotation of said beam, a ball warp mounting supported on said frame of the loom, a ball warp in said mounting having warp yarns leading about said friction beam and through said controlling means and thence to and through the harnesses of the loom.

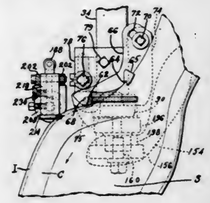
2,325,097
INFANT'S GARMENT
Frances Rice Behringer, Jackson Heights, N. Y.
Application January 25, 1940, Serial No. 315,468
2 Claims. (Cl. 128—134)



1. An infant's protective garment including a relatively form fitting blouse to cover the upper portion of the infant's body, an apron attached to the front portion of the blouse, a shorter apron attached to the rear of the blouse, said aprons each having a formed box-like fitted end adapted to fit over and enclose the end of a crib or carriage mattress and fastening elements for securing the bottom of the front apron to the top of the rear apron when the aprons are folded under the infant's legs, said fastening elements being positioned adjacent the sides of the bottom end of the front apron and adjacent the sides of the top end of the rear apron, respectively.

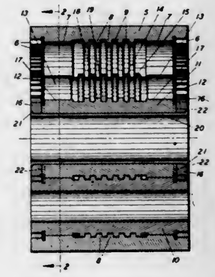
2,325,098
COATING MACHINE
Charles C. Bell, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J., a corporation of New Jersey
Application March 7, 1940, Serial No. 322,737
15 Claims. (Cl. 91—49)

6. In a machine for operating on soles, spaced gages, feeding means arranged to impart a cross feed to hold the edge of a sole against said gages, a cement-applying nozzle arranged to apply a band of cement along the margin of the sole spaced from the edge, an ink-applying roll arranged to apply ink to the margin of the sole between the band of cement and the edge, a second ink-applying roll arranged to apply ink



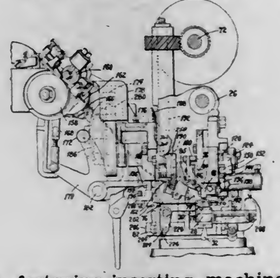
to the edge of the sole, means for holding the cement-applying nozzle and the first-mentioned ink-applying roll against the face of the sole, and means for yieldingly holding the second ink-applying roll against the edge of the sole.

2,325,099
HIGH-SPEED ROLLER BEARING
Frank Ellison Best, Indianapolis, Ind.
Application September 23, 1940, Serial No. 357,907
4 Claims. (Cl. 308—205)



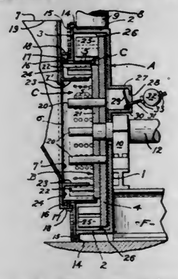
1. In a geared roller bearing, an outer race member, an inner race member of smaller diameter than the outer race member adapted to be positioned within the outer race member, a tubular sleeve within said inner race member extending beyond the ends thereof to provide gear receiving portions, a plurality of bearing rollers adapted to be disposed between said two race members in angularly spaced apart relation, said rollers being of a size and number to provide for positioning all of said rollers within the outer race member with all of their axes within substantially a semi-circle while the inner race member is being inserted therein, internal gears adjacent the ends of the outer race member, gears on said rollers adapted to mesh with said internal gears, separable gears for the end portions of said inner race member carried by said gear receiving end portions of said tubular sleeve and adapted to mesh with the gears on said rollers, interfitting tongue and groove means on the end portions of said inner race members and the sides of said separable gears, and upset portions on the ends of said tubular sleeve rigidly securing said separable gears to said tubular sleeve, said upset portions providing for securing at least one of said separable gears to said inner race member after said race members and said rollers have been properly positioned relative to each other to thereby complete the assembly of the bearing.

2,325,100
FASTENING INSERTING MACHINE
Benjamin B. Blanchard, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application March 8, 1941, Serial No. 382,413
22 Claims. (Cl. 1—20)



9. In a fastening-inserting machine, fastening-inserting mechanism movable relatively to a shoe to insert fastenings to fasten the upper to a sole, means for severing from fastening material pieces of different lengths and for forming each severed piece into a fastening, means for feeding fastening material to said severing and forming means, a lever swingable relatively to the feeding means to operate said feeding means, an adjustable stop for limiting the movement of said lever to determine the length of fastening material fed to form a fastening, a gage adjustable into and out of a single, predetermined operative position to serve as a support for the shoe in operating upon some portions only of the shoe bottom, and a member common to said stop and gage for adjusting them simultaneously.

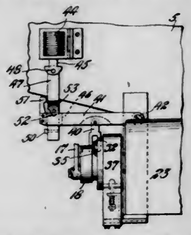
2,325,101
HAY BREAKER
Paul Bonnafoux, Lancaster, Calif.
Application May 16, 1941, Serial No. 393,753
2 Claims. (Cl. 83—11)



1. A pulverizing mill comprising: a cylindrical housing with an axially disposed inlet for material, a rotor in said housing, an annular screen stationarily held on the front of said housing and telescoping a portion of said rotor whereby to provide a milling chamber internally of said screen and an annular suction chamber externally of said screen, blades carried by said rotor and rotatable in said suction chamber, and a plurality of pulverizing elements carried by said rotor at different distances from the axis thereof and rotatable within said milling chamber, said suction chamber having an outlet whereby the pulverized material may be exhausted from the milling chamber through said screen, said suction chamber and said outlet, said mill including an air inlet on the back of said housing, a valve

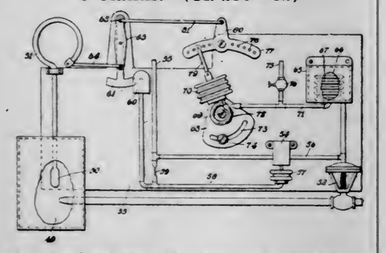
pivotally mounted adjacent and adapted to normally close said inlet against admission of air, and means for affording communication between said air inlet and said suction chamber without admitting air to the milling chamber.

2,325,102
CLUTCH CONTROL MECHANISM
Ludwig F. Boschen, New York, N. Y., assignor to American Seal-Kap Corporation of Delaware, Wilmington, Del., a corporation of Delaware
Application February 25, 1942, Serial No. 432,186
2 Claims. (Cl. 192—40)



1. The combination with a horizontal pivoted lever of electromagnetic means including a link pivoted to hang in a substantially vertical position, said lever containing a recess wider than said link and enclosing said link so as to permit same to move laterally and vertically in said recess, a catch on the edge of said link spaced beneath said lever when the link is lowered by deenergization of the solenoid, said catch being adapted to enter the recess in said lever when released, a projection on said link and a cooperating notch in said lever adapted to mate when the link is lowered by deenergization of the solenoid to position said catch beyond said recess in position for lifting said lever when said electromagnetic means is again energized, and an upstanding finger on said lever adjacent the edge of said link and adapted, when the link is raised to the upward limit of its travel, to shift said link laterally to release said catch and to thereby permit said lever to descend while the electromagnetic means remains energized.

2,325,103
FLUID-PRESSURE-ACTUATED REGULATING SYSTEM
Carlton W. Bristol, Naugatuck, Conn., assignor to The Bristol Company, Waterbury, Conn., a corporation of Connecticut
Application November 15, 1937, Serial No. 174,609
5 Claims. (Cl. 236—82)



4. In an automatic control system: valve means responsive to a variable force for regulating a flow of energy, a first resilient member having an internal space of variable volume and adapted to be actuated to vary said volume simultaneously and in direct proportion to movement of said valve means, a second resilient member having an internal space of variable volume in free communication with that of said first member and subjected only to the difference between the fluid pressure therein and atmospheric pressure, and a constricted bleeder vent permitting a gradual equalization of pressures internal and external to said second resilient member, the said second member affecting the variable force to which the responsive means is subjected.

2,325,104
OUTSIDE PIPE CUTTER
Cicero C. Brown, James R. Dodson, Jr., and Floyd L. Scott, Jr., Houston, Tex., assignors, by mesne assignments, to D. H. Reed Company, Houston, Tex., a corporation of Texas
Application June 30, 1941, Serial No. 400,492
25 Claims. (Cl. 164—0.6)

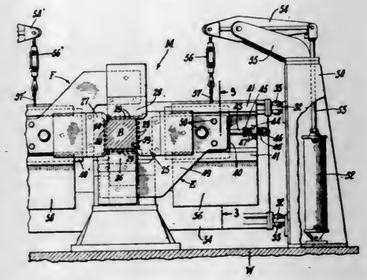


11. In an outside pipe cutter, a hollow body adapted to receive a pipe to be cut, inwardly movable cutter knives on said body, an anchor comprising an overshot engageable with said pipe to hold said anchor against both rotary and vertical movement with respect to said pipe, said overshot having dogs and means for moving said dogs outwardly when they are forced to move upwardly with respect to said body, means connecting said anchor to said body to anchor said body against vertical movement in an upward direction with respect to said pipe, an actuator carried by said body and rotatable therewith while said anchor is stationary, and movable to move said knives into cutting position, and a rotary feeding connection between said anchor and said actuator to cause said actuator to move and feed said knives when said body is rotated with respect to said anchor.

2,325,105
ADHESIVE COMPOSITION COMPRISING BISTHIOAMMELINE POLYALKYLENE ETHER RESINS
Herman A. Bruson and James L. Rainey, Philadelphia, Pa., assignors to The Resinous Products & Chemical Company, Philadelphia, Pa.
No Drawing. Application August 15, 1940, Serial No. 352,737
11 Claims. (Cl. 260—6)

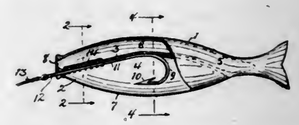
1. An adhesive comprising a solution of a condensate of a bisthioammeline ether and formaldehyde, an acidic condensation catalyst for hardening said condensate, and soluble blood.

2,325,106
BLOWPIPE APPARATUS
James H. Bucknam, Cranford, N. J., assignor to The Linde Air Products Company, a corporation of Ohio
Application November 15, 1941, Serial No. 419,252
11 Claims. (Cl. 266—23)



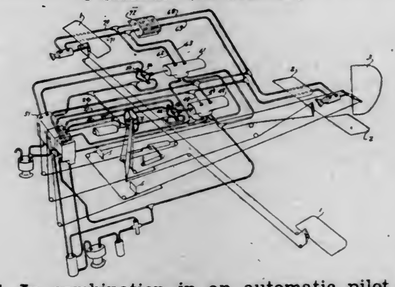
1. A machine for surface conditioning a metal body, the size of which is any one of a plurality of sizes, while said body is propelled along a path in the direction of its length, such machine comprising, in combination, two surface conditioning units, each of said units beng constructed to condition at least two adjacent longitudinal surfaces of said body; means supporting said units in a longitudinally spaced apart and oppositely disposed relationship adjacent said body; means for transversely moving at least one of said units toward and away from said path to vary the transverse position of at least one of said units in accordance with the size of said body.

2,325,107
FISH LURE
Walter G. Burns, Fort Wayne, Ind.
Application November 4, 1940, Serial No. 364,166
17 Claims. (Cl. 43—39)



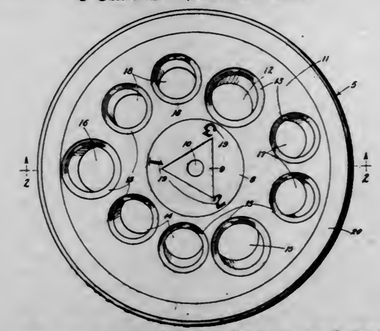
1. A fish bait consisting of a hollow chambered body formed of thin flexible material, provided with a water-containing chamber therein and an opening in its forward end for ingress and egress of water to and from said chamber and having formed in its belly portion a longitudinal crevice to provide a pocket open to the exterior of the body and closed to said chamber, a fish hook located in said pocket with its shank closely underlying the crest thereof, the eye of said hook extending forwardly for convenient attachment thereto of a line, a fastener disposed astride the crest of the pocket and shank having clinched relation therewith to permanently secure the hook and pocket together against relative axial and angular movement of the parts where thus secured, and flexors secured exteriorly to the wall of the body having flaring portions that extend outwardly from the wall wherefore to cause buckling of adjacent regions of the wall when the bait is trolled, thus to simulate animation.

2,325,108
AIRCRAFT CONTROL DEVICE
Bert G. Carlson, Erieside, Ohio, assignor to Jack & Heintz, Inc., Bedford, Ohio, a corporation of Ohio
Application April 16, 1942, Serial No. 439,213
8 Claims. (Cl. 244—78)



1. In combination in an automatic pilot for aircraft, air spun directional and horizon gyros and air pick-off operated air relays and hydraulic rudder and aileron operating servo motor systems including a follow-up system for each and motor actuating balanced oil valves, an adjustable spring-loaded fluid spun gyro and balanced oil valve operated thereby, a control knob and associated members for adjusting the spring biasing of said fluid spun gyro for predetermining and regulating the flow of pressure oil to said rudder servo motor and consequently the amount and rate of rudder operation, hydraulic means including spring balanced pressure controlling pistons interposed in hydraulic pressure responsive lines interconnecting said rudder and aileron servo motors for automatically effecting a substantially simultaneous rudder and aileron application, the latter varying with the rudder load and correct angle of bank, a control knob and associated shut-off valve for confining pressure fluid flow to said fluid spun gyro assembly for effecting said turn and for distributing flow of pressure fluid to said hydraulic system for normal straightaway flight and a control knob and associated differential gearing for operating said air spun gyro, air pick-off and rudder follow-up system.

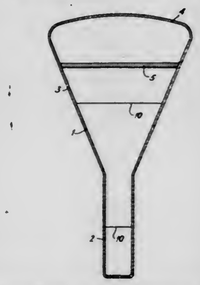
2,325,109
GAME DISK
Elmer W. Christy, Cincinnati, Ohio
Application May 8, 1942, Serial No. 442,211
3 Claims. (Cl. 273—128)



1. A game element comprising a thick flat bottomed disk shaped body having in its top a thumb hole and a relatively opposed pair of finger holes, all of said holes being relatively deep and sub-

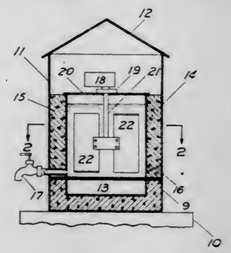
stantially equidistant from the vertical axis of the disk and undercut toward said axis the centers of the finger holes also being disposed equidistant from and on opposite sides of a diameter of the disk which passes through the center of the thumb hole.

2,325,110
ELECTRON DISCHARGE DEVICE, INCLUDING FLUORESCENT SCREEN
Ronald Henry Colborne, West Drayton, England, assignor to Electric & Musical Industries Limited, Hayes, Middlesex, England, a company of Great Britain
Application November 22, 1940, Serial No. 366,563
In Great Britain November 23, 1939
5 Claims. (Cl. 250—164)



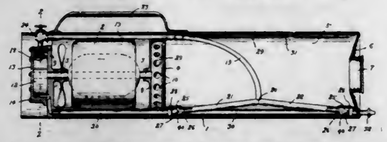
1. The method of improving the operation of a cathode ray tube wherein is provided a luminescent screen which comprises the steps of depositing within the tube in the vicinity of said screen an alkali compound chosen from the group of radicals consisting of hydroxides, halides, nitrates, and organic salts reducible to oxides, and depositing a layer of said alkali compound upon the luminescent screen by baking said tube.

2,325,111
PROCESS FOR PRESERVING JUICE
Frank H. Collins, Orange, Calif., assignor to California Fruit Growers Exchange, Los Angeles, Calif., a corporation of California
Original application March 3, 1941, Serial No. 381,447. Divided and this application September 8, 1941, Serial No. 409,974
2 Claims. (Cl. 99—155)



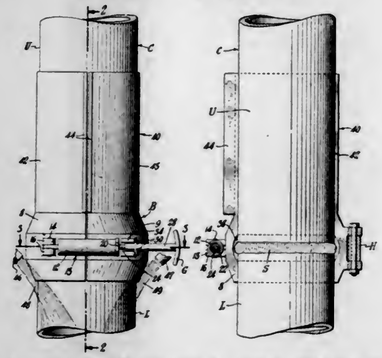
1. A process for maintaining citrus juice in substantially fresh condition comprising maintaining the temperature of the juice within a range of from about 32° F. to about 34° F., and maintaining said juice in continuous non-turbulent movement, whereby the juice is effectively deaerated and maintained in a relatively homogeneous condition.

2,325,112
SPRAYER
Nicholas A. Constantine, Duluth, Minn.
Application April 11, 1941, Serial No. 388,075
3 Claims. (Cl. 299—88)



1. A motor-driven hand sprayer comprising an elongated casing, a division wall therein dividing to said pump, a discharge from said pump lead the same into a motor and a liquid compartment, a motor within the motor compartment, a compression pump driven by said motor, means for conducting liquid from the liquid compartment to said compression pump, means admitting air ing through said casing and terminating in a spray nozzle externally thereof, for the discharge of mixed liquid and air from said spray nozzle, and a relatively small bypass leading from said discharge to said liquid chamber to prevent the formation of a vacuum therein.

2,325,113
METHOD FOR TREATING WELDS
James R. Craig, Kenmore, N. Y., assignor to The Linde Air Products Company, a corporation of Ohio
Application January 23, 1940, Serial No. 315,195
7 Claims. (Cl. 148—21)

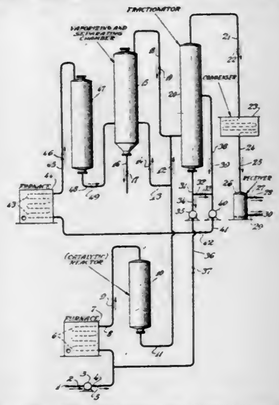


1. A method of cooling a newly welded metal joint between metal members which comprises directing one or more streams of cooling fluid against one of said members adjacent to, but not directly against, such joint, while said joint is temporarily covered to exclude such cooling fluid from direct contact therewith.

2,325,114
HYDROCARBON CONVERSION
Roland B. Day and Elmer R. Kanhofer, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application August 21, 1940, Serial No. 353,519
6 Claims. (Cl. 196—48)

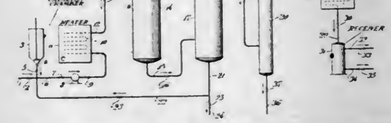
1. A process for the conversion of hydrocarbon oil which comprises passing vapors of said hydrocarbon oil at a cracking temperature in contact with a mass of cracking catalyst, fractionating the resulting catalytic conversion products to separate fractionated vapors, light reflux condensate, and heavier reflux condensate, dividing

said heavier reflux condensate into portions of like composition, supplying one of said portions to the catalytic conversion step, commingling another of said portions with said light reflux condensate and subjecting the mixture to non-



catalytic thermal conversion treatment, and supplying vaporous reaction products from said non-catalytic thermal treatment to the fractionation step.

2,325,115
DESULPHURIZING HYDROCARBON DISTILLATE
Gustav Egloff, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application April 25, 1940, Serial No. 331,571
6 Claims. (Cl. 196—30)

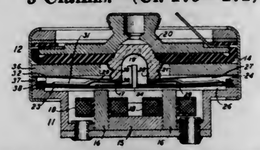


1. A process for refining sulphurous hydrocarbon oils which comprises continuously passing a stream of the oil through a heating zone, adding to the oil stream being supplied to the heating zone approximately 0.1–5% of fresh finely divided desulphurizing catalyst, subjecting the stream to desulphurizing conditions of temperature and pressure in the heating zone, subsequently separating the heated material into vapors and a residue containing partially spent desulphurizing catalyst, and recirculating to the heating zone a sufficient quantity of said residue to maintain in the oil stream passing through said zone a catalyst concentration of the order of 5–25%.

2,325,116
METHOD OF DETERMINING THE STRAIN CONCENTRATION IN RIGID ARTICLES
Greer Ellis, Cambridge, Mass., assignor to Magnaflux Corporation, Chicago, Ill., a corporation of Delaware
No Drawing. Application August 3, 1940, Serial No. 351,221
1 Claim. (Cl. 73—51)

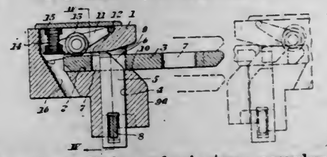
The method of determining the relative distribution of elastic strains as between a plurality of areas of a rigid article of relatively high elastic limit which comprises applying to said areas a film-forming composition including a brittle resin plasticized barely sufficiently to prevent crazing under testing conditions and drying by evaporation to form a uniformly brittle film capable of crack formation under the influence of gradually increased loads, said composition being applied in amounts and in a manner such as after drying of said composition to coat said areas with a brittle film having a uniform thickness of from 0.003 to 0.008 inch, drying said composition to effect the formation of brittle film having a thickness of from 0.003 to 0.008 inch, and subjecting said coated article to gradually increased known loads initially incapable of effecting crack formation in said film over the areas to be tested, until the successive occurrence of one and the same stage of crack formation in said film over the areas to be tested has been effected, whereby the relative strain concentration in the areas of said rigid article being tested may be computed, being inversely proportional to the loads effecting said stage of crack formation in the brittle film coating said areas.

2,325,117
VIBRATION TRANSLATING DEVICE
George J. V. Faley, Rutherford, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 18, 1941, Serial No. 415,599
5 Claims. (Cl. 179—171)



1. A vibratory element for acoustically coupling vibratory translating devices comprising two diaphragms, a thin, U-shaped clamping ring holding the diaphragms together in spaced relation and radial slots in the ring for producing a leakage path around the vibratory element.

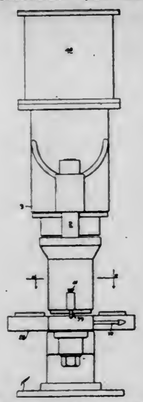
2,325,118
RAILROAD CAR LINK-AND-PIN TYPE COUPLER
Wilford E. Fiegle, Hammond, and Hans Langbehn, Crown Point, Ind.
Application December 19, 1941, Serial No. 423,598
1 Claim. (Cl. 213—189)



A railroad car link-and-pin type coupler drawhead having a horizontal flat surface for the link to rest on when inserted in the drawhead, and a vertical pin opening extending through said surface adjacent the mouth of the drawhead with a link-depressible vertical pin riding in this opening and having means for urging it upwardly so it automatically enters the link pin opening when the link is forced into the drawhead, the drawhead being characterized by having a vertically swinging lever fulcrumed above the flat link-resting surface and extending over this sur-

face back into the drawhead from its mouth with a vertically swinging portion provided with a roller displaceable by and engaging with the link when it is forced into the drawhead, and a spring for elastically urging this lever downwardly onto the top of the link when it is inserted in the drawhead with the pin in the link pin opening, the spring having sufficient strength to counterbalance the link against tilting on its flat surface when its other end is not inserted in a mating drawhead, the flat surface inwardly of the drawhead adjacent the end of its active pin resting portion having a downward clean-out opening.

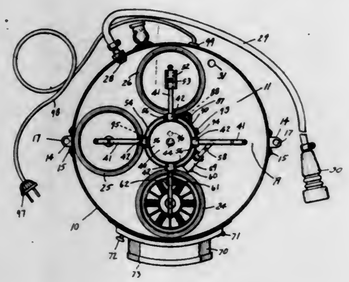
2,325,119
SLUG PRODUCING PRESS
Paul E. Flowers, Mount Gilead, Ohio, assignor to The Hydraulic Development Corporation, Inc., Wilmington, Del., a corporation of Delaware
Application December 22, 1941, Serial No. 424,004
16 Claims. (Cl. 18—20)



1. In combination in a press, a main cylinder, an auxiliary cylinder reciprocably mounted in said main cylinder and provided with a cylindrical extension, a press plunger reciprocably mounted in said auxiliary cylinder, a forming cylinder for receiving material to be briquetted, means for advancing said auxiliary cylinder toward said forming cylinder to cause said extension to form a substantially air tight chamber with said forming cylinder, means for creating a vacuum in said chamber for de-airing the material to be briquetted, and means for causing said plunger to exert a pressing action upon material in said forming cylinder.

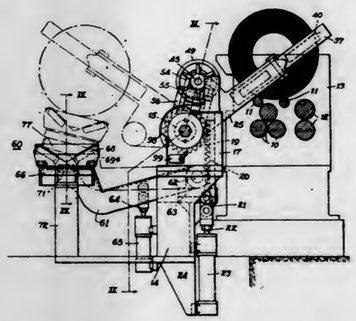
2,325,120
DEVELOPING APPARATUS
Harry D. Forse, Anderson, Ind.
Application September 9, 1940, Serial No. 355,963
9 Claims. (Cl. 95—89)

1. In a photographic element developing machine, a housing, a plurality of liquid container arrangements therein arranged circularly about an axis, the combination of an interrupted circular supporting surface, the axis thereof being coincident with the first mentioned axis, the interruptions being of depressed character and elongated for the purpose described, and arranged in arcuately spaced relation in accordance with container arrangement spacing, a coaxial reversible shaft having a spiral thread, a cooperating threaded member thereon, an arm projecting therefrom for movement in the elongated interruptions and upon the circular surface, and a photographic element holder carried by the arm for movement into and out of the container arrangements and movement from one arrangement to another, the interruptions being spaced equidistantly, other arms similar to the first mentioned arm and similarly carried, the



spacing of the arms being equal to that of the interruptions, the total arm number being that of the number of interruptions, and means adjacent the surface and at the entrance to one of the interruptions and successively engageable by each of the arms for reversing shaft rotation for lowering of the arms in the depressions.

2,325,121
COIL HANDLING APPARATUS
Malcolm H. Freeman, Maryville, Tenn., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
Application April 23, 1940, Serial No. 331,134
22 Claims. (Cl. 214—1)

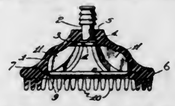


1. In a transferring apparatus, in combination, a pair of opposed transferring members mounted for swinging movement on a horizontal axis, manually operable adjusting means carried by said members for moving them along said axis toward and away from each other to vary the spread therebetween to a preselected distance, means for swinging said members about said axis, to move a work piece carried by said members in an overhead arcuate path, a receiving station and a discharge station located at opposite ends of said arcuate path, and reciprocable means connected to said adjusting means for moving said members axially from their adjusted positions into and out of clamping engagement with the end of the work piece.

2,325,122
TREATMENT OF BUTANE
Vladimir N. Ipatieff and Herman Pines, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application March 11, 1940, Serial No. 323,386
1 Claim. (Cl. 260—683.5)

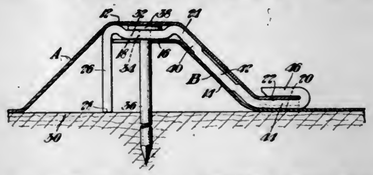
A process for producing isobutane which comprises subjecting normal butane to the action of boron fluoride under conditions and in the presence of an amount of hydrogen fluoride such that isomerization of normal butane constitutes the principal reaction in the process.

2,325,123
SPRAY HEAD
Stanley Isenberg, Chicago, Ill.
Application March 2, 1942, Serial No. 433,023
3 Claims. (Cl. 15—128)



1. In a liquid spray device, a bell-shaped head formed of rubber or similar material having a small perforation in its crown, a perforated disc carried by said head, bristles integral with said head disposed about said disc in a plane parallel to and beyond said disc, and ribs running from said crown perforation to said disc.

2,325,124
WEATHER SURFACE COVERING
William R. Gardner, Gary, Ind.
Application March 25, 1942, Serial No. 436,185
4 Claims. (Cl. 108—33)



1. A weather surface covering comprising a pair of juxtaposed sheets with overlapping marginal portions, the marginal portion of the upper sheet being bent to form an outwardly projecting V-like ridge, the margin of the lower sheet having portions bent into substantial parallelism with said V-ridge, a clip interposed between the overlapping portions of the said juxtaposed sheets, said clip having a nail extending therethrough and a leg substantially parallel therewith, the lower sheet having a slotted edge portion to receive the nail and the clip having a foot contacting the upper surface of a lower sheet with a bent extremity overlapping the upper surface of the marginal edge of the upper sheet.

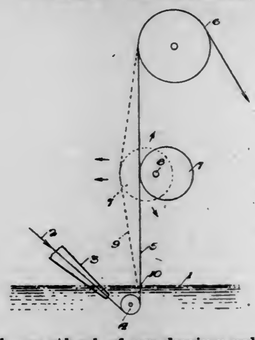
2,325,125
HAND TOOL FOR TESTING SPRINGS
Edgar W. Gent, Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 4, 1941, Serial No. 396,541
3 Claims. (Cl. 265—18)

1. A hand tool for gauging spring pressures comprising, in combination, a tubular handle having a window therein, a leaf spring secured at one end within the handle and having a free end portion projecting from the other end of said handle, a slide bar movably supported within the handle and having indicia thereon for separate observance through said window, a shoe supported on said slide bar and frictionally en-



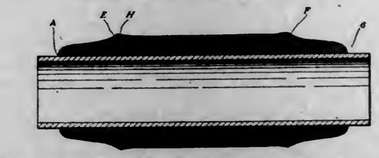
gaging said leaf spring, said shoe and said leaf spring cooperating to resiliently press said slide bar into frictional engagement with said handle and said shoe serving as a movable fulcrum for said leaf spring.

2,325,126
METHOD OF COATING STRIPS
Jean V. Giesler, Knoxville, Tenn., assignor, by mesne assignments, to Reynolds Metals Company, New York, N. Y., a corporation of Delaware
Application June 22, 1940, Serial No. 341,944
8 Claims. (Cl. 117—114)



1. In the method of producing relatively thick and uniform coatings of metal on strips or the like of base metal passed continuously through a molten bath of the coating metal, the steps of moving the strip being coated through the bath and out of the molten metal at a large angle on the order of a right angle to the surface of the bath and maintaining the strip within the molten metal at and adjacent to the surface thereof under a substantial vibration at an angle to the face of the moving strip so that the surface of the molten metal where the strip is withdrawn therefrom is kept under substantial agitation.

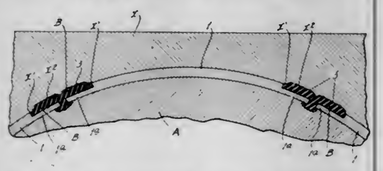
2,325,127
YARN PACKAGE
Ernest Knight Gladding, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application December 21, 1940, Serial No. 371,107
11 Claims. (Cl. 242—159)



1. A wound package of textile yarn from which the yarn can be removed by drawing the same

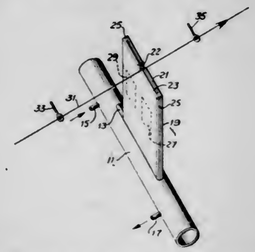
from one end thereof comprising a yarn support and yarn windings at least some of which adhere to each other through the medium of a dry adhesive size, characterized in that a line drawn in any axial plane of the package between points representing the approximate limits of an end of the package, form, with the yarn supporting surface, an angle which substantially embraces the end of the yarn package and which is not in excess of 65°, being further characterized in that no portion of the said package end has tangents forming angles of 90° or greater with the axis of the package, the sum of those portions at said end of the package, which have tangent angles between 65° and 90°, not exceeding 0.15 inch.

2,325,128
BALL
John H. Grady, St. Louis, Mo., assignor to J. H. Grady Manufacturing Company, St. Louis, Mo., a corporation of Missouri
Application January 22, 1941, Serial No. 375,437
10 Claims. (Cl. 273—60)



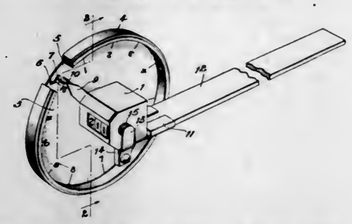
6. A baseball provided with a spherical body portion of substantially rigid construction, cover pieces of horse hide secured by an adhesive to said body portion with their edge portions arranged on the exterior of said body portion, and a resilient molded substance arranged in overlapping relation with the edge portions of said cover pieces over the joints between the same and constructed so as to simulate a sewed seam.

2,325,129
YARN FINISHING
Vernal R. Hardy, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application November 1, 1941, Serial No. 417,431
5 Claims. (Cl. 91—43)



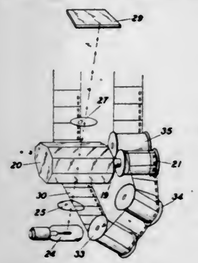
1. Apparatus for applying a liquid to a yarn which comprises a reservoir, a liquid applicator projecting from within said reservoir, said applicator comprising solid confining walls about a capillary passage of a predetermined given size, said capillary passage adapted to draw the liquid from the reservoir solely by means of capillary attraction, and means for guiding said yarn across the upper surface of said confining walls into contact with the liquid in said capillary passage.

2,325,130
MEASURING DEVICE
Frank B. Harmon, Clifton, N. J., assignor of one-half to Irving M. Blum, Hewlett, N. Y.
Application May 23, 1941, Serial No. 394,746
5 Claims. (Cl. 33—141)



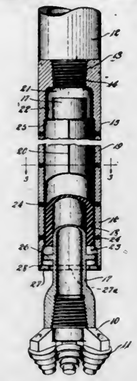
1. A portable, light-weight, pocket size measuring device including a rotary measuring wheel, a counter having a shaft fixedly joined at one end only to the center of said wheel, a pin extending laterally from said wheel and movable therewith, and a stationary flexible spring secured at one end to said counter and projecting into the path of movement of said pin, whereby rotation of said wheel will cause said pin to engage and pass by said spring and produce an audible indication, said wheel having a series of circularly spaced scale marks, and a stationary pointer secured to said counter and cooperating with the scale marks on said wheel, said spring and pointer being substantially coextensive in length and said spring being located between said pointer and wheel.

2,325,131
CONTINUOUS MOTION OPTICAL APPARATUS
William H. Harrison, Los Angeles, Calif.
Application June 21, 1940, Serial No. 341,712
10 Claims. (Cl. 88—16.8)



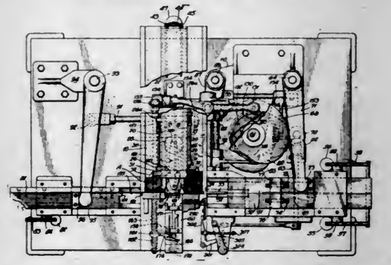
1. A continuous-motion viewing device which includes: a base; an optical system comprising a light source, lens means, a rotative transparent refractive polygonal block and a screen, optically aligned with one another, said screen being supported by a tubular hood mounted on said base above said refractive block; a film sprocket mounted on the same shaft as said block and in juxtaposition therewith; a film spool mounted on said base; a film gate for guiding a strip of film from said spool past said refractive block and through said optical path; an adjustable bracket mounted on said base carrying roller means adapted to guide said film from said film gate to said sprocket and adapted to form a loop in said film during its said travel; means for holding said film in engagement with said sprocket; and a take-up spool mounted on said base and adapted to receive said film passing over said sprocket.

2,325,132
PROTECTOR FOR DRILL STEMS
Fred L. Haushalter, Akron, Ohio, and Leon L. Horchitz, Los Angeles, Calif., assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application October 28, 1941, Serial No. 416,818
4 Claims. (Cl. 255—28)



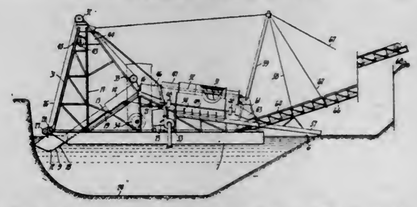
1. A protector for a rotary drill stem comprising a pair of hollow structures arranged one within the other and spaced-apart from each other, one of said structures being adapted and arranged for mounting on the drill stem, and the other being adapted and arranged for driving a drill tool, a circumferentially discontinuous sleeve secured within the outer structure, and a body of resilient rubber-like material mounted between said sleeve and the inner structure and secured to both and comprising the sole connecting means therebetween, said body having a natural frequency of vibration less than the impressed frequency of vibration of the drill tool.

2,325,133
BLADE LOADING MACHINE
Hermann Hill, Bridgeport, Conn., assignor to Magazine Repeating Razor Company, Bridgeport, Conn., a corporation of New Jersey
Application May 28, 1942, Serial No. 444,864
10 Claims. (Cl. 226—14)



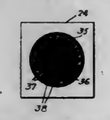
3. A machine for loading blades and the like into trays having openings in their bottom walls, comprising a platform, a tongue provided with a notch in its end and mounted for reciprocation perpendicularly to the platform, means for stacking blades against the tongue, means for pressing the stack against the tongue, a reciprocably mounted slide on the platform for advancing an empty tray to enclose the stack, a second slide mounted on the first slide, means for projecting the second slide through the aperture in the tray and through the notch in the tongue for clamping the stack against the pressing means, said means comprising a lever pivotally mounted on the first slide and having two arms, one of which bears against the end of the second slide to advance it and the other of which bears against a fixed portion of the platform, the lever being under spring tension against said second slide and against said fixed portion, means for advancing the first slide for carrying the empty tray to enclose the stack, and means for withdrawing the tongue after the second slide has been fully advanced and while the first slide is advancing the tray to enclose the stack.

2,325,134
DREDGE
Herbert H. Hopkins, San Francisco, and Gus E. Becker, Fresno, Calif.
Application October 23, 1940, Serial No. 362,348
5 Claims. (Cl. 37—71)



5. A dredge comprising a barge having a superstructure, a carriage, rails on said superstructure to guide said carriage for rising and falling movement on said superstructure, a chute-like dipper pivotally and slidably mounted on said superstructure, means for so mounting the dipper pivoted on said superstructure and slidably engaging said dipper in a position to be protected from receiving material discharged from said dipper and a cable trained around said carriage and fastened to said dipper for moving said dipper separately and in unison with said carriage.

2,325,135
PRINTING MEMBER
Owen R. Huggins, South Norwalk, Conn., assignor to Linotone Corporation, a corporation of New York
Original application March 3, 1938, Serial No. 193,635. Divided and this application August 9, 1940, Serial No. 351,929
1 Claim. (Cl. 101—401.2)

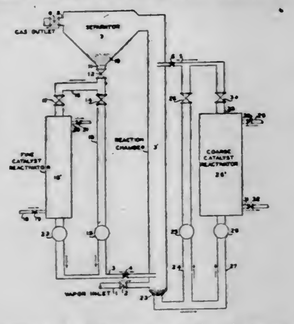


An intaglio printing member having a reproduction of a design created thereon in the form of a color carrying groove which defines the outline of the design and a plurality of color carrying areas positioned within and spaced from said groove by a color retarding dam.

2,325,136
PROCESS FOR EFFECTING CATALYZED REACTIONS
Louis S. Kassel, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application January 23, 1939, Serial No. 252,358
9 Claims. (Cl. 196—10)

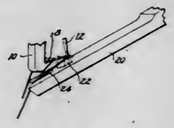
1. In processes involving catalytic vapor

phase reactions wherein a vaporous reactant is passed upwardly through a reaction zone in which the catalytic reaction is effected, the improvement which comprises circulating solid catalyst particles in a local cycle which includes said zone, said particles being of sufficient fineness to be carried upwardly with the ascending vaporous reactant; during the cyclic circulation of said particles, introducing the same to the lower portion of said zone for ascension with the reactant, withdrawing the ascended particles with reaction products from the upper portion of said zone and separating the same from re-



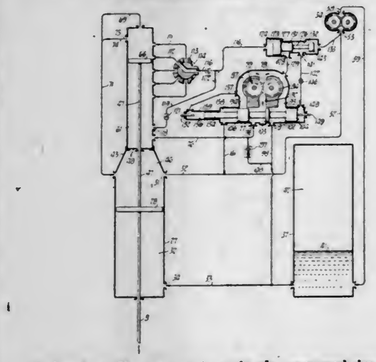
action products for return to the lower portion of said zone; simultaneously circulating additional solid catalyst particles in a second cycle which also includes the reaction zone, said additional particles being of sufficient coarseness to descend through said zone counter-current to the rising vaporous reactant; and, during the cyclic circulation of said additional particles, introducing the same to the upper portion of said zone and withdrawing settled particles from the lower portion of the reaction zone for return to the upper portion thereof.

2,325,137
SHOE UPPER LACING MACHINE
Francis A. Keaney, Brockton, Mass., assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J., a corporation of New Jersey
Application June 24, 1940, Serial No. 342,043
4 Claims. (Cl. 112—5)



1. In a machine for lacing shoe uppers, the combination with upper clamping means, a reciprocating needle for inserting a series of loops of cord in an upper secured by the clamping means, and a looper provided with looping and spreading elements having substantially parallel points movable together into each needle loop and relatively in a direction transverse to the movement in entering a needle loop to separate the sides of the loop, of a cutter mounted in the machine and guided for movement substantially parallel to the movement of the looper while entering the needle loop and along a suitable path to cause its sharpened edge to pass between the points of the looping and spreading elements of the looper while holding the final loop of a lacing in spread condition to sever the cord of the loop.

2,325,138
HYDRAULIC PUMPING JACK
Samuel Clyde Kyle, San Francisco, and Ira Morgan White, Oakland, Calif., assignors to The Pelton Water Wheel Company, San Francisco, Calif., a corporation of California
Application April 9, 1940, Serial No. 328,686
1 Claim. (Cl. 121—132)



A hydraulic pumping jack comprising a polish rod, a balancing cylinder of predetermined diameter coaxial therewith, a balancing piston in said balancing cylinder and fast on said rod to provide a balancing chamber below said piston and retarding chamber above said piston, an actuating cylinder of smaller diameter coaxial with said rod, an actuating piston in said actuating cylinder to provide an actuating chamber below said actuating piston and another chamber above said actuating piston, means for supplying working fluid under pressure to said actuating chamber and means for supplying fluid under a lower pressure to said balancing chamber, means including a restricted conduit for withdrawing fluid from said retarding chamber, a conduit having a diameter relatively large with respect to said first-mentioned conduit and connecting said retarding chamber and said other chamber and means for connecting said working chamber with said retarding chamber and said other chamber upon an upward stroke of said actuating piston above the normal maximum stroke thereof, said restricted conduit constituting the sole outlet for fluid from said retarding chamber and said other chamber during said upward stroke above said normal maximum stroke.

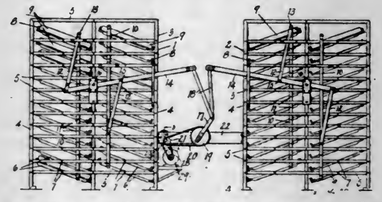
2,325,139
APPARATUS FOR MAKING STRIP MATERIAL
Charles W. Leguillon and Edward A. Davis, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application September 2, 1942, Serial No. 456,986
6 Claims. (Cl. 164—49)



5. In apparatus for making determinate lengths of plastic strip material, means for advancing the material endwise in strip form, means for feeding a supporting form beneath the strip material in the same general direction as that of the strip material and into supporting re-

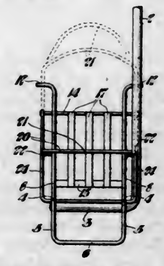
lation with the leading end of the strip material at the same speed as the speed of advance of said material, means for severing a predetermined length of the material from the advancing strip, and means for accelerating the speed of the supporting form and the severed length of the strip material thereon to space said length from the unsevered strip material.

2,325,140
TURNING RACK FOR INCUBATORS
Charles A. Lindberg, White Pigeon, Mich., assignor to George Higgins, White Pigeon, Mich.
Application August 29, 1941, Serial No. 408,719
6 Claims. (Cl. 119—44)



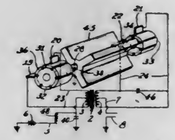
1. An egg turning incubator rack construction comprising a pair of frames each having a pair of tiers of shelves, each tier comprising a plurality of substantially horizontal shelves pivoted medially of said shelves on said frame on parallel axes, the axes of each tier being vertically alined, a rocker arm pivoted on each frame on an axis parallel with the axes of tilting of said shelves at a point between said tiers of shelves, a crank disposed between said frames and rotatable on an axis parallel with the axes of tilting of said shelves, a link connecting each of said rocker arms to the free end of said crank, whereby on rotation of said crank said rocker arms are rocked, a vertical member for each tier of shelves having pivotal connections to each shelf of its tier for simultaneously tilting said shelves upon vertical movement, and a pair of links for each frame, each having a pivotal connection at one end to one of said vertical members and at the other end to the rocker arm pivoted to said frame, the pivotal connections between the rocker arm and the pair of links of each frame being spaced equally from the pivot point of said rocker arm and on opposite sides thereof, and a unidirectional motor and means operatively connecting said motor to said crank to rotate the same.

2,325,141
CHAIR
Elmer J. Lloyd, Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
Application November 28, 1939, Serial No. 306,561
1 Claim. (Cl. 155—189)



An aerial ski tramway chair comprising a substantially vertically extending member adapted to be secured to the traveling rope of the tramway, said member being provided with a substantially right-angular extension in spaced relationship with respect to said rope, a seat secured to said right-angular extension, a back rest, an arm rest secured to said seat and to said back rest, a rigid loop member having its ends pivotally connected to said back rest, said rigid loop member being adapted to freely swing into and out of such position that the seated occupant of the chair is enclosed thereby, and at least one laterally-extending member carried by said back rest and adapted to restrain said rigid loop member against excessive backward swinging movement, said last-named member being of sufficient size to also function as a handle.

2,325,142
CURRENT INTERRUPTING DEVICE
Edmund G. Lodge, St. Marys, Pa., assignor to Stackpole Carbon Company, St. Marys, Pa., a corporation of Pennsylvania
Application May 8, 1942, Serial No. 442,173
23 Claims. (Cl. 171—97)



23. In an electric circuit for converting direct current into alternating current and rectifying the latter, the combination with center tapped primary and secondary coils, the center tap of the primary coil being adapted to be connected to a source of direct current, and a pair of fixed contacts electrically connected to the opposite ends of each coil, of rotary contact means adapted to be connected to said source of direct current and adapted when rotating to make electrical contact alternately with each of the contacts connected to the primary coil, rotary contact means adapted when rotating to make electrical contact alternately with each of the contacts connected to the secondary coil, a magnetic core common to both coils and having two ends facing each other, and an armature rotatably mounted between said core ends and adapted to be rotated by the periodic magnetic attraction of said core, said armature being operatively connected to said rotary contact means for rotation thereof.

2,325,143
DRESS CONSTRUCTION
Harry D. Lyttle, New York, N. Y.
Application January 30, 1941, Serial No. 376,693
1 Claim. (Cl. 2—74)

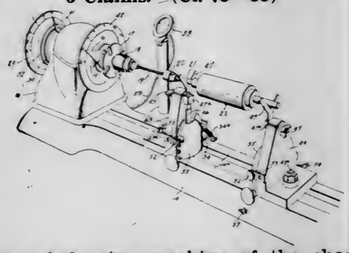
In a garment, a blouse and a skirt, the back of said skirt being initially free from the blouse and having its upper end portion overlapping the outer face of the lower end of the back of the blouse an appreciable distance permitting shifting of the skirt upwardly and downwardly to adjusted positions without moving out of overlapping relation to the blouse, a binding secured along the lower edge of the back of said blouse in straddling relation thereto, a facing strip secured along the inner face of the upper edge portion of the back of said skirt, and stitches along the

upper edge of the back of said skirt adapted to be ripped out and permit vertical adjustment of



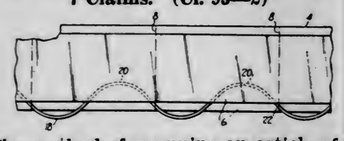
the back of the skirt relative to the overlapped portion of the blouse.

2,325,144
DYNAMIC BALANCING MACHINE
Richard C. Marsh, Detroit, Mich.
Application December 13, 1940, Serial No. 369,966
3 Claims. (Cl. 73—53)



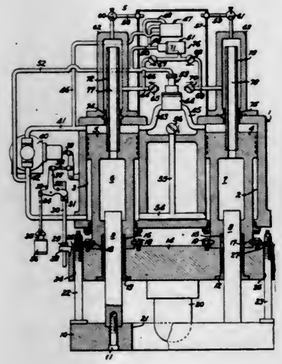
1. In a balancing machine of the character described, including means for rotating a member to be balanced, and means for electrically indicating the amount of unbalance, the combination of a fixed base, adjustable brackets carried by said base, a pendulum pivoted intermediate its ends to each bracket, a V shaped bearing member at the upper end of each pendulum, a magnet on the lower end of each pendulum, and a coil on each bracket adjacent the plane of travel of a magnet, said coils being electrically connected to said first named electric indicating means.

2,325,145
METHOD OF FORMING PACKAGES
William T. Martin, Canajoharie, N. Y., assignor to Beech-Nut Packing Company, Canajoharie, N. Y., a corporation of New York
Original application April 18, 1937, Serial No. 135,655. Divided and this application November 19, 1941, Serial No. 419,711
7 Claims. (Cl. 93—2)



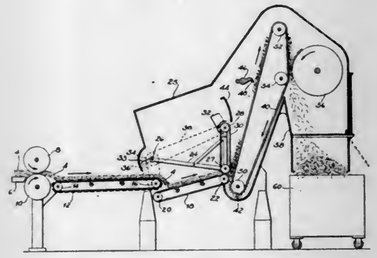
1. The method of wrapping an article of cylindrical form which comprises arranging a waxed paper strip and an unwaxed paper strip one upon the other, the unwaxed paper strip being narrower and having its longitudinal edges spaced from the longitudinal edges of the waxed paper strip, applying a tearing strip in a sinuous line made up of oppositely directed curves alternately arranged with corresponding curved portions thereof positioned between the paper strips and the remaining portions of the tearing strip projecting beyond one edge of the unwaxed paper strip, applying heat to the two paper strips so as to melt the wax on the inner side of the waxed paper strip, firmly pressing the two strips together, allowing the wax to cool so as to secure the tearing strip in position between the two paper strips, cutting the composite paper strips and tearing strip thus formed transversely so as to form individual wrappers, each wrapper having a tearing strip having a curved portion extending between the two paper sheets and the ends thereof projecting beyond one longitudinal edge of the unwaxed paper sheet, the portion of the tearing strip between said sheets extending substantially one half the length of the composite sheet, wrapping each individual composite wrapper approximately twice around the peripheral surface of the article, and tucking in the ends of the wrapper over the ends of the article with one end of the tearing strip projecting out from one of the tucked in ends of the wrapper.

2,325,146
DRAWING PRESS
Johan A. Muller, Dayton, Ohio, assignor to The Hydraulic Development Corporation, Inc., Wilmington, Del., a corporation of Delaware
Application April 29, 1942, Serial No. 441,042
14 Claims. (Cl. 113—45)



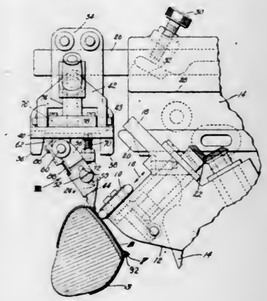
1. In combination in a drawing press, a reciprocable press platen, fluid operable plunger means for actuating said platen, said plunger means having a cavity therein confining a clamping cylinder, blankholder means for holding a work piece while it is being shaped by pressure exerted on said press platen, and clamping plunger means reciprocable in said clamping cylinder for actuating said blankholder means, said clamping plunger means being arranged to create pressure in said clamping cylinder in response to the movement of said press platen toward said blankholder means.

2,325,147
FIBER PRODUCING APPARATUS
William E. Neff, Richmond, Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application June 13, 1941, Serial No. 397,885
2 Claims. (Cl. 19—81)



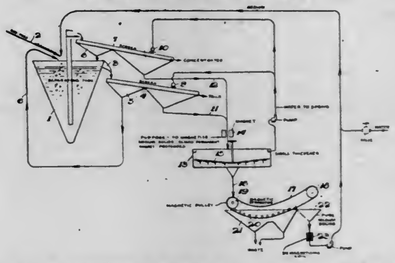
1. An apparatus suitable for disintegrating a moist, compact, matted blanket of fibers into loose bunches of fibers, which comprises conveyor means for moving said blanket endwise against an upwardly moving toothed disintegrating element, a support frame pivoted on an axis spaced from said element, a roller on the end of said frame, said roller positioned to rest on said moving blanket closely adjacent to said element, a second roller on said frame spaced above said blanket, and a belt positioned about said rollers to rotate therewith, said belt adapted to aid in maintaining the loose bunches of fibers in contact with said element and to return excess bunches of fibers to said matted blanket.

2,325,148
SHOE-BOTTOM-COATING MACHINE
John R. Oliver, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application October 9, 1940, Serial No. 360,478
1 Claim. (Cl. 91—43)



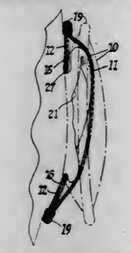
In a shoe-coating machine, a depending nozzle for applying cement to one face of a portion of a shoe, said nozzle having a tapered end portion provided with a side face across which may slide the face to be coated, said nozzle face having an outlet groove extending diagonally along it from a point adjacent to the lower end of the nozzle transversely and upwardly whereby a piece of work drawn across said groove tends to pull the cement upwardly therein.

2,325,149
PROCESS OF SEPARATING ORES
Victor Rakowsky, Joplin, Mo., Grover J. Holt, St. Paul, Minn., and Ray W. Arms, Evanston, Ill., assignors to Minerals Beneficiation Incorporated, Chicago, Ill., a corporation of Delaware
Application July 29, 1940, Serial No. 348,312
6 Claims. (Cl. 209—39)



1. In a process of separating ore particles, the steps of introducing said particles into a separating tank containing a liquid separating medium comprising water and comminuted magnetic solids and in which medium the lighter ore particles or tails float and the heavier particles or concentrates sink, separately removing the tails and concentrates from the tank, each of them accompanied with some of the medium, screening the medium from the tails and concentrates, and returning said screened medium to the separating tank leaving the tails and concentrates with some of the medium and associated slimes adhering thereto, washing the adhering medium and associated slimes from the tails and concentrates, magnetizing the solids in said wash water, collecting the magnetized solids in a thickener, then passing the same with a flow of water to a belt passing around a magnetic pulley whereby the said magnetic solids are attached to and pass over the pulley with the belt, passing the said belt with the magnetic solids adhering thereto under a series of magnets having alternate polarities, delivering the said solids from the belt to a demagnetizing coil and returning said solids to the separating tank.

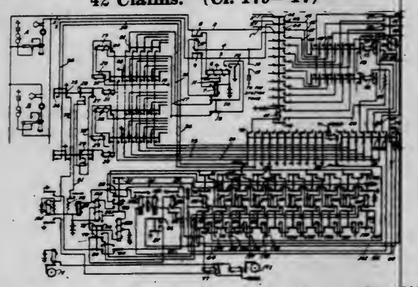
2,325,150
EAR PROTECTING DEVICE
Max Sahlmann, New York, N. Y., assignor to Losala, Inc., New York County, N. Y., a corporation of New York
Application May 22, 1942, Serial No. 444,030
3 Claims. (Cl. 2—209)



1. An ear covering or protecting device, substantially comprising a full portion larger than the ear and to form an outer cover thereof, said full portion of flexible material as exemplified by fabric and felt, another portion provided with an opening through which the ear can be slipped, said other portion tightly attached to said full

portion near its circumference and substantially consisting of fibrous material as exemplified by fabric and felt, and a flat and substantially elastic, C-shaped member associated with said other portion, and leaving free its opening, the adjacent ends of said member connected so as to reduce their distance and bend said member, thereby rendering it capable of transverse snap action.

2,325,151
100-LINE ALL RELAY SYSTEM
Norman H. Saunders, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a corporation of Illinois
Application December 2, 1940, Serial No. 368,175
42 Claims. (Cl. 179—17)



1. In a relay automatic exchange, a plurality of link circuits, a relay allotter for assigning idle link circuits to calling lines, a pair of relays in said allotter, means controlled from said link circuits for alternately energizing and deenergizing said relays in response to successive calls, a plurality of assignment relays in said allotter individual to the link circuits, respectively, and circuits for the odd and even numbered relays of said plurality controlled, respectively, at the front and back contacts of one of said first mentioned relays.

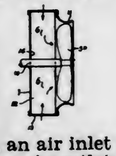
2,325,152
METHOD OF PRESERVING RUBBER
Robert L. Sibley, Nitro, W. Va., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application June 21, 1941, Serial No. 399,231. In Canada February 15, 1939
18 Claims. (Cl. 260—810)

1. The method of preserving a rubber which comprises treating a rubber with an alkylated resorcinol wherein the alkyl group contains more than three but less than six carbon atoms.

2,325,153
PRODUCTION OF TEXTILE MATERIALS
Richard R. Sitzler, Cumberland, Md., assignor to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application June 10, 1939, Serial No. 278,479
5 Claims. (Cl. 106—176)

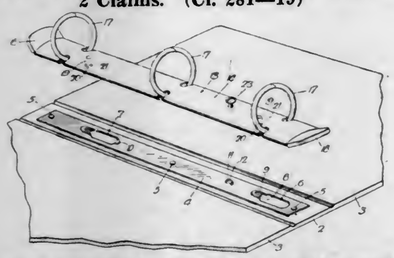
1. A spinning solution of reduced viscosity for use in the manufacture of artificial filaments, threads, ribbons and like artificial materials comprising an acetone-soluble cellulose ester dissolved in a mixture of solvents therefor comprising acetone and a polymethylene monoxide in which the oxide linkage is across the terminal carbons, the amount of the polymethylene oxide present in the mixture being in a proportion of at most 50 parts by weight.

2,325,154
VORTEX ELIMINATOR IN AIR HANDLING APPARATUS
Thomas A. Walters, Detroit, Mich., assignor to American Blower Corporation, Detroit, Mich., a corporation of Delaware
Original application May 27, 1937, Serial No. 145,105. Divided and this application November 1, 1940, Serial No. 363,931
6 Claims. (Cl. 230—120)



1. In combination, an air inlet chamber for an air circulating fan, an air outlet opening in said chamber, a propeller or disc type fan located adjacent said outlet for receiving air from said chamber and discharging the air therefrom, an air inlet for said chamber in the periphery thereof whereby the air enters said chamber angularly and passes across the inlet face of the fan tending to produce a vortex in said chamber, and a vortex eliminating baffle in said chamber having one edge thereof immediately adjacent the inlet face of said fan whereby said inlet air is prevented from rotation in said chamber adjacent the inlet face of said fan.

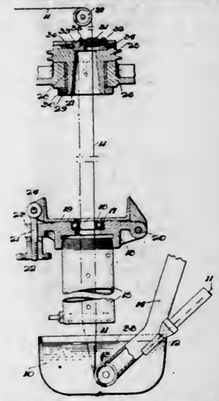
2,325,155
LOOSE-LEAF BINDER
Fred D. Wedge, Oak Park, Ill., assignor to Wilson-Jones Company, Chicago, Ill., a corporation of Massachusetts
Application May 16, 1941, Serial No. 393,711
2 Claims. (Cl. 281—19)



1. In a loose leaf binder, a back plate provided with a pair of elongated apertures having raised flanges adjacent one end thereof, said back plate being provided with another aperture spaced from one of said elongated apertures a distance approximately equal to the length of said aperture, said other elongated aperture having a raised portion adjacent its end opposite said raised flange, and a ring metal provided with a pair of studs engageable with said raised flanges and a screw engageable with said last mentioned aperture when the ring metal is in one position and with said last mentioned raised portion when the ring metal is reversed.

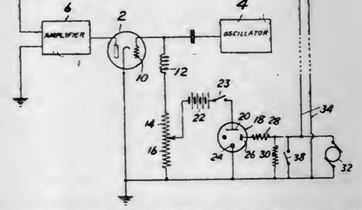
2,325,156
METHOD OF COATING WIRE
Marshall G. Whitfield, Louisville, Ky., assignor to Reynolds Metals Company, New York, N. Y., a corporation of Delaware
Application December 11, 1939, Serial No. 308,693
8 Claims. (Cl. 117—114)

3. The method of providing a wire with a relatively thick and substantially uniform coating which includes the steps of passing the wire through a bath of molten coating metal, and establishing an uninterrupted wave in engagement with the wire where it emerges from the



surface of the bath by continuously moving said wire at a relatively high speed in the same direction through a closed orbital path traced at the surface of the bath.

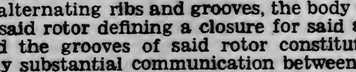
2,325,157
SEISMOGRAPHIC PROSPECTING
Alfred C. Winterhalter, Beaumont, Tex., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey
Application August 3, 1939, Serial No. 288,156
5 Claims. (Cl. 177—352)



5. In combination, a firing circuit for an explosive charge, current supplying means for said circuit, signal transmitting means comprising a thermionic vacuum tube having a grid, and means for controlling the transmitting means to transmit a signal upon disruption of the firing circuit by explosion of a charge which simultaneously causes an electrical change in the firing circuit, said last named means comprising an electronic tube of relay type, and connections between the last mentioned tube and the firing circuit whereby it is arranged to discharge upon the disruption of the firing circuit, and connections through which such discharge changes the bias on said grid.

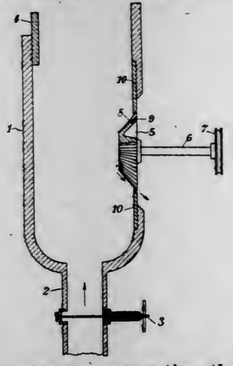
2,325,158
CONTINUOUS STRIP PICKLING AND CLEANING DEVICE
Frank J. Wood, Riverside, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application June 17, 1940, Serial No. 340,880
3 Claims. (Cl. 266—7)

1. In a continuous strip pickling and cleaning device, a pair of aligned pickling troughs, through which a strip of metal is adapted to pass during the pickling operation, a plurality of settling tanks arranged beneath each of said pickling troughs, fluid pipes connecting said tanks together, valves in said pipes arranged to shut off the flow of fluid from any one of said tanks to any other of said tanks, other fluid pipes connecting said tanks with said pickling troughs, valves in said pipes arranged to shut off the flow of fluid from any one of said tanks to any



one of said pickling troughs, pumps for circulating fluid through said pipes from any one or more of said tanks to any other of said tanks and from any one or more of said tanks to any of said pickling troughs, a separate sewer extending along the ends and one side of each pickling trough for collecting the fluid discharged from its associated trough, connections between each sewer and the settling tanks associated with said trough, selectively operable to permit fluid to flow from said sewer to any one of its associated tanks.

2,325,159
APPARATUS FOR SEPARATING FIBERS
James T. Coghill, Hoosick Falls, N. Y., assignor to The Noble & Wood Machine Co., Hoosick Falls, N. Y., a corporation of New York
Application March 14, 1940, Serial No. 323,955
11 Claims. (Cl. 92—29)

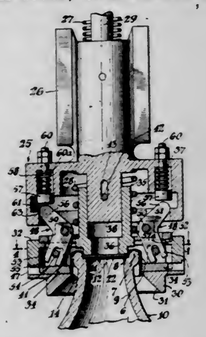


1. An apparatus for separating the fine fibers from a mass containing such fibers in admixture with other materials, said apparatus consisting of a chamber for containing the mass to be treated, said chamber having an aperture in a wall thereof, and a rotor disposed in said chamber in proximity to the aperture with its axis substantially perpendicular to the plane of the aperture, said rotor being provided with a plurality of alternating ribs and grooves, the body and ribs of said rotor defining a closure for said aperture and the grooves of said rotor constituting the only substantial communication between the interior and the exterior of said chamber, and means to rotate said rotor at a rapid rate of speed.

2,325,160
CAPPING HEAD
Carl W. Goodwin, Plainfield, N. J., assignor to American Seal-Kap Corporation of Delaware, Wilmington, Del., a corporation of Delaware
Application March 17, 1941, Serial No. 383,752
3 Claims. (Cl. 226—86)

1. A capping head for affixing onto a bottle a

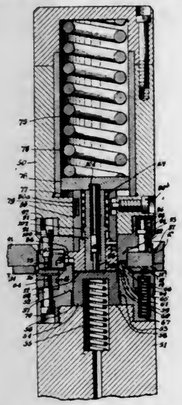
hood cap having a central diaphragm and a marginal skirt to be folded around the outer surface of the bottle neck, comprising a housing, a central plunger slidably carried in said housing and spring pressed downwardly, said plunger having a surface to engage the diaphragm of the cap and seat the same on said bottle, said plunger being movable upwardly into said housing in response to pressure exerted by the bottle, a frame rigidly secured to said plunger and movable therewith, a plurality of clamping jaws circumferentially arranged to form an opening for receiving the marginal skirt, means mounting said jaws on said frame for movement toward the center of said opening for folding inwardly and applying pressure to said skirt, an individual bell crank lever operatively connected to each of said jaws and pivotally carried by said frame with an ear extending upwardly toward said housing, an individual spring-pressed plunger mounted in said housing to engage the upwardly extending ear of each bell-crank lever, said individual plungers



being constructed and arranged to actuate said bell crank levers to shift said jaws inwardly in response to movement of said frame toward said housing produced by pressure exerted on said central plunger by the bottle, and stop means associated with said central plunger and said housing respectively, said stop means cooperating to limit the relative upward movement of said central plunger and frame with respect to said housing before said individual plungers have been fully retracted, whereby said individual plungers remain in resilient engagement with said bell crank levers to cause each of said jaws to exert a predetermined maximum pressure on said skirt regardless of variations in contour of said skirt and resilient supporting means for said housing to permit upward movement of said housing and plunger as a unit in response to further pressure exerted against said central plunger by said bottle.

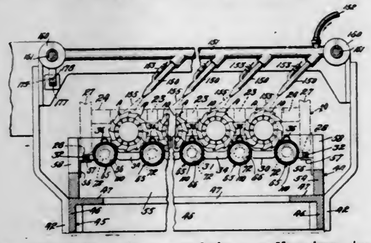
2,325,161
FORMING PRESS
Carl W. Goodwin, Plainfield, N. J., and Harold W. Martin, Malverne, N. Y., assignors to American Seal-Kap Corporation of Delaware, Wilmington, Del., a corporation of Delaware
Application April 26, 1941, Serial No. 390,468
9 Claims. (Cl. 93—1.3)

1. In a machine for shaping a hood cap from a disc blank of flexible form sustaining material, the combination comprising a pair of opposed, relatively axially movable rings for forming an annular channel-shaped pouring lip housing, one of said rings having an annular rim and a series of radial ribs on the crown surface thereof, the other ring having a series of radial slots of a width conforming to the width of said ribs, and registering therewith, and a member having a series of radial arms extending through



the respective slots of said last ring, and relatively movable with respect thereto to prevent foreign material from lodging in said slots.

2,325,162
COATING MACHINE
Carl W. Goodwin, Plainfield, N. J., and Herbert G. Vore, Jackson Heights, N. Y., assignors to American Seal-Kap Corporation of Delaware, Wilmington, Del., a corporation of Delaware
Application May 19, 1941, Serial No. 394,150
7 Claims. (Cl. 91—45)

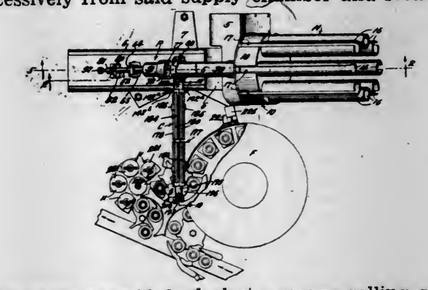


1. A machine for applying adhesive to the skirt folds of hood caps, comprising means for supporting a stack of nested caps in inclined position with the outer marginal portions of their skirts exposed, and including a pair of axially aligned freely rotatable chucks having heads constructed to fit and engage the ends of said stack respectively, the upper chuck being weighted and freely slidable axially to apply gravitational force on said stack and maintain it under compression, means for rotating said stack, a nozzle and means feeding said nozzle along said stack for spraying adhesive onto the surface of said stack.

2,325,163
CAPPING MACHINE
Carl W. Goodwin, Plainfield, N. J., and Harold W. Martin, Malverne, N. Y., assignors to American Seal-Kap Corporation of Delaware, Wilmington, Del., a corporation of Delaware
Application June 23, 1941, Serial No. 399,280
7 Claims. (Cl. 226—83)

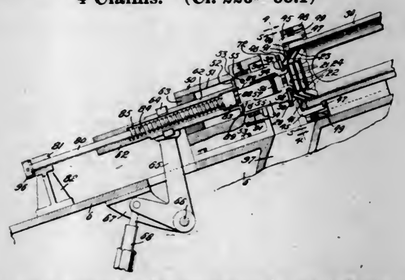
1. A machine for applying to containers and sealing thereon partially preformed hood caps

having foldable pleated skirts carrying a thermoplastic adhesive coating for securing the folds around the container neck, which comprises a supply chamber containing a stack of said caps, a magazine containing a plurality of reserve stacks of caps, means actuated by the caps in said chamber for feeding successive reserve stacks thereto so as to maintain a continuous supply of caps in said chamber, a feed chute having a surface along which said caps are adapted to roll, picker mechanism for removing the caps successively from said supply chamber and feeding



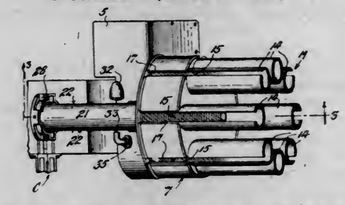
the caps to said feed chute, means rolling said caps on the edges of their skirts along said surface, means to heat soften the adhesive coating on the cap skirts as the caps roll along said chute to thereby render the coating tacky for sealing, means applying said cap from said feed chute with its adhesive tacky for sealing onto a bottle to be capped, and sealing mechanism adapted to fold said pleated skirt around the bottle neck and to apply sealing pressure thereto until said adhesive has set for permanently securing said folds together.

2,325,164
PICKER MECHANISM
Carl W. Goodwin, Plainfield, N. J., assignor to American Seal-Kap Corporation of Delaware, Wilmington, Del., a corporation of Delaware
Original application June 23, 1941, Serial No. 399,280. Divided and this application August 19, 1941, Serial No. 407,401
4 Claims. (Cl. 226—88.1)



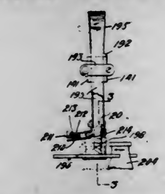
1. In a machine for applying to containers and sealing thereon partially preformed hood caps having foldable pleated skirts, a supply chamber containing a supply of said caps nested with the skirts extending rearwardly, the discharge end of said supply chamber having means to release said caps one at a time for individual removal therefrom, a discharge chute beneath the discharge end of said supply chamber and picker means adapted to pick said caps successively from said chamber and to release the same over said discharge chute, said picker means comprising a reciprocating member, a plate carried by said member, said plate having a surface adapted to engage the end cap of said stack for positioning the same to receive the stripper fingers, a set of stripper fingers carried by said member and extending forwardly through said plate in a position to engage and grip said cap to pull the same from said chamber.

2,325,165
REMOTE PHOTOELECTRIC CONTROL
Carl W. Goodwin, Plainfield, N. J., assignor to American Seal-Kap Corporation of Delaware, Wilmington, Del., a corporation of Delaware
Application March 12, 1942, Serial No. 434,326
4 Claims. (Cl. 226—88.1)



1. In a machine for applying to containers and sealing thereon partially preformed hood caps having foldable pleated skirts, a supply chamber containing a stack of said caps to be fed therealong by gravity for successive removal and application to bottle necks, a supply magazine containing a plurality of reserve stacks of caps, driving means actuating said magazine to successively advance said reserve stacks into position for feeding into said supply chamber, means including a photoelectric relay for actuating said driving means, a light source mounted to be normally obstructed by the caps in said supply chamber and to direct light rays through said chamber upon the exhaustion of such caps therein, and means cooperating with said light source for focusing the unobstructed light rays upon said photoelectric relay to actuate said driving means.

2,325,166
CAP APPLYING APPARATUS
Harold W. Martin, Malverne, N. Y., assignor to American Seal-Kap Corporation of Delaware, Wilmington, Del., a corporation of Delaware
Original application June 23, 1941, Serial No. 399,280. Divided and this application August 26, 1941, Serial No. 408,291
8 Claims. (Cl. 226—88.1)



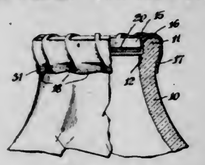
1. In a machine for applying to containers and sealing thereon, partially preformed hood caps having foldable pleated skirts carrying a thermoplastic adhesive for securing the folds together, mechanism for supplying individual caps, with the adhesive softened for sealing, to a capping station in substantially vertical position to be engaged by the advancing containers and seated on such containers by the horizontal movement thereof past said capping station, said mechanism comprising a delivery chute termi-

nating at said station, a rotatable member mounted below the end of said delivery chute and having blades spaced below said chute to engage and support a cap in vertical position as it falls to the discharge end of said chute, said member rotating with the advancing bottle necks to thereby tilt said caps from the vertical onto the bottle necks as the latter advance past said capping station.

2,325,167
ANTIOXIDIZING PARAFFIN COMPOSITION
Herbert G. Vore, Jackson Heights, N. Y., assignor to American Seal-Kap Corporation of Delaware, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 29, 1940, Serial No. 326,622
4 Claims. (Cl. 106—270)

3. The method of preventing oxidation of molten paraffin wax baths and hot paraffin oil baths which comprises maintaining in the bath about .02% to .04% of montan wax while operating the bath at elevated temperatures of not over about 294° F. and under conditions such that oxidation would otherwise take place.

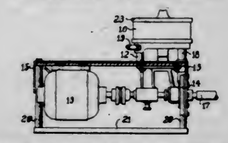
2,325,168
BOTTLE CAP
Herbert G. Vore, Jackson Heights, N. Y., assignor to American Seal-Kap Corporation of Delaware, Wilmington, Del., a corporation of Delaware
Application April 30, 1941, Serial No. 391,125
1 Claim. (Cl. 215—38)



A milk bottle cap formed from a paper blank, said cap comprising a bore closing portion and a pleated skirt extending downwardly around the outer surface of the pouring lip of the bottle, at least the skirt portion of said cap having a coating comprising isomerized rubber, paraffin and a hydrogenated rosin having thermoplastic properties, in about the following proportion:

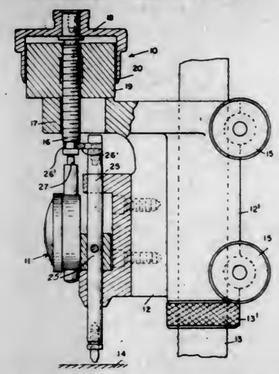
	Parts
Isomerized rubber	100
Paraffin wax	12½
Hydrogenated rosin	25

2,325,169
FILTER AND PUMP SUPPORT
Samuel Alsop, Milldale, Conn.
Application September 21, 1940, Serial No. 357,704
5 Claims. (Cl. 210—177)



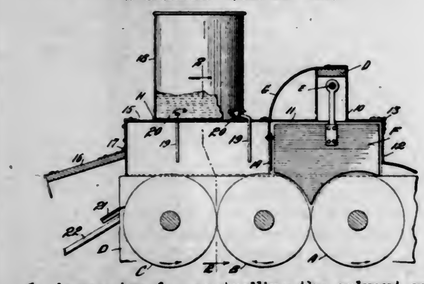
1. A device of the kind described comprising a table having a plane top for supporting a filter and its casing, a motor and pump for the fluid being filtered secured to the underside of said table top, a platform below the table top and above which said motor and pump are spaced, supporting columns between said platform and table top, the sides of said table top being bent down and constituting protective flanges of depth sufficient to shield the vital parts of the motor and pump, the motor and pump being confined within the outer limits of the table and platform and a conduit having a passage extending from the pump through the table top for the flow of liquid to be filtered.

2,325,170
MEASURING GAUGE
Russell E. Bauer, Detroit, Mich.
Application June 29, 1942, Serial No. 448,972
3 Claims. (Cl. 33—147)



1. A measuring gauge comprising, a micrometer having an adjustable spindle, a work engaging member supported to one side of the axis of the spindle and connected to the spindle for limited sliding movement relative thereto, and a dial indicator movable as a unit with the work engaging member and having an actuating element abutting the spindle for operation thereby.

2,325,171
ROLL MILL COVER AND VEHICLE CONTROL
Isidor M. Bernstein, Cincinnati, Ohio, assignor to Interchemical Corporation, New York, N. Y., a corporation of Ohio
Application August 3, 1940, Serial No. 350,341
2 Claims. (Cl. 83—22)



1. Apparatus for controlling the solvent or vehicle concentration in a pigment dispersion during milling on a three-roller mill, which comprises, in combination, the three rollers of said mill positioned adjacent one another and with parallel axes, a covering substantially enclosing the upper surfaces of said rollers to reduce solvent evaporation from said dispersion, a baffle placed substantially over the center roller so that the space within said covering and above the third roller is substantially isolated from the space above the first roller, a liquid reservoir, conduits connected with said reservoir, valves in said conduits to control individually the flow of liquid to said rollers, said conduits positioned so that on opening said valves liquid is caused to flow by gravity onto said rollers near the ends thereof whereby the solvent concentration in said dispersion is maintained uniform and constant throughout the grinding operation.

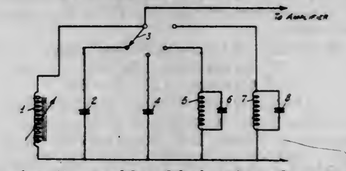
2,325,172
SANDPAPER MANUFACTURE
Joseph N. Borglin, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application January 20, 1942, Serial No 427,447
14 Claims. (Cl. 51—301)

1. An abrasive product comprising a backing of cellulosic sheet material having a coating thereon comprising essentially a proteinaceous adhesive and a material selected from the group consisting of polymerized rosin and water-soluble salts of polymerized rosin, with abrasive grains embedded in said coating.

2,325,173
DISPLAY FORM
Pierre Cherdakoff, University City, Mo.
Application August 4, 1941, Serial No. 405,368
3 Claims. (Cl. 223—75)

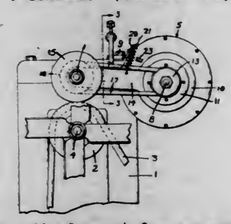
1. A hosiery display form comprising a first flat skeleton member contoured and outlined to conform approximately to the sidewise silhouette of a human leg and foot and including, as a unit, a foot-portion and front and rear strips projecting upwardly from the foot-portion, said strips being disposed registrably in spaced relation in the same vertical plane and said member having an upwardly opening slot in its foot-portion intermediate said strips, a second flat skeleton member contoured and outlined to conform approximately to the frontwise silhouette of a human leg above the ankle and including, as a unit, a base-portion and side strips projecting upwardly from the base-portion, said strips being likewise disposed registrably in spaced relation in the same vertical plane and the second member having a downwardly opening slot in its base-portion and said members being adapted at said slotted foot and base portions for interfitting right-angular engagement one with the other in crossed display formation, and means engageable with said strips for retaining said members in crossed display formation.

2,325,174
TUNED CIRCUITS FOR WIRELESS RECEIVERS
Arthur Henry Cooper, Buckinghamshire, England, assignor to Electric & Musical Industries Limited, Hayes, Middlesex, England, a company of Great Britain
Application April 21, 1942, Serial No. 439,850
In Great Britain November 26, 1940
5 Claims. (Cl. 250—40)



1. A circuit capable of being tuned over a plurality of wave bands comprising a permeability-tuned inductance, a condenser and a circuit comprising inductance and shunt capacity, and means for selectively shunting the condenser or the latter circuit across the permeability-tuned inductance, the arrangement being such that with the condenser shunting the permeability-tuned inductance the latter serves as the main tuning means in one of the wave bands, and with the circuit of the inductance and shunt capacity shunting the permeability-tuned inductance, the latter serves as the fine tuning means in another, higher frequency band.

2,325,175
SIREN
Clarence S. Crakes, Santa Maria, Calif.
Application September 23, 1940, Serial No. 357,877
7 Claims. (Cl. 116—58)



1. A siren attachment for an automobile engine that is provided with a fan-pulley and fan-belt on said pulley comprising: a siren assembly including a housing, a siren rotor therein and a friction drive device connected with said rotor arranged and adapted to be driven upon frictional engagement between friction drive means, said device and said fan-belt for causing rotation of said rotor, said friction drive device comprising a first pulley on said rotor; a second pulley, an endless belt connecting between said first pulley and said second pulley, means rotatably supporting said second pulley for rotation on its central axis and for revolvable movement about the central axis of said first pulley, a bracket supporting said siren assembly as a unit for securement to said engine in a position with said second pulley adjacent said fan-belt, means for so securing said bracket to said engine for supporting said siren assembly in said position, and friction drive means in driving connection with said second pulley adapted to frictionally engage said fan-belt at a point on the latter where the fan-belt is supported on said fan-pulley when said bracket is secured to said engine and said siren assembly is in said position, said friction drive means being

movable with said second pulley about said axis of said first pulley whereby said friction drive means may be moved into and out of position engaging said fan belt.

2,325,176

REFINING OF NONFERROUS METAL FUME

Louis Scott Deitz, Jr., Westfield, N. J., assignor to Nassau Smelting & Refining Company, Incorporated, New York, N. Y., a corporation of New York

No Drawing. Application December 5, 1941, Serial No. 421,770
10 Claims. (Cl. 75—25)

1. A method of extracting metal values from a fume consisting principally of lead and tin and containing a small but substantial amount of antimony, which comprises roasting such a material with an alkali carbonate and treating the roasted material with a solution of an alkali carbonate to remove the antimony.

2,325,177

RESIN COMPOSITION

Elmer R. Derby, Springfield, Mass., assignor, by mesne assignments, to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Original application November 2, 1937, Serial No. 172,442. Divided and this application January 22, 1942, Serial No. 427,718
8 Claims. (Cl. 260—36)

1. A polyvinyl acetal resin plasticized with a mixture of dilauryl phthalate and a member of the class consisting of diethylene glycol and dibutyl diglycollate.

2,325,178

PLASTICIZED RESIN

Elmer R. Derby, Springfield, Mass., assignor, by mesne assignments, to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Original application November 2, 1937, Serial No. 172,442. Divided and this application January 22, 1942, Serial No. 427,720
11 Claims. (Cl. 260—36)

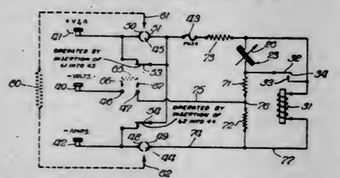
1. A polyvinyl acetal resin plasticized with a mixture of phenyl ethyl alcohol and a member of the class consisting of dibutyl diglycollate, dibutyl phthalate and diethyleneglycol dibutyrate.

2,325,179

MEASURING INSTRUMENT

Arthur R. Doering, Chicago, Ill.

Application October 11, 1939, Serial No. 298,973
6 Claims. (Cl. 171—95)



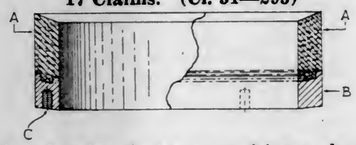
3. A unitary self-contained electrical measuring instrument of the moving coil type having a housing containing, in combination, a generally U-shaped permanent magnet, a moving coil disposed between the ends of the legs of said magnet for electromagnetic coaction therewith responsive to current flow through said moving coil, a relay comprising a coil positioned immediately adjacent said permanent magnet, means forming connections for normally maintaining said relay coil in a circuit extending in parallel with said moving coil so that whenever current flows through the moving coil current will also flow through the relay coil, said relay being adjusted so as to remain inoperative throughout the normal measuring range of said instrument and to energize operatively when said normal range is exceeded, an armature for said relay which remains wholly inoperative as long as said relay is inoperative, and circuit means actuated by said armature solely upon operative energization of said relay for closing a shunt around said moving coil to prevent excessive current flow therethrough.

2,325,180

FREE GRINDING DEVICE FOR STEELS AND ALLOYS

Birger Egeberg, Meriden, Conn., assignor to International Silver Company, Meriden, Conn., a corporation of New Jersey

Application November 12, 1940, Serial No. 365,298
17 Claims. (Cl. 51—295)



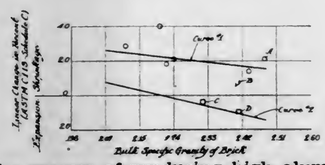
6. An abrasive device comprising a homogenous bonded mass of an abrasive material and a sulphide of a heavy metal of comparatively small particle size.

2,325,181

HIGH ALUMINA REFRACTORY

Alex Edward Fitzgerald, Merion, Pa., assignor to General Refractories Company, Philadelphia Pa., a corporation of Pennsylvania

Application October 23, 1940, Serial No. 362,335
25 Claims. (Cl. 106—68)



1. The process of producing high alumina refractory, which comprises calcining a raw mineral which is essentially hydrated alumina by itself without fusion, mixing the calcined alumina mineral with from 7 to 30% of uncalcined clay containing from 60 to 75% silica, molding the mix, firing the mix at a temperature above pyrometric cone 10 and stopping the firing while the refractory is still capable of further expansion on reheating.

2,325,182

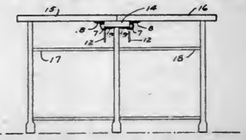
TABLE HINGE

Joseph L. Fitzpatrick, San Francisco, Calif.

Application August 5, 1941, Serial No. 405,505
2 Claims. (Cl. 311—52)

1. In combination with a pair of table leaves,

of an intermediate cross member positioned beneath the inner meeting ends of the table leaves and a hinge effecting a connection between the intermediate cross member and the table leaves, said hinge comprising an end section secured to said intermediate cross member and an end section secured to a leaf section, and a central portion having pivotal connection with said end



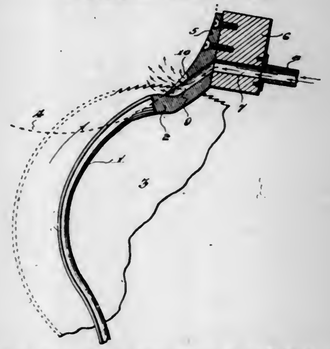
sections for effecting a raising and lowering of said intermediate member relative to said table leaves, whereby the bottom surface of the inner portions of said pair of table leaves rests directly onto the top surface of the intermediate cross member when the table leaves are in their open position.

2,325,183

MEANS AND METHOD FOR SEPARATING LINT FIBERS FROM COTTON SEEDS AND CLEANING LINT FIBERS BY AIR WASHING

Pressley Earl Hopper, Dallas, Tex.

Application October 13, 1941, Serial No. 414,826
5 Claims. (Cl. 19—62)



1. In a cotton gin including a roll box, a gin rib construction comprising in combination with a plurality of gin saws, a plurality of gin ribs, a rail to which the gin ribs are secured, said rail having a passage for air under pressure, the upper portions of the gin ribs having one or more passages in open communication with the passage in said rail and terminating into ducts opening into the roll box adjacent to and between the gin saws, and means for supplying air under pressure through said passages or ducts into the roll box and against the saws in a direction opposite to the rotation of the gin saws thereby removing trash from the cotton on the saws.

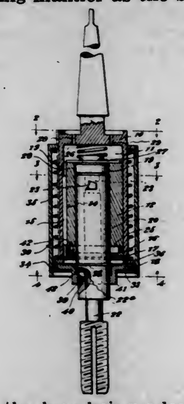
2,325,184

ADJUSTABLE RELEASING TAP HOLDER

Herbert O. M. Jampoler, Providence, R. I.

Application February 9, 1942. Serial No. 430,146
3 Claims. (Cl. 10—134)

1. A device of the class described comprising a body, a driving bushing mounted within said body, the driving bushing having a central bore, the walls of the bore having longitudinally extending channels, a tap-engaging member mounted within the bore and having lateral lugs movable longitudinally within said channels, a supporting member for said bushing, the supporting member having an annular channel adjacent the bushing and communicating with said channels, the lugs being adapted to be moved into the annular channel when said tap-engaging member reaches a predetermined position with respect to the bushing to permit the driving bushing to freely rotate independently of the tap-engaging member, said lugs having inclined upper faces to permit the driving bushing to rotate freely in one direction, the bushing being slidably mounted within the body and movable in a reciprocating manner as the bushing passes



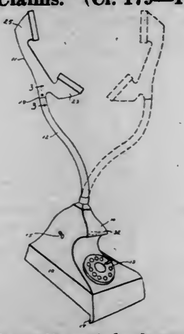
over the lugs, the lugs being adapted to engage the channels when the bushing is operating in the opposite direction for permitting the tap-engaging member to automatically move inwardly of the bushing, spring means for normally holding the bushing in contact with the supporting member, a casing for said body, means connecting the casing to said tap-engaging member, and spring means engaging the casing and the body to permit the casing and tap-engaging member to move longitudinally of the body and to automatically return the casing to its normal position when the casing and tap-engaging member are released.

2,325,185

TELEPHONE ASSEMBLY

Blanche H. Kate, Minneapolis, Minn.

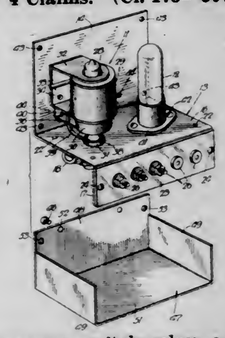
Application February 26, 1940, Serial No. 320,907
4 Claims. (Cl. 179—149)



1. A portable unitary telephone assembly comprising a desk-type casing for telephone operating parts formed with a tube-supporting mounting at the top thereof, a hollow flexible tube se-

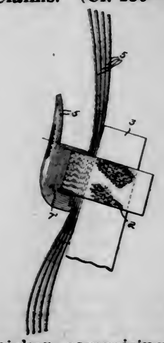
cured at its inner end to said casing top mounting and having secured to its outer end a combination hand transmitter-receiver unit, the flexible tube being readily bendable for adjustment purposes but having sufficient rigidity to support the transmitter-receiver unit in any adjusted position, telephone circuit conductors extending from the casing to the transmitter-receiver unit through the flexible tube, and manual switch means in the casing for controlling said circuit.

2,325,186
MERCURY SWITCH RELAY
Carl H. Larson, Elkhart, Ind., assignor to The Adlake Company, a corporation of Illinois
Application May 29, 1941, Serial No. 395,751
4 Claims. (Cl. 175—307)



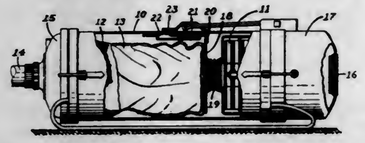
1. In a mercury switch relay, a Z section including a floor panel, a back panel, and a terminal panel, a mercury switch relay and control circuit modifying means entirely supported by the Z section above the floor panel, means below the floor panel interconnecting the relay and the control circuit modifying means, and a cover comprising a back, two end walls and a bottom adapted for removable attachment to the Z section, means for removably attaching the cover to the Z section and separate means for attaching the Z section to a support, the cover being so constructed and arranged that only the interconnecting means below the floor panel is completely enclosed when the cover is attached to the section, and easily accessible when the cover is removed.

2,325,187
LOOM PICKER
Arthur P. Lewis, Fairhaven, Mass.
Application January 29, 1941, Serial No. 376,437
12 Claims. (Cl. 139—159)



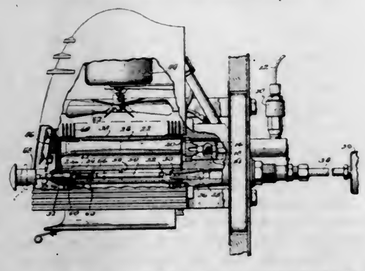
1. A loom picker comprising a loop section adapted to encircle a picker stick, a pad section adapted to be positioned at the forward side of the stick and comprising strips of fabric extending through the aperture in said loop section at the forward portion thereof, a non-metallic filler piece at the outer and forward side of said loop section, the ends of said strips being folded over said filler piece and overlapped one upon the other at the forward side of said piece, and a binder uniting said plies, said filler piece, and said sections into an integral structure.

2,325,188
VACUUM CLEANER
Gustaf Einar Lofgren, Riverside, Conn., assignor to Electrolux Corporation, New York, N. Y., a corporation of Delaware
Application December 6, 1940, Serial No. 368,825
6 Claims. (Cl. 183—37)



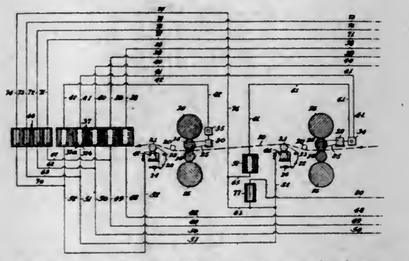
4. In a vacuum cleaner, a first filter bag, a second filter bag surrounding the first bag, means for indicating the resistance to air flow offered by the first bag responsive to the air pressure in the space between said bags and to the air pressure in the space on the inside of said first bag, and means responsive to the expansion of the outer bag to indicate in cooperation with the first mentioned means the resistance to air flow offered by said outer bag.

2,325,189
VALVE FOR AUTOMOBILE HEATERS
Henry J. De N. McCollum, Chicago, Ill.
Original application June 24, 1939, Serial No. 281,011, now Patent No. 2,270,955, dated January 27, 1942. Divided and this application February 17, 1940, Serial No. 319,559
3 Claims. (Cl. 137—161)



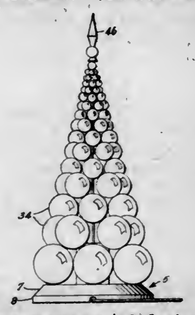
1. In a valve assembly, in combination, a valve, a seat for said valve, manually operable means for controlling said valve, said manually operable means including a stem secured to said valve, resilient means attached to said stem and operable to close said valve, a groove formed in said stem, and a temperature responsive bimetal ring carried by said stem normally fitting in said groove and holding said resilient means out of operation, and adapted upon attainment of a predetermined maximum temperature to expand sufficiently to permit its disengagement from said groove, thereby releasing said resilient means and causing said valve to close.

2,325,190
METAL ROLLING
John H. McElhinney, Wheeling, W. Va., assignor to Wheeling Steel Corporation, Wheeling, W. Va., a corporation of Delaware
Original application June 5, 1939, Serial No. 277,345. Divided and this application March 13, 1941, Serial No. 383,102
6 Claims. (Cl. 80—35)



1. Apparatus for rolling strip material comprising working rolls, means for passing strip material therebetween under tension, means for measuring and indicating the relationship of strip speed to the speed of the surfaces of said work rolls to provide an indication of slippage of the strip, and means for computing from such measurement the percentage of reduction in the thickness of the strip.

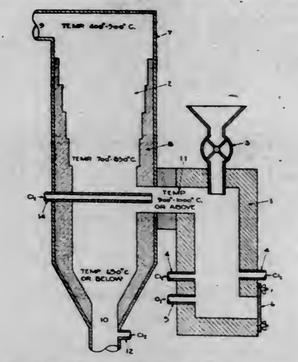
2,325,191
ORNAMENTAL DEVICE
Frank Pierce Mortimer, Pottsville, Pa.
Application February 28, 1941, Serial No. 381,171
11 Claims. (Cl. 240—10)



7. A luminous ornamental device comprising a hollow translucent base formed with a central opening, means supported in said opening and comprising a plate having a light source rising therefrom, a post comprising lower elements supportably connected to said plate on opposite sides of said light source and a rod rising above said elements to a point substantially elevated above said base, a light passing cylindrical form rising around said opening in the base and enclosing said lower elements and said light source.

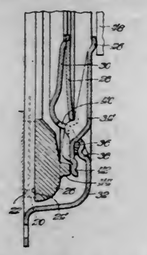
2,325,192
CHLORINATION OF CHROMIUM BEARING MATERIALS
Irving E. Muskat, Akron, Ohio, assignor to Pittsburgh Plate Glass Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application October 13, 1941, Serial No. 414,755
8 Claims. (Cl. 75—112)

1. A method which comprises reacting a chromium bearing material with chlorine in amount not in excess of the theoretical required for chlorination of the chloridizable constituents including the iron and chromium constituents to the ferric and chromic state, whereby a quantity of



chromous chloride is formed at a temperature sufficiently high to vaporize chromous chloride, adding a substantial quantity of chlorine to the vapor and condensing a chromium chloride therefrom.

2,325,193
SPRING
Harold Nutt, Chicago, and Richard L. Smirl, Bellwood, Ill., assignors to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application August 31, 1939, Serial No. 292,776
10 Claims. (Cl. 267—1)



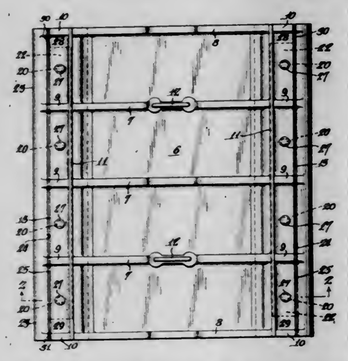
1. A highly resilient, washer type spring having a broad range of uni-directional rate deflection, said spring being roughly conical and crowned in radial cross-section with the crown curvature disposed largely on one side of a straight line joining its inner and outer peripheries, the dimensions of said spring falling substantially within the following proportions: maximum diameter 6; thickness .085–.12; crown, .05–.1; axial height .25–.27.

2,325,194
MANUFACTURE OF ORGANIC POLYSULPHIDES
John F. Olin and Thomas E. Deger, Grosse Ile, Mich., assignors to Sharples Chemicals Inc., a corporation of Delaware
No Drawing. Application March 6, 1941, Serial No. 381,972
9 Claims. (Cl. 260—608)

1. In the manufacture of organic polysulphides, the process comprising oxidizing an organic compound containing an SM radical, in which S designates sulphur and M designates a member chosen from the group consisting of ammonium

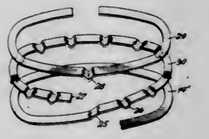
and substituted ammonium radicals, metals and hydrogen, which comprises mixing said compound with a mineral acid in the presence of an alkyl nitrite.

2,325,195
TOGGLE FOR CRUSHERS
Edward T. Peterson, Reading, Pa.
Application August 16, 1941, Serial No. 407,195
1 Claim. (Cl. 83—53)



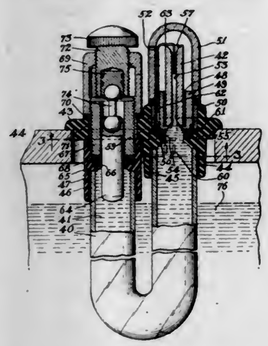
A unitary crusher toggle body having grooved end edges providing spaced resilient edge strips and outwardly facing end edge surfaces, beads for the edges having inwardly directed tongues, each resiliently held between two strips and inwardly facing shoulders adjacent the edge strip surface and adapted to engage them, a shim surrounding a tongue and fitting between the shoulders and the adjoining surfaces, and fastenings extending through the strips and tongues and holding the beads to the body.

2,325,196
PISTON RING
Edward B. Rothweiler, St. Louis, Mo., assignor to Coil Piston Ring Company of America, St. Louis, Mo., a corporation of Missouri
Application January 13, 1940, Serial No. 313,646
3 Claims. (Cl. 309—45)



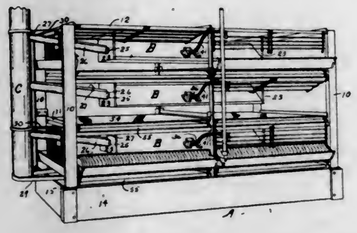
1. A multiple piece piston ring composed of a plurality of coils of thin steel and including two outer annular portions each of less circumferential length than a complete annulus having their outer surfaces in single planes throughout their circumferences, a spacer convolution of less circumferential length than a complete annulus unattached to one of said annular portions and having integral connection with the other and having a circumferential series of lateral arches holding said annular portions in spaced relationship and forming passages, and means preventing substantial turning of said unattached annular portion with respect to said spacer convolution and leaving said two outer portions free to expand and contract during movement of the piston on which they are mounted.

2,325,197
THERMOSTAT
Walter Van Guilder, River Forest, Ill., assignor to Precision Scientific Company, Chicago, Ill., a corporation of Illinois
Application June 17, 1941, Serial No. 398,437
7 Claims. (Cl. 200—141)



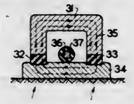
1. In a thermostat, the combination of a U-tube adapted to contain a body of thermally expansive liquid, means adjacent the upper end of one leg of the tube for establishing an electric circuit upon a predetermined rise in the liquid in such leg, a member fixed to the other end of the tube having a bore therein opening into the tube, a plunger slidable in said bore, a yieldable packing member encircling the plunger at the upper end of said bore, a collar loosely encircling said plunger and threaded on said member to press said packing into tight sealing engagement with the plunger, and an actuator for adjustably moving said plunger axially.

2,325,198
BATTERY BROODER
William M. Willett, George T. Markey, and John B. Olson, Fort Atkinson, Wis., assignors to James Manufacturing Company, Fort Atkinson, Wis., a company of Wisconsin
Application July 5, 1940, Serial No. 344,110
7 Claims. (Cl. 119—32)



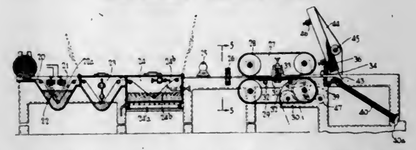
1. A brooder of the class described, comprising a compartment having medially positioned therein a hover and means whereby the hover may be raised and lowered manually, a gas burner mounted medially on said hover, a flame spreader plate within the hover and adapted to lie over and spread the flame transversely, and a chimney positioned adjacent one end of said compartment and having a duct connection to said hover, means on said duct connection adapted to limit its longitudinal movement.

2,325,199
METHOD AND APPARATUS FOR SEISMIC EXPLORATION
John P. Woods, Houston, Tex., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application June 30, 1941, Serial No. 400,547
9 Claims. (Cl. 177—352)



3. For use in combination with a seismic recorder and an insulated cable electrically connected to said recorder, a seismic detector comprising an arcuate magnet member, an armature member adapted to bridge the magnet member, resilient means adapted to support one of said members with regard to the other end to maintain a variable non-magnetic gap therebetween, one of said members being adapted to be laid in contact with the ground subject to the vibrations thereof, the other member being supported by said resilient means as an inertia element with regard to the vibratory member, the coil of said detector being formed of an integral part of said insulated cable inserted within the magnetic circuit comprising said members.

2,325,200
APPARATUS FOR PRODUCING LAMINATED SHIMS
Earle L. Young, Stamford, Conn., assignor to Laminated Shim Company, Incorporated, Glenbrook, Conn., a corporation of Connecticut
Original application May 28, 1938, Serial No. 210,594, now Patent No. 2,234,214, dated March 11, 1941. Divided and this application February 25, 1941, Serial No. 380,412
2 Claims. (Cl. 29—33)



1. A continuous shim stock making machine of the class described comprising a plating tank, a solder tank and a severing device, a strip feeding device to feed a strip of the order of .002'' in thickness through said plating tank and solder tank to uniformly plate and solder the strip, severing means periodically operated by the feeding means to cut fixed lengths of strip, and means to form a stack of multiple groups of strips, each group corresponding to the thickness of a shim.

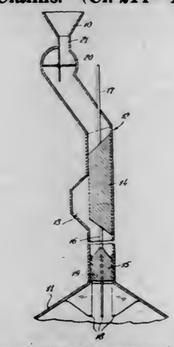
2,325,201
ELECTROLYTIC CELL AND ANODE
John L. Young, Pittsburgh, Pa., assignor to Plastic Metals, Inc., a corporation of New York
No Drawing. Application September 28, 1939, Serial No. 296,939
5 Claims. (Cl. 204—280)

1. A soluble anode for an electrolytic cell consisting of a coherent and porous mass of granules of substantially pure iron connected granule to granule by bridges of iron in metallic state and being thereby of high porosity and electrical conductivity, of high and maintained coherence in use whereby the iron is dissolved substantially completely under the influence of the electric current with substantially no disintegration and loss of particles of free iron.

2,325,202
AGE RESISTOR FOR RUBBER
Albert M. Clifford, Stow, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware
No Drawing. Application July 18, 1940, Serial No. 346,188
5 Claims. (Cl. 260—809)

1. The method of treating rubber which comprises vulcanizing it in the presence of the product obtained by reacting, at a temperature of about 65 to 100° C., a di(arylamino) methane and a diarylamine in the presence of hydrochloric acid.

2,325,203
TRANSFER DEVICE
Oswald G. Hayes, North Hempsted, N. Y., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
Application April 16, 1942, Serial No. 439,180
5 Claims. (Cl. 214—17)



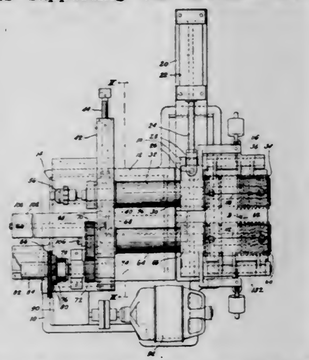
1. In a device of the class described, wall means defining a substantially vertical conduit having at least one chamber in communication therewith throughout the length of said chamber and formed with a bottom portion open to and sloping toward said conduit, a plurality of blocks closely fitting inside said wall means, means to reciprocate said blocks together longitudinally of said conduit, one of said blocks being associated with said chamber with its upper surface sloping toward said chamber and adapted to alternately place said chamber in communication with said conduit above and below said block as it reciprocates, one of said blocks being disposed for reciprocation below said chamber and adapted to alternately close and open the lower end of said conduit by motion into and out of said conduit, means to admit fluid to said conduit above said last named block when the lower end of said conduit is open and means to control the flow of solid matter to the upper end of said conduit.

2,325,204
METHOD AND APPARATUS FOR VULCANIZING BELTS
Karl B Kilborn, Akron, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware
Application November 4, 1941, Serial No. 417,790
11 Claims. (Cl. 18—6)

1. Apparatus for vulcanizing endless rubber

belts, sheet material, and the like, said apparatus comprising a relatively wide, endless, flexible, inextensible band, collapsible means positioned inside of the band and adapted to engage the inner periphery of rubber material to be vulcanized and adapted to force it outwardly into pressure engagement with the band, and means adapted to supply vulcanizing heat to the rubber material.

11. The method of vulcanizing endless rubber material, such as belts, to an exact length which comprises supporting the material at spaced



points on its inner periphery, moving the supporting points apart to stretch the material, limiting the movement apart of the supporting points by flexibly and inextensibly confining the outer periphery of the material when the movement apart of the supporting points has brought the material length to exactly that desired, subjecting the inner and outer peripheries of the material to the action of vulcanizing heat, and passing the material in an endless path during the time it is subjected to vulcanizing heat.

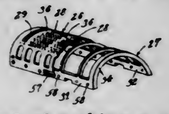
2,325,205

METHOD OF MAKING PARTS FOR COMB UNITS AND THE LIKE

Charles L. Molnar, Chicago, Ill., assignor to Chicago Flexible Shaft Company, Chicago, Ill., a corporation of Illinois

Application August 1, 1940, Serial No. 349,344

5 Claims. (Cl. 76—101)



1. The method of making a precision shaped part from cold rolled steel stock to a shape having longitudinal side members joined by end cross members and intermediate cross members, the steps of blanking the stock to the general shape described leaving substantial material for finish with the width of the intermediate cross members approximately twice the thickness of the stock, stamping the side members to provide locating parts positioned within the peripheral edges of the ultimate shape, and removing material from opposite edges of the blank by a succession of shaving die operations on opposite sides of said intermediate cross members to reduce the width of said cross members to approximately less than one-half the thickness of the ultimate stock and locating the blank by means of said locating parts when performing said successive shaving operations.

2,325,206

CATALYST AND PROCESS FOR THE HYDROGENATION OF POLYHYDROXY COMPOUNDS

Leonard A. Stengel, Terre Haute, Ind., assignor to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland

No Drawing. Application May 11, 1940, Serial No. 334,612

3 Claims. (Cl. 260—635)

1. In a process in which a sugar-containing material is admixed with a liquid medium and subjected to hydrogenation, the steps which comprise precipitating copper hydroxide in said mixture of sugar-containing material and liquid medium, and effecting the hydrogenation in the presence of the resulting precipitate while maintaining the reaction mixture in an alkaline condition throughout the reaction.

2,325,207

CATALYST AND PROCESS FOR THE HYDROGENATION OF POLYHYDROXY COMPOUNDS

Leonard A. Stengel and Walter K. O'Loughlin, Terre Haute, Ind., assignors to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland

No Drawing. Application May 13, 1940, Serial No. 334,890

3 Claims. (Cl. 260—635)

1. In a process in which a saccharide-containing material is admixed with a liquid medium and subjected to hydrogenation, the steps which comprise coprecipitating copper hydroxide and at least one member selected from the group consisting of ferric hydroxide and magnesium hydroxide in said mixture of saccharide-containing material and liquid medium, and effecting the hydrogenation in the presence of the resulting precipitate while maintaining the reaction mixture in an alkaline condition throughout the reaction.

2,325,208

WELT HOOK

Hans J. Straussberger, Brooklyn, N. Y., assignor to Alfred Hofmann, Inc., West New York, N. J.

Original application June 29, 1939, Serial No. 281,767. Divided and this application April 17, 1940, Serial No. 330,027

17 Claims. (Cl. 66—96)



1. A welt hook comprising a shank, a spring beard formed continuously with the shank at one end thereof, a latch mounted on one side of the shank at a point adjacent to the tip of said beard, and a needle receiving groove formed on the opposite side of the shank.

2,325,209

DROPPER STOPPER

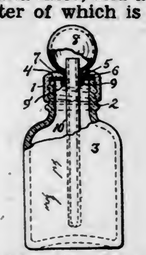
Stewart D. Swihart, Fort Wayne, Ind., assignor to Fred C. Zieg, Fort Wayne, Ind.

Application July 8, 1940, Serial No. 344,337

5 Claims. (Cl. 221—148)

1. A dropper stopper for a container constituted of a cap provided with a liner therein and adapted to have connection with a container to close same, said cap having an outwardly flaring seat and opening concentric therewith, a compressible bulb having a neck extending through

said opening, the external diameter of said neck being initially as great or greater than the opening of the cap and liner, and a dropper tube the external diameter of which is greater than the



initial bore of said neck so the parts when assembled are locked together and the bulb is held seated.

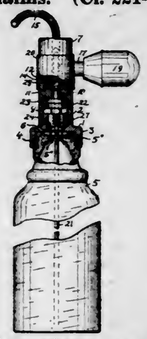
2,325,210

LIQUID DISPENSER

Stewart D. Swihart, Fort Wayne, Ind., assignor to Fred C. Zieg, Fort Wayne, Ind.

Application August 18, 1941, Serial No. 407,348

6 Claims. (Cl. 221—76)



1. A liquid dispensing apparatus including a container having an externally threaded neck provided with a choke central opening, a dispenser having a vented base threaded to fit said neck, a valve casing secured concentrically on said base having an axial bore the lower portion of which forms a chamber, the upper portion of said bore constituting a discharge channel, two valve seats located in said channel at points spaced apart from each other each provided with an outflow check-valve, a spout having communication with the upper end of said channel, a hollow stem having communication with said channel at a point between said check-valves and provided with a compression bulb, a suction tube having on its top a gasketed head movable in said chamber, a flanged sleeve on said tube having relative movement thereon limited in one direction, and a compression spring on said tube between said sleeve and head, the arrangement being such that when the tube is inserted through said choke opening into the container, and the base is screwed into place on the neck, said sleeve has contact with said choke causing sealed connection between said tube and discharge channel.

2,325,211

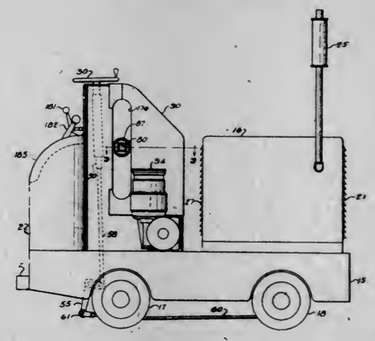
WINDING APPARATUS

Edward J. Abbe, Cleveland, Ohio, assignor to The Elwell-Parker Electric Company, Cleveland, Ohio, a corporation of Ohio

Application May 17, 1940, Serial No. 335,797

3 Claims. (Cl. 81—57)

1. In a device of the character described, the combination of a truck, an elevator, rotatable coupling means, said coupling means being carried by rotatable means horizontally movable relative to said truck and elevator, said rotatable means mounted on said elevator for vertical movement relative to said truck, means for raising and lowering said elevator, means for confining the movement of the elevator substantially to a vertical plane, a driving shaft positioned in a plane parallel to the plane of movement of said elevator at an elevation beyond the range



of movement of said elevator, a pair of pivotally connected link members, pivotally connecting respectively to the drive shaft and said rotatable means, and power transmission means interconnecting said drive shaft, the pivotal connection between said link members and said rotatable means whereby rotational movement from the drive shaft may be imparted to said rotatable means throughout the range of movement of said elevator.

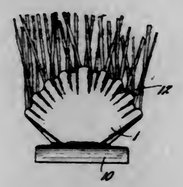
2,325,212

CLASP OR RELATED ARTICLE

John F. Adams, Washington, D. C.

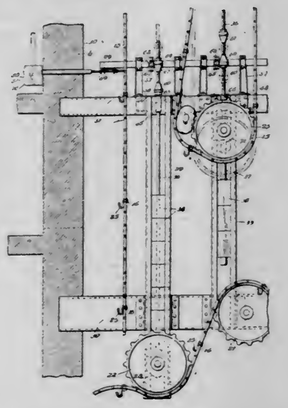
Application July 8, 1941, Serial No. 401,515

1 Claim. (Cl. 24—252)



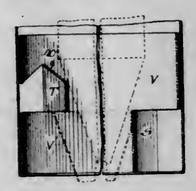
A clasp comprising a pair of jaw members pivotally connected together, one jaw member being metallic, heavy and rigid and serving to weight the clasp, the heavy jaw member being concave on that portion facing the other jaw member, the other jaw member being of a unitary sheet-like construction and flexible and springy, and provided along its outer gripping edge with a series of inwardly extending slits forming a multiplicity of flexible, elongated, fingers, a portion of which lie in the plane of the jaw member of which they form a part, and a spring member carried by said jaws to urge the fingers of the flexible jaw toward the heavy jaw member, thereby forming a substantially continuous gripping edge compensating for variations in thickness of material gripped between said jaws.

2,325,213
SMOKEHOUSE
Norman J. Allbright, Hinsdale, Ill., assignor to The Allbright-Nell Co., Chicago, Ill., a corporation of Illinois
Application January 30, 1941, Serial No. 376,571
10 Claims. (Cl. 99—261)



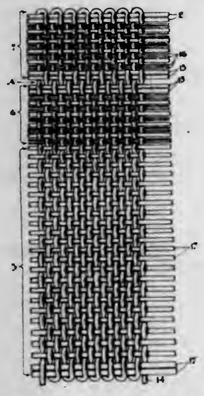
1. In a smokehouse of the character described, the combination of means forming a smoke chamber, means associated with the chamber for producing smoke therein, a conveyor disposed in said chamber and embodying a drive sprocket wheel, a bodily movable take-up sprocket wheel and an endless chain trained around the two sprocket wheels and having means for supporting the products to be smoked, power mechanism connected to the drive sprocket wheel and adapted to drive the conveyor, and means for automatically rendering the power mechanism inoperative in the event of pronounced movement of the take-up sprocket wheel.

2,325,214
CARTON CUP DISPENSER
Walter E. Amberg, Chicago, Ill., assignor to Universal Paper Products Company, Chicago, Ill., a corporation of Illinois
Application September 29, 1939, Serial No. 297,142
18 Claims. (Cl. 206—56)



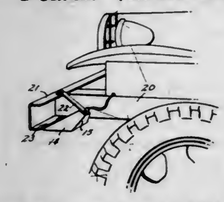
5. A shipping container for a stack of nested paper cups comprising a carton provided with a closing flap at one end thereof, a tongue on said flap, a removable area in said flap which when removed will permit said cups to be dispensed through said end, an insert in said end of said carton having a portion pressed inwardly forming a projection on the interior thereof appropriate to assist in dispensing a paper cup, and locking engagement means between said tongue and said pressed-in portion.

2,325,215
FABRIC
Louis J. A. Amyot, Quebec, Quebec, Canada
Original application December 11, 1941, Serial No. 422,557. Divided and this application August 24, 1942, Serial No. 456,108. In Canada December 11, 1941
5 Claims. (Cl. 139—384)



1. A woven fabric comprising a body section, a lip section woven integral with the upper edge of the body section, a second lip section woven integral with the upper edge of the first mentioned lip section so as to provide a definite fold line or hinge connection between the adjacent edges of the lip sections, said fabric being further characterized in that it is woven so as to provide reinforced edge portions located, respectively, at the lower edge of the body section, at the upper edge of the first mentioned lip section and at both the upper and lower edges of the second mentioned lip section.

2,325,216
BLACK-OUT LAMP
Harry W. Barnes, Beverly Hills, Calif.
Application March 9, 1942, Serial No. 433,903
1 Claim. (Cl. 240—7.1)



The combination with a vehicle having a front bumper of channel-shape arranged with its lateral flanges directed rearwardly, a lamp-housing of frusto-pyramidal form having a light transmissive base extending in a horizontal plane and an opposite top-plate directed at a forwardly diverging angle thereto, converging side walls, the front and rear walls being inclined forwardly at diverging angles, a bracket secured to said top-plate and extending in substantially the same plane for rigid connection with the upper flange of said bumper, ears extending from said front wall rigidly connected to the lower flange of said bumper, and a lamp mounted in said housing adjacent its upper end whereby all rays of light issuing from said housing will be cast downwardly through said base.

2,325,217
MANUFACTURE OF PROCESS CHEESE
William O. Beers, Kendallville, Ind., assignor to Kraft Cheese Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application August 2, 1940, Serial No. 350,131
4 Claims. (Cl. 99—116)

1. The improved step in the art of cheese making, which consists in soaking the usual drained curd in a solution of an edible acid of sufficient strength so as to thereby raise the acidity of the curd rapidly to approximately between 4.8 pH and 5.2 pH.

2,325,218
PROCESS FOR THE GRAVEL PACKING OF WELLS
Victor J. Beissinger, Los Angeles, Calif., assignor to Richfield Oil Corporation, Los Angeles, Calif., a corporation of Delaware
Application August 11, 1941, Serial No. 406,326
8 Claims. (Cl. 166—26)



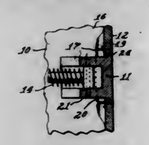
1. The method of depositing a gravel pack in wells comprising the steps of introducing a mixture of gravel and a gelatinous binder into the annulus between the tubing and the working string in said well, slowly rotating said working string during the downward travel of said mixture, removing said working string, and tamping said mixture to form a gravel pack.

2,325,219
SCRAPER
Harry G. Bingley, Southbridge, Mass., assignor to Hyde Manufacturing Company, Southbridge, Mass., a corporation of Massachusetts
Application October 29, 1942, Serial No. 463,799
11 Claims. (Cl. 30—171)



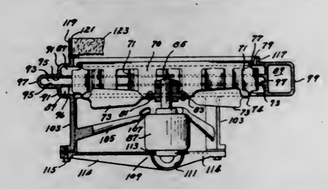
1. In a device of the class described, a handle, a blade clamping surface associated with the handle, a movable blade clamping means for cooperation with said surface to clamp a blade, and resilient means effective to normally draw the blade clamping means to the surface, said resilient means being manually temporarily distortable to move the blade clamping means from the surface.

2,325,220
DOOR LOCK
Charles S. Bock, Chicago, Ill., assignor to Andrew Hoffman, Chicago, Ill.
Substitute for abandoned application Serial No. 374,779, January 16, 1941. This application May 5, 1942, Serial No. 441,848
4 Claims. (Cl. 292—1)



1. In a lock carried by the closing end of a door and having a vertically-pivoted latch bolt formed with an arcuate periphery; means between the vertical extremities of the bolt and the lock housing preventing more than the initial insertion of an instrument calculated to jam the bolt, said means comprising extensions of the bolt at such extremities, and shallow receptacles in the housing seating said extensions when the bolt is in the retracted position.

2,325,221
SEGREGATED PRESSURE FAN
Walter H. Bretzlaff, Detroit, Mich., and Charles P. Grimes, Syracuse, N. Y.
Original application December 28, 1936, Serial No. 117,748. Divided and this application August 7, 1939, Serial No. 288,790
6 Claims. (Cl. 230—47)

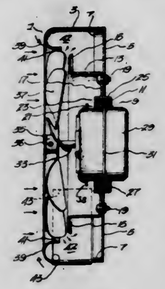


1. In a segregated pressure air impeller the combination of, a dished member of sheet metal, centrifugal air throwing blades distorted from a peripheral wall of said member, propeller type blades distorted from a portion of said member for projecting air axially, means for rotatably supporting said member, and means for receiving the air from the centrifugal blades in segregated relation from the air thrown axially from the propeller blades.

2,325,222
AIR IMPELLING APPARATUS
Walter H. Bretzlaff, Detroit, Mich., and Charles P. Grimes, Syracuse, N. Y.
Application October 16, 1939, Serial No. 299,634
11 Claims. (Cl. 230—117)

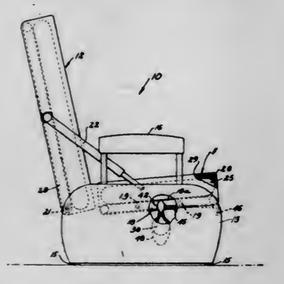
1. In a fluid impelling apparatus the combination of, a housing having a substantially cylindrical peripheral wall, one edge of said wall being turned in and back to define a circular entry port substantially concentric to the axis of the housing, a flanged radial wall of circular or disc like conformation forming a confining element of said housing and supporting means for an electric motor, a motor receiving aperture in the center of said radial wall, an electric motor, means mounting said motor in said aperture with the shaft of the motor extending concentrically

toward said circular entry port, a propeller fan operatively secured on the shaft and disposed adjacent the entry port for drawing air through the circular entry port into said housing, baffle means of generally annular conformation concentrically secured to said flanged radial wall and having a radial portion projecting therefrom adjacent the discharge face of the fan which in combination with the turned in walls around the entry port



provides an open air receiving port through which high velocity air advanced by the outer portion of the fan blades is caused to enter, and said radial baffle means cooperating with the housing walls to form a smooth annular collector chamber in which such high velocity air is received and encouraged to rotate cooperatively with the fan, and an air delivery port opening from said collector chamber.

2,325,223
PNEUMATIC CUSHION
Marshall L. Brewster, Van Nuys, Calif.
Application February 18, 1939, Serial No. 257,217
9 Claims. (Cl. 155—179)



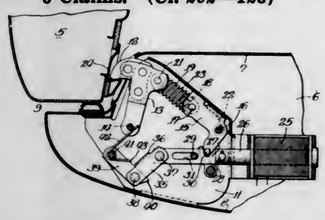
5. In a pneumatic cushion for aircraft adapted to be self-compensating for varying flight altitudes while loaded with a given passenger weight, a flexible cushion casing adapted to be gas inflated, and a compensating chamber communicating with said casing and embodying an elastic, distensible wall, said wall having such inherent resistance to distension as to be only slightly, if any, distended beyond its condition under normal inflation of the cushion at ground level when the cushion assumes said given passenger weight at ground level, but having such yieldability and capacity as enables distension to occur, after said given passenger weight has been assumed, throughout a substantial expansion range in accordance with the fall in external pressure incident to aircraft flight altitudes above ground level whereby pressure within the cushion is progressively relieved as altitude is attained.

2,325,224
BOTTLE HOLDER
Thomas Holman Bryant, Sr., Louisville, Ky., assignor to Frankfort Distilleries, Incorporated, Louisville, Ky., a corporation of West Virginia
Application October 21, 1940, Serial No. 362,148
5 Claims. (Cl. 206—44)



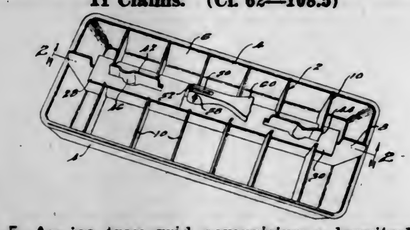
1. In a whiskey package, the combination with a carton having a window and a round bottle having a label to show through said window, of a bottle holder removably mounted in the bottom of said carton and comprising a platform having an opening therein to receive the wall of the bottle, and supports for the platform to hold such platform above the bottom of the carton.

2,325,225
REFRIGERATOR LATCH
William O. Burke, Rockford, Ill., assignor to National Lock Co., Rockford, Ill., a corporation of Delaware
Application May 9, 1942, Serial No. 442,293
6 Claims. (Cl. 292—123)



1. In a refrigerator latch, the combination of a pivotally mounted latch bolt, an electromagnet having a movable core, an operative connection including a bell crank lever and a link between said bolt and the core of said magnet whereby said bolt is retracted upon energization of said magnet, and means including a pair of pivotally connected links connected respectively to a fixed pivot and to said core for limiting the operative movement of said magnetic core.

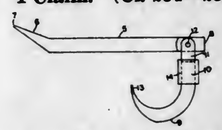
2,325,226
ICE TRAY
Clifford R. Carney, Dearborn, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application January 16, 1941, Serial No. 374,629
11 Claims. (Cl. 62—108.5)



5. An ice tray grid comprising a longitudinal separator member having a plurality of spaced camming portions formed adjacent its upper edge, a plurality of oppositely directed bars having contoured apertured portions engaging said camming portions of the longitudinal separator

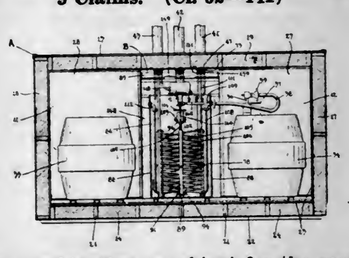
member, and means to move said bars longitudinally in opposite directions to move the longitudinal separator member from a substantially vertical to an angularly inclined position to release ice.

2,325,227
CROWBAR AND PINCH BAR
Clarence F. Chaddock, Los Angeles, Calif.
Application April 7, 1943, Serial No. 482,133
1 Claim. (Cl. 254—25)



In a tool of the kind described, an elongated pry-bar having one end pointed and the other end blunted to receive hammer blows, a hooked nail pulling claw having a forked shank set astraddle the blunted end of the pry-bar and pivotally pinned thereto, whereby the two elements may be longitudinally aligned end to end, or the nail pulling claw may be swung aside, and a collar slidably mounted on the elements and adapted to slide over the joint thereof, for holding the elements in longitudinal alignment.

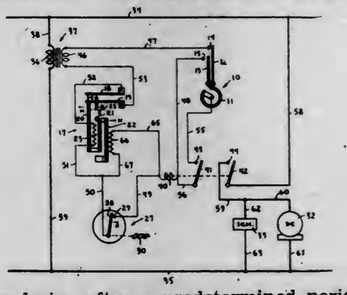
2,325,228
BEVERAGE DISPENSING APPARATUS
Richard T. Cornelius, Minneapolis, Minn.
Application October 11, 1940, Serial No. 360,813
5 Claims. (Cl. 62—141)



1. In combination, a cabinet for the reception of a beverage container, a heat exchange conduit within said cabinet adapted to be connected to the beverage container and to a faucet, a tank for cooling liquid, said heat exchange conduit being disposed within said tank, a vertically extending shaft projecting downwardly into said tank, an impeller on said shaft, said shaft projecting above the tank, a fan attached to said shaft at a locality above the tank, said impeller circulating the cooling liquid within the tank and said fan circulating the air above the tank, from the cooling liquid and to the beverage container and a motor operating said shaft.

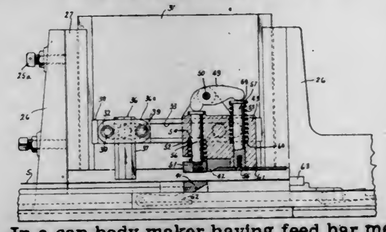
2,325,229
AUTOMATIC BURNER CONTROL SYSTEM
Robert S. Craig, Robbinsdale, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application June 18, 1941, Serial No. 398,611
3 Claims. (Cl. 158—28)

1. A fuel burner control system comprising in combination, an electrical fuel feeding device, an electrical relay in control thereof, a thermal timer comprising an actuating thermostat and a compensating thermostat, a first heater for said actuating thermostat, a second heater for said compensating thermostat, a closed cold stack switch continuously connected in shunt with said second heater, a main switch, and an energizing circuit for pulling in said relay comprising said main switch, stack switch and first heater, energization of said first heater causing said actuating thermostat to deenergize said electrical fuel



feeding device after a predetermined period of time, the establishment of combustion causing said combustion switch to open thereby energizing said second heater to prevent said actuating thermostat from deenergizing said fuel feeding device, said second heater having an impedance such that said relay can be held in but not pulled in when said combustion switch is open.

2,325,230
NOTCHING AND BLANK FORMING APPARATUS
Edward V. Crane, Brooklyn, N. Y., assignor to E. W. Bliss Company, Brooklyn, N. Y., a corporation of Delaware
Application November 19, 1941, Serial No. 419,764
7 Claims. (Cl. 164—51)

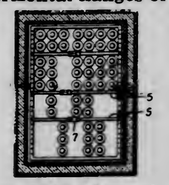


1. In a can body maker having feed bar means for feeding sheet metal through several operating stations, a combined notching and blank cutting apparatus comprising a bed, a frame, vertically reciprocating means mounted on said frame, a notching die and a movable blank cutting knife carried by said reciprocating means, a stationary knife on said bed adapted to cooperate with said movable knife, a hold-down member for clamping a metal strip during the cutting operation and an ejecting member for positively moving the cut-off blank to said feed-bar means for feeding it out of said station, said hold-down member and said ejecting member for moving out the cut-off blank being interconnected and alternately operative on said blank.

2,325,231
BOTTLE RACK
Edwin S. Curtis, Houston, Tex.
Application September 26, 1941, Serial No. 412,437
2 Claims. (Cl. 116—135)

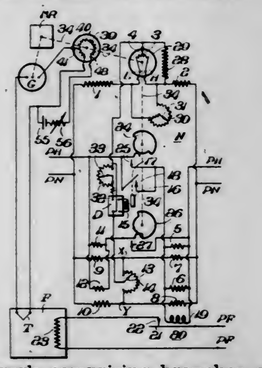
2. A bottle rack shaped to be fitted into a cooler

and comprising a rectangular frame formed of angle irons having horizontal and vertical flanges, supporting legs for the frame anchored to the corners of the frame, transverse bars across the frame adjustable toward and from each other and forming bottle separators, the ends of the bars and the horizontal flanges of the side mem-



bers of the frame being formed one with studs and the other with openings to receive the studs thus providing means for the adjustment of the bars along the frame to selected positions and indicators adjustable longitudinally along each bar, said rack being insertible into and bodily removable from the cooler as a unit.

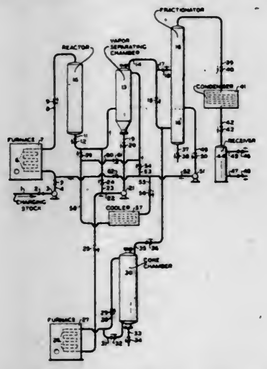
2,325,232
CONTROL SYSTEM
Elwood T. Davis, Brookline, Pa., assignor to Leeds & Northrup Company, Philadelphia, Pa., a corporation of Pennsylvania
Application November 7, 1941, Serial No. 418,117
14 Claims. (Cl. 171—229)



1. A network comprising branches connected in parallel to each other, impedances relatively adjustable in magnitude to vary the potential of a point in one of said branches, serially connected resistors in each of other of said branches, thermal elements in heat transfer relation to said resistors to vary their effective magnitudes of resistance, an impedance interconnecting said other branches at points intermediate serially connected resistors thereof, and electro-responsive means for controlling energization of said thermal elements connected between said impedance and said point of said one of said branches.

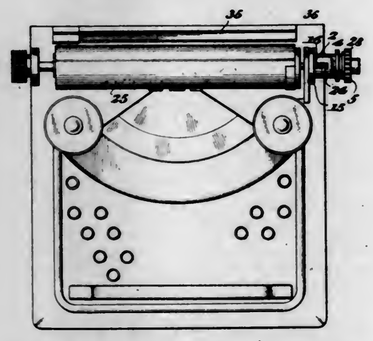
2,325,233
HYDROCARBON CONVERSION
Roland B. Day and Elmer R. Kanhofer, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application August 26, 1940, Serial No. 354,184
9 Claims. (Cl. 196—52)

1. A process for the conversion of hydrocarbon oil which comprises passing vapors of said hydrocarbon oil at a cracking temperature in contact with a mass of granular cracking catalyst to effect conversion thereof, cooling the resulting cracked products, separating the cooled products into a light vapor fraction consisting essentially of hydrocarbons in the gasoline boiling range and reflux condensate, supplying said reflux condensate at a coking temperature to a coke chamber and therein reducing non-vaporous



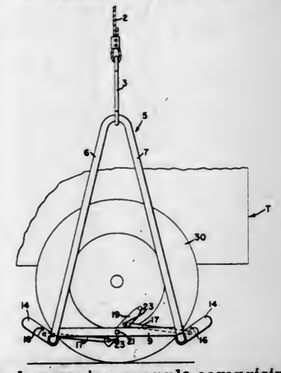
materials supplied to and formed therein to substantially dry coke, commingling vapors generated within said coke chamber with said light fraction, fractionating the mixture to separate fractionated vapors boiling substantially in the range of gasoline and reflux condensate, supplying the last mentioned reflux condensate to the catalytic conversion step, and finally condensing the fractionated vapors.

2,325,234
DEVICE FOR PAPER FEED ROLLERS
José Figueira Saboia de Albuquerque, Rio de Janeiro, Brazil
Application April 15, 1940, Serial No. 329,805
17 Claims. (Cl. 197—141)



4. The combination with the platen of typewriting machines, tabulating machines and the like, and a guide mark on an unrotatable part of the machine, of an adjustable mechanism mounted on a shaft of the platen and adapted to automatically lock said platen against rotation determined by adjusting said mechanism to the guide mark with the bottom edge of the sheet to be typed over the said mark and before typing on the sheet to maintain a predetermined bottom margin on the typed sheet.

2,325,235
WHEEL GRAPPLE
Howard C. Esbeck, Silvis, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application April 27, 1942, Serial No. 440,725
16 Claims. (Cl. 294—82)



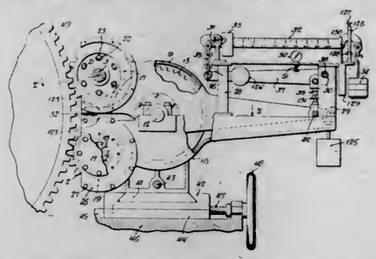
3. A wheel-engaging grapple comprising a rigid support adapted to be disposed against the outer side of a wheel, a pair of spaced apart members at the lower end of said support and adapted to be disposed underneath the wheel at opposite sides of the ground contacting portion thereof, and means engaging the lower part of the wheel for holding the latter on said members.

2,325,236
PROCESS OF TREATING FUR FOR FELTING
Constantine F. Fabian, Brookfield, Conn., assignor, by mesne assignments, to The Frank H. Lee Company, Danbury, Conn., a corporation of Connecticut
No Drawing. Application April 23, 1942, Serial No. 440,251
1 Claim. (Cl. 8—112)

The method of processing carroted fur to render it fast shrinking, capable of providing better felt, and harmless to those performing felting operations thereupon, which comprises passing through said fur for a period of from fifteen to thirty minutes an aqueous solution of a wetting agent stable to acids and having a pH value not exceeding 7.3, said solution being maintained at a temperature of from 165° F. to 180° F., and thereafter draining off said solution and circulating water at a temperature of from 165° to 180° F. through the fur until the pH value of the resulting solution lies in the range of from 5.5 to 6.0.

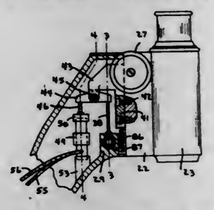
2,325,237
METHOD OF FINISHING GEAR TOOTH SURFACES
Herman W. Falk, Milwaukee, Wis., assignor to Falk Corporation, Milwaukee, Wis., a corporation of Wisconsin
Continuation of application Serial No. 104,854, October 9, 1936. This application April 8, 1939, Serial No. 266,870
1 Claim. (Cl. 29—90)

The method of finishing gear teeth surfaces which consists in meshing with the teeth of a work gear to be finished a tool gear having an effective face narrower than the face of said work gear, maintaining the shaft spacing between said work gear and said tool gear constant, causing the teeth of said tool gear to engage the teeth of said work gear in a driving relationship to establish a finishing pressure between the engaging teeth of said work gear and said tool gear while applying an opposite and tangential torque substantially equal to the torque resulting from said finishing pressure to said work gear at a point on said work gear spaced from



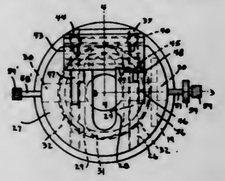
the zone of meshing engagement of said tool gear and work gear, and while said finishing pressure and said countertorque is maintained causing said work gear and tool gear to rotate in mesh with one another and to move axially with respect to one another to extend the treating action around and across the face of said work gear.

2,325,238
MICROSCOPE
Edward F. Flint, Brighton, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York
Application April 17, 1941, Serial No. 388,978
8 Claims. (Cl. 88—39)



1. An optical instrument having a support, a block adjustably mounted on said support, an optical system carried by said block, a yoke pivoted on said block, mechanical means comprising a rotatable member rotatably mounted in said support and operatively connected to said yoke to effect focusing movement of said optical system and piezoelectric means carried by said support and operatively connected to said yoke to move the yoke in accordance with small dimensional changes of the piezoelectric means whereby to focus said optical system, said piezoelectric means and said mechanical means being operatively connected to said yoke on opposite sides of the pivot therefor, said piezoelectric means comprising a piezoelectric unit having a plurality of plates cut from piezoelectric material to develop mechanical motion in a direction parallel to a geometrical axis thereof, each plate provided with an electrode on its opposite faces, said plates being oriented to develop their mechanical motion in the same direction and also arranged adjacent to each other to have their electrodes in contacting relation with the exception of the outer electrodes of the unit, and an electric supply source connected to said electrodes for energizing said unit to cause desired dimensional changes therein.

2,325,239
MICROSCOPE
Edward F. Flint, Brighton, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York
Application May 23, 1941, Serial No. 394,832
11 Claims. (Cl. 88—40)



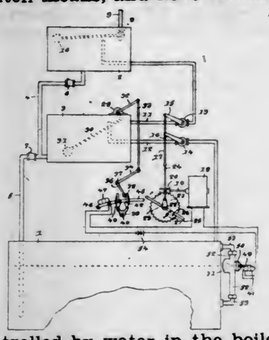
1. In a microscope having a support arm, a stage support on said arm, a stage plate rotatable on said stage support, a slide slidably mounted on said plate, said stage support, plate and slide each provided with a central opening for the passage of light, a second slide mounted on said first slide for sliding movement in a direction transverse to the direction of movement of the first slide, specimen holding means carried by said second slide, gear teeth on said second slide, gear means rotatably carried by said first slide in operative engagement with the gear teeth on said second slide for moving the latter, rack means on said plate, independently operable shafts rotatably journaled in said first slide, pinion means fixed on one shaft in operative relation with said rack means and other pinion means fixed on a different shaft in operative relation with said gear means whereby to selectively move said first slide and rotate said gear means in accordance with the rotation of their respective shafts.

2,325,240
METAL COATING PROCESS
Lowell O. Gill, Decatur, Ill., assignor to A. E. Staley Manufacturing Company, Decatur, Ill., a corporation of Delaware
No Drawing. Application October 5, 1940, Serial No. 359,909
1 Claim. (Cl. 154—2)

In the process of protecting metal wherein said metal is subjected to a bath of molten zinc and while said zinc is still in a molten state on the surface of said metal, applying a protective surface consisting of asbestos fibers, the improvement which comprises the step of applying asbestos paper having incorporated therein a soybean flour size which will become decomposed when exposed to said molten zinc and which will eliminate pungent and objectionable odors and fumes.

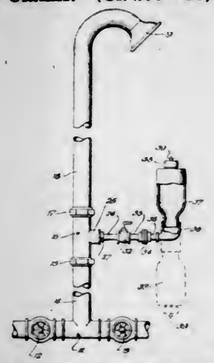
2,325,241
AUTOMATIC FEEDING APPARATUS FOR STEAM BOILERS
James F. Gilmore, Kalispell, Mont., assignor of one-half to Valjean Riley, Kalispell, Mont.
Application October 13, 1941, Serial No. 414,890
6 Claims. (Cl. 122—456)

1. An automatic feeding apparatus for a steam boiler, comprising a tank, a water pipe line between the tank and boiler, a valve controlled steam pipe line between the tank and boiler, a valve controlled steam outlet for the tank, motor operated means for actuating the valves to alternately introduce steam into the tank and to relieve steam therefrom, switch means in circuit with the motor, float actuated means for closing the switch means and controlled by water in the tank, means actuated by the motor for opening the switch means, and float actuated switch



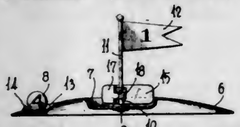
means controlled by water in the boiler and in circuit with the first switch means.

2,325,242
MIXING UNIT
Arthur Gordon, Chicago, Ill.
Application January 24, 1941, Serial No. 375,755
3 Claims. (Cl. 299—83)



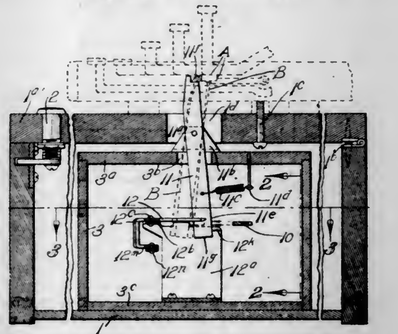
1. A water supply pipe having a valve controlled inlet, and an outlet above the inlet; a liquid chemical feed pipe connected to the water supply pipe between the outlet and the inlet; a liquid chemical container supplying liquid chemical to said feed pipe, said container being at a higher level than the connection of said feed pipe with the water supply pipe but below the level of the water outlet; a check valve in the liquid chemical feed pipe preventing flow of water from the supply pipe to the liquid chemical container when the water inlet is shut off; and means for causing flow of water in said supply pipe from the inlet to the outlet to unseat said check valve.

2,325,243
GAME APPARATUS
Francisco P. Gorospe, Wayne, Pa.
Application May 17, 1941, Serial No. 394,023
3 Claims. (Cl. 273—127)



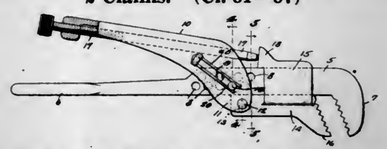
1. A unitary receiver for playing balls comprising a disk having a generally convex upper surface, a cup centrally formed in the disk and a series of generally oval ball-receiving recesses spaced circumferentially on the convex surface of the disk between its edge and the cup.

2,325,244
COIN OPERATED TYPEWRITER CONTROL APPARATUS
Jesse B. Graham, San Diego, Calif., assignor of one-half to Stanley Erl Stensrud, San Diego, Calif.
Application August 3, 1940, Serial No. 350,451
2 Claims. (Cl. 197—193)



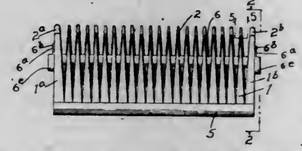
1. In a coin operated typewriter control apparatus of the class described, the combination with a typewriter having a key control member near its lower side, of a typewriter table on which said typewriter is secured, an enclosed casing positioned under said table top directly under said typewriter, a typewriter key retaining lever pivotally mounted on said enclosed casing and extended through said table top and arranged to engage said typewriter key control bar member, a coin controlled mechanism in operative relation with the lower end of said lever for controlling the shifting of said lever into and out of engagement with said typewriter key control bar member, said coin operated typewriter control apparatus including tension spring means mounted in said enclosed casing in connection with said lever tending to hold said lever out of engagement with said typewriter key control bar member, and reciprocally mounted gear and ratchet means in engagement with the lower end of said lever member arranged to shift it in opposed relation with said spring.

2,325,245
PLIER TYPE WRENCH
Joel Hahn, Beatrice, Nebr.
Application October 1, 1942, Serial No. 460,435
2 Claims. (Cl. 81—87)



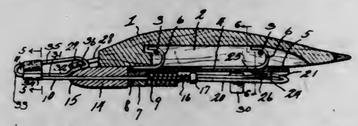
1. In a quick acting wrench, a stationary jaw comprising a shank and a handle, a movable jaw including a yoke, slidable over the shank of the stationary jaw, a lever pivotally and slidably connected with the yoke of the movable jaw and being pivotally connected with the handle of the stationary jaw, said lever adapted to be gripped with the handle of the stationary jaw in operating the movable jaw, a shoulder extending rearwardly from the yoke adjacent to the rear edge thereof, and an adjustable threaded rod extending through the lever and adapted to engage said shoulder restricting movement of said movable jaw in one direction.

2,325,246
HAIR CUTTING COMB APPARATUS
Charles A. Halen, San Diego, Calif.
Application May 13, 1942, Serial No. 442,756
3 Claims. (Cl. 132—19)



3. In a hair cutting comb apparatus of the class described, the combination of two comb members hinged together at their back sides, spring means in connection with said comb members tending to hold them toward each other at their front sides, and a combined spacer and hair guide pivotally connected with one of said comb members and adjustably engageable with the other of said comb members, said combined spacer and hair guide being positioned in angular relation between said comb members spaced from the front portion of the teeth, the spring means for holding said comb members toward each other forming a back for said hair cutting comb apparatus.

2,325,247
COMBINATION FISHHOOK
John Helfenstein, Bismarck, N. Dak.
Application April 21, 1942, Serial No. 439,867
6 Claims. (Cl. 43—36)

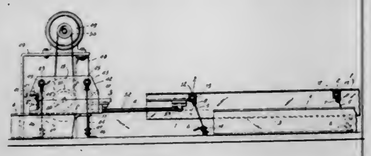


1. A fishing device comprising an elongated member provided at its rear end with a transversely enlarged portion to provide a guard, a sleeve carried by the member, a shaft movable lengthwise through the sleeve, the outer portion of the shaft being provided with means to engage a line, means for constantly urging the shaft inwardly, resilient shanks operatively connected with the shaft and disposed rearwardly of the member, a block carried by the guard of the member and having a forwardly facing socket, and spurs carried by the shanks engaging within the socket of the block to hold the shanks retracted.

2,325,248
VIBRATOR
Robert L. Johnstone, University City, Mo.
Application August 21, 1942, Serial No. 455,657
5 Claims. (Cl. 74—61)

1. Mechanism for producing and imparting vibratory motion, comprising a housing, two coaxial shafts in said housing supported for relative rotation in opposite directions, separate pairs of bearings supporting said respective shafts for ro-

tation and leaving each shaft substantially free from the weight of the other shaft, mechanism for rotatively driving one of said shafts, gearing for rotating the other shaft by said one shaft, weights attached to said shafts, respectively, for rotation thereby within said housing, a frame



supporting said housing, a plurality of pairs of flat springs supporting and preventing tilting of said frame and thereby said housing and leaving said frame and housing free for vibration by said weights, and a connection for imparting vibratory movement of said frame and housing to a device to be operated.

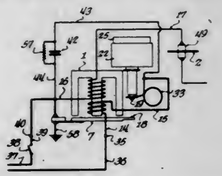
2,325,249

DELAYED ACTION INTERRUPTER ELECTRIC IMPULSE APPARATUS

Arthur P. Jorgenson, Racine, Wis, assignor to Roan Mfg. Co., Racine, Wis., a corporation of Wisconsin

Application December 7, 1939, Serial No. 308,003

5 Claims. (Cl. 175—365)



1. In an apparatus for producing time-spaced electrical impulses, the combination comprising means for displacement of fluid capable of outward and return strokes, means permitting free displacement of fluid by said displacement means during its outward stroke, means for restricting fluid displacement by said displacement means during a predetermined intermediate portion of the return stroke thereof, loading means acting upon said displacement means to urge the same in the return direction, a contact movable in outward and return direction under control of said displacement means, a second contact engageable by said first-named contact when the latter approaches the end of its return stroke and while the same is traveling free of the restraint of said intermediate restraining means, means for creating an electrical impulse actuated by said contacts, and electromagnetic means energized by engagement of said contacts adapted to impart kinetic energy to said displacement means to cause the same to move through its outward stroke against the action of said loading means until said imparted kinetic energy is stored by such loading means in form available to cause the return stroke of said displacement means, whereby said displacement means may be repetitively moved rapidly in the outward direction and under influence of said loading means and said fluid displacement restricting means slowly in the intermediate portion of its return stroke to produce approximately equally time-spaced electrical impulses.

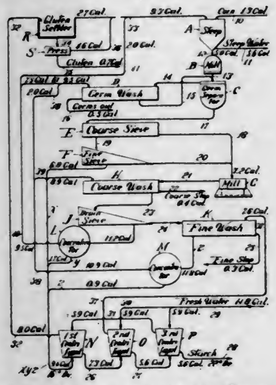
2,325,250

MANUFACTURE OF STARCH

Alfred H. Kelling, Oak Park, Ill., assignor, by mesne assignments, to Corn Products Refining Company, New York, N. Y., a corporation of New Jersey

Original application June 12, 1933, Serial No. 675,412. Divided and this application June 4, 1936, Serial No. 83,537

1 Claim. (Cl. 127—68)



In the manufacture of starch from corn, the method of separating gluten from starch which consists in subjecting the mill starch to a series of centrifugal operations in which the underflow moves from centrifugal to centrifugal in one direction and the overflow in the other; diminishing the underflow in proportion to overflow from centrifugal to centrifugal so as to increase the density of the starch liquor delivered from the system; supplying fresh water to the last two centrifuging operations; and causing the overflow from the last centrifuging operation to by-pass the next operation in advance and enter the operation further in advance in the series.

2,325,251

STORAGE BATTERY CHARGE INDICATOR

James D. Knisely, Seattle, Wash.

Application March 25, 1940, Serial No. 325,808

9 Claims. (Cl. 265—44)



1. A storage battery charge indicator, comprising an inverted U-shaped transparent capillary tube having its return bend above the level of the fluid electrolyte of the battery and having legs of unequal length terminating below the surface of the fluid electrolyte, a pair of upright U-tubes submerged in the electrolyte and having one leg of each communicably connected to a different leg of the capillary tube and the other leg of each filled with electrolyte, and a fluid

column in the longer leg of the capillary tube influenced by changes in the specific gravity of the electrolyte of the battery.

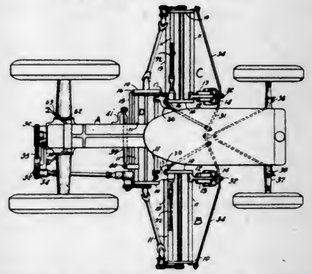
2,325,252

TRACTOR MOUNTED AND CONTROLLED GANG LAWN MOWER

William F. Krenzke, Racine, Wis., assignor to Jacobsen Manufacturing Company, Racine, Wis., a company of Wisconsin

Application February 9, 1942, Serial No. 430,036

7 Claims. (Cl. 56—7)



1. A device of the class described, comprising a tractor having front and rear wheels, two front and a rear mower unit positioned under the frame of said tractor and between the front and rear wheels, said front units being spaced transverse to the direction of travel, the rear unit being positioned in rear of the front units and adapted to pass over the space between the front units, a spacer element, its ends having hinged connections to the front units, draw bars flexibly connected to said spacing element midway its width, the draw bars diverging forwardly with their front ends flexibly connected to the front axle of said tractor, the rear inner ends of said front units and the front outer corners of said rear unit being flexibly connected together whereby the front of the rear unit is carried by the front units, each said units having rear carrying means, castered carrying wheels secured to the front inner corners of the front units.

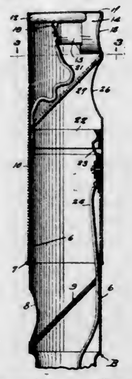
2,325,253

PERISCOPE

Werner E. Laging, Spring Valley, Minn.

Application November 17, 1942, Serial No. 465,890

1 Claim. (Cl. 88—71)



A periscope comprising a handle, a cap mounted to rotate on the handle, about the longitudinal axis of the handle, the handle having lateral peep means, the cap having a lateral objective opening and an illuminating aperture disposed adjacent to the objective opening and close to the outer end of the cap, a first reflector carried by the handle, at the peep means, a second reflector carried by the cap, at the objective opening, the reflectors being disposed at an angle of forty-five degrees to the longitudinal axis of the handle, the second reflector forming a closed chamber in the cap, at the outer end thereof, a closure removably mounted on the outer end of the cap, a transverse and laterally open lamp housing in the chamber and carried by the closure, the housing being in communication with the illuminating aperture and having a socket at its inner end, means carried by the closure for making electrical end contact with a lamp in the socket, and means for making electrical side contact with a lamp in the socket, the last-specified means comprising a flexible conductor extended through the chamber and slack enough to permit the closure to be removed, the second reflector being interposed between the conduit and the objective opening.

2,325,254

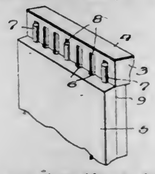
PARTITION CONSTRUCTION

Victor Lefebure, London, England, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain

Application September 6, 1940, Serial No. 355,681

In Great Britain October 20, 1939

3 Claims. (Cl. 72—46)



1. In building constructions, in combination a board having cavities therein opening out of at least one edge thereof, primary fixing members in said cavities extending out therefrom beyond said edge, and a secondary fixing member adapted for attachment to a building part and extending longitudinally along said edge and provided with socket portions therein adapted to enclose and receive said primary fixing members, said secondary fixing member being divided through said socket portions longitudinally thereof into two parts whereby on separating the parts said primary fixing members can be introduced into or removed from the socket portions by simple lateral movement of the board without requiring movement in the plane of the board.

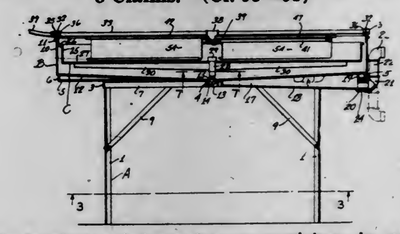
2,325,255

PHOTOPRINT WASHER

William A. Lenz, Lebanon, Mo.

Application February 12, 1941, Serial No. 378,549

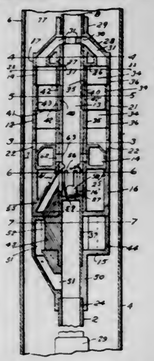
8 Claims. (Cl. 95—93)



1. A photoprint washer comprising, in combination, a support having an annular upstanding flange and a centrally disposed cross-beam, a tub having a conical bottom-wall marginally

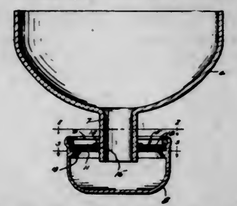
resting on said flange and centrally at its apex on said beam, means including a stud engaging the support-beam and the apex of the tub bottom-wall for securing the support and tub together, said stud being elongated in the provision of an upstanding pintle, a basket having a bottom wall provided with a quill for disposition around the pintle, and a plurality of depending ribs secured marginally to the basket bottom-wall and at their respective inner ends tangentially to the quill and projecting inwardly beyond the quill into engagement one with the other.

2,325,256
FLUID-OPERATED PUMP
Roy E. Leonard, Alhambra, Calif.
Application June 23, 1941, Serial No. 399,316
4 Claims. (Cl. 103—5)



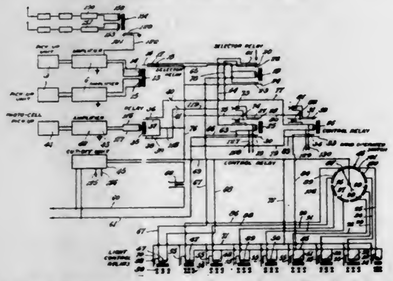
1. In a fluid-operated pump, a pump unit provided with an inlet and an outlet, and with inlets in its sides, said pump unit comprising a vane stator, a vane rotor, a valve resting below said inlets in the sides of the unit, and a pump within the unit for positively lifting liquid through the unit, said rotor being formed with a tubular journal rotatably mounted in said stator and communicating with said inlet and said outlet, means whereby said pump within the unit is operated by said tubular journal, the space occupied by the vanes of said stator and said rotor communicating with said inlets in the sides of the unit and with said outlet, and means for admitting fluid under sufficient pressure from said tubular journal into the pump unit below said valve for raising said valve to close said inlets in the sides of the unit.

2,325,257
MILK STRAINER
Elmer H. Loker, Sergeant Bluff, Iowa
Application July 25, 1942, Serial No. 452,345
1 Claim. (Cl. 210—157)



A strainer of the class described comprising a receiving bowl having a depending neck, a perforated disk integrally formed on said neck, a flange integrally formed on the neck above the disk, a strainer element removably secured on the neck between the disk and the flange, a container having an inturned lip and an internal shoulder below the lip, and a split ring compressed under said lip of the container and clamping the strainer element and disk on said shoulder.

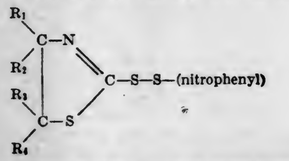
2,325,258
LIGHTING SYSTEM
Vernon L. Mallory, San Antonio, Tex., assignor of seventy per cent to Selden S. Nye, Brownsville, Tex.
Application January 9, 1939, Serial No. 250,075
2 Claims. (Cl. 175—352)



1. In a system of the class described, in combination with boundary lights and flood lights for an airport and a source of audio frequency impulses, an impulse responsive unit responsive to uni-directional impulses and including a relay having a pair of coils connected so that energizing current will produce fields in opposite directions, a current source, a selector relay operatively connected with the first-mentioned relay and having contacts, a pair of control relays having contacts, said control relays being operatively connected with the selector relay, a magnetic switch for controlling current flow to the boundary lights, said switch being connected with one of the control relays, and a magnetic switch for controlling current flow to the airport flood lights, said switch being connected to the other of said control relays, said selector relay being initially energizable for connecting the first-mentioned control relay in the circuit whereby the first-mentioned magnetic switch will be operated for closing the circuit to the airport boundary lights, said selector relay being secondarily energizable for actuating the second-mentioned control relay for energizing the airport flood lights.

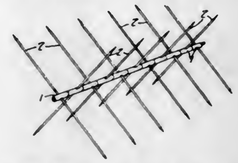
2,325,259
VULCANIZATION ACCELERATOR
Roger A. Mathes, Akron, and Paul C. Jones, Silver Lake, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application December 24, 1940, Serial No. 371,578
6 Claims. (Cl. 260—785)

1. The process of vulcanizing a rubber in the presence of a compound having the structure



in which R_1, R_2, R_3, and R_4 are members of the class consisting of hydrogen, hydrocarbon and alkyl ether groups; and in the presence of a member of the class consisting of monocarboxylic acids and their metallic salts.

2,325,260
BARRIER FOR ANTITANK AND LIKE PURPOSES
William James May, Farnborough, England
Application October 29, 1940, Serial No. 363,385
In Great Britain November 20, 1939
3 Claims. (Cl. 256—1)



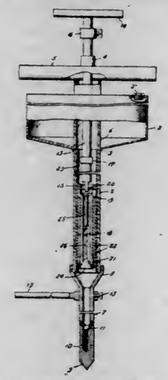
1. A barrier for anti-tank and similar purposes comprising a metal pole-like core composed of a plurality of metal bushes threaded together in series and a plurality of metal rods affixed between their ends to said bushes and arranged in intersecting directions, said bushes being formed with co-axial threaded bores and externally threaded extensions at their opposed ends and also with diametrical holes located across the inner ends of said bores, the bores having said extensions threaded into them and the said extensions abutting against the median parts of the rods to lock the rods to the bushes.

2,325,261
METHOD OF PRODUCING HOISTING SLINGS
Antonio Mazzella, New Haven, Conn.
Application September 26, 1942, Serial No. 459,851
2 Claims. (Cl. 57—156)



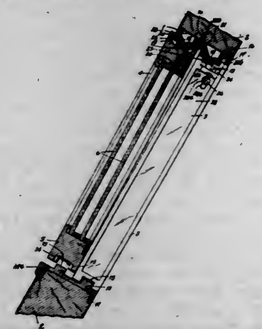
1. That method of constructing a hoisting sling consisting of forming primary eyes in a single length of cable, forming a secondary eye in a certain portion of the cable, helically twisting a certain portion of the cable together beyond the secondary eye, forming another secondary eye in the cable at the extremity of the twisted portions thereof disposing the same against a certain primary eye in registration therewith and securing the same together, twisting the free portion of the cable on the aforesaid twisted portions thereof in the channels of the same and with its strands extending in the same direction as those of the original cables, disposing the primary eye on the free end of the cable against and in registration with the first mentioned secondary eye and securing the same together, and wrapping those registered primary and and secondary eyes at the ends of the twisted portions of the cable.

2,325,262
LIQUID INJECTING DEVICE
Clarence H. McDannel and Clarence O. McDannel, Caldwell, Idaho
Application August 13, 1942, Serial No. 454,704
2 Claims. (Cl. 221—102)



1. In a device of the class described, a liquid container, a tubular pump barrel depending from the bottom of the container, a discharge nozzle at the outer end of said barrel having a valve therein opening outwardly under pressure behind the same, a manipulative plunger rod extending through said container into said barrel, a plunger core of tubular form between said nozzle and rod and having an enlarged head end and a nut on its other end, packing rings surrounding said core between said ends thereof, a cross-pin pivotally connecting said head end to said rod, an outwardly opening valve member adapted to seat against said other end of the core, and a member seating coil spring in said core having the opposite ends thereof connected to said pin and to said member, respectively.

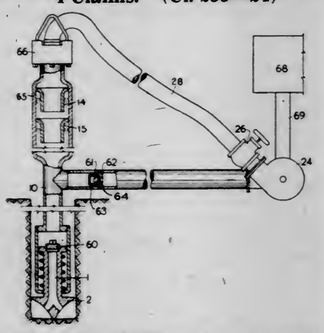
2,325,263
SLIDING DOOR CONSTRUCTION FOR DISPLAY CABINETS
William B. McMillan, Clayton, Mo., assignor to Hussman-Ligonier Company, St. Louis, Mo., a corporation of Missouri
Application December 14, 1940, Serial No. 370,118
4 Claims. (Cl. 20—52.2)



1. A sliding door construction for a display

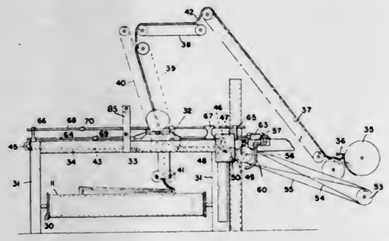
cabinet comprising a wall having a door opening therein, a head strip secured in said opening along the upper edge thereof, a sill strip secured in said opening along the lower edge thereof, said door having longitudinal grooves along the upper and lower edges thereof, said sill strip having a guide rib along the top thereof cooperating with the groove along the lower edge of said door, said head strip having a guide rib along the underside thereof cooperating with the groove along the upper edge of said door, said last mentioned rib and groove having sufficient clearance therebetween to permit the upper edge of said door to be moved outwardly in said opening a limited distance and then upwardly to lift the groove in the lower edge of said door clear of the guide rib of said sill strip, and a downwardly retractable plunger mounted in said door and cooperating with said head strip to prevent such outward movement of said door in said opening, said plunger being disposed with its lower end portion in a recess provided therefor in one end of said door and with its upper portion disposed in the groove in the upper edge of said door, a cover plate for said recess, said recess having a lug projecting from one wall thereof for limiting the downward movement of said plunger, a spring interposed between said plunger and said lug for projecting said plunger upwardly, and a retracting knob for said plunger located exteriorly of said end of said door and having a stem portion extending through a slot provided therefor in said cover plate and secured to said plunger.

2,325,264
HYDRAULIC DRILLING DEVICE
Eugen Merten, Houston, Tex., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application September 27, 1940, Serial No. 358,585
4 Claims. (Cl. 255—24)



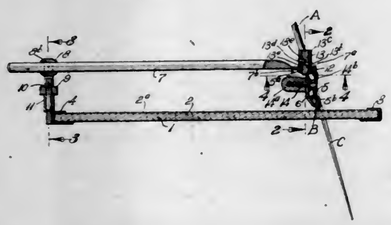
1. A hydraulic drilling system comprising a drill string, a drill bit normally sealing the lower end of said string and adapted for limited axial motion with regard thereto, spring means between said bit and said string regulating said motion, means for circulating a liquid in a closed hydraulic circuit, said means comprising said string, a pump, a first conduit in communication between the low side of said pump and said string, and a second conduit in communication between the high side of said pump and said string at a point spaced from said first conduit, and water-hammer means to reciprocate said bit with regard to said spring, said means comprising a restricted passage in said first conduit and normally open resilient valve means in said passage responsive to a predetermined flow pressure differential across said passage for suddenly closing said passage.

2,325,265
PAD MANUFACTURE
John R. Millar, Reno, Nev., assignor to National Automotive Fibres, Inc., Detroit, Mich., a corporation of Delaware
Application May 29, 1939, Serial No. 276,432
14 Claims. (Cl. 19—163)



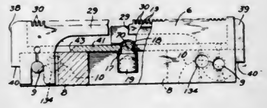
1. Apparatus for building up a continuous batt of tapered thickness which comprises, a conveyor, means for depositing on said conveyor a thin web of substantial width, with the width of said web extending parallel to said conveyor, drive means for moving said depositing means transversely of said conveyor, reversing means for said drive means, and automatically operable cyclical presetting means for said reversing means for effecting reversal of said depositing means at different points, said presetting means comprising a plurality of movable abutments separately operable upon movement of said depositing means in one direction and effective upon movement to actuate said reversing means, and actuator means movable with said depositing means for engaging and moving one of said abutments, and automatic control means for said actuator for causing it to selectively engage said abutments in a predetermined sequence.

2,325,266
SHEAR SHARPENER
Charles B. Mozdy, San Diego, Calif.
Application July 22, 1940, Serial No. 346,849
2 Claims. (Cl. 51—157)



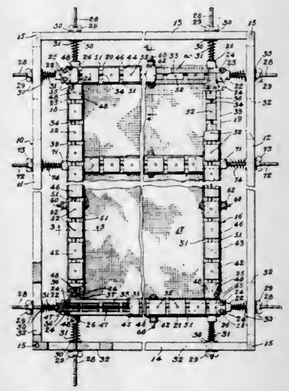
1. In a shear sharpener of the class described, the combination of reciprocally mounted shear blade clamping means, a guide rod connected therewith, a reversibly mounted wedge-like tapered angle adjusting member positioned intermediate said guide rod and said shear blade clamping means arranged for adjusting the angle of the shear for providing a proper bevel on the shear blade, and universally operative means in supporting relation with said guide rod, said shear blade clamping means pivotally connected with said guide rod whereby the angle of the shear blade clamping means may be varied in relation with said guide rod.

2,325,267
DRY SHAVER CUTTER HEAD
Thomas J. Murphy, Stamford, Conn.
Application September 24, 1941, Serial No. 412,055
In Canada September 27, 1940
19 Claims. (Cl. 30—43)



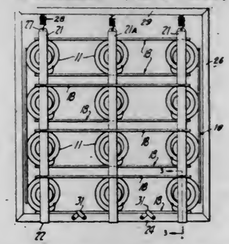
1. In a hair cutter, a skin contacting member adapted to pass over the skin for cutting hair therefrom, said member being provided with sets of opposed teeth having free ends extending toward but not reaching each other and separated by slots, certain recurring slots between the teeth being deeper than other adjacent slots to provide longer cutting edges, and a cutter provided with spaced sets of similarly opposed teeth having free ends extending toward each other operating adjacent the member and cooperating therewith to cut hair from the skin as the cutter is passed thereover.

2,325,268
CURTAIN STRETCHER
Bernard Nelson, Chicago, Ill.
Application January 1, 1942, Serial No. 425,258
12 Claims. (Cl. 45—24)



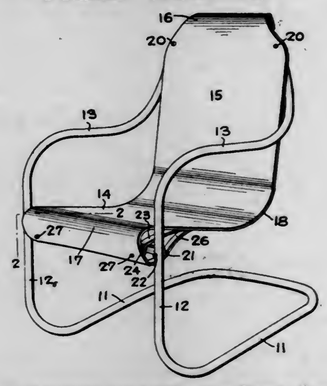
4. In a curtain stretching device, a rigid framework, an inner framework adapted to have a curtain mounted thereon, means for supporting said inner framework and for expanding same, said inner framework being formed of side and end elements laterally rigid but longitudinally extensible said elements being slidably connected to each other and to the rigid framework whereby said curtain may be mounted thereon in unstretched condition and then be stretched upon the expansion of said inner framework, each of said elements comprising a plurality of block members mounted upon and confined by telescoping means and being connected one to the other by an extensible member passing through the entire element, each of said elements having means whereby the edge of a curtain may be mounted thereon comprising a second element of substantially similar construction adapted to overlie said first element and sandwich said curtain edge between said elements.

2,325,269
UPHOLSTERING CONSTRUCTION
Holley J. Norwood, Oakland, Calif.
Application September 22, 1942, Serial No. 459,257
2 Claims. (Cl. 5—263)



1. In an upholstering construction, a peripheral frame; a spring unit comprising a plurality of separate springs arranged in rows in a substantially side by side but spaced relationship to one another with the axis of any one spring substantially parallel to that of any other spring, means joining said springs together at both ends thereof and including means for joining together the bottom of each row of springs; said joining means including a first member joined to the bottom of each spring along one side of each row thereof, a second member joined to the bottom of each spring along a side opposite to said one side in each row; and means for positioning and securing said spring unit in said frame and including a plurality of strap members extended between opposite sides of said peripheral frame and woven through said first members and said second members, each strap member being alternately woven with respect to the strap immediately adjacent to it.

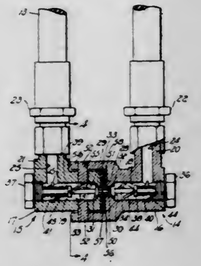
2,325,270
SEAT STRUCTURE
Carl H. Oermann, York, Pa.
Application May 9, 1941, Serial No. 392,602
4 Claims. (Cl. 155—54)



4. Seat structure comprising a frame formed to provide front legs and arm rests, the sides of said frame being shaped at the rear extremities of the arm rests to form back supporting portions, a transverse bar fastened to the leg portions of said frame, a member forming the back and the seat of said structure, said seat extending forwardly of said transverse bar, means securing the back portion of said member to the back supporting portions of said frame, a pair of resilient elements mounted beneath the seat and extending

from an intermediate portion of said seat forwardly to said transverse bar and secured thereto, and a second pair of resilient elements mounted beneath the seat and disposed in substantially the same vertical planes beneath the first pair of resilient elements and extending from an intermediate portion of said seat forwardly beneath said transverse bar and secured at their forward ends to the front portion of the seat.

2,325,271
COUPLER
Talbert W. Paul, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application May 8, 1941, Serial No. 392,453
3 Claims. (Cl. 284—4)

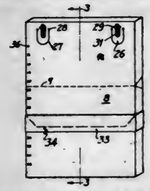


3. Apparatus for releasably connecting fluid conduits on a pair of coupled mobile units, comprising in combination, a pair of flexible hoses connected with and depending from said conduits, couplers attached to said hoses and having helical interengaging surfaces adapted to draw said couplers together in fluid-tight relation when the latter are relatively moved in coupling engagement through an angle of appreciably less than 180 degrees and to automatically uncouple when said mobile units are separated to pull said hoses apart, a poppet valve in each of said couplers, each valve being rotatably mounted on the axis of angular coupling movement of said couplers and movable axially between open and closed positions, said valves having interengageable parts to hold them against relative rotation during relative angular coupling movement of said couplers, and camming means between each of said valves and its associated coupler for moving the valves axially to open position responsive to angular movement of the couplers relative to the valves during coupling movement.

2,325,272
ACCELERATING OF HARDENING OF PLASTIC PROTEIN ARTICLES
Silvio Pellerano, Brooklyn, N. Y., assignor to George Morrell Corporation, Muskegon, Mich., a corporation of Michigan
No Drawing. Application July 8, 1940, Serial No. 344,459
4 Claims. (Cl. 18—48)

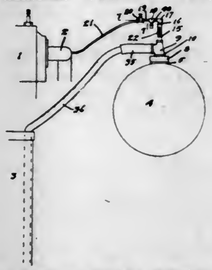
1. The herein described process for accelerating the hardening of shaped articles made from dry extruded protein material, selected from the group consisting of casein, soy bean protein and mixtures thereof, which consists in soaking said articles for a predetermined time in a solution consisting solely of a zinc salt dissolved in water and thereafter subjecting such articles to immersion in a formaldehyde solution until thoroughly hardened.

2,325,273
COPYHOLDER
Paula Merker Pung, San Francisco, Calif.
Application December 8, 1942, Serial No. 468,289
7 Claims. (Cl. 120—33)



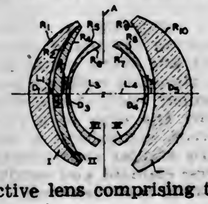
4. A copy holder comprising a box having top, bottom and side walls, an easel leg arranged on the bottom wall, means arranged on the top wall for holding matter to be copied, and a band surrounding the box and slidable thereon as a marker.

2,325,274
TANK FILLING DEVICE
Carl Fraser Pye, Winnipeg, Manitoba, Canada
Application October 20, 1939, Serial No. 300,460
4 Claims. (Cl. 226—116)



1. In a tank filling device having a source of suction connected through an elevated tank to a lower liquid filled tank to elevate said liquid to said elevated tank: a float mounted for up-down movement in said elevated tank from said device; a chamber fluidly connected to said elevated tank, forming part of said suction connection thereto and having a restricted outlet therefrom; a pin slidably mounted in said chamber and adapted to close said restricted outlet upon being moved therealong; said pin supported by said float; said pin weighing sufficient to be normally unaffected by vapor passing thereby and moveable away from said float support to close said restricted outlet and shut off said source of suction by the impact pressure of sucked liquid into said chamber.

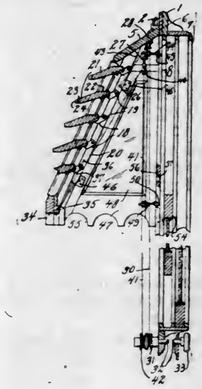
2,325,275
PHOTOGRAPHIC OBJECTIVE
Wilbur B. Rayton, Rochester, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York
Application February 12, 1942, Serial No. 430,647
4 Claims. (Cl. 88—57)



1. An objective lens comprising two groups of

positive and negative meniscus shaped lens elements which are axially spaced apart in unsymmetrical relation on opposite sides of a locus of diaphragm, the concave surfaces of each element facing the locus of diaphragm, the positive elements being positioned on the outside of the negative elements, the negative elements being adjacent the locus of diaphragm with one on each side thereof, the group of elements in front of the locus of diaphragm comprising a negative element and two positive elements spaced apart a small fraction of the focal length of the objective as a whole and with the surfaces of the two positive elements in contact with each other only at their peripheral portions, the group of elements in back of the locus of diaphragm comprising a negative element and a positive element spaced apart a small fraction of the focal length of the objective as a whole.

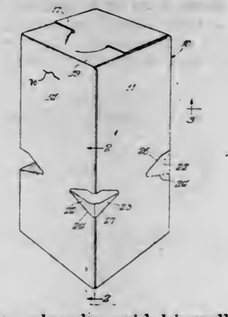
2,325,276
WINDOW COWL
William C. Rife, Toledo, Ohio
Application August 29, 1941, Serial No. 408,847
2 Claims. (Cl. 160—61)



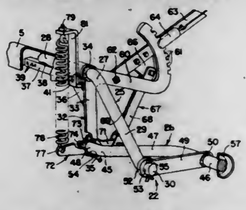
1. A louver device embodying a weather shed body, right and left hand corner members for the body, rockable slats mounted between the corner members and parallel to the body, wings hinged to the corner members and swingable away from the slats into parallelism with each other, said body and wings being detachably mountable as a unit on a building.

2,325,277
DISPENSING CARTON
Charles R. Rothe, Oak Park, and George V. Thompson, Chicago, Ill., assignors to Container Corporation of America, Chicago, Ill., a corporation of Delaware
Application April 8, 1940, Serial No. 328,400
10 Claims. (Cl. 206—56)

1. A container for dispensing paper cups comprising a polygonal tube of flexible sheet material, and retention elements spaced inwardly from one end of the tube, said elements being formed integrally with the material of the tube at the corners and comprising two substantially triangular segments, one in each of two adjacent walls of the container, hingedly connected to each other along a line defining the corner of the tube, said segments being each hinged to a line within the lateral edges of their respective walls disposed at an angle to the hinge line between the segments, and said segments being unconnected to the side walls along their remaining side, whereby said hingedly connected segments can be moved to an inwardly directed position.



2,325,278
LISTER
Walter H. Silver, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application July 18, 1940, Serial No. 346,089
13 Claims. (Cl. 97—234)

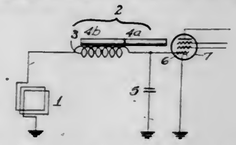


1. A frame construction for agricultural implements and the like, comprising a main frame including a generally transverse member, inverted U-shaped in cross section, a pair of extension members, one at each end of said U-shaped member, each of said extension members comprising a bar substantially round in cross section, the inner end of which is adapted to be disposed in the rounded portion of the associated end of the transverse frame member, the outer portion of each bar extending generally downwardly and laterally outwardly with respect to the portion thereof that is received by said U-shaped transverse member, and a bar generally rectangular in cross section welded to the inner end of each of said extension members, said bar having a width to fit in between the lower portions of said U-shaped transverse frame member, and means securing said bar to the lower portions of said transverse member.

2,325,279
SIGNAL COLLECTING SYSTEM
William A. Schaper, Cicero, Ill., assignor to Johnson Laboratories, Inc., Chicago, Ill., a corporation of Illinois
Application March 8, 1941, Serial No. 382,370
7 Claims. (Cl. 250—40)

7. A signal collecting system for radio receivers and the like including an exposed inductive element, an unexposed inductive element, and a capacitance connected to form a resonant circuit, said unexposed inductive element comprising a winding and a core structure having first and second portions arranged end to end for suc-

cessive movement into and from said winding, said first core portion comprising a ferromagnetic body of comminuted magnetic material in cylindrical form and said second core portion comprising a thin walled non-magnetic tube of good electrical conductivity, the materials of said core portions and their proportions relatively to

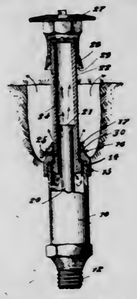


each other and to the inductance of said winding being such as to vary the ratio

$$\frac{\omega L}{R}$$

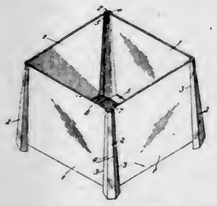
of said resonant circuit inversely as the tuned frequency of said resonant circuit.

2,325,280
LAWN SPRINKLER AND FLUSHING OPENING SEAL
Harry A. Scherrer, San Diego, Calif.
Application January 14, 1941, Serial No. 374,409
1 Claim. (Cl. 299—61)



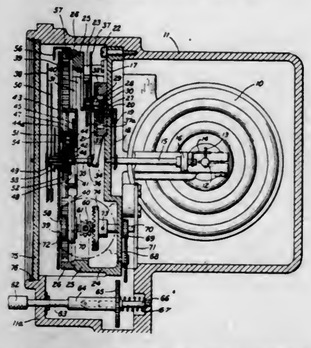
A sprinkler assembly of the class described comprising a hollow body having a lower end adapted to be connected to a water supply line, said body having an open upper end, an overflow tube concentrically secured in the hollow body, a hollow plunger member longitudinally slidable within said hollow body and surrounding the said overflow tube, said plunger being adapted to move upwardly relative to the body and outwardly through the open upper end thereof, said plunger member having an upper water discharge end, a sprinkler head carried by the upper water discharge end of said plunger member and adapted to be raised with the plunger member as water passes into the lower end of said body, a cap carried by the upper end of said body, the cap having an open upper end surrounding said plunger member in spaced relation relative to the plunger member to provide a water outlet means, a beveled seat carried by the cap and surrounding the water outlet means, and being inclined downwardly and outwardly from the water outlet toward the outer edge of the seat, a flange carried by said plunger member, said flange having a beveled under face inclined downwardly and outwardly from its inner toward its outer edge and being adapted to fit snugly upon said beveled seat when the flange is in a closed position upon the cap, the inclined faces of the seat and flange being adapted to direct drainage and accumulated debris from between the seat and flange, and the weight of the plunger member and sprinkler head being adapted to force foreign matter downwardly and outwardly from between the seat and flange by a squeezing action.

2,325,281
BOX
Louis H. Schleicher, St. Louis, Mo.
Application January 21, 1941, Serial No. 375,185
2 Claims. (Cl. 229—8)



1. A polygonal box made of cardboard and comprising an elongated blank including a series of panels constituting side walls, three downwardly flaring corner wall portions integrally connecting adjacent ends of said side wall panels and extending outwardly from the corners of the box and forming enclosed spaces within the box and also extending beyond the lower edges of said side walls to form supporting legs, and a bottom attached to said side walls and having corners extending into and substantially closing the inner central portions of said spaces.

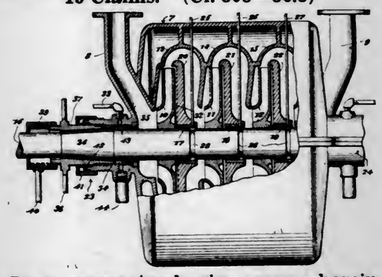
2,325,282
ANEROID BAROMETER
Kurt R. Schwenn, Bloomfield, N. J., assignor to Bendix Aviation Corporation, Bendix, N. J., a corporation of Delaware
Application December 6, 1940, Serial No. 368,930
10 Claims. (Cl. 73—4)



9. An aneroid barometer comprising a relatively stationary dial having scale means calibrated in units of barometric pressure, a plurality of intergeared pointers cooperating with said scale means to indicate barometric pressure in inches, tenths of an inch and hundredths of an inch of mercury, aneroid means responsive to changes in barometric pressure and connected to actuate said pointers over said dial, a settable reference marker rotatable about the periphery of said dial and cooperating with said scale means and arranged to coincide with one of said

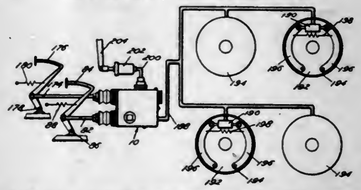
pointers at a predetermined barometric pressure, manually operated setting means for setting said marker independently of said pointers for a predetermined barometric pressure, whereby said marker and said one pointer coincide when said predetermined barometric pressure occurs or is reached, and reference indicating means calibrated in the same units of barometric pressure as said scale means and connected to be actuated by said manually operated setting means simultaneously with said reference marker and independently of said pointers, for indicating the barometric pressure for which said marker has been set, said reference indicating means comprising a counter including a plurality of numeral wheels arranged in juxtaposition, each wheel having a set of numerals and being rotatable in either direction to select for exhibition a single numeral from each set, said selected numerals constituting a figure representing in inches, tenths of an inch and hundredths of an inch of mercury the barometric pressure for which said reference marker is set.

2,325,283
LUBRICATING SEAL
Judson S. Swearingen, San Antonio, Tex.
Application January 30, 1939, Serial No. 253,693
15 Claims. (Cl. 308—36.3)



1. In an apparatus having zones wherein different fluid pressures exist and partition means separating same, a shaft extending through said partition means into the zones and rotatable at a speed above 3000 R. P. M. to accomplish the function of the apparatus, a bearing for said shaft in the partition means, said shaft and bearing having a radial clearance therebetween when the shaft is rotated at its functional speed, and means maintaining the clearance space completely filled with a body of lubricant under a pressure not less than that existing in the zone having the higher pressure.

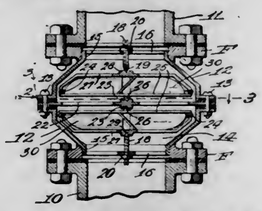
2,325,284
FLUID PRESSURE SYSTEM
Harvey C. Swift, Detroit, Mich., assignor to Hydraulic Brake Company, Detroit, Mich., a corporation of California
Application May 8, 1940, Serial No. 334,043
18 Claims. (Cl. 60—54.5)



1. A fluid pressure producing device comprising a pair of interconnected cylinders, pistons movable therein for creating pressure, independent discharge ports for the cylinders, fluid motors connected to the respective discharge ports, a piston in one of the cylinders between the piston therein and the communication with the other cylinder, said last-mentioned piston operable upon movement thereof to deliver fluid under pressure to the other cylinder, and means for actuating the first mentioned pistons.

16. In a fluid pressure producing device, a reservoir, a cylinder supplied therefrom having a large chamber and a relatively small chamber, an auxiliary cylinder communicating with the small chamber, a controlled discharge port for each of the large chamber and auxiliary cylinder, pistons reciprocable in the large chamber and auxiliary cylinder, and means in the small chamber for controlling the communication of the auxiliary cylinder with the reservoir through the small chamber.

2,325,285
GASEOUS FUEL MIXING DEVICE
Frank G. Szager, Los Angeles, Calif.
Application February 3, 1941, Serial No. 377,167
1 Claim. (Cl. 48—180)

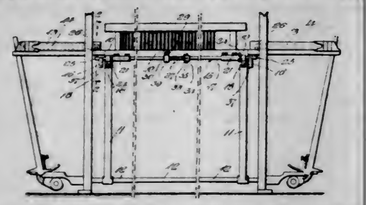


In a gaseous fuel mixing device, the combination with a two part housing providing a mixing chamber, said housing comprising a pair of ring flanges, and housing members having their inner ends detachably connected, the outer ends of said housing members being provided with openings and rigidly seated in said ring flanges, diametrically arranged narrow bars disposed across the openings at the outer ends of said housing members, bearing members adjustably seated in the centers of said bars, a diametrically arranged bar extending across the center of the mixing chamber in said housing, the ends of which last mentioned bar are clamped between the connected ends of said housing members, upper and lower bearing members formed on the center of said mentioned bar, of impeller frames arranged for independent operation between said bearing members each frame including a peripheral ring, a plurality of radially disposed inclined blades arranged within each impeller frame with the blades for one frame oppositely inclined with respect to the blades of the other frame the outer ends of the impeller blades being secured to said peripheral rings and the inner ends of the blades of each set being spaced apart to provide openings to permit the free flow of gaseous fuel axially through the impellers.

2,325,286
PROTECTOR MECHANISM FOR LOOMS
Grover C. Tarte, Blackstock, S. C.
Application April 29, 1942, Serial No. 441,011
5 Claims. (Cl. 139—345)

1. In a protector mechanism for a loom having a lay, shuttle boxes, shuttle binders, swords and and a frog, said mechanism comprising bearings

mounted upon the swords, a protector-rod comprising end protector-rod sections journaled in the bearings and having fingers to engage the binders, an intermediate separate protector-rod section, coupling-sleeves substantially contacting with the inner ends of said bearings and receiving



the ends of the end protector-rod sections and the intermediate protector-rod section, means to clamp the coupling-sleeves to the end protector-rod sections and the intermediate protector-rod section, and a dagger carried by the protector-rod to engage with the frog.

2,325,287

PROCESS FOR HYDROCARBON CONVERSION

Charles L. Thomas, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application June 13, 1940, Serial No. 340,243

6 Claims. (Cl. 260—683)

1. A process for the dehydrogenation of hydrocarbons to produce more valuable products therefrom, which comprises subjecting said hydrocarbons under dehydrogenating conditions to contact with a catalyst comprising alumina and chromia promoted by a minor amount of a compound of cerium.

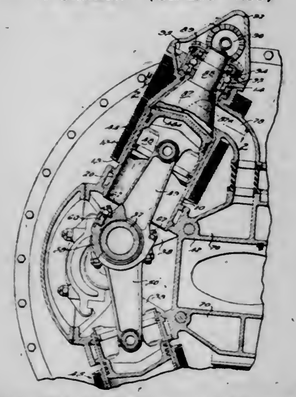
2,325,288

CYLINDER AND METHOD OF MAKING THE SAME

John Tjaarda, Detroit, Mich., assignor to Briggs Manufacturing Company, a corporation of Michigan

Application November 9, 1940, Serial No. 364,962

7 Claims. (Cl. 123—193)



1. An engine cylinder comprising a cylinder barrel having a tapered head, a cooling jacket fitting over said barrel and having a tapered portion engageable with said tapered head, and means for securing said barrel and jacket together in tight intimate surface contact.

2,325,289

PROCESS OF RECLAIMING RUBBER WASTE MATERIALS

Angiolo Treves, New York, N. Y., assignor, by mesne assignments, to Rubber & Plastics Compound Company, Inc., New York, N. Y., a corporation of New York

No Drawing. Application January 21, 1941, Serial No. 375,291. In France May 9, 1940

1 Claim. (Cl. 260—717)

A process for reclaiming rubber waste comprising treating a mixture consisting substantially of the ground rubber waste and about 1–5% of a substance selected from the group consisting of abietic acid and sylvic acid in the absence of water or steam for a period of approximately 30 minutes while maintaining a temperature of between 100 to 140° C.

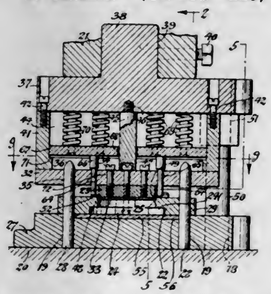
2,325,290

SHEET MATERIAL PUNCHING APPARATUS

George F. Wales, Kenmore, N. Y.

Application September 27, 1941, Serial No. 412,626

40 Claims. (Cl. 164—110)



1. An apparatus for punching sheet material comprising a die and a punch which cooperate and are relatively movable for cutting a blank from a workpiece of such material, and means for removing the scrap of the workpiece from said punch including a plurality of stripping pins adapted to engage the scrap of the workpiece, and means for selectively mounting said pins in different positions relative to said punch.

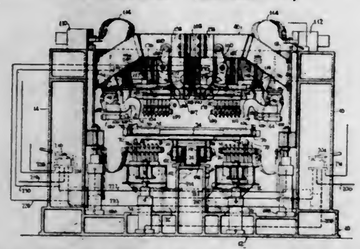
2,325,291

WELDING APPARATUS

William A. Weightman, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania

Application December 7, 1940, Serial No. 369,006

10 Claims. (Cl. 219—4)



9. In a multiple welding apparatus, a support, means for holding a workpiece in operative position on said support, a first pair of mating electrodes mounted on said support, means for transposing said electrodes between inoperative position and said operative position along a predetermined path of movement, a second pair of mating electrodes mounted on said support, and means for transposing said second pair of electrodes between inoperative position and said operative position along a different predetermined path of movement, said operative position being such as to prevent simultaneous placement of both pairs of electrodes.

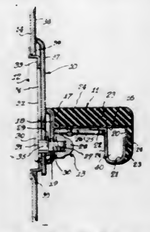
2,325,292

ADJUSTABLE ARMREST WITH DOOR HANDLE

Frederick J. Westrope, Pleasant Ridge, Mich., assignor to F. L. Jacobs Co., Detroit, Mich., a corporation of Michigan

Application October 30, 1940, Serial No. 363,432

5 Claims. (Cl. 155—198)



1. In an arm rest attachable to a panel having an aperture therein, an elongate vertical member slidably engaging one wall of the panel, an approximately horizontal arm rest member adapted to be secured to the panel, a dished vertical member received in said aperture and means extending through the dished vertical member for holding said arm rest member in engagement with said elongate slidable member and for holding said elongate and dished members in engagement with the panel, said dished vertical member having an elongated slot for adjustably receiving said holding means, said elongated vertical member having a hole therethrough approximately corresponding in size to the cross-section of said holding means, and said elongate sliding member extending upwardly beyond said dished member whereby said elongate sliding member serves as a shield to conceal said elongate slot and said panel aperture while permitting adjustment of said arm rest member relatively to said panel.

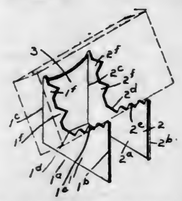
2,325,293

SOAP HOLDER AND SAVER

Darwin M. Wolf, San Diego, Calif.

Application September 5, 1942, Serial No. 457,391

5 Claims. (Cl. 45—28)



4. In a soap holder and saver of the class described, the combination of a box-like member provided with an open front, the upper edges of the sides provided with forwardly and backwardly upwardly inclined upper edges provided with rounded extremity pointed portions thereon, the rearward portions extending higher and at a greater angle than the forwardly extending portions.

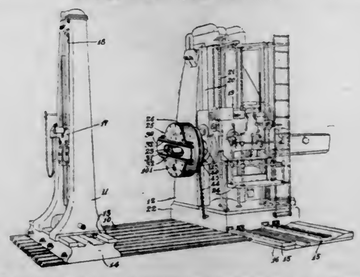
2,325,294

MACHINE TOOL

Raymond M. Woytych, Fond du Lac, Wis., assignor to Giddings & Lewis Machine Tool Co., Fond du Lac, Wis., a corporation of Wisconsin

Application April 24, 1941, Serial No. 390,099

4 Claims. (Cl. 82—1)



1. For use in a machine tool having a revoluble power driven spindle, the combination of an attachment comprising a casing having a central aperture therein to receive the spindle, an adaptor sleeve fixed to said casing coaxially therewith and dimensioned to be telescoped over the spindle, means for releasably fixing said adaptor sleeve and casing to the spindle, said attachment also including a guideway and a tool slide traversable along the guideway, an annular gear freely journaled on said adaptor sleeve, a hand wheel rigid with said annular gear, a flexible line releasably connected to said hand wheel for anchoring the same aganist rotation to hold said gear stationary, and means including a second gear in said attachment and meshing with said annular gear for feeding said slide in timed relation with the rotation of said attachment as the latter revolves and said second gear rolls around the stationary annular gear.

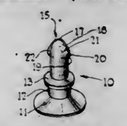
2,325,295

COWL FASTENER STUD CONSTRUCTION

Michael J. Zaleske, Union, N. J., assignor, by mesne assignments, to Talon, Inc., Meadville, Pa., a corporation of Pennsylvania

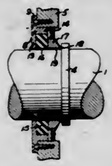
Application July 31, 1942, Serial No. 453,001

7 Claims. (Cl. 24—221)



1. In a stud and spring type fastener for cowling or the like, a rotary stud element having a head at one end to be engaged and turned by a tool, a domed other end and a plurality of integral radial arms adjacent to and merging into said domed end and formed as noses each having inclined, rounded upper and lower surfaces and a rounded end, the said domed end and rounded upper surfaces constituting means to guide the element through an aperture of a cooperating spring strip element, the said lower surfaces constituting cam and bearing means to cooperate with cam and radial groove means of such a spring element, and the said upper and lower surfaces and rounded ends also constituting means to avoid hanging of the stud arms onto other structure when unfastening and removing cowling or the like carrying the stud element.

2,325,296
LUBRICANT SEAL FOR SHAFTS
William G. Baldenhofer, Springfield, Ohio, assignor to The Thompson Grinder Company, Springfield, Ohio, a corporation of Ohio
Application October 17, 1941, Serial No. 415,441
1 Claim. (Cl. 286—7)

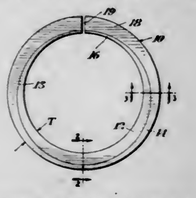


In combination, a shaft having a shoulder, a sealing ring adapted to engage said shoulder, the interior diameter of said ring being greater than the external diameter of said shaft, a retaining ring in which said sealing ring is loosely mounted, a resilient washer interposed between said sealing ring and said retaining ring for yieldingly maintaining said sealing ring against the shoulder of said shaft, said sealing ring and said retaining ring comprising a pair of members, and metallic means loosely connecting said members comprising a pin on one member and a recess extending across said other member longitudinally of said shaft, said pin and groove permitting free unrestricted movement of said sealing ring along said shaft in the direction of said resilient washer and in the direction of said shoulder, whereby all circumferential portions of said sealing means may follow angular misalignment movements of said shoulder, while maintaining a tight seal with said shoulder, said retaining ring having a flange, a housing supporting said retaining ring and flange, said pin being mounted in said flange and abutting said housing and said groove whereby said pin is held in position in both directions.

2,325,297
PRINTING INK
Floyd E. Barmeier, Chicago, Ill., assignor to General Printing Ink Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application August 1, 1940, Serial No. 349,304
6 Claims. (Cl. 106—30)

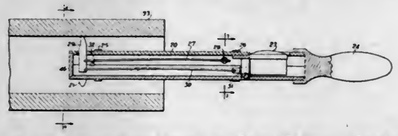
1. For use on a printing press having rollers surfaced with a resinous material which has the capacity of selective absorption of petroleum solvents, an ink comprising a petroleum solvent selected as to solvent characteristics so as to have a kauri-butanol value between 20 and 30, whereby no deleterious absorption of the solvent by the roller surface occurs.

2,325,298
BIMETALLIC PISTON RING
Llewellyn T. Barnes, Hempstead, N. Y.
Application August 14, 1940, Serial No. 352,483
9 Claims. (Cl. 309—44)



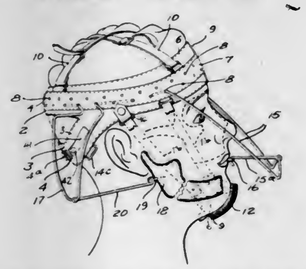
8. A one-piece single-split piston ring comprising two integrally-united nested ring sections of different heat-expansion characteristics, said sections being bonded throughout their entire common contacting surfaces, and being of equal width at their juncture, the radial thickness of the combined sections being uniform throughout the circumference of the ring, and the respective sections having varying and complementary radial thicknesses.

2,325,299
MEASURING APPARATUS FOR THE INSIDE OF BORES
David E. Bench and Melvin A. Crosby, Dayton, Ohio, assignors to Apco Mossberg Company, Attleboro, Mass., a corporation of Massachusetts
Application December 1, 1941, Serial No. 421,192
15 Claims. (Cl. 33—178)



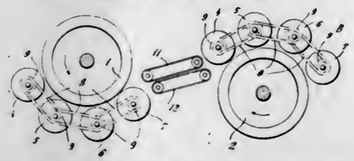
1. A gauge comprising: a fixed beam pivotally mounted at one end; a free beam in association with said fixed beam; size indicating means in association with said free beam; and work contacting means in association with said fixed beam.

2,325,300
FRACTURE APPLIANCE
Harry L. Bisnoff, Jamaica, N. Y.
Application November 2, 1942, Serial No. 464,198
6 Claims. (Cl. 128—87)



1. An appliance for use in the treatment of fractures, malformations, etc., of the jaws and contiguous bone structures, comprising a headband having an underlying band and an overlying band having a series of perforations therein through which the ends of a wire are adapted to be inserted and between which bands said ends are adapted to be maintained.

2,325,301
FULLING OR PLANKING MACHINE
Victor Bohm, Poughkeepsie, N. Y.
Application September 20, 1941, Serial No. 411,693
In Great Britain October 4, 1940
7 Claims. (Cl. 26—20)



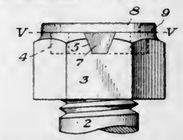
1. A fulling and planking machine comprising

a plurality of main rollers adapted for both rotary and vibratory movements, a group of secondary rollers greater than two and of smaller diameter than the main rollers mounted in substantially tangential relation to each of said main rollers at acute angular distances thereabout, and independent driving means for the main rollers and for the groups of secondary rollers.

2,325,302
HIGH-WET-STRENGTH PAPER
Kenneth W. Britt, Norwood, Pa., assignor to Scott Paper Company, Chester, Pa., a corporation of Pennsylvania
No Drawing. Application November 3, 1938, Serial No. 238,693
8 Claims. (Cl. 117—155)

1. A high-wet-strength paper containing from approximately .5 of 1% to 5% on the basis of the dry weight of the paper, of a resin formed by reacting a urea and an aldehyde only, said aldehyde being a saturated aliphatic aldehyde having from 1 to 4 carbon atoms and said resin being in substantially cured condition.

2,325,303
SELF-LOCKING NUT
Frank W. Brooke, Pittsburgh, Pa.
Application July 29, 1942, Serial No. 452,694
16 Claims. (Cl. 151—7)



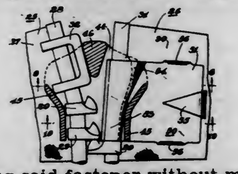
1. A nut provided with an annular terminal recess and radial enlargement thereof extending inwardly towards the threads, a locking insert therein having a radial extension in rotation preventing engagement with said enlargement, and a retaining ring for the insert welded to the nut.

2,325,304
INHIBITION OF CORROSION OF MAGNESIUM AND MAGNESIUM BASE ALLOYS
Charles James Bushrod, Prestwich, England, assignor to Magnesium Elektron Limited, London, England, a British company
No Drawing. Application August 27, 1942, Serial No. 456,424. In Great Britain September 16, 1941
6 Claims. (Cl. 148—6)

1. A method of inhibiting corrosion of magnesium and magnesium base alloys in contact with methyl alcohol and mixtures containing methyl alcohol, which comprises treating the magnesium-containing surface with such alcoholic liquid including an organic acid whose magnesium salt is substantially insoluble in alcohol and water, together with an inorganic alkaline neutralizer.

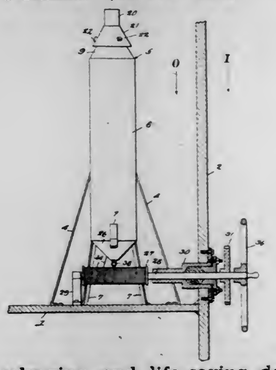
2,325,305
SEPARATING SLIDE FASTENER
Alfred E. Carlile, Meadville, Pa., assignor to Talon, Inc., a corporation of Pennsylvania
Application May 1, 1942, Serial No. 441,301
15 Claims. (Cl. 24—205)

5. In a slide fastener including a pair of stringer tapes having rows of interlocking fastener members thereon and a slider supported on said rows of interlocking fastener members, said slider comprising a pair of spaced, connected wings having marginal side flanges defining a fastener member guide channel and adjacent flanges being spaced to accommodate passage of stringer tapes therebetween, in combination, a top stop on one of said stringer tapes engaged by said slider in its uppermost position and normally connecting said slider with said stringer tape and capable of detachment from said slider for separating said slider and said stringer tape



and stripping said fastener without movement of said slider, and a separating end fitting at the lower end of said fastener comprising complementary members secured to said stringer tapes engageable for maintaining the lower ends of said stringer tapes connected when the stringer tapes are connected thereabove and automatically disengageable upon disconnection of said stringer tapes thereabove for completely freeing said stringer tapes from one another throughout their lengths.

2,325,306
SALVAGING AND LIFESAVING DEVICE FOR SUNKEN VESSELS
Oscar S. Carpenter, Cloverdale, Ind.
Application August 31, 1942, Serial No. 456,810
4 Claims. (Cl. 114—16.5)



4. In a salvaging and life-saving device for sunken water-craft, a vessel, a hollow buoy, a reel located outside the vessel, a flexible element connected to the buoy and wound about the reel, a shaft forming part of the reel and extended within the vessel, releasable means located within the vessel for restraining the shaft against rotation, thereby to hold the buoy against rising, a second reel located outside the vessel, a hollow shaft forming part of the second reel and extended within the vessel, a flexible air conduit wound about the second reel and communicating with the buoy and with the hollow shaft, an air-admission valve carried by the buoy, means for holding the valve releasably closed while the buoy is rising, and mechanism on the vessel and communicating with the hollow shaft, to discharge air under pressure through the conduit and through the buoy, thereby to open the valve after the buoy has reached the surface, and to provide ventilation for the submerged vessel.

2,325,307

DEALKYLATION OF α,β - BIS-(p-ALKOXY-PHENYL)-α,β-DISUBSTITUTED ETHANES AND p,p' DIALKOXY-α,β DISUBSTITUTED STILBENES

Joseph Corse, Indianapolis, Ind., assignor to Eli Lilly and Company, Indianapolis, Ind., a corporation of Indiana

No Drawing. Application December 26, 1941, Serial No. 424,500
6 Claims. (Cl. 260—619)

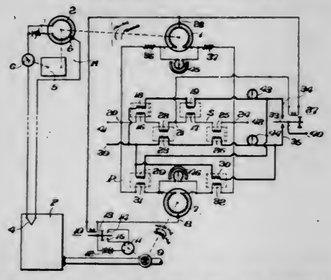
1. The method of dealkylating a composition selected from the class which consists of α,β-bis-(p-alkoxy-phenyl)-α,β-dialkylethanes and p,p'-dialkoxy-α,β-dialkyl stilbenes, the alkoxy groups and the alkyl groups of said ethanes and said stilbenes having less than 5 carbon atoms; said method comprising reacting at a temperature above 190° C. said composition with a solution of an alkali hydroxide dissolved in a solvent selected from the class which consists of water-soluble glycols having less than 5 carbon atoms and water-soluble polyalkylene glycols having less than 10 carbon atoms.

2,325,308

ELECTRICAL SYSTEM

Elwood T. Davis, Brookline, Pa., assignor to Leeds and Northrup Company, Philadelphia, Pa., a corporation of Pennsylvania

Application April 22, 1942, Serial No. 440,039
14 Claims. (Cl. 236—68)



7. A system comprising two balanceable networks unbalanced in response to departure from a desired magnitude of a condition and one of which is rebalanced concurrently with adjustment of a control member affecting the rate of application of an agent controlling the magnitude of said condition, assemblies each comprising a thermally-variable impedance and associated heating means, connections for including said assemblies in said networks respectively, and means responsive to unbalance of the other of said networks for controlling energization of the heating means associated with both networks to effect rebalance of said other network and unbalance of said one of said networks.

2,325,309.

PROCESS OF CAPPING BOTTLES

Jan de Swart, Los Angeles, Calif., assignor of one-half to C. Bland Jamison, Beverly Hills, Calif.

Application December 4, 1942, Serial No. 467,866
2 Claims. (Cl. 226—80)



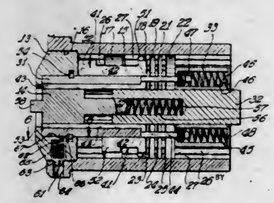
1. The method of applying a plastic cap having an end wall and a marginally beaded skirt to a bottle neck having a marginal flange of semi-circular cross-section, which includes the steps of applying the cap in conforming relation about the neck while the cap is in a softened condition, first placing the end wall under initial tension by hardening it and the adjacent skirt portion, and then placing the end wall under additional tension by finally hardening the marginal skirt portion exclusively about the lower portion of the neck flange below its point of maximum diameter and out of contact with the neck below the flange after the end wall and said adjacent skirt portion have hardened.

2,325,310

LOCK

Leo E. Deutsch, Hammond, Ind.

Application March 2, 1939, Serial No. 259,336
4 Claims. (Cl. 70—382)



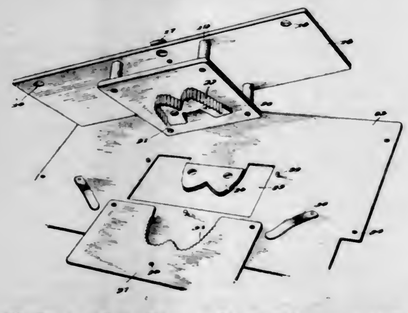
1. A lock of the class described, comprising a casing, a carrier rotatably and removably positioned within said casing, and a plurality of locking actuators supported by said carrier for longitudinal movement relative thereto and adapted to be removed from said carrier and repositioned relative to each other only upon removal of said carrier from said casing, said locking actuators comprising integral members having separate actuating and tumbler portions, and different ones of said tumbler portions being of different lengths to facilitate the setting of different combinations in said lock.

2,325,311

DIE FOR BEVEL CUTTING

Robert L. Ducklo, Cincinnati, Ohio, assignor to The Louis G. Freeman Company, Cincinnati, Ohio, a corporation of Ohio

Application May 18, 1942, Serial No. 443,444
22 Claims. (Cl. 164—29)



22. In combination, a die for forming a bevel cut in leather and the like, comprising a die plate having a cutting blade, a work support parallel to the plane of the cutting edges of the cutting blade, said blade and support being reciprocable

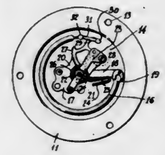
relatively to each other, a forming plate having apertures for registration, pins on the work support for engagement in said apertures, spring clips on the work support to hold the forming plate in registered position, said forming plate having a beveled edge spaced from the cutting blade during the cutting operation, and a backing against which the blade cuts in a plane substantially perpendicular to the cutting surface.

2,325,312

TIME MEASURING INDICATOR

Otto Follender, East Islip, N. Y.

Application December 5, 1940, Serial No. 368,579
2 Claims. (Cl. 161—15)



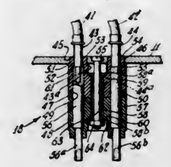
1. A running-time indicator comprising clockwork mechanism, and means to start and stop said mechanism by action upon the periphery of the balance wheel of said mechanism, said means comprising a pressure-actuated member, a rotatable toothed element, means connecting said element with said member, a rotatable toothed member engaging said element, an arm fixed to said toothed member, and a lever movable by said arm and engageable with said balance wheel.

2,325,313

ELECTRICAL CONNECTOR

Clinton B. Gaty, Jamaica, N. Y., assignor to Fairchild Aviation Corporation, Jamaica, Long Island, N. Y., a corporation of Delaware

Application November 19, 1941, Serial No. 419,684
2 Claims. (Cl. 173—332)



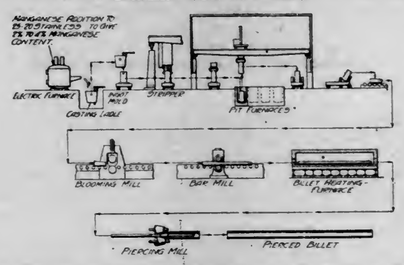
1. An electric plug receiving device for use in a motion picture camera having a top plate, said device comprising, in combination, a pair of dielectric casings, a pair of chambers in each of said casings adapted to register when said casings are secured together, each of said casings having a centrally disposed hole extending axially therethrough, a tubular element extending through said holes and being headed over at each end to secure said casings together, a male-female conductor in each registering pair of chambers, the male end of each conductor extending exteriorly of said device and the female end of each conductor being disposed within said device, and a hollow projection formed adjacent each of said chambers on one of said casings adjacent the female ends of said conductors and adapted to extend through holes in said top plate to insulate from said top plate an electric plug connected to said device.

2,325,314

METHOD OF MAKING HOLLOW ARTICLES

Herbert Habart and Harry W. Hudson, Ellwood City, Pa., assignors to National Tube Company, a corporation of New Jersey

Application August 2, 1940, Serial No. 350,154
1 Claim. (Cl. 29—156)



A method of making stainless steel hollow articles in a seamless tube piercing mill when said steel contains about 25% chromium and about 20% nickel, said method including preparing said steel for piercing by adding manganese while said steel is molten to give said steel a manganese content of from more than 2% to not more than 4% while keeping the other constituents of said steel within usual commercial ranges, rolling said prepared steel to solid billets when it solidifies and subsequently piercing said prepared solid billets in a seamless tube piercing mill, said manganese content causing a material reduction in the load on said mill during said piercing.

2,325,315

HAIR-WAVING CLIP

Max Haberman, Forest Hills, N. Y.

Application July 2, 1942, Serial No. 449,468
6 Claims. (Cl. 132—31)



1. A hair curling clip comprising a fork-like base, a thumb pressing member connected to said base and extending upwardly therefrom, a clamping jaw pivoted to said member and overlying said base, spring means acting upon said jaw to swing the same to closed position toward said base, and a manipulating element fixed to said jaw and extending angularly therefrom, whereby the member and element may be gripped by the thumb and forefinger of the hand of an operator and the element forcibly pressed to swing the jaw to open position to facilitate the sliding of the fork-like base beneath a coiled tress of hair to be waved and whereby subsequent release of the member and element permits the spring means to swing the jaw member to closed position in clamping engagement with the convolutions of the coiled tress of hair.

2,325,316

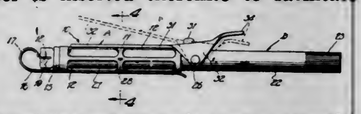
HAIR CURLING DEVICE

Max Haberman, Forest Hills, N. Y.

Application April 14, 1942, Serial No. 438,868
9 Claims. (Cl. 132—33)

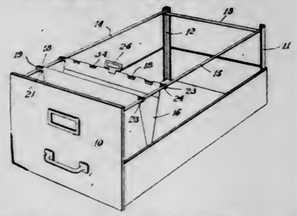
1. A hair curling device comprising in combination, a tubular hair curler member, a spring clip carried by said curler member and extending

substantially the length thereof and coacting therewith for gripping a tress of hair after it is wound thereon, a winding key member slidably insertable into and out of said tubular curler member, and releasable means for connecting the key member to the curler member when the key member is inserted thereinto to facilitate the



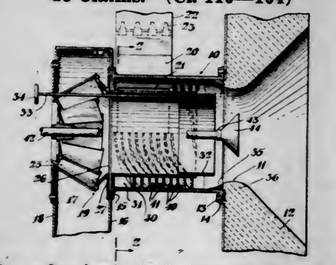
turning of the curler member upon manual turning of the winding key member to wind a tress of hair on the curler member and to facilitate the withdrawal and separation of the key member from the curler member when the tress of hair is fully wound thereon.

2,325,317
FILING DEVICE
Atto N. Hanna, Orange, N. J.
Application September 9, 1941, Serial No. 410,133
6 Claims. (Cl. 129—16.7)



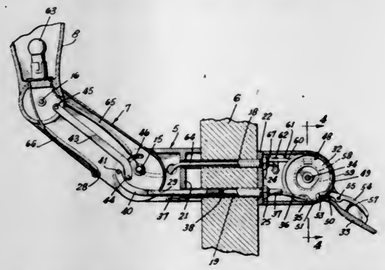
1. A filing device embodying therein a folder, each top edge of which is provided with metal suspension means projecting beyond the side edges of the folder, said means, at one side of the folder, having a hooked end and a downwardly opening slot, and at the other side of the folder having a downwardly opening spring clip one leg of which is secured to said strip and the other or free leg is so formed as to cause said clip to be constricted adjacent the bottom thereof, whereby when placing the folder in, or removing it from, a cabinet, flexing of the free leg of said clip permits engagement or disengagement of said suspension means with a supporting rod, and reflexing of said clip will engage the end portion of the free leg of said clip with the under portion of said supporting rod and prevent accidental upward movement of the folder.

2,325,318
PULVERIZED COAL BURNER
Houston W. Hendrix, Overbrook Hills, Pa.
Application March 10, 1941, Serial No. 382,512
13 Claims. (Cl. 110—104)



1. A pulverized fuel burner comprising a burner tube having an open outlet end adapted to be connected with a burner throat, an inner tube in said burner tube having walls spaced therefrom to form an annular passage therebetween, tangential fuel inlet means including an inlet port in the peripheral wall of said burner tube to supply to said annular passage a stream of pulverized fuel suspended in carrier air under conditions to cause the air-fuel stream to rotate peripherally in said passage, a central axial air admission means supplying a stream of secondary air to said inner tube to advance axially therein, and a plurality of helical vanes in said annular passage spaced apart axially along said inlet port to form a plurality of separate helical passages extending from said inlet port to divide the air-fuel stream into a plurality of individual streams and terminating in uniformly spaced relationship around the periphery of the burner tube at the outlet end thereof whereby the fuel is discharged in a plurality of streams uniformly spaced around the periphery of the burner throat at which point it is brought into contact with the secondary air from within the inner tube.

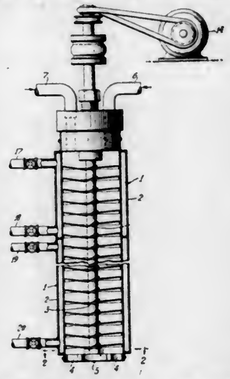
2,325,319
VEHICLE SIGNAL
Joseph B. Holmes, Los Angeles, Calif., and Louis H. Tiley, Fort Collins, Colo.
Application December 12, 1941, Serial No. 422,668
4 Claims. (Cl. 177—327)



2. A vehicle signal comprising a fixed section, a movable arm section, and a movable hand section, said fixed section having two parts, one part being adapted to be mounted on the inside of a wall of said vehicle and the other part on the outside of said wall, a pair of tubular members passing through said wall for fastening said parts together and to said wall, an eccentric pivot connecting said arm section to the part of said fixed section mounted on the outside of said wall, a rod passing through one of said tubular members for rotating said arm section, a second rod passing through said arm section for rotating said hand section a different amount from that of said arm section when said arm section is rotated, and a slot in said arm section to accommodate the connection between said second rod and said part mounted on the outside of said wall.

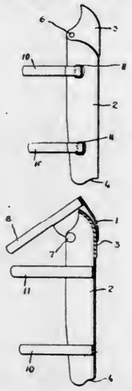
2,325,320
NEUTRALIZATION
Stanley Joseph Holuba, North Bergen, N. J., assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware
Application August 3, 1940, Serial No. 350,920
7 Claims. (Cl. 260—503)

1. The process of neutralizing organic acids which comprises contacting, in the presence of a liquid solvent and in the upper part of an enclosed, substantially vertically-disposed reaction space, an organic acid which forms normally-foaming salts, with a soluble salt of a strong base and a weak volatile acid, whereby a foamy mass containing a liquid salt product and a generated



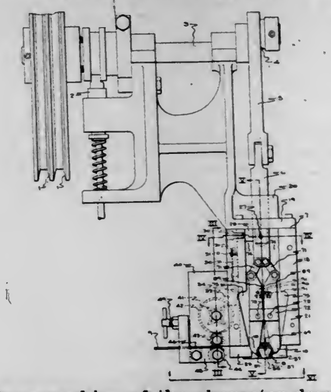
gas is produced; causing the separation of said liquid product and substantial quantities of said gas by agitation, centrifuging and shearing of the foamy mass; and removing said liquid product from the lower part of the reaction space.

2,325,321
KNEE PROTECTOR, ELBOW GUARD, AND THE LIKE
Paul Otto Hubner, Rosettenville, Johannesburg, Transvaal, and Michael Docherty, Germiston, Transvaal, Union of South Africa
Application April 1, 1941, Serial No. 386,338
In the Union of South Africa March 16, 1940
3 Claims. (Cl. 2—22)



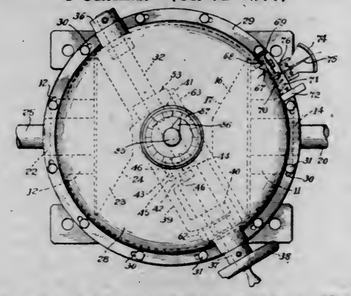
1. A protector, including upper and lower guard members shaped to accommodate a limb above and below the joint thereof, the lower member accommodating the joint and a portion of the limb below the joint, a fastening member to secure the lower member in place, the upper portion of the lower member being formed to provide a definite length of greater rigidity than the remaining length of such member, that portion of the lower member between the fastening member and the lower end of the portion of greater rigidity being of increased flexibility relative to such rigid portion, the upper member having a lower arcuate edge to bear upon the portion of greater rigidity of the lower member, and means for swingingly connecting the members to permit play of the members in joint movement of the limb, whereby in such limb movement the lower arcuate edge of the upper member exerts a pressure on the portion of greater rigidity of the lower member and flexes the lower member at the flexible area to permit relative movement of such section of greater rigidity to maintain substantial contact between the lower edge of the upper member and that portion of greater rigidity of the lower member during limb movement.

2,325,322
CLIP APPLYING MECHANISM
Charles F. Jackson, Jackson, Mich., assignor to Reynolds Spring Company, Jackson, Mich., a corporation of Delaware
Application July 1, 1940, Serial No. 343,361
29 Claims. (Cl. 140—55)



1. In a machine of the character described, a vertically movable member having clip forming means and separate clip closing means, and means cooperating with said member to form a clip from one end of a continuous length of wire and to close another clip, previously formed thereby, on work upon a single downward movement of said member.

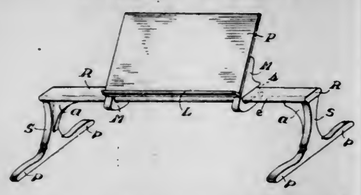
2,325,323
VARIABLE-SPEED TRANSMISSION DEVICE
Carl E. Johnson, San Marino, Earl Mendenhall, San Gabriel, and Bernhard N. Palm, San Marino, Calif., assignors to Sterling Electric Motors, Inc., Los Angeles, Calif., a corporation of California
Application April 5, 1941, Serial No. 387,042
8 Claims. (Cl. 74—200)



1. In a variable-speed transmission, the com-

bination of: a first plate member; means for connecting said first plate member to a drive shaft so as to cause said first plate member to rotate with said drive shaft; a second plate member spaced from said first plate member; means for connecting said second plate member to a driven shaft so as to cause said second plate member to rotate with said driven shaft; rotatable ring means operatively engaging both of said plate members whereby rotation of said first plate member causes rotation of said ring means on a first axis, which in turn causes rotation of said second plate member; means for pivotally supporting said ring means for pivotal movement about a second axis perpendicular to said first axis and into pressure engagement with said plate members; means for moving said ring means while in pressure engagement with said plate members to vary the point of engagement of said ring means with at least one of said plate members so as to vary the rotational speed relation between said plate members; and adjustment means for adjusting the pressure with which said ring means engages said plate members.

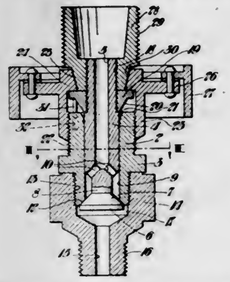
2,325,324
READING APPARATUS
Arthur Atwater Kent, Los Angeles, Calif.
Application January 26, 1943, Serial No. 474,031
4 Claims. (Cl. 45—57)



2. Reading apparatus comprising rest-bar and platen units, the rest bar unit comprising a narrow bar, of materially less than bed-table width, on which may be directly rested either or both hands, supports for said bar secured thereto on opposite sides of the body of the reader recumbent upon a bed, each of said supports at its lower end resting unsecured upon the bed, the platen unit comprising a platen materially shorter than said bar and on which reading matter is supported, and means for mounting the platen unsecured upon said bar, said means having a slot for embracing said bar in prevention of tilting of the platen with respect to the bar and permitting sliding of the platen longitudinally of the bar.

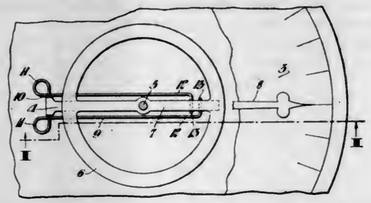
2,325,325
VALVE
William J. Kiene, Chicago, Ill.
Application August 13, 1941, Serial No. 406,702
6 Claims. (Cl. 251—8)

4. A valve of the class described comprising a hollow body member, a valve stem arranged in the hollow portion of said body member for reciprocable movement therein, a valve arranged on the inner end of said valve stem consisting of a flange portion, said body member having a seat arranged therein with which said valve is adapted to cooperate to close the valve when the valve stem is moved reciprocably through the hollow portion of the body member, a left-hand outer threaded portion arranged on said body member, a left-hand interiorly threaded member disposed on the threaded portion of said body member and which engages said valve stem and cooperates with the outer left-hand threaded portion of said body member to move said valve stem reciprocably in the body member to open and close the valve, and means arranged on said valve stem beyond said left-hand interiorly threaded member which is adapted to cooperate therewith



to prevent further rotative movement of the same relative to said valve stem and said body member when the valve stem is moved so that the valve is disposed in its fully closed position whereby the valve stem is locked in such closed position.

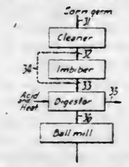
2,325,326
DAMPENING AND MOTION TRANSMISSION MECHANISM FOR GAUGES
William J. Kiene, Chicago, Ill.
Application August 13, 1941, Serial No. 406,703
5 Claims. (Cl. 73—151)



3. In a gauge or the like having a rotatable indicating means, a rotatable member upon which said indicating means is mounted, a rotatable driven member with the axis thereof arranged substantially in alignment with that of said rotatable member, and a spring mechanism arranged between said driven member and said rotatable indicating means consisting of a spring member which is securely attached to said rotatable driven member intermediate the ends thereof with the free ends of the spring extending outwardly into engagement with said rotatable indicating means, said spring member adapted to yieldably rotate said indicating means upon rotation of said driven member whereby a dampening effect is provided for said rotatable indicating means.

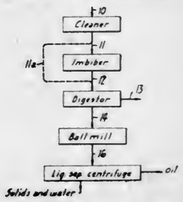
2,325,327
OIL EXTRACTION
Frank B. Lachle, San Mateo, Calif., assignor to The Schwarz Engineering Company, Inc., San Francisco, Calif., a corporation of Nevada
Application June 18, 1940, Serial No. 341,175
5 Claims. (Cl. 260—412)

1. An oil extraction process for cellular oil-bearing materials which includes the step of reducing the material to substantially cellular form in an aqueous medium and liberating the oil from the individual oil cells by subjecting



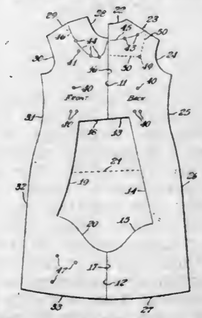
the material to the action of cascading pressure elements in the presence of the medium.

2,325,328
OIL EXTRACTION
Frank B. Lachle, San Mateo, Calif., assignor to The Schwarz Engineering Company, Inc., San Francisco, Calif., a corporation of Nevada
Application July 21, 1941, Serial No. 403,347
7 Claims. (Cl. 195—3)



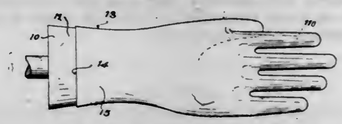
7. An oil extraction process for cellular oil-bearing material containing starch which comprises subjecting the material to the action of a starch reducing agent so as to reduce the starch to sugars and allow or cause the material to imbibe moisture to a point of substantial saturation, then subjecting the material to a treatment to place the material in cellular form in dispersed condition in an aqueous medium and at the same time to apply pressure to the individual cells so as to effect liberation of the oil therefrom, and then recovering the oil from the slurry resulting from the ball mill treatment.

2,325,329
MULTIPLEX PATTERN
Sarah Landa, New York, N. Y.
Application June 9, 1941, Serial No. 397,327
1 Claim. (Cl. 33—12)



A multiplex garment pattern comprising two patterns, one pattern having a contour corresponding to one longitudinal half of the back of a garment, the other pattern having a contour corresponding to one longitudinal half of the front of the garment, each pattern having one longitudinal edge straight, the material of each pattern being removed at a portion of the straight edge to provide a contour integral with the pattern corresponding to one longitudinal half of a sleeve, both longitudinal straight edges of the front and of the back patterns being adapted to be arranged in abutting contact with each other to assemble the sleeve contours to form a complete sleeve pattern, the first named pattern having a contour at the upper portion corresponding to the neck, shoulder and waist peripheral contours of one longitudinal half of the back of a garment, the second named pattern having a contour at the upper portion connecting to the neck, shoulder and waist peripheral contours of one longitudinal half of the front of the garment, each pattern having a plurality of punched openings and arcuate guide lines formed through the openings terminating at the neck and shoulder contours thereof, each shoulder contour having a straight portion, both straight portions of the shoulder contours being adapted to be arranged in abutting contact with each other to assemble the punched openings and guide lines to co-act with the neck contours and the straight longitudinal edges in forming a complete collar pattern.

2,325,330
RUBBER GLOVE
Richard S. Lewis, Willard, Ohio, assignor to Pioneer Rubber Company, Willard, Ohio
Application October 13, 1939, Serial No. 299,376
1 Claim. (Cl. 2—168)



A rubber glove of the character described comprising a body portion formed by dipping to produce a body portion having a terminal edge, an encircling band of thicker rubber applied thereto, extending from a line inwardly of the edge of said body portion to a line beyond said edge, and a second thinner band of elastic material applied to the inner surface of the glove aligned with the first band, but stopping short of the outer edge of said first band beyond said edge of the body portion of the glove.

2,325,331
AMINO-ACID AMIDE DERIVATIVES AND A PROCESS FOR THEIR MANUFACTURE
Henry Martin and Walter Stammbach, Basel, Switzerland, assignors to the firm J. R. Geigy S. A., Basel, Switzerland
No Drawing. Application February 1, 1938, Serial No. 188,203. In Germany February 5, 1937
9 Claims. (Cl. 260—562)

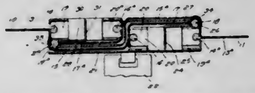
1. A process for the preparation of amino-acid amide derivatives which comprises subjecting n molecular proportions of an amine selected from the group consisting of primary, secondary, and tertiary amines of the aliphatic, araliphatic, hydroaromatic and benzene series in an aqueous medium to the action of a compound which contains easily exchangeable halogen and which corresponds to the formula

$$[\text{halogen}—CH_2—CO—NH]_n—X$$

in which X represents an aromatic radical of the benzene series containing at least two benzene rings, n representing an integer selected from the

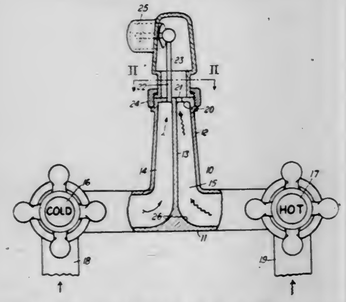
group consisting of 1 and 2, and maintaining said amine and compounded in intimate contact with each other in said medium until the halogen of said compound has been replaced by the radical of the said amine.

2,325,332
INTEGRAL SEPARABLE FASTENER
Isaac Marinsky, Providence, R. I.
Application December 31, 1942, Serial No. 470,719
9 Claims. (Cl. 24—205)



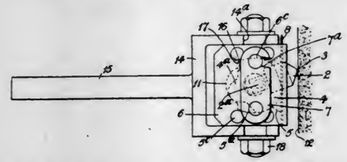
3. In a separable fastener, two tape elements, each tape element comprising a garment attachable portion, a body portion and a sealing portion, two closure link carrier members, one member positioned between the garment attachable portion and the body portion and the second member positioned between the body portion and the sealing portion, said sealing portions having a terminal cord edge, and two sets of closure links mounted on said carrier members, in combination with slider means for simultaneously coupling and uncoupling the respective closure link sets mounted on the first members of each tape element with the closure link sets mounted on the second members of the other tape element, said slider means engaging the terminal cord edges for guiding the sealing portions to extend between the coupled closure links and the tape element body portions.

2,325,333
COMBINED COLD AND HOT WATER SPRAY AND SHAMPOO FITTING
Charles McKendrick, Edinburgh, Scotland
Application September 3, 1942, Serial No. 457,218
In Great Britain October 2, 1941
1 Claim. (Cl. 137—111)



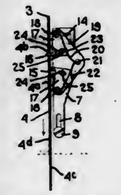
A combined cold and hot water spray and shampoo fitting incorporating a metal T-shaped casting constituted by a tubular cross limb at right angles to a tubular stem, the free end of said stem being externally screw-threaded, two stop valves arranged one at each end of said cross limb, a cold water supply pipe connected to one of said valves, a hot water supply pipe connected to the other of said valves, an end wall at the free end of said stem, a plane partition extending longitudinally through the said stem from said end wall of said cross limb and dividing said casting into two similar L-shaped passages forming, respectively, a cold water side and a hot water side, the said partition being joined to the wall of the cross limb by curved fillets, a tube arranged against the outer face of the said end wall, a screw-threaded coupling nut engaging the screw threads on said stem and serving to secure the said tube to the said stem, an outlet branch which extends laterally from said tube, a pipe of small bore which penetrates the said end wall on the cold water side of the partition, extends through the said tube and the said branch and terminates at the outlet end of said branch, the end wall being formed on the hot water side of the partition with a port to admit hot water to the tube.

2,325,334
DIAMOND AND THE LIKE CUTTING TOOL
Edwin Laurence Meeson, Coventry, England
Application July 1, 1942, Serial No. 449,287
In Great Britain December 16, 1941
9 Claims. (Cl. 125—39)



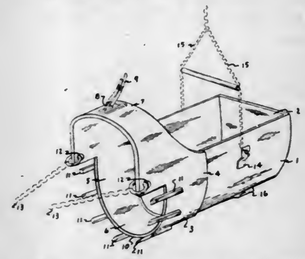
1. A tool of the character described comprising a holder adapted for reciprocation across the operative surface of an abrading wheel, a member free to turn therein, a sleeve free to slide in said member, a mount fixed in said sleeve and carrying at least one cutting element and means for limiting the extent of the turning movement of said member and for controlling the sliding movement of said sleeve.

2,325,335
FILM-FEEDING MECHANISM FOR MOVING PICTURE CAMERAS AND PROJECTORS
Otto B. Meyers, Quakertown, Pa.
Application May 20, 1941, Serial No. 394,301
2 Claims. (Cl. 88—18.4)



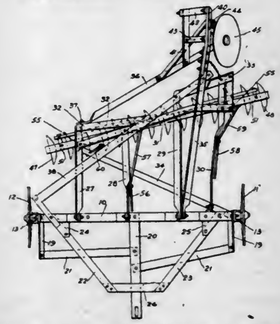
1. A film-feeding mechanism comprising a reciprocating claw-carrying member, means to reciprocate it with an amplitude of movement equal to one-half the distance between the perforations along one side of the film to be fed, a pair of claws independently pivoted on the claw-carrying member and situated one above the other in the same vertical plane, said claws being spaced apart a distance equal to the amplitude of the vibrating movement of the claw-carrying member, and spring means acting on said claws and yieldingly urging them towards the film to be fed, whereby upon successive reciprocations of the claw-carrying member, the claws will operate alternately with each perforation of the same line of perforations of the film to feed the latter forward with a step-by-step motion in which each step corresponds to one-half the distance between adjacent perforations in the film.

2,325,336
EXCAVATOR
Victor Mikan, Durand, Mich.
Application February 27, 1941, Serial No. 380,780
2 Claims. (Cl. 37—135)



1. A drag line ditcher comprising an excavating bucket having an open end, and being of substantially uniform width throughout its length, an excavating lip on said end, said lip having substantially vertical and parallel side portions, and a generally semi-cylindrical bottom portion curved upwardly to meet said side portions, said lip having a plurality of teeth arranged in spaced relation along the full length of the same, whereby the tendency of the ditcher to deviate from a straight line in operation is restrained.

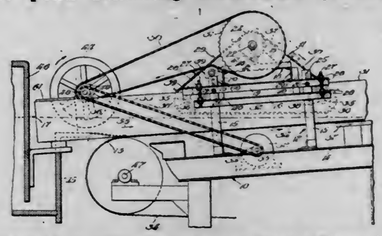
2,325,337
DISK HARROW
Samuel Johnston Miller, Corpus Christi, Tex.
Application January 20, 1942, Serial No. 427,398
In Canada December 5, 1940
10 Claims. (Cl. 55—73)



1. A disk harrow comprising a main frame, a second frame extending to the rear of said main frame and hingedly attached thereto for movement in a vertical plane independently of said main frame, disk units pivoted, on vertical axes, to the second frame, disk wheels supporting said main frame, and means for transmitting the side thrust of said disk units to said disk wheels.

2,325,338
APPARATUS FOR FELTING FIBROUS SHEETS
Carl G. Muench, New Orleans, La., assignor to The Celotex Corporation, Chicago, Ill., a corporation of Delaware
Application October 18, 1939, Serial No. 300,046
2 Claims. (Cl. 92—44)

1. In combination in a machine for felting a fibrous sheet, a head box, a breast roll having an upwardly inclined machine wire running thereover, the breast roll spaced from the head box, a machine chest providing for a machine pond of stock therebetween, a partially submerged agitator mounted operatively for agitation of stock in the machine pond and for agitation of foam on the surface thereof, and a machine pond skimming mechanism positioned

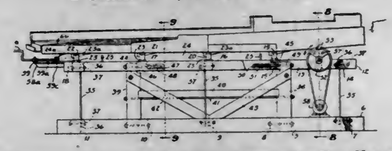


substantially over the machine wire adjacent the breast roll and operative to skim floating froth and fine fibers floating on the surface of the wire furnish and to return such back to the surface of the machine pond and to the sphere of action of the agitator.

2,325,339
PURIFICATION OF CAUSTIC
Irving E. Muskat, Akron, Ohio, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
No Drawing. Application March 25, 1940, Serial No. 325,790
16 Claims. (Cl. 23—184)

6. The process of purifying sodium hydroxide which comprises treating an aqueous solution of sodium hydroxide containing sodium chloride with a substantial amount of ammonia, the concentration of ammonia being such that a separation of liquid phases does not occur, but sufficient to cause precipitation of a solid hydrate under the temperature of operation, and maintaining the concentration of the remaining solution such that at the end of the precipitation, the solubility of sodium chloride therein is sufficiently high to retain at least the major portion of the total quantity of sodium chloride in the initial solution.

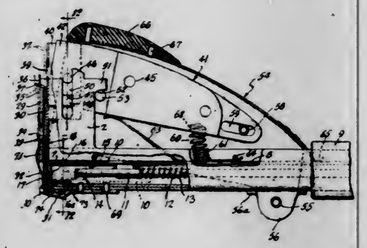
2,325,340
ORE CONCENTRATOR
Ervin O. Oberdick, Cleveland, Ohio, assignor to Cleveland Tungsten, Inc., a corporation of Ohio
Application November 18, 1941, Serial No. 419,578
4 Claims. (Cl. 209—504)



1. In an ore concentrator, a longitudinally and transversely inclined table having longitudinally extending riffles on its upper surface for receiving the mineral constituents of ore pulp, means for passing water over the riffles, means for supporting said table including an upper frame movable in opposite directions from a neutral position and a lower frame, each frame including a pair of longitudinally extending beams and a plurality of spaced cross bars interposed between and secured to the beams for maintaining them in spaced relation, at least some of the cross bars in the upper frame being parallel to some of the cross bars in the lower frame when the upper

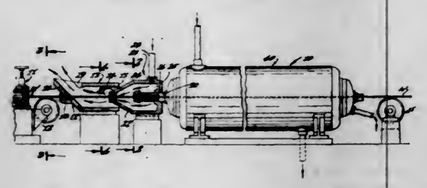
frame is in neutral position, and flexible slats secured to parallel cross bars in the upper and lower frames at a plurality of points along said frames for yieldingly supporting the upper frame, said slats being vertically disposed when the uppper frame is in neutral position, a pair of spaced standards, each of which is secured at its lower end to one of the cross bars in the lower frame and has an upper end adjacent to but spaced from an associated parallel cross bar in the upper frame when the upper frame is in a neutral position, resilient means for normally maintaining each associated upper cross bar in spaced relation to its respective standard when the upper frame is in neutral position, and movable means associated with the upper frame for alternately forcing the cross bar adjacent each standard into engagement with its respective standard against the force of said resilient means.

2,325,341
FASTENER DRIVING MACHINE
Fridolin Polzer, Norwalk, Conn., assignor to The E. H. Hotchkiss Company, Norwalk, Conn., a corporation of Connecticut
Application February 18, 1942, Serial No. 431,352
14 Claims. (Cl. 1—49)



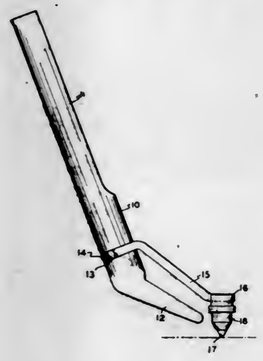
1. A fastener driving machine comprising a handle, means connected with the handle for driving fasteners including a movable driver, a weighted lever for operating the driver on impact of the machine against an object, and a hand lever connected with the weighted lever for operating the driver through operation of the weighted lever by pressure on the hand lever.

2,325,342
WIRE DRAWING APPARATUS
Russell W. Pursel, Indianapolis, Ind.
Application August 27, 1941, Serial No. 408,532
2 Claims. (Cl. 205—16)



1. Apparatus of the character described comprising a wire drawing die, a rotary wheel about which wire passing through the die may be wound, a shield through which the wire which passes around the wheel may pass, said shield being tubular and open at one end, and having an inclined wall at the other end, said inclined wall having an opening through which said wire passes, the top of said shield having an opening adjacent said inclined wall, a furnace provided with means to permit the wire to pass therethrough, and having a conical portion at one end projecting into the first mentioned end of said shield without closing said end of said shield, said furnace having an end wall at its opposite end formed with an opening, a pipe projecting into said opening in said end wall of said furnace and closing said opening, and said pipe having a through opening through which the wire passes, a quenching chamber at one end of the pipe, said wire being adapted to pass through the pipe and through the quenching chamber, said quenching chamber having means to permit the wire to pass out of the quenching chamber, and a jacket surrounding said quenching chamber.

2,325,343
SOUND REPRODUCING STYLUS
Robert E. Semple, Youngstown, Ohio, assignor to The Astatic Corporation, Youngstown, Ohio, a corporation of Ohio
Application January 28, 1942, Serial No. 428,511
13 Claims. (Cl. 274—38)

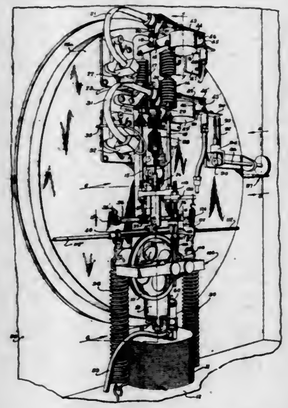


6. A phonograph reproducing stylus comprising a body member having a shank adapted to be received in a transducer socket, the lower end of said member being provided with an outwardly extending foot, a circumferentially extending groove in said member above said foot, an elongated yieldable member extending outwardly beyond said foot and having a portion of its length received in said goove, and a pointed record groove engaging element carried by the outer end of said yieldable member.

2,325,344
UNSYMMETRICAL DERIVATIVES OF 4,4'-DIAMINO-DIPHENYL SULPHONE
Horace A. Shonle and Arthur M. Van Arendonk, Indianapolis, Ind., assignors to Eli Lilly and Company, Indianapolis, Ind., a corporation of Indiana
No Drawing. Application November 2, 1940, Serial No. 364,034
4 Claims. (Cl. 260—397.6)

4. A 4-R-amino-4'-R'-aminodiphenyl sulphone. in which R and R' are different, and each of them is an acyl group in which the number of carbon atoms is between 2 and 4 inclusive.

2,325,345
WEIGHING SYSTEM
Malcolm C. Tate, Stamford, Conn., assignor to The Baldwin Locomotive Works, a corporation of Pennsylvania
Application February 5, 1940, Serial No. 317,286
28 Claims. (Cl. 265—47)

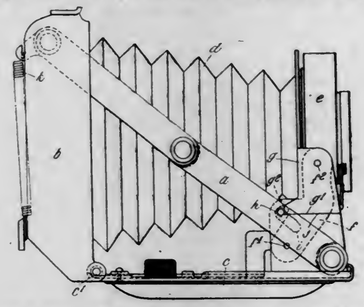


1. In combination, means movable in response to a change in a given condition, an air controlled power mechanism for causing said movable means to be moved oppositely to said responsive movement, relatively movable air jet and baffle elements one of which is moved with said responsive means, and an air supply passage having an orifice therein communicating at all times during normal operation directly with both said power mechanism and air jet whereby movement of said responsive means causes a variation in jet pressure which is transmitted directly to the power mechanism to cause it to move the responsive means in a contrary direction until a balanced relation exists between the servo-motor and responsive means.

21. In combination, a multi-load range weighing system, a multi-load range indicating system having a dial provided with a plurality of sets of load range graduations angularly offset with respect to each other and each load range having its own zero graduation, a load indicating pointer actuated by said weighing system, means for adjusting the zero position of one load range by adjusting one range of the load weighing mechanism whereby the pointer is adjusted to its zero graduation, and means for adjusting the zero position of the other range of the indicating system by moving the dial relative to the pointer.

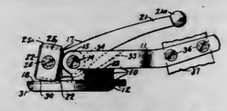
2,325,346
FOLDING CAMERA
Hugh Kerr Thomas, Hadley Wood, Barnet, England, assignor to The Houghton-Butcher Manufacturing Company, Limited, London, England, an English limited-liability company
Application September 29, 1941, Serial No. 412,785
In Great Britain September 30, 1940
4 Claims. (Cl. 95—40)

4. In a folding camera including a lens panel and a baseboard, a lens panel erecting mechanism comprising a locating surface on the lens panel, a cooperating locating surface on the baseboard, linkage means for bringing said locating surfaces into contact with one another upon the erection of said lens panel, and locking means brought into action by said linkage means after said locating surfaces have been brought into contact



with one another and operative to maintain said contact.

2,325,347
TWO-UNIT WORK-SHELF SHEARS
Frederick Toop, York, Pa., assignor to Petco, Inc., York, Pa., a corporation of Delaware
Application July 7, 1938, Serial No. 217,912
11 Claims. (Cl. 30—257)

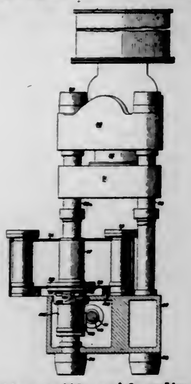


1. In shears of the character described, a normally lower unit that includes a normally horizontal and vertically thin shearing blade, a pivot-bearing above and at rear of the shearing edge of said blade, an arm united with said pivot-bearing and extending rearward therefrom, and means for securing said arm to a support therefor, in combination with a lever that is provided with a pivot within said pivot-bearing and operatively connecting the lever to the pivot-bearing, said lever having an arm that extends rearward from said pivot-bearing and is adapted to be connected to an external mechanical device for effecting rapid upward and downward movements, and a second shearing blade, said lever having a front arm in front of said pivot-bearing, and means for securing said second shearing blade to said front arm in an approximately or substantially vertical position in which its shearing edge is in contact with the shearing edge of said horizontal shearing blade and operable to be moved downward by the upward strokes of the second said arm.

2,325,348
TURRET CONTROL
Warren R. Tucker, Dayton, Ohio, assignor to The Hydraulic Development Corporation, Inc., Wilmington, Del., a corporation of Delaware
Original application April 22, 1940, Serial No. 330,870. Divided and this application April 18, 1941, Serial No. 389,229
6 Claims. (Cl. 18—20)

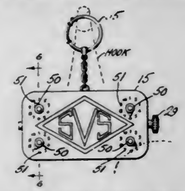
1. In a press, a press head, a press bed, a plurality of substantially vertical strain rods spacing and connecting said press bed and said press head, a vertically reciprocable turret rotatable about one of said strain rods, a double-acting stationary piston forming a part of said last mentioned strain rod and cooperating with a cylinder slidable in longitudinal direction on said stationary piston and being rotatable about the latter, means connected to said cylinder for selectively

engaging and is engaging said turret, and a reciprocable fluid operable member in constant



driving connection with said cylinder for rotating the same.

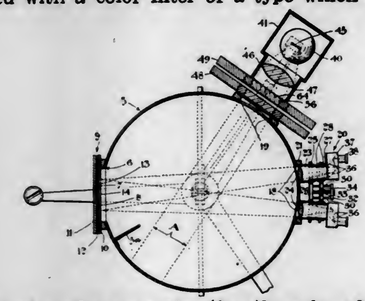
2,325,349
GARMENT LOCKING OR ANTITHEFT DEVICE
Samuel S. Vineberg, Buffalo, N. Y.
Application July 10, 1941, Serial No. 401,773
13 Claims. (Cl. 70—19)



1. A device for the purpose described comprising a casing, a clamp element movably mounted on and cooperating therewith to grip and hold an article between the casing and said clamp element, an operating member for the clamp element arranged in said casing and having an exposed portion for operating it, said operating member being movable relatively to and operatively connected with said clamp element for forcibly moving the latter to grip the article, and means for locking said operating member from releasing movement comprising a rotatable lock element hidden in said casing adjacent said operating member, said member and lock element having interengageable parts which engage and lock said operating member from movement except when said element is moved to a predetermined unlocking position, a part at the exterior of said casing and connected to said lock element for moving it, and means cooperating with said part to indicate when said lock element is in said unlocking position.

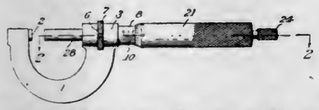
2,325,350
VISUAL COLOR COMPARATOR
Douglas L. West, Montreal, Quebec, Canada, assignor to Howard Smith Paper Mills Limited, Montreal, Quebec, Canada
Application October 29, 1940, Serial No. 363,327
4 Claims. (Cl. 88—14)

1. An instrument for use in comparing, on a qualitative basis and by direct visual examination, the color characteristics of a standard and a sample, said instrument comprising a light-integrating sphere provided with oppositely disposed specimens and viewing openings and an intermediate light admission opening, an external source of light, means for projecting a concentrated beam of light from said source through said light admission opening and across the sphere toward an opposite wall portion thereof located intermediate the specimen opening and the viewing opening, means for holding a standard and a sample in side by side relation over said specimen opening so that they fall under the direct observation of an observer looking into the sphere through said viewing opening, two adjustable filter holders arranged between the light source and the light admission opening of the sphere, one of said holders being provided with a clear opening, a second opening fitted with a color filter of a type which yields



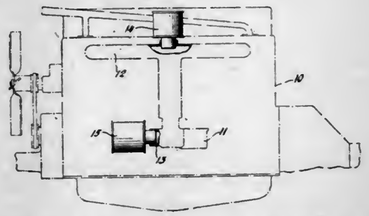
light of a color approximating the color of north sky daylight, and a third opening fitted with a color filter of a type which yields light of a color approximating the color of noon sunlight, the remaining filter holder being provided with a clear opening, a second opening fitted with a red color filter, a third opening fitted with a blue color filter and a fourth opening fitted with a green color filter, and means mounting said holders so that each holder may be shifted to selectively position the opening therein between said light source and said light admission opening.

2,325,351
MICROMETER
Edward E. Willis, Lewistown, Pa., assignor of fifteen per cent to William B. Heaps, Mifflin, Pa.
Application September 22, 1941, Serial No. 411,918
3 Claims. (Cl. 33—165)



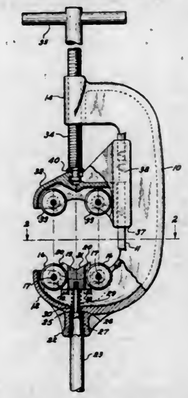
1. A micrometer, comprising a yoke, an anvil at one end, a cylindrical barrel carried by the opposite end of the yoke and provided with a transverse slot intersecting the bore thereof, a tube carried by one end of the barrel and having a scale on the barrel and its opposite end provided with internally threaded outwardly held spring arms, a sleeve sliding within the tube and provided with a threaded end extending into the bore of the barrel and provided with slots to receive said spring arms, an adjusting nut in the slot of the barrel and threaded thereon, a handle slidably mounted on the tube and having a rigid rod telescoping within the sleeve and provided with external threads adapted to be engaged by the threads of the spring arms, and a beveled face carried by the inner sleeve for engaging the spring arms and forcing them into engagement with the threads on the rod.

2,325,352
RESONATOR SILENCER
Ernest E. Wilson, near Milford, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Original application July 25, 1930, Serial No. 470,700. Divided and this application June 15, 1940, Serial No. 340,661
22 Claims. (Cl. 181—48)



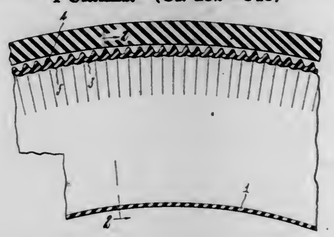
1. In an internal combustion engine, a carburetor, a duct which connects the carburetor with a cylinder of the engine and through which gases and sound waves travel during operation of the engine, a resonator which is arranged as a branch of the duct and is so tuned that it responds to and attenuates by resonance the sound waves of a preselected frequency which travel through the duct, the resonator including a chamber which communicates with the duct on the engine side of the carburetor.

2,325,353
PIPE CUTTER
Clyde E. Wright, Elyria, Ohio, assignor to The Ridge Tool Company, North Ridgeville, Ohio, a corporation of Ohio
Application April 3, 1942, Serial No. 437,583
5 Claims. (Cl. 30—102)



1. A pipe cutter comprising a frame having integral standards at the ends with one of the standards constituting a pocket and the other an internally threaded boss, a pair of spaced cutting wheels rotatably journaled in the pocket with a portion of the wheels projecting beyond the pocket, a guide slidably mounted in ways formed in the pocket between the cutting wheels, a spring disposed between said block and said housing and pressing the block, said guide provided with recesses in the faces adjacent the cutting wheels to facilitate the advancement of the guide beyond said wheels, a slide mounted on said frame and having a pair of spaced cutting wheels rotatably journaled therein, said guide having a face configured for engagement with a pipe to position the pipe cutter in a plane normal to the axis of the pipe.

2,325,354
PUNCTURE-SEALING PNEUMATIC TUBE
Edwin T. Wyman, Brookline, Mass.
Application April 23, 1938, Serial No. 203,832
4 Claims. (Cl. 152—348)



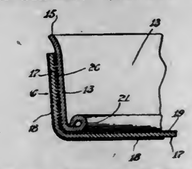
2. A puncture-sealing inner tube made of flexible and resilient vulcanized rubber composition having a tread portion formed with external ridges and valleys, and with interior grooves and arches in the same zones with said external ridges and valleys respectively, there being a solid mass of rubber between the imaginary surfaces which are tangent to the bottom of the outer valleys and the bottoms of the internal grooves respectively.

2,325,355
FIRE EXTINGUISHING APPARATUS
Clarence F. Yost, Ambler, Pa.
Application May 8, 1940, Serial No. 334,053
7 Claims. (Cl. 169—24)



1. In a portable fire extinguishing apparatus, a self-propelled vehicle, a water tank mounted thereon, a pair of manifolds each having a plurality of valve-controlled outlets and at least two inlets, one of said inlets being provided with a check valve and being connectable to an outside source of water, a low pressure pump having its inlet in communication with said tank and its outlet provided with a check valve and in communication with both said manifolds, and a second pump having its discharge in valved communication with both said manifolds and its intake adapted for connection to an outside source of water.

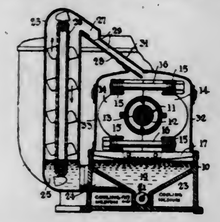
2,325,356
BUNGHOLE STOPPER
Victor Alvear, Passaic, N. J.
Application April 25, 1940, Serial No. 331,541
12 Claims. (Cl. 217—110)



1. A bunghole stopper embodying therein a

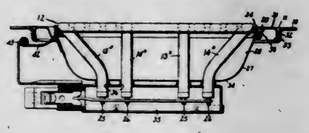
skirted metal shell having an open top, outwardly projecting means about said top adapted to bite into the wall of a bunghole, and an opening through the bottom thereof for the passage of a draw rod, and a cupped envelope of compressible material inclosing the skirt of said shell to a point slightly below the top thereof and extending across the open bottom thereof, the material of said envelope being of a thickness to extend beyond said outwardly projecting means at the top of said shell, and having an exterior protective coating resistant to the contents of a keg or barrel whereby a seal is provided between the skirt of said shell and the wall of the bunghole.

2,325,357
APPARATUS FOR EXPRESSING OIL FROM OIL BEARING MATERIALS
Raymond Tuttle Anderson, Berea, Ohio, assignor to The V. D. Anderson Company, Cleveland, Ohio, a corporation of Ohio
Original application August 1, 1936, Serial No. 93,907. Divided and this application August 14, 1940, Serial No. 352,628
4 Claims. (Cl. 100—48)



4. In an apparatus for expressing oil from material containing the same, the combination of a continuously operating mechanical press including a press barrel with openings throughout substantially its entire surface for the escape of expressed oil; a trough located below said press and designed to receive the expressed oil; means for conveying and showering a portion at least of such expressed oil onto the upper portion of the press barrel, whence it flows over substantially the entire exterior surface of the barrel to remove solid matter therefrom; and means associated with the press for cooling all of the expressed oil that is showered over the barrel, whereby the barrel temperature will be reduced.

2,325,358
HEATING DEVICE
John Lewis Andrews, Elmwood Park, Ill., assignor to Edison General Electric Appliance Company, Inc., a corporation of New York
Application April 10, 1941, Serial No. 387,837
5 Claims. (Cl. 219—37)



2. An electric heating unit for an electric range provided with an opening in its top wall for receiving the unit comprising a pair of interlocked spiral heating elements having down-turned spaced-apart terminal ends, a grid supporting said heating elements, a ring attached to said grid, a reflector pan having side and bottom reflecting walls and also a wall at the top for engaging said top wall to support said reflector within said opening, said reflector being provided with a seat between its said wall at the top and said side and bottom walls for receiving said ring, and also having an opening in said side and bottom walls through which said terminal ends are directed, and means pivotally mounting said terminal ends so that said heating elements and their ring can be pivoted upwardly and downwardly with reference to said reflector, said opening in said side and bottom walls provided for free unobstructed movement of said terminal ends upwardly and downwardly through said reflector.

2,325,359
CHEMICAL PROCESS AND PRODUCT
Walter P. Arnold, Orrville, and Ernest R. Boller, Twinsburg Township, Summit County, Ohio, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 19, 1940, Serial No. 357,414
2 Claims. (Cl. 167—38.5)

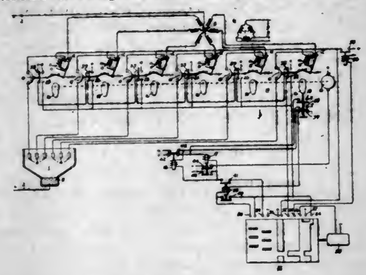
1. A preservative composition to be dissolved in water and used for treatment of cellulosic materials comprising as essential active ingredients zinc chloride, cupric chloride, arsenic pentoxide, and sodium dichromate, the said ingredients being present in substantially the following proportions: 70 to 85% anhydrous zinc chloride, 3 to 29% anhydrous cupric chloride, 1 to 2% arsenic pentoxide, and the balance anhydrous sodium dichromate.

2,325,360
METHOD OF TREATING JUICES AND PRODUCT
Samuel H. Ayers and David L. Loetscher, Philadelphia, Pa., assignors to Crown Can Company, Philadelphia, Pa., a corporation of Pennsylvania
No Drawing. Application February 6, 1941, Serial No. 377,740
12 Claims. (Cl. 99—155)

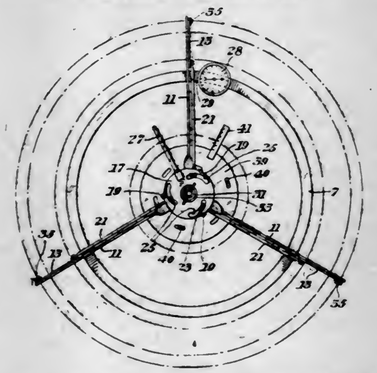
1. The method of treating an acid-containing potable fruit or vegetable juice which comprises deaerating the juice, heating the deaerated juice to a pasteurizing temperature, adding a carbonate to the hot juice in a container in such small quantity that when the container is sealed and the juice cooled the carbon dioxide content of the juice subsequently exposed under ordinary room conditions will be substantially the same as the gaseous content of the original juice, and sealing the treated hot juice in the container.

2,325,361
CIRCUIT INTERRUPTER CONTROL SYSTEM
Herman Bany, Lansdowne, Pa., assignor to General Electric Company, a corporation of New York
Application August 2, 1941, Serial No. 405,265
4 Claims. (Cl. 175—363)

1. In combination, a vapor rectifier comprising a plurality of anodes, an individual circuit interrupter in series with each anode, and means responsive to a reversal of power through an anode for automatically opening and reclosing a predetermined number of times within a predetermined time interval the circuit interrupter in series with the anode through which the power reversal occurs and for opening all of the other circuit interrupters if the circuit interrupter in series with the anode through which the power reversal occurs is open at the expiration of said predetermined time interval.



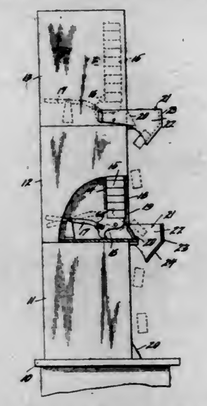
2,325,362
APPARATUS FOR GAUGING DIMENSIONS OF CIRCULAR WORKPIECES
Frank J. Black, Sr., Crafton, Pa.
Application May 14, 1942, Serial No. 442,974
7 Claims. (Cl. 33—203)



1. Mechanism for indicating specified dimensions of parts of a circular workpiece, which comprises a shaft adapted to be inserted in a central bore of the workpiece, an annular frame mounted on the shaft, a plurality of radial arms mounted on the frame and extending outwardly beyond the radius of the largest workpiece to be measured, measuring means slidably mounted on the arms at outer ends thereof, a centering disk fixedly mounted on the shaft, a rotating cam plate on the shaft in front of the centering disk, means spacing the cam plate from the centering disk, radial links extending from the cam plate along each of the radial arms to the measuring means, and means for operating the cam plate to effect radial movement of the measuring means.

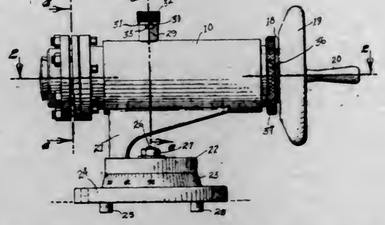
2,325,363
DISPENSING APPARATUS
George A. Blake, New Bedford, Mass.
Application October 16, 1941, Serial No. 415,323
2 Claims. (Cl. 312—42)

1. In combination, a plurality of package dispensing devices arranged in a vertical series, each said dispensing device having a delivery orifice and a member disposed below said orifice and providing an outwardly and downwardly extending delivery surface, and a baffle member associated with each said device above the lowermost, each said baffle member having an inclined surface adapted to receive a package from the



said delivery surface of the associated device and to direct said package toward the delivery surface of the next lower device.

2,325,364
CUTTER FEEDING DEVICE
Joseph W. Boening, Inglewood, Calif.
Application November 23, 1942, Serial No. 466,556
5 Claims. (Cl. 51—219)

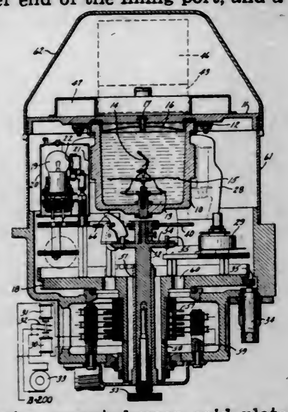


2. In a grinding fixture, an arbor, a tool holder carried thereby, a support in which said arbor is mounted to shift lengthwise and rotate, means for rotating said arbor, spring means constantly urging said arbor to shift in one direction, and relatively engaging members carried by the arbor and support for shifting the arbor in the opposite direction, one of said members being an adjustably deformable cam ring and the other member including an annular series of selectively positionable cam engaging abutments.

2,325,365
MAGNETIC COMPASS
Edwin F. Britten, Jr., Short Hills, N. J., assignor to Monroe Calculating Machine Company, Orange, N. J., a corporation of Delaware
Application January 23, 1943, Serial No. 473,355
6 Claims. (Cl. 33—223)

1. In a magnetic compass having a bowl and an upper closure plate therefor; an expansion chamber laterally offset from the bowl and having port connection therewith through the closure plate, a filling port extending through the expansion chamber and communicating with the bowl through the closure plate, a liquid sealed

air vent connecting the expansion chamber with the upper end of the filling port, and a magnetic



compensator mounted upon said plate immediately above the bowl.

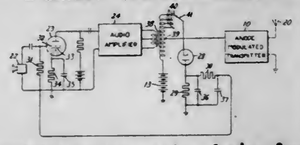
2,325,366

MODULATION CONTROL SYSTEM

George M. Brown, Scotia, N. Y., assignor to General Electric Company, a corporation of New York

Application July 23, 1940, Serial No. 346,947

1 Claim. (Cl. 179—171.5)



In a modulation responsive device for a high frequency amplifier having a cathode electrode and another electrode between which unidirectional operating voltage and modulating signal voltage are supplied, said operating voltage being subject to variations and the total voltage between said electrodes being subject to undesired reversal upon high peaks of said signal voltage, a unilaterally conducting device, an inductance, means for supplying said operating voltage to said device through said inductance with such polarity as to render said device nonconductive so long as peaks of said signal voltage do not exceed said operating voltage, means for applying said signal voltage between said electrodes across a portion of said inductance, and means for supplying said signal voltage across more of said inductance than said portion to said device, whereby said operating voltage and said signal voltage are applied to said device with such relative intensities that said device is normally non-conductive but becomes conductive whenever said signal voltage exceeds a predetermined constant fraction less than unity of said operating voltage on said device.

2,325,367

METHOD OF TREATING FISH LIVERS TO REMOVE THE OIL THEREFROM

Loran Oid Buxton, Belleville, and Sol T. Lipsius, East Orange, N. J., assignors to National Oil Products Company, Harrison, N. J., a corporation of New Jersey

No Drawing. Application June 13, 1941, Serial No. 397,912

20 Claims. (Cl. 260—412.1)

1. In a process for recovering fat-soluble vitamins from marine products, the steps comprising admixing a comminuted marine product selected from the group consisting of fish and fish livers with an oil adsorbent vegetable material, adding thereto an amount of an alkaline medium not to exceed 5% (dry weight) based on the weight of the comminuted marine product, digesting the mass by means of heat and removing the oil from the digested mass.

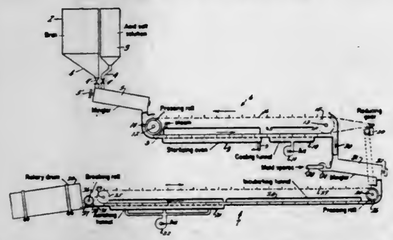
2,325,368

APPARATUS FOR PROMOTING MOLD GROWTH

Leo M. Christensen, Moscow, Idaho, assignor to National Agrol Company, Inc., New York, N. Y., a corporation of Delaware

Application October 7, 1940, Serial No. 360,205

7 Claims. (Cl. 195—138)



1. An apparatus for facilitating the growth of molds on solid substrates of fibrous character comprising a pair of supporting members, a continuous rotatable link, a sterilizing oven, and a cooling tunnel mounted on one of the supporting members, said link being adapted to pass through the said oven and tunnel, an incubating and an aerating tunnel, and a continuous rotatable link mounted on the second supporting member, said link being adapted to pass through the said tunnels, means to rotate the said continuous links, and means operatively connecting the two supporting members to transport the material from the first to the second link.

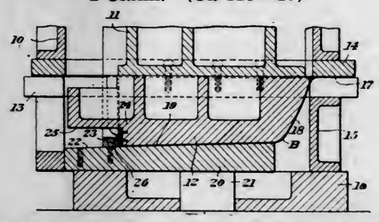
2,325,369

APPARATUS FOR MAKING TUBS

Robert M. Chesney, Alliance, Ohio, assignor to The Steel Sanitary Company, Alliance, Ohio, a corporation of Ohio

Original application August 15, 1941, Serial No. 406,992, now Patent No. 2,290,149, dated July 21, 1942. Divided and this application January 1, 1942, Serial No. 425,300

1 Claim. (Cl. 113—49)



Apparatus for making bell-end blanks of several different lengths for the manufacture of bathtubs in a range of sizes, comprising a die ring having an elongated opening therein rounded at one end, an elongated punch reciprocable therethrough also rounded at one end, a blank-holder ring adapted to engage

a metal sheet on said die ring, the punch having a continuous rounded bottom surface adapted with said rounded end to form the bottom and one end of all the blanks, said surface extending substantially the major portion of the length of said punch and sloping downwardly from said rounded end toward the other end, said other end of the punch being offset from said surface to form a recess, adjacent the end of said surface, a block removably positioned in said recess and detachably secured to said punch, said block extending longitudinally of said surface a sufficient distance to shape the additional bottom area of the longer lengths of blanks and having its bottom sloping at the same angle as said surface, a single compression pad below said punch having a surface complementary in shape to said first-mentioned surface and extending from the rounded end of the punch to the other end overlapping said recess, and thereby being adapted to form the full length of the bottoms of blanks of various lengths, i. e., when said block is attached to the punch or when it is removed, and a filler block positioned on said pad to bend up the end of the sheet as the punch descends into engagement with said pad, and means for detachably securing said filler block to the pad both in a position adjacent the inner end of said recess and in a position adjacent the outer end of the first-mentioned block when the latter is positioned in said recess.

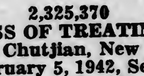
2,325,370

PROCESS OF TREATING TEA

Fanet O. H. Chutjian, New York, N. Y.

Application February 5, 1942, Serial No. 429,599

2 Claims. (Cl. 99—76)



1. The process of treating tea which comprises exposing a mass of tea leaves to the action of ultra-violet light and thereby effecting a reduction in the tannin content of said tea without substantially affecting the other normal characteristics of the tea.

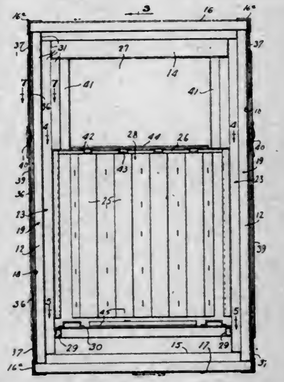
2,325,371

REFRIGERATED SHIPPING CONTAINER

Leonard F. Clerc, Chicago, Ill.

Application August 23, 1941, Serial No. 408,024

16 Claims. (Cl. 62—91.5)



1. A refrigerating container for the shipment and storage of frozen foods and the like, comprising individual heat insulated walls arranged in contacting relation with one another and defining a compartment adapted to hold dry ice and a storage compartment in communication with the dry ice compartment, the adjacent edges of the walls being separated by compressible sealing elements.

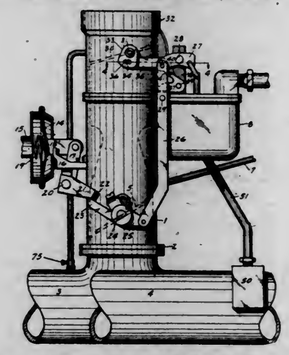
2,325,372

CARBURETOR

Irven E. Coffey, St. Louis, Mo., assignor to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware

Application March 31, 1937, Serial No. 134,070

30 Claims. (Cl. 123—119)



1. In a carburetor, a choke valve, means for opening said choke valve when the temperature is high and for closing said valve when the temperature is low, and means including a suction responsive element for setting up a fluttering action of the choke valve when the motor is being cranked with the choke valve in closed position.

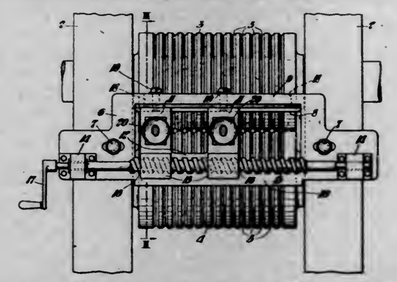
2,325,373

ADJUSTABLE ROLLING MILL GUIDE

Umbert F. Corsini, Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey

Application October 24, 1941, Serial No. 416,425

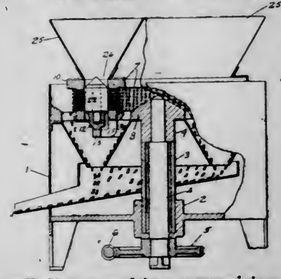
3 Claims. (Cl. 80—51)



1. An adjustable guide for rolling mills having multiple grooved rolls, including a horizontal guide frame having upper and lower rails disposed transversely of the pass line of the mill, said rails being respectively disposed above and below said pass line, a guide box slidably mounted on the frame and disposed between said rails in non-rotatable relation, and a rotatably mounted adjusting screw having threaded engagement with the box for translation of the latter on the frame, said screw being mounted on the frame beneath the pass line of the mill, the pitch of said

screw being equal to the axial distance between the center lines of the roll grooves, whereby the guide box may be selectively aligned with a roll groove by complete rotations of said screw, the length of the frame and the screw permitting adjustment of the guide box substantially throughout the width of the rolls.

2,325,374
PELLETING MACHINE
Claude W. Cover, Portland, Oreg.
Application May 7, 1942, Serial No. 442,119
3 Claims. (Cl. 107—8)



1. A pelleting machine comprising two annular die members, one of which is relatively fixed, the other being revoluble under influence of power, the said dies in the same plane, coaxial, and one spaced inside of the other, a plurality of rollers distributed around the space between the dies and of such size that they are adapted to planetary movement under influence of frictional power transmission when one die is revolved with respect to the other, and means for feeding material to the spaces between the rollers and the dies to be forced through the dies for pellet formation.

2,325,375
AMINOPLAST MODIFIED WITH A MALONIC ESTER
Gaetano F. D'Alelio, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
No Drawing. Application July 23, 1940, Serial No. 346,962
23 Claims. (Cl. 260—70)

1. A composition comprising a potentially heat-curable aminoplast obtained by reaction of ingredients comprising an amidogen compound and an aliphatic aldehyde, said aminoplast being internally modified with a malonic ester corresponding to the formula



where R represents a monovalent hydrocarbon radical.

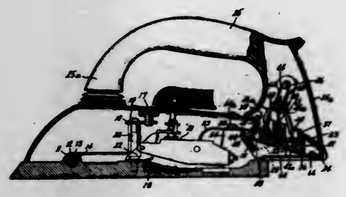
2,325,376
CONDENSATION PRODUCT OF AMIDOGEN COMPOUNDS, ALDEHYDES, AND KETO-ESTERS
Gaetano F. D'Alelio, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
No Drawing. Application August 27, 1940, Serial No. 354,395
11 Claims. (Cl. 260—42)

1. A heat-curable composition comprising a uniform, homogeneous, heat-convertible, resinous reaction product possessing a plasticizing body as a permanent and integral part of the resin molecule, said reaction product being obtained by partially condensing simultaneously ingredients comprising the following components in the stated molar ratios: (1) 1 mol of an amidogen compound, (2) at least 1 mol of formaldehyde and (3) from 0.01 to 0.35 mol of a keto-ester corresponding to the general formula

$$RCOCH_2COOR'$$

where R and R' represent hydrocarbon radicals.

2,325,377
FLATIRON
Alexander M. Dickie, Ontario, Calif., assignor to General Electric Company, a corporation of New York
Application August 21, 1940, Serial No. 353,478
9 Claims. (Cl. 219—25)

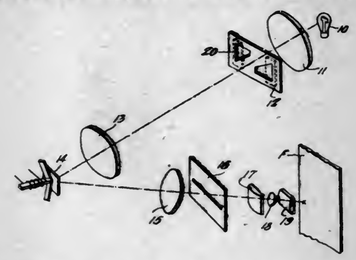


1. An electrically heated flatiron comprising a sole plate, an electric heating element for said sole plate, a shell covering said sole plate, a hollow heel rest for said iron extending rearwardly from the rear edge of said sole plate, said heel rest being open at the bottom and also opening into the rear of said shell, an electrically insulated terminal block within said hollow heel rest, a supporting bracket having a first portion secured to said sole plate and a second portion extending rearwardly into said hollow heel rest, means securing said insulating block to said second portion so as to hold the block in its upright position in said heel rest, said insulating block also having passageways therethrough, electrical supply conductors for said heating element entering said passageways and electrical leads connected to said heating element also entering said passageways, means within said passageways electrically connecting said electrical leads and conductors together, a cover plate closing said hollow heel rest at the bottom, and means securing said cover plate to said second portion of said bracket.

2,325,378
SOUND RECORDING OPTICAL SYSTEM
Glenn L. Dimmick, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application June 30, 1939, Serial No. 282,288
5 Claims. (Cl. 88—24)

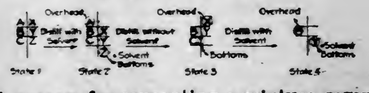
1. For use in a sound recording system having a slit plate and means for directing light modulated in accordance with the sound to be recorded upon said plate, an objective comprising three components for imaging the slit in said plate upon a film, said objective being so constructed and located as to reduce the image of the width of the slit in one ratio and to reduce the image of the length of the slit in a different ratio, two of said components being cylindrical components

spaced apart with their axes perpendicular to the optical axis and at right angles to each other, said third component being spherical and positioned between said cylindrical components, the ratio of the distance between said cylindrical



components to the distance between one of said cylindrical components and said spherical component being of the order of 2.11, and the image in both planes being in focus.

2,325,379
DISTILLATION PROCESS
Emmett L. Durrum, Palo Alto, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application May 26, 1942, Serial No. 444,604
6 Claims. (Cl. 202—40)

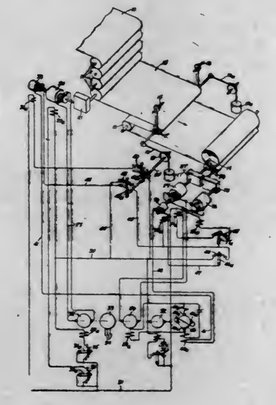


1. A process for separating a mixture comprising a first pair of components A and X and a second pair of components C and Z, the components of said first pair normally having vapor pressures higher than the vapor pressures of the components of said second pair, said components X and Z having relatively lower vapor pressures in the presence of a substantial concentration of a relatively high boiling selective solvent than said components A and C respectively, comprising the steps of fractionally distilling said mixture in the presence of a substantial concentration of said solvent under conditions to form a first overhead product rich in said component A and leave a first bottom product comprising said solvent and said components C, X and Z, further distilling said first bottom product under conditions to form a second overhead product rich in said components C and X and leave a second bottom product comprising said solvent and Z, further distilling at least a portion of said second bottom product under conditions to separate said solvent and Z, recycling at least a portion of the resulting separated solvent to said first mentioned distillation step, and further distilling at least a portion of said second overhead product with substantially reduced concentration of solvent to separate said components C and X.

2,325,380
METHOD OF PREVENTING SKIN DRYING OF INKS, VARNISHES, PAINTS, ETC.
Edward Edwards, Jr., Chicago, Ill.
No Drawing. Application August 9, 1940, Serial No. 351,968
4 Claims. (Cl. 21—2.5)

1. The method of protecting a body of ink or similar material exposed to the atmosphere comprising the application by spray of an extremely light coating of a non-diluting liquid preservative containing a non-drying vegetable oil and at least 10% of an anti-oxidant, to form an effective non-flowing anti-skinning film without adversely affecting the drying and setting qualities of the ink or similar material in its normal use.

2,325,381
CONTROL SYSTEM
Martin A. Edwards, Scotia, and David R. Shoults, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York
Application March 25, 1941, Serial No. 385,098
13 Claims. (Cl. 242—75)

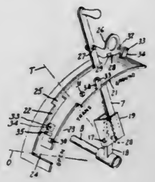


1. A control system for apparatus having an element operating on a length of material and a second element receiving said material from said first element comprising in combination electric motor means for driving said second element, driving means for said first element, a tachometer generator driven by said driving means, a second tachometer generator driven by said motor means, means responsive to the difference in the voltages of said tachometer generators for controlling the supply of current to said motor means to cause said second element to operate at a speed proportional to the speed of said first element, and means for maintaining the tension of said material substantially constant during operation comprising an element movable in response to variations in said tension for varying the current supplied to said motor means, and means for maintaining stalled tension in said material when said apparatus is stopped comprising independent means controlled by the position of said movable element for controlling the supply of current to said motor means.

2,325,382
OPERATING MECHANISM FOR ELECTRIC SWITCHES
William W. Edson, Auburndale, Mass., assignor to General Electric Company, a corporation of New York
Application January 30, 1942, Serial No. 428,881
12 Claims. (Cl. 200—50)

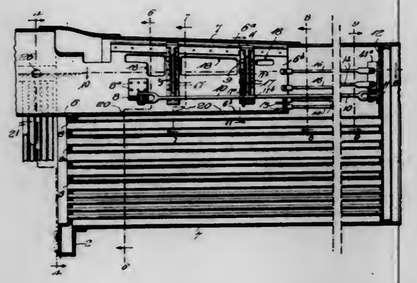
1. In an operating mechanism for an electric switch having a plurality of different circuit controlling positions, a rotatable member, means for turning said rotatable member comprising an op-

erating member mounted on said rotatable member for rotation therewith and, also, relatively thereto, and guiding means for said operating member constructed and arranged to permit only one of the two different rotative movements



thereof at a time and both movements in a predetermined sequence whereby to check the turning of said rotatable member in a position corresponding to a predetermined circuit controlling position of the switch.

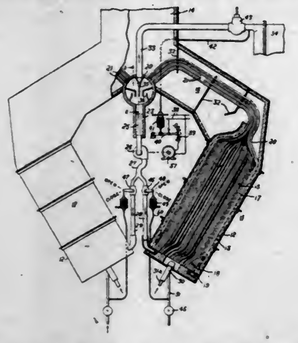
2,325,383
SINGLE DRUM LOCOMOTIVE BOILER
George H. Emerson, Baltimore, Md.
Application November 24, 1941, Serial No. 420,296
4 Claims. (Cl. 122—94)



2. In a locomotive boiler, a drum in the fire box having a forward extension U shape in cross section and extending a major distance into the shell of the boiler, a back flue sheet, fire tubes extending forwardly from the back flue sheet and positioned under said extension, ports in the bottom wall of said extension positioned over said tubes, a baffle plate positioned near the rear of said extension, and a baffle plate positioned near the front end of said extension, an additional baffle plate secured to the said front baffle plate to further retard the flow of water in said extension.

2,325,384
MERCURY BOILER
William L. R. Emmet, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application May 25, 1940, Serial No. 337,285
4 Claims. (Cl. 122—406)

1. Mercury boiler arrangement comprising a drum having axially spaced feed chambers, a plurality of pairs of combusion chambers, the combustion chambers of each pair being symmetrically arranged with regard to and inclined towards the vertical center line of the drum, heating tubes disposed within the combustion chambers, means for conducting mercury liquid from each feed chamber to the heating tubes of one pair of chambers, and conduit means connecting

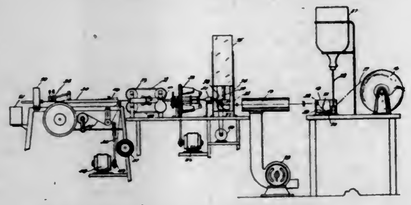


the discharge ends of the tubes of a pair of chambers to opposite top portions of the drum.

2,325,385
LATEX IMPREGNATION
Earl K. Fischer, Long Island City, N. Y., assignor to Interchemical Corporation, New York, N. Y., a corporation of Ohio
No Drawing. Application April 10, 1942, Serial No. 438,441
3 Claims. (Cl. 117—163)

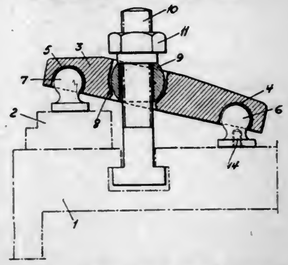
3. In the method of impregnating an absorbent material with a rubber derived from an aqueous latex where the absorbent material is passed through a bath of latex and removes a portion thereof, the improvement which comprises maintaining in the bath a substantially uniform ratio of rubber solids to non-rubber solids by the addition to the bath of latex serum as the impregnation progresses.

2,325,386
FILTER AND METHOD FOR MAKING THE SAME
Paul A. Frank, Akron, Ohio
Application August 1, 1940, Serial No. 349,380
7 Claims. (Cl. 210—131)



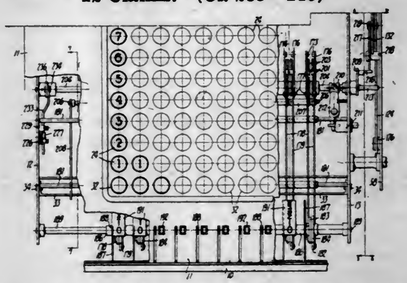
1. A filter comprising a multiplicity of granular particles adapted to retain at least one of the substances to be filtered, strip material continuous and substantially rectilinear longitudinally throughout the length of the filter and having longitudinal zones which define between them a multiplicity of longitudinally extending through-passages, an adhesive holding the particles in fixed relation to the strip material, the particles holding the zones of the strip material spaced apart with substantial uniformity throughout the filter, and means for compelling a fluid to have its general flow longitudinally of said zones and passages, through the filter.

2,325,387
WORK CLAMPING DEVICE
Ernst Waldemar Fredrickson, Stockholm, Sweden
Application August 22, 1942, Serial No. 455,731
In Sweden December 9, 1940
6 Claims. (Cl. 90—59)



1. A device for clamping a workpiece to a given base, which comprises in combination an arm member provided with oscillably connected pressure members, a screw bolt situated between the said pressure members, connected to the base and passing through the arm member, and a tightening nut on this bolt for engaging the pressure members against the base and against the workpiece simultaneously, the said pressure members being connected to the arm member through the intermediary of ball and socket joints.

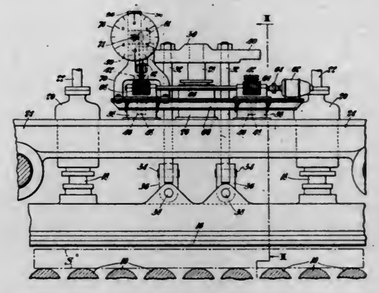
2,325,388
CALCULATING MACHINE
Carl M. Friden, Oakland, Calif., assignor to Friden Calculating Machine Co., Inc., a corporation of California
Application July 14, 1939, Serial No. 284,493
12 Claims. (Cl. 235—146)



1. In a calculating machine, selecting mechanism, a keyboard for controlling said mechanism, normally ineffective differentially settable means for superseding the control of said keyboard over said selecting mechanism, machine operation control means including an operation initiating key, a normally disabled control train from said key to said settable means for causing movement of said settable means to effective position, and control means for enabling said train whereby upon operation of said key said settable means is moved to effective position.

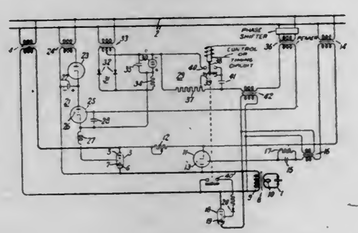
2,325,389
HOLD-DOWN CONTROL FOR SLAB SQUEEZERS
William R. Gardner and Merrill V. Hamilton, Gary, Ind.
Application December 3, 1940, Serial No. 368,404
4 Claims. (Cl. 78—13)

1. Slab squeezing apparatus of the character described comprising a slab supporting table, a hold-down element movable toward and from the latter, stop means for preventing movement of said element beyond a certain predetermined position with relation to said slab supporting



table, and an indicator operatively connected with and responsive to movements of said stop for showing the distance between the underside of the hold-down and the upper face of said slab supporting table.

2,325,390
ELECTRIC VALVE TRANSLATING SYSTEM
George W. Garman, Glenville, N. Y., assignor to General Electric Company, a corporation of New York
Application March 30, 1942, Serial No. 436,791
12 Claims. (Cl. 171—97)

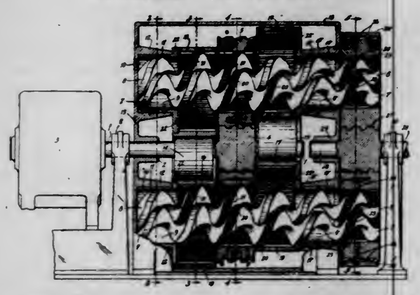


12. In combination, an alternating current supply circuit, a load circuit, transforming means having a magnetic core member, primary winding means and secondary winding means connected to said load circuit, normally nonconducting electric valve means connected between said supply circuit and said primary winding means and being of the type capable of supporting an arc discharge, a premagnetizing circuit for said transforming means for establishing a unidirectional magnetization having a direction opposite to that effected by the flow of current through said electric valve means, control means for rendering said electric valve means conducting and for transmitting current to said primary winding means from said alternating current supply circuit, electric valve means connected to said primary winding means to extend the duration of the impulse of current transmitted to said load circuit, and means for preventing conduction by said last mentioned electric valve means during the intervals of time within which the premagnetizing means is operating.

2,325,391
METHOD OF PREPARING ORGANIC THIONITRITES
Richard S. George, State College, Pa., and George S. Crandall and Edwin M. Nygaard, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application June 4, 1940, Serial No. 338,736
7 Claims. (Cl. 260—453)

1. The method of preparing for use in Diesel fuel oil an organic thionitrite solution which includes: interreacting an organic thiol compound, an alkali nitrite, and a mineral acid in a non-homogeneous liquid system comprised of an aqueous phase and a non-aqueous phase, said non-aqueous phase being a solvent for the thionitrite corresponding to said thiol compound and possessing the additional properties of substantial immiscibility with water and substantial miscibility with a Diesel fuel oil; maintaining the temperature below that at which said thionitrite is unstable; and separating the non-aqueous phase containing the thionitrite formed from the aqueous phase.

2,325,392
GEARING
Clifford B. Godwin, University City, Mo.
Application January 24, 1942, Serial No. 428,027
19 Claims. (Cl. 74—305)

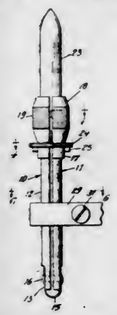


1. Gearing of the character described comprising a rotary drive shaft, a series of annular gears rotated by said drive shaft and each having a series of internal gear teeth, a series of pairs of rotary spiral gear shafts extending through said gears and engaging said internal teeth for rotation thereby and having their convolutions interpolated with the longitudinal axis of each of said shafts closer to the periphery of the other shaft of said pair than it is to its own periphery, mechanism for moving said spiral shafts through orbital circuits during rotation thereof by said annular gears, and an element operated by said spiral shafts.

2,325,393
MANUFACTURE OF MARGARINE AND COOKING FATS
John Edward Green, Stretford, Manchester, England, assignor to Co-operative Wholesale Society Limited, Manchester, England
No Drawing. Application August 21, 1942, Serial No. 455,611. In Great Britain July 31, 1941
13 Claims. (Cl. 99—122)

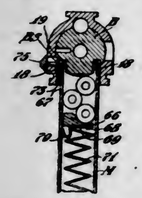
2. A method of manufacturing margarine and cooking fats which comprises providing a fat in the solid state, adding aqueous liquid thereto and working said fat and liquid mechanically to form a plastic mass, said fats remaining in the solid state at the end of said working, then adding to said mass a glyceride oil and continuing working said mixture to form a homogeneous mass, and thereafter packaging the product by delivering into a container and allowing the same to set without refrigeration.

2,325,394
ELECTRODE HOLDER
Ismail Hakki, New York, N. Y.
Application June 13, 1942, Serial No. 446,947
3 Claims. (Cl. 176—119)



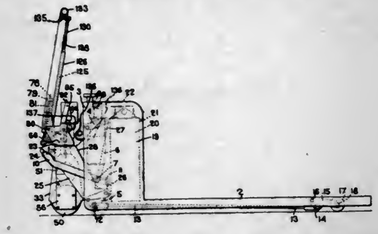
1. A carbon supporting device for motion picture projectors comprising a plurality of complemental jaw sections having complemental recesses at their upper ends to receive and support the carbon, shank portions at the lower ends of said sections, a substantially U shaped member connecting the lower terminals of the sections and retaining means adjacent to the upper terminals of the sections comprising a retaining ring, having an elliptically-shaped aperture therein, encircling said upper terminals, and supporting means for the retaining ring.

2,325,395
FIREARM BOLT STOP
Grant Hammond, West Haven, Conn., assignor to Auto-Ordnance Corporation, Bridgeport, Conn., a corporation of New York
Application August 26, 1941, Serial No. 408,286
3 Claims. (Cl. 42—18)



1. In a firearm having a receiver, a bolt reciprocable therein and a magazine by which cartridges are fed, a bolt stop, and an actuator carried by the magazine which actuates the bolt stop when the magazine becomes empty, said magazine having an opening in its side wall adjacent the mouth of the magazine and including a follower on which the cartridges rest and to which the actuator is pivotally secured, and a spring by which the follower is advanced to feed the cartridges and by which the actuator is swung on its pivot to cause the nose of the actuator to pass through said opening when the last cartridge is fed from the magazine.

2,325,396
TRUCK HAVING BOOSTER MECHANISM
Russell Hastings, Jr., Wellesley, Mass., assignor to Lewis-Shepard Company, Watertown, Mass., a corporation of Massachusetts
Application December 26, 1941, Serial No. 424,445
17 Claims. (Cl. 180—13)



1. A hand truck having a wheel-supported frame provided with steering head rotatable about a vertical axis, a controller mounted on said steering head to move horizontally relatively to the vertical axis of the steering head to and from a normal neutral position in the direction of travel of the steering wheel, a steering tongue mounted on said controller to swing vertically, a motor, and means operable by said controller when moved forwardly from said neutral position by pulling the tongue bodily forwardly relatively to the vertical axis of the steering head to cause the motor to drive the truck forwardly.

2,325,397
ROLLING MILL GUIDE
Charles W. Hawthorne, Worcester, Mass., assignor to Morgan Construction Company, Worcester, Mass., a corporation of Massachusetts
Application October 11, 1941, Serial No. 414,556
5 Claims. (Cl. 80—51)

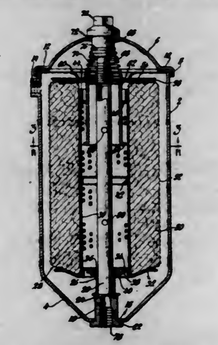


1. A rolling mill guide for use in rod mills, merchant mills, and the like, comprising two opposed blocks mounted on opposite sides of the mill pass line and having longitudinally extending channels in their adjacent faces, separate metal plates bridging the respective channels and shaped to fit closely against the sides of the stock traveling through the guide, and means to circulate water through the channels in contact with the outer surfaces of the plates.

2,325,398
PROCESS FOR THE PRODUCTION OF CONJUGATED POLY-OLEFINS
George W. Hearne and George A. Stenmark, Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application January 22, 1940, Serial No. 315,076
10 Claims. (Cl. 260—680)

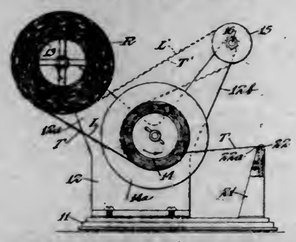
2. A process for the production of butadiene which comprises heating a butyne to a temperature favoring the rearrangement of the acetylenic hydrocarbons to butadiene, but below the temperature at which substantial decomposition of the carbon structure occurs, in the presence of a catalyst comprising an alumina which is alumina alpha monohydrate prepared by partial dehydration of alpha alumina trihydrate precipitated from an aluminate solution, and separating the butadiene from the unreacted acetylenic hydrocarbons.

2,325,399
OIL FILTER
John F. Houston, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application July 13, 1940, Serial No. 345,324
4 Claims. (Cl. 210—183)



1. In an oil filter, a removable filter element comprising a hollow perforated column, a plate rigidly secured to one end of the column, a removable plate at the other end of the column, filtering material between the plates and surrounding the column, a retainer secured in the column, a cup secured to the removable plate and extending into the column and adapted to be removably engaged with the retainer, the removal of said removable plate enabling the filtering material to be removed and replaced, a container in which the filter is mounted, means between the container and the removable plate to cause the plate to be kept in contact with the filtering material, an inlet in the container to enable the oil to have access to the exterior of the filtering material, and means inside the column and extending to the outside of the container to enable the filtered oil to leave the filter.

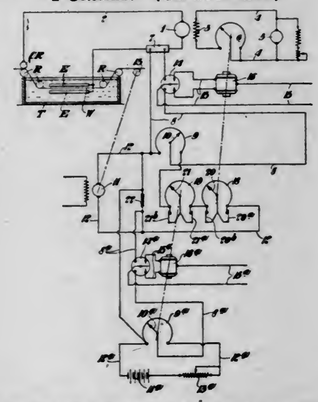
2,325,400
DISPENSER FOR LINER-WOUND TAPE
Myron M. Hoover, Superior, Wis., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware
Application December 6, 1941, Serial No. 421,856
2 Claims. (Cl. 242—56)



1. A portable adhesive tape dispenser for dispensing double-coated pressure-sensitive adhesive tape wound in rolls with a removable liner, comprising a frame, a holder for a roll of such

tape, a transverse passive severing element spaced therefrom at the front of the dispenser and adapted to sever the tape when tape is drawn downwardly against it after a desired length has been pulled from the dispenser and to hold by adhesive contact the remaining end in position to be grasped for pulling a further length from the dispenser when desired, and an interposed rotatable drum having its axis off a plane drawn between the axis of the tape holder and the severing element, said drum being located to receive and wind up the liner as tape is withdrawn, the tape being in frictional engagement and automatically causing the drum to rotate at the necessary rate to take up the liner, whereby the withdrawal of tape automatically causes separation and winding up of the liner and the double-coated tape can be readily pulled out and severed into desired lengths.

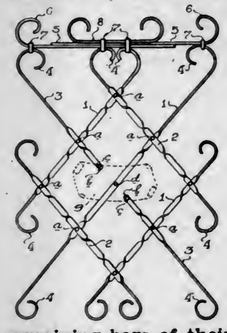
2,325,401
ELECTROPLATING APPARATUS
George J. Hurlston, Pittsburgh, Pa., assignor to Carnegie-Illinois Steel Corporation, a corporation of New Jersey
Application October 17, 1940, Serial No. 361,641
4 Claims. (Cl. 204—211)



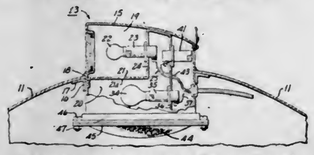
1. Apparatus for electrolytically treating metal strip and wire work, including the combination of an electrolyte, equipment for passing said work continuously through said electrolyte at a varying traveling speed, a first electric circuit including said work and said electrolyte, electric powering means for said first circuit, a second electric circuit, means for obtaining an electric voltage in said second circuit proportional to the current in said first circuit, means for obtaining an electric voltage in said second circuit proportional to said traveling speed in opposition to the voltage obtained by the second named means and means responsive to the direction of the current flow in said second circuit for varying the output of said powering means, said combination further including adjustable means for varying the voltage obtained in said second circuit by at least one of said means for obtaining an electric voltage therein.

2,325,402
GRILLE CONSTRUCTION
Robert H. Hutchinson, Dallas, Tex.
Application June 29, 1940, Serial No. 343,119
1 Claim. (Cl. 20—71)

A grille for screen doors and other openings comprising in combination, two sets of relatively spaced bars, the bars of one set intercrossing the bars of the companion set, each bar of one set being pivoted to the intercrossing bars of the companion set at each intersection, a pair of axially alined bars supplanting the intermediate bar of one set, each having a single pivotal connection intermediate its ends to a point intermediate the ends of bars of the companion set and whose inner and outer ends are displaceable relative to the remaining bars of their set and to the bars of the companion set, the inner ends of said pair of bars terminating on either side of the corresponding bar of the companion set and utilitarian means pivoted to the inner ends of said complementary bars and to a point midway between the ends of said corresponding bar whereby to be movable independently of the companion bars of said grille.



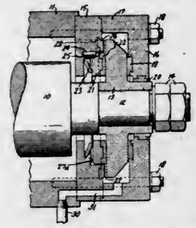
2,325,403
EMERGENCY TIRE LIGHTING APPARATUS
Arthur Illiano, Waterbury, Conn.
Application February 9, 1942, Serial No. 429,979
3 Claims. (Cl. 240—8.1)



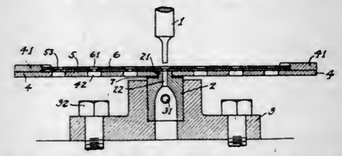
1. A lighting apparatus for a motor vehicle comprising a unitary casing for connection to the front fender of said vehicle, said casing having an upper compartment extending above said fender and a lower compartment extending below it; a partition in said casing having an upstanding wall and a depending wall behind said upstanding wall, a "parking" lamp located in the forward part of said upper compartment and being supported by said upstanding wall, a "tire" lamp located in said lower compartment and being supported by said depending wall, a light emitting opening in the front of said upper compartment, a light emitting opening in the bottom of said lower compartment, and selectively-operated switch means for separately controlling said lamps independently of each other.

2,325,404
THRUST BEARING ARRANGEMENT
Davison E. Irons, Marblehead, Mass., assignor to General Electric Company, a corporation of New York
Application December 18, 1941, Serial No. 423,497
7 Claims. (Cl. 308—163)

7. Axial thrust bearing arrangement comprising a shaft with a thrust collar secured thereto, a support, a main thrust ring and yieldable means between the main thrust ring and the support for carrying the normal thrust load, a rigid seat formed on the support for limiting deformation of the spring means, and auxiliary thrust ring means normally forming a clearance with a portion of the collar and engaging the collar upon the main thrust ring engaging said rigid seat to carry together with the main thrust ring excessive loads.

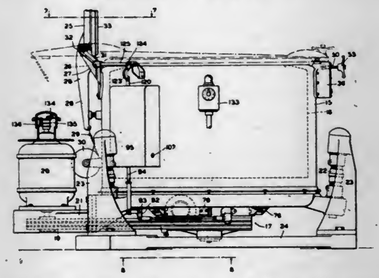


2,325,405
SPACING DEVICE FOR PUNCH PRESSES AND THE LIKE
Walter Jagosz, Detroit, Mich.
Application November 30, 1942, Serial No. 467,447
6 Claims. (Cl. 164—86)



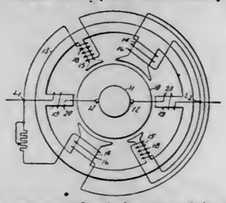
1. In a device of the character described, the combination, with a cutting tool and a work-supporting surface arranged in cooperative relation therewith, of a cylindrical pilot member fixed upon said surface, and a work holder having therein a series of holes corresponding to the holes to be formed and adapted to fit successively upon said pilot, said pilot member being positioned below said work holder and having an opening to receive said tool.

2,325,406
COVER LOCK AND EXTRACTOR CONTROL
Oscar W. Johnson, Rochester, N. Y., assignor to The American Laundry Machinery Company, Norwood, Ohio, a corporation of Ohio
Application July 12, 1941, Serial No. 402,136
13 Claims. (Cl. 210—72)



1. A centrifugal extractor of the type described comprising a stationary curb, a basket rotatably mounted therein, electric motor means for rotating said basket, a cover for said basket mounted for opening and closing movement, a lock normally biased to hold said cover in closed position, means operatively associated with said lock and responsive to the rotation of said basket for effecting release of said lock only when said basket is at rest, securing means in addition to said lock for holding said cover in closed position, an electric circuit for energizing said motor, and switch means in said circuit and operatively associated with, and responsive to changes in position of said securing means whereby said motor-energization circuit is closed only when said securing means is in cover-securing position.

2,325,407
DYNAMOELECTRIC MACHINE
Richard H. Kaufmann, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application May 31, 1941, Serial No. 395,929
5 Claims. (Cl. 171—223)



1. In a dynamo-electric machine having an armature and a pair of load current brushes displaced 180 electrical degrees from each other, a field excitation system therefor comprising a plurality of energizing windings for producing main and auxiliary fluxes, means forming separate current paths for energizing the main flux and the auxiliary flux producing windings, said paths being connected in parallel with each other and to said brushes, and separate magnetic cores associated with each of said windings, the cores associated with the auxiliary flux producing windings being arranged to saturate at lower values of armature voltage than the cores associated with the main flux producing windings.

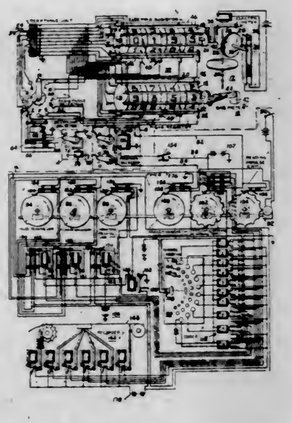
2,325,408
COATED GLASSINE PAPER
Toivo A. Kauppi and Roger W. Kolderman, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application August 5, 1942, Serial No. 453,720
9 Claims. (Cl. 117—86)

1. The method which includes: pre-coating a glassine paper sheet with an aqueous emulsion of an ethyl cellulose lacquer; volatilizing water and volatile solvents from the pre-coated sheet; and coating the dried sheet with a low viscosity ethyl cellulose melt.

2,325,409
METER READING APPARATUS
Ward Leathers and Jerrier Haddad, Brooklyn, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application May 12, 1942, Serial No. 442,634
6 Claims. (Cl. 177—351)

1. In a telemetric system for obtaining at a

central station information relating to the reading of a pair of integrated meters each having a plurality of rotating members and located at a point remote from the central station comprising a series of resistances having values which are correlated with the different positions capable of being assumed by said members, a reading circuit, contact means associated with each member for selecting the various correlated resistances as said member rotates, a resistance selector for successively selecting predetermined arbitrary resistances and connecting them in said reading circuit to vary the impedance value thereof and also



for successively connecting the selected resistances, first of one contact means and thereafter of the other contact means, in the reading circuit to likewise vary the impedance value thereof, discriminating means for discriminating between the various impedance values of the reading circuit, exhibiting means under the control of said discriminating means for exhibiting the discriminated values, and means operable when certain predetermined arbitrary resistances are connected in the reading circuit for rendering said exhibiting means inoperative.

2,325,410

REFINING OF ROSIN AND ROSIN DERIVATIVES

Donald A. Lister, Brunswick, Ga., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application January 9, 1941, Serial No. 373,803

7 Claims. (Cl. 260—111)

1. The method of refining a rosinyl material selected from the group consisting of rosins, rosin acids, rosin esters, rosin alcohols, and esters of rosin alcohols which comprises treating a solution of said material in a light petroleum distillate with furfural having water dissolved therein in an amount ranging from above 1% to saturation at atmospheric temperature, separating the furfural phase from the petroleum distillate phase containing purified rosin, and recovering from the two phases the resinous components dissolved therein.

2,325,411

MERCURY DERIVATIVES OF ESTERS OF SULPHOCARBOXYLIC ACIDS

Kathryn L. Lynch, Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application February 1, 1941, Serial No. 376,986

11 Claims. (Cl. 260—431)

10. Mercury compounds of the group consisting of mercury derivatives of alkyl, cycloalkyl and aryl esters of sulphoaliphatic carboxylic acids resulting from the neutralization with mild alkali of the reaction product of HgO and an ester of the group consisting of alkyl, cycloalkyl and aryl esters of sulphoaliphatic carboxylic acids, said compounds being thick, viscous liquids to hard waxy solids, soluble in most organic solvents and of moderate to slight solubility in water and alcohol.
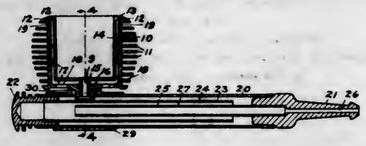
2,325,412

TOBACCO PIPE

Edward G. Martin, Portland, Oreg.

Application June 22, 1940, Serial No. 341,801

4 Claims. (Cl. 131—194)



1. In a tobacco pipe, an outer metal bowl member; an inner metal bowl member of smaller size than said outer bowl member positioned within said outer bowl member in spaced relation from the walls thereof to provide between said bowl members an air circulation space having communication with the atmosphere at its upper and lower portions; heat radiating fins on said outer metal bowl member; a heat radiating metal bowl base positioned in heat conductive engagement with the bottom portion of one of said bowl members; and a stem extending into said bowl base and having threaded engagement with one of said bowl members whereby said bowl member, said bowl base and said stem are held in assembled relation.

2,325,413

MASTER SWITCH AND CONTROL SYSTEM COMBINATION

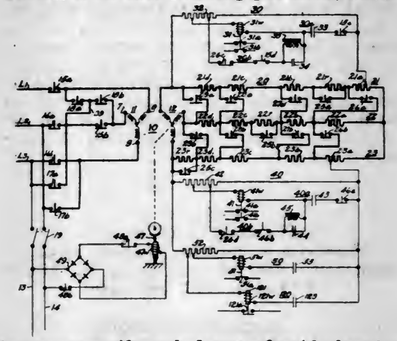
Bruce E. McArthur, East Cleveland, and Asa H. Myles, Solon, Ohio, assignors to The Electric Controller & Manufacturing Company, Cleveland, Ohio, a corporation of Ohio

Application September 10, 1942, Serial No. 457,802

11 Claims. (Cl. 172—152)

10. The combination with a control system for a polyphase wound rotor induction motor subject to overhauling loads and having a primary winding and a secondary winding and comprising a polyphase resistance network adapted to be connected to said secondary winding to form, when so connected, a closed polyphase network with said secondary winding, resistance adjusting means operable to balance and unbalance said closed network selectively, a master switch having a neutral position and a plurality of running positions, means operative while said master switch is in said running positions to connect said primary winding to a source of power for causing said motor to exert a torque assisting the torque

of the overhauling load, reversing means to reverse the connection between said primary winding and the source, circuit control means including contact segments on said master switch operable as said master switch is moved further from said neutral position through said running positions to increase said assisting torque, of manual means operable for causing, only when said master switch is in said running positions, substan-



tially concurrently unbalance of said closed network by said resistance adjusting means and reversal of the motor torque by said reversing means, and additional segments on said master switch rendered operable upon operation of said manual means to cause said circuit control means to decrease the reverse torque of the motor as said master switch is moved further from said neutral position through said running positions.

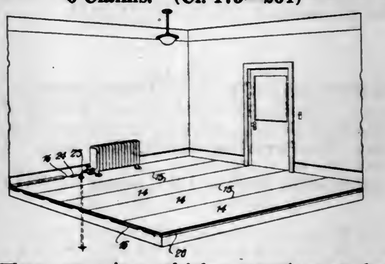
2,325,414

CONDUCTIVE RUBBER FLOORING

Cuyler S. McChesney, Kenmore, and John Winchell Short, Buffalo, N. Y., assignors to Dunlop Tire and Rubber Corporation, Buffalo, N. Y., a corporation of New York

Application May 31, 1941, Serial No. 396,232

6 Claims. (Cl. 175—264)



1. Floor covering which comprises a lower layer of insulating rubber, an upper layer of conductive rubber and a metallic conductor extending throughout the area of, and wholly embedded in, said upper conductive layer.

2,325,415

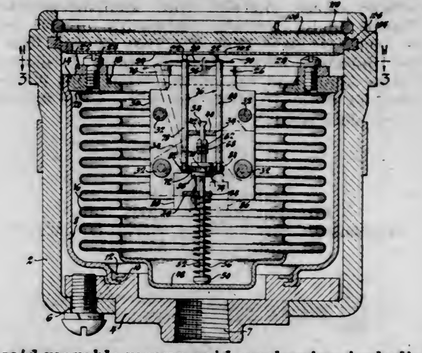
BLINKER GAUGE

Charles W. McKinley, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application June 20, 1942, Serial No. 447,879

20 Claims. (Cl. 116—117)

1. In a blinker gauge, a casing, a pressure responsive bellows mounted in said casing, means to enable the pressure of a gas to be exerted on the bellows to cause the bellows to expand and contract, means movably mounted in the casing and extending into the bellows and in direct contact therewith and responsive to movements thereof, and a blinker mechanism operatively connected



to said movable means, said mechanism including oscillating oppositely moving shutters outside the bellows to give a warning signal in response to movements of the bellows.

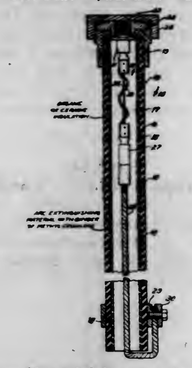
2,325,416

ARC EXTINGUISHING MEANS

George F. McMahon, Chicago, Ill., assignor to Schweitzer & Conrad, Inc., Chicago, Ill., a corporation of Delaware

Application December 9, 1940, Serial No. 369,162

25 Claims. (Cl. 200—120)



22. An arc extinguishing material comprising a water insoluble inorganic material and a water soluble cellulose ether.

2,325,417

MEANS FOR SEALING PIPE LEAKS

Patterson D. Merrill and Frederick R. McMurray, South Bend, Ind., assignors to M. B. Skinner Company, South Bend, Ind., a corporation of Indiana

Application October 23, 1940, Serial No. 362,322

6 Claims. (Cl. 81—39)



1. In a pipe leak sealing device including a pair of clamp elements adapted to apply pressure

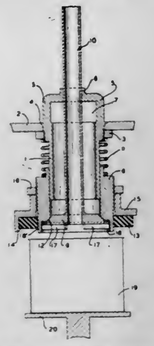
against opposite sides of a pipe, an adaptor, means for securing said adaptor to one of said elements, said adaptor having a pair of parallel pipe-engaging ribs projecting from each of two opposed faces thereof, and element-engaging adaptor faces laterally outwardly off-set from the bases of said ribs, the ribs at one face of said member being spaced apart a distance greater than and projecting from said element a shorter distance than the ribs at the opposite face of said member.

2,325,418
SHEET CATCHER
Michael Meyers, Gary, Ind.
Application July 30, 1941, Serial No. 404,723
3 Claims. (Cl. 80—47)



1. A sheet rolling mill catcher comprising a raising and lowering work conveyor having raising and lowering means and reversing driving means, said conveyor receiving work leaving a mill when it is lowered and returning the work to the other side of the mill when it is raised, said catcher being characterized by having a work stop positioned to successively stop work units successively received by said conveyor and conveyed from the mill, so the units are superimposed in matched relation for return to the other side of the mill, said stop comprising an abutment for the leading edges of the work units and said conveyor having inclining and declining travel to said abutment so a work unit when stopped by said abutment has its trailing edge separated from said conveyor to permit the latter to drive a succeeding unit thereunder.

2,325,419
LIQUID FILLING VALVE
Everett S. Minard, San Francisco, Calif., assignor, by mesne assignments, to The Pfaudler Co., Rochester, N. Y., a corporation of New York
Application May 10, 1941, Serial No. 392,923
2 Claims. (Cl. 226—124)



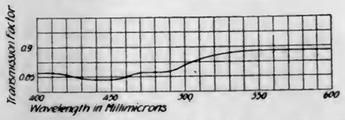
1. In a container-operated liquid filling means, a vertical conduit having means for feeding a liquid therethrough and having a movable valve seat at its discharge end, and a valve supported in said conduit in cooperative relation to the valve seat and having a hollow central stem to serve as a vent, the valve seat being operable by a container for raising the seat to form a liquid passage into the container for filling the latter and having a depending annular flange surrounding the valve inside the container to guide the liquid downward in the form of an annular curtain spaced from the container wall and to form a trap with the container wall, the valve having a bottom face substantially level with the bottom edge of the flange when the valve seat is raised whereby the air in the container is guided for escape through the vent until the liquid rises sufficiently high to reach the bottom face of the valve and for the flange to trap the remaining air, and the valve having inverted channels projecting horizontally into contact with the flange to divide the descending curtain of liquid and to provide vent passages from the wall of the container to the vent.

2,325,420
REVERSIBLE CURTAIN
Frederick S. Nichols, Melrose, Mass.
Application July 22, 1942, Serial No. 451,818
9 Claims. (Cl. 160—330)



1. A curtain having rod-receiving pockets at both ends, and ruffles extending along the top and bottom, respectively, of a pocket substantially throughout the length thereof.

2,325,421
IDENTIFICATION OF WHITE MINERAL OIL
Allen L. Omohundro, Wilton, and Emil C. Fanto, Fairfield, Conn., assignors to McKesson & Robbins, Incorporated, Bridgeport, Conn., a corporation of Maryland
Application April 1, 1942, Serial No. 437,114
2 Claims. (Cl. 167—56)

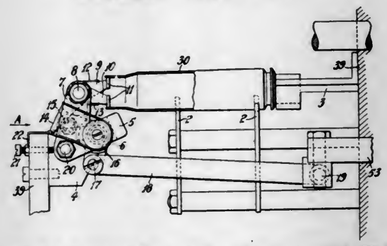


1. An oil composition adapted to be used internally and to be identified by absorption of light in the visible spectrum, the composition consisting essentially of white mineral oil with a minor proportion of beta carotene dispersed in the oil, the beta carotene being present in proportion not substantially in excess of about 1 part to 25,000,000 parts of the oil, having a distinctive light absorption effect in the visible spectrum, and being converted by exposure of the composition to light to a product having a different light absorption effect, thus providing a confirmatory means for identification of the composition spectrophotometrically.

2,325,422
PROCESS OF MAKING ALLO-OCIMENE
Robert C. Palmer and Carlisle H. Bibb, Pensacola, Fla., assignors to Newport Industries, Inc., Pensacola, Fla., a corporation of Delaware
No Drawing. Application December 23, 1940, Serial No. 371,410
8 Claims. (Cl. 260—677)

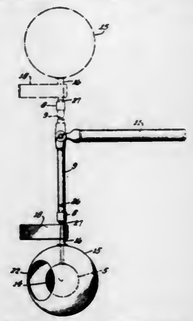
2. A process of making allo-ocimene, which comprises heating alpha-pinene in a high boiling solvent therefor in the liquid phase to a temperature of between 160 and 400° C. to convert said alpha-pinene into allo-ocimene and dipentene and recovering the allo-ocimene.

2,325,423
APPARATUS FOR TESTING OR MEASURING SIZES OR DIMENSIONS
George Frederick Pembroke, Deptford, London, England, assignor to Molins Machine Company, Limited, Deptford, London, England
Application March 26, 1942, Serial No. 436,369
In Great Britain March 18, 1941
4 Claims. (Cl. 33—178)



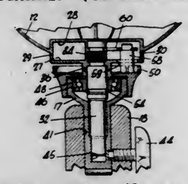
1. In apparatus for testing the internal dimensions of hollow articles, the combination with a support, of feelers mounted on said support for movement toward and away from each other to caliper the article, and means connected to said support and operable thereon to move said feelers within the article and thereafter to displace said feelers with respect to said support into calipering engagement with the article.

2,325,424
WINDSHIELD FOR MICROPHONES
Michael Rettinger, Encino, Calif., assignor to Radio Corporation of America, a corporation of Delaware
Application January 29, 1941, Serial No. 376,509
8 Claims. (Cl. 179—188)



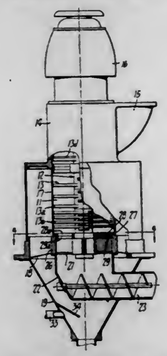
1. A windshield for a microphone comprising a rotatable element interposed between the wind and the microphone in the direction from which said wind is blowing, said element having an opening therein to permit sound waves to be impressed upon said microphone without obstruction, and means for maintaining said element in said position regardless of changes in the wind direction.

2,325,425
AIR TRANSLATING APPARATUS
Lawrence S. Riendeau, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application February 5, 1941, Serial No. 377,424
5 Claims. (Cl. 230—256)



1. In an oscillating fan, the combination of a motor housing including a structure comprising two spaced-apart opposite walls, a swivel pin integrally attached to said motor housing, said swivel pin extending between and being connected to said two spaced apart opposite walls of said structure, a stationary pin projecting through one wall of said structure into the enclosure formed by the walls of said structure, an oscillating mechanism, a connecting rod extending into the enclosure formed by the walls of said structure and connecting said stationary pin to said oscillating mechanism, said structure serving to provide rigidity for said motor housing and swivel pin assembly and also providing a housing for the stationary pin and the connecting rod.

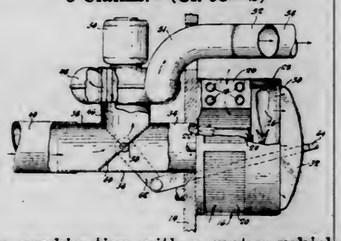
2,325,426
DISINTEGRATING APPARATUS
Carl A. Rietz, San Francisco, Calif.
Application July 16, 1940, Serial No. 345,733
1 Claim. (Cl. 83—11)



In a disintegrating apparatus, an upright rotor provided with disintegrating hammers, said hammers being progressively spaced at shorter intervals from the top to the bottom of the rotor, the hammers at the lower end of the rotor having lower inclined faces to urge material downwardly, a screen surrounding the zone of operation of the rotor and through which disintegrated material passes, means for supplying material to be disintegrated to the upper inlet end of the zone of operation of the rotor, and controlled

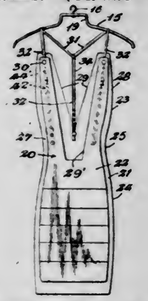
discharge means for effecting discharge of material from a space below the lower hammers of the rotor whereby a mass of secondary roughage material is caused to accumulate in said space and be subjected to pressure by the action of said lower hammers, said space being surrounded at least in part by the lower portion of said screen, and said controlled discharge means comprising a plate within and at the bottom of the screen having a plurality of radial openings circumferentially spaced, and manually controlled means to simultaneously adjust the size of each of said openings.

2,325,427
HEATER AND WINDSHIELD DEFROSTER
Harold A. Reynolds, Lockport, N. Y., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application December 16, 1939, Serial No. 309,565
3 Claims. (Cl. 98—2)



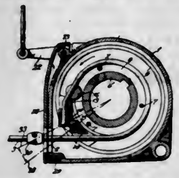
1. In combination with a motor vehicle having a dash separating the engine compartment from the body compartment and a windshield, a heating structure located in the body compartment, a conduit extending through the dash into communication with the heating structure and adapted to supply fresh air from outside the vehicle to the heating structure, a windshield defrosting structure including a blower, said blower being located in the engine compartment, said blower being connected to said conduit and being adapted to withdraw air therefrom, and adjustable means located in said conduit, which means when set in one position will allow unheated air from outside the vehicle to flow into the defrosting structure and when set in another position will allow heated air from the heating structure to be drawn into the defrosting structure by said blower.

2,325,428
GARMENT DISPLAY DEVICE
Clarence H. Rowley and William P. Wyatt, Pittsburgh, Pa.
Application July 19, 1941, Serial No. 403,222
5 Claims. (Cl. 223—68)



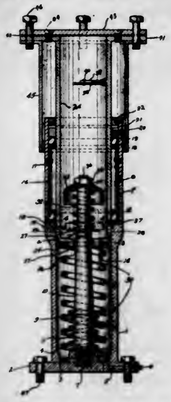
1. A garment former of the character described comprising two flat form pieces of flexible material having an upper dress portion and a lower skirt portion with intermediate waist portion, longitudinal channel pieces secured upon the inner side of the dress portion of each piece, and adjacent each side, and a respective spring member at each side of the form having bowed arms engaged with the channel pieces of both form pieces and engaging the front piece slidably, said spring having a loop portion extended upwardly, fastenings engaging the upper extremities of the form pieces and interposed loop portion of the spring, and support means engaged therewith.

2,325,429
JOINT BREAKER AND CATHEAD
John H. Schreiber, St. Louis, Mo.
Application July 16, 1941, Serial No. 402,661
16 Claims. (Cl. 254—173)



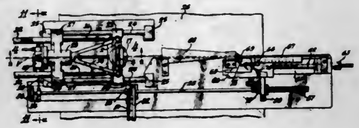
2. Mechanism of the character described comprising a rotary drum, a jerk line adapted to be wound on said drum, a shoe mounted adjacent to the periphery of said drum, an element attached to said jerk line and pivotally connected with said shoe, a device carried by and movable relative to said drum for engaging and moving said shoe along with the drum in a direction to wind said jerk line on said drum, a member supported adjacent to said drum for movement to a position to move said device relative to said drum to effect a driving engagement between said device and said shoe, and means operated by said jerk line during movement thereof by said shoe for disengaging said device from said shoe.

2,325,430
SHOCK ABSORBING MECHANISM
Louis W. Setz, Omaha, Nebr.
Application May 7, 1941, Serial No. 392,320
18 Claims. (Cl. 267—34)



1. In shock absorbing mechanism a hollow cylinder provided with a base, a hallow piston slidingly mounted in the cylinder and provided with an apertured head-member, a standard secured in the base of the cylinder and extending upwardly through the piston-head aperture and provided with a collar on the part projected inside the piston, an apertured disc slidingly mounted on the standard and disposed on the collar and capable of engaging with the inside of the piston-head, a keeper on the standard above the disc, spring means between the keeper and the disc for resisting outwardly movement of the piston and spring means between the base of the cylinder and the head member of the piston for supporting the piston.

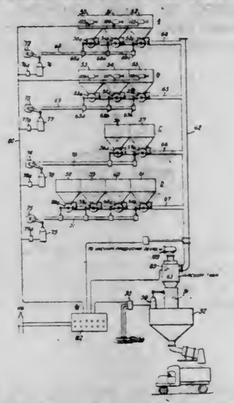
2,325,431
AUTOMATIC TUBE CUTOFF
Leo C. Shippy, Lockport, N. Y., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application May 18, 1942, Serial No. 443,435
5 Claims. (Cl. 164—48)



1. In a cutoff machine of the character described, a movable knife carriage, a fluid pressure responsive device operatively connected with the carriage, a valve controlling the response of said device and being fixedly mounted on the machine, spring means biasing said valve to active position, latching mechanism operative to hold the valve in inactive position and against its release to the biasing force of said spring means, a trigger engageable by the forwardly traveling stock to release the latch, a one-way ratchet trip for transmitting latch releasing movement from the trigger, means actuated by the travel of the carriage near its forward limit to restore the valve to inactive position and to cause the latching mechanism to resume its valve latched relation regardless of the then existing trigger position, spring means to cock the trigger and its ratchet trip back into position wherein the trip is conditioned for transmitting releasing movement to the latching mechanism, an adjustable support for the latching mechanism and its trigger as a unit to enable selective variation of the set distance thereof toward and from the range of carriage travel and thereby regulate the length of stock cut off and adjustable connections between the latching mechanism and the valve accommodating variations in trigger setting.

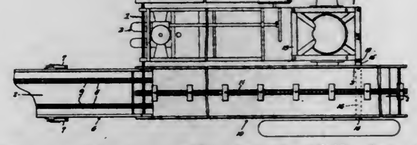
2,325,432
CONTROL SYSTEM
Waldo P. Simpson, Lansdowne, and Clyde E. Stewart, Upper Darby, Pa., assignors to General Electric Company, a corporation of New York
Application July 21, 1942, Serial No. 451,791
6 Claims. (Cl. 302—27)

1. A material handling system comprising in combination, a plurality of material containers, a common discharge conduit for said containers, means for producing subatmospheric pressures in said conduit, a separate valve for each of said containers for completing and interrupting connections from said containers to atmosphere and to said conduit, a selector switching device having a plurality of operating positions, means responsive to changes in atmospheric pressure in said conduit for successively actuating said selector switching device to said operating positions, and means responsive to operation of said



switching device to said positions for successively opening and closing said valves.

2,325,433
BALE LOADING MACHINE
Walter O. Sprinkle, Galveston, Ind.
Application March 20, 1942, Serial No. 435,565
1 Claim. (Cl. 198—13)

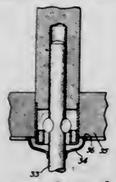


The combination with a tractor of the type including a power take-off on one side, of a bale loading machine operable on the other side of the tractor, said machine including a shaft journaled transversely on the front of the tractor and projecting laterally therefrom, a pick-up conveyor mounted for swinging movement in a vertical plane on one end portion of the shaft and operatively connected thereto for actuation thereby, caster wheels supporting one end of said pick-up conveyor, an elevating conveyor pivotally mounted for swinging adjustment in a vertical plane on said one end portion of the shaft and operatively connected thereto for actuation thereby, said elevating conveyor for receiving bales from the pick-up conveyor, means operatively connecting the other end portion of the shaft to the power take-off of the tractor, and means on the rear portion of the tractor for adjustably supporting one end of the elevating conveyor.

2,325,434
MIXING DEVICE
Harry L. Stiles, Bridgeport, Conn., assignor to General Electric Company, a corporation of New York
Application April 16, 1941, Serial No. 388,857
2 Claims. (Cl. 259—1)

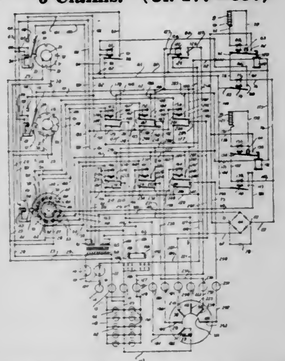
1. A mixing device comprising a frame, a vertically positioned hollow driving spindle housed within said frame, said frame having an opening in its lower wall for the lower end of said

spindle and through which said spindle projects, a beater tool comprising a beater element, and a shaft attached to said element, cooperating means between said shaft and spindle for effecting a driving connection between the spindle and



shaft, a circular cup-shaped guard attached to said shaft closing the lower end of said spindle and having its upper edge located in a circular recess provided for it in said lower wall around said spindle.

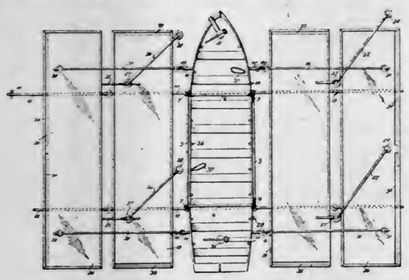
2,325,435
SIGN
George E. Sykora, Minneapolis, Minn.
Application June 11, 1940, Serial No. 339,963
6 Claims. (Cl. 177—337)



1. A vehicle speed indicating device for a highway including a speed indicator mounted adjacent the highway to be viewed by persons travelling over the highway, a series of electric signals on said indicator each designating a particular speed, a timer including a series of timer contacts, means operating said timer continuously through a complete cycle of operation, a first vehicle actuated detector in said highway operable when actuated to start said timer to rotate through its complete circuit, a fixed contact engageable with any of said contacts on said timer, a normally open switch in circuit with said fixed contact, an electrical connection from each of said timer contacts to a respective one of said electric signals, each connection including a circuit sustaining means, each said contact on said timer being connected in circuit with said normally open switch, and said fixed contact through said circuit sustaining means to one of said speeds indicated on said speed indicator, and a second vehicle actuated detector operable when actuated to momentarily close said normally open switch to close a circuit to one of said timer contacts to its respective speed indicating electric signal.

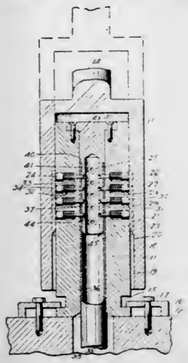
2,325,436
LIFEBOAT
Bernard J. Tegethoff, St. Louis, Mo.
Application February 25, 1942, Serial No. 432,202
8 Claims. (Cl. 9—3)

2. Equipment for boats comprising a frame adapted to enclose a boat for which the equipment is intended, detachable means extending across the upper portion of said frame for securing the same in connection with the boat, a pair of outwardly extended arms pivotally connected to each side of said frame for swinging movements from upwardly extended to outwardly extended positions and vice versa, a buoyant outrigger attached to each pair of said arms



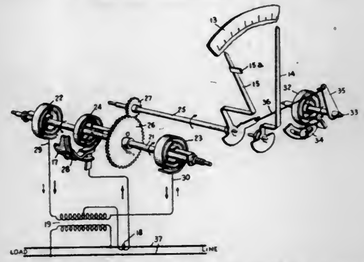
for movement therewith to said positions, buoyant outriggers pivotally connected to the outer ends of said arms for movement from outwardly extended positions when the boat is in the water to downwardly extended positions at the outer sides of said first named outriggers when the boat is not in use, and links for holding said outriggers in said positions.

2,325,437
HOLE PUNCHING DIE
Harold F. Temple, Elmont, N. Y., assignor to Victor Metal Products Corporation, Brooklyn, N. Y., a corporation of New York
Application July 22, 1942, Serial No. 451,852
8 Claims. (Cl. 164—108)



1. In a tube punching die, a relatively fixed support having an annular axially arranged space therein for the reception of the end portion of a tube, a series of substantially vertical rows of spring-pulled punching plungers mounted in the support for reciprocation therein perpendicularly to the axis of the support and normally projecting outwardly beyond the support, and a reciprocating control sleeve surrounding the support and having a cam surface successively engaging the outer ends of the respective plungers in the rows and simultaneously engaging all of those plungers arranged in the same relative positions in the rows to operate the plungers on the reciprocation of the sleeve.

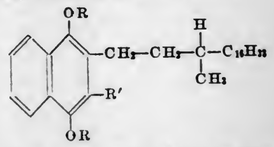
2,325,438
THERMAL DEMAND WATTMETER
Herbert C. Thomas, Montgomery, Ala., and Edward E. Lynch, Easthampton, Mass., assignors to General Electric Company, a corporation of New York
Application June 18, 1941, Serial No. 398,602
8 Claims. (Cl. 171—95)



1. A thermal wattmeter comprising a movable watt indicator, a scale on which said indicator indicates, a first thermal means for moving said indicator in an up-scale direction, a second thermal means for opposing such movement, said thermal means including resistance heaters having a positive temperature coefficient of resistance, the resistance of the heater of the first thermal means being slightly less than that of said second thermal means at a given temperature, connections for conveying heater current through the smaller resistance heater proportional to the vector sum of the current and voltage of the circuit to be metered and connections for conveying heater current through the larger resistance heater proportional to the vector difference of the current and voltage of the circuit to be metered.

2,325,439
SUBSTITUTED NAPHTHOQUINONES
Max Tishler, Rahway, N. J., assignor to Merck & Co. Inc., Rahway, N. J., a corporation of New Jersey
No Drawing. Original application April 6, 1940, Serial No. 328,265, now Patent No. 2,306,093, dated December 22, 1942. Divided and this application May 19, 1942, Serial No. 443,641
4 Claims. (Cl. 260—479)

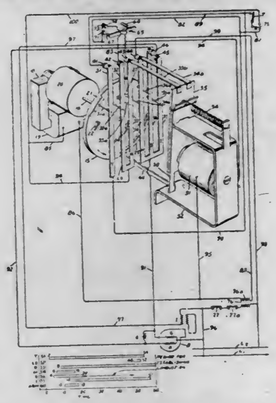
1. A compound of the formula:



in which R is a member of the group consisting of hydrogen and acetyl, and R′ is a member of the group consisting of hydrogen and methyl.

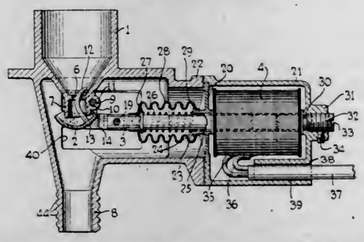
2,325,440
SEQUENTIAL CONTROL SYSTEM AND APPARATUS
George R. Townsend, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application October 1, 1941, Serial No. 413,185
20 Claims. (Cl. 158—28)

1. In combination, a control member having a bias to one position, a movable operating member having a stronger bias for operating said control member to another position, timing means for operating said operating member against its bias and for preventing the operation of said control member in accordance with its bias for a predetermined time after said operation of said operating member against its bias,



an electromagnet for holding said operating member against its bias independently of said timing means, and means for energizing said electromagnet upon the operation of said operating member against its bias.

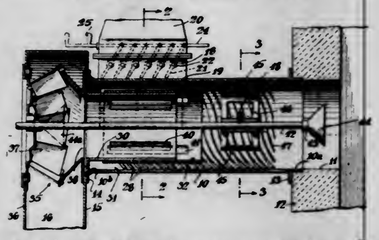
2,325,441
ACTUATOR FOR TRACK SANDERS
Arthur E. Tucker, Schenectady, N. Y., and George S. Gunnison, Jersey City, N. J., assignors to Consolidated Car Heating Company, Inc., Albany, N. Y., a corporation of New York
Application July 5, 1940, Serial No. 343,960
1 Claim. (Cl. 291—23)



An actuator for a sander, including in combination: a solenoid; a central tube partly within the solenoid; walls forming a chamber within which the solenoid is positioned, one of said walls being separate and independent, said last mentioned wall being formed with a central boss formed with a through bore through which said tube extends for supporting the solenoid at one end, the wall opposite to said separate and independent wall also formed with a central boss formed with a through bore; a plunger stop positioned in the last mentioned bore and extendible into the tube; a plunger composed of magnetic material within the tube; means including resilient means for normally maintaining the plunger in an outwardly projected position and a boot formed of relatively flexible material as a corrugated cylinder surrounding the plunger for a portion of its length beyond the separate and independent wall on the side remote from the solenoid, said boot closely surrounding the boss

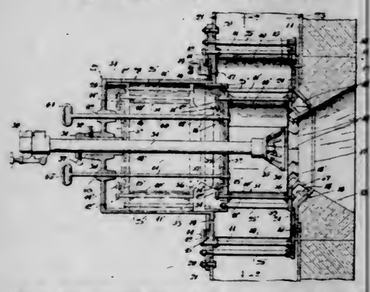
on the wall at one end and closely surrounding and attached to the plunger at the other end whereby a movement of the plunger compresses or distends the corrugated cylinder and undesired material is prevented from entering between the plunger and the tube, and means operated by the plunger whereby sand is allowed to escape.

2,325,442
PULVERIZED FUEL BURNER
Robert C. Vroom, Montclair, N. J., assignor to Peabody Engineering Corporation, New York, N. Y., a corporation of New York
Application March 10, 1941, Serial No. 382,505
11 Claims. (Cl. 110—104)



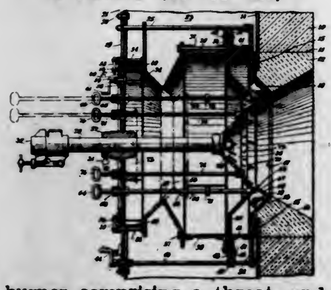
1. A pulverized fuel burner comprising a burner tube having an open outlet end adapted to connect with a combustion chamber, means including an inlet port in the peripheral wall of said burner tube supplying to said burner tube in a direction tangential to the inner surface thereof a stream of pulverized fuel suspended in carrier air, means causing said suspended fuel to advance helically in a peripheral layer in said burner tube to the outlet end thereof, a central axial air admission means including an air register admitting a secondary air stream at the inlet end of said burner tube out of the main path of the peripherally rotating layer of fuel, said air register having peripheral doors to impart a rotary motion to said secondary air stream, and means preventing direct contact between at least the main portion of the rotating stream of secondary air and the main portion of said fuel stream at the inlet end of said burner tube.

2,325,443
AIR REGISTER
Robert C. Vroom, Montclair, N. J., assignor to Peabody Engineering Corporation, New York, N. Y., a corporation of New York
Application April 13, 1942, Serial No. 438,676
10 Claims. (Cl. 158—1.5)



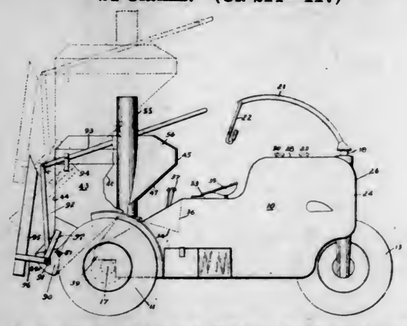
1. In a burner having a throat and fuel supply means adapted to introduce fuel for combustion, a main air register comprising a wall having adjustable air inlet openings therein, an auxiliary air register within said main air register, said auxiliary air register comprising a wall having adjustable air inlet ports therein and arranged to receive air through said ports from said main air register and to control the flow thereof to said burner throat, said auxiliary air register having means to reduce the effective area of said burner throat.

2,325,444
AIR REGISTER
Robert C. Vroom, Montclair, N. J., and David P. Graham, Flushing, N. Y., assignors to Peabody Engineering Corporation, New York, N. Y., a corporation of New York
Application May 2, 1942, Serial No. 441,452
10 Claims. (Cl. 158—1.5)



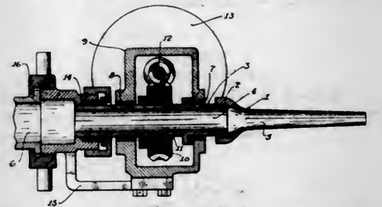
1. A burner comprising a throat, and means including a fuel atomizer barrel, an atomizer tip and diffuser for introducing fuel for combustion, an air register for supplying air to said burner having air inlet passages, and having a discharge opening supplying air for combustion to said throat, and an adjustable diffuser extension positioned to cooperate with said burner throat to reduce the effective throat area so as to control the air velocity therethrough.

2,325,445
MATERIAL HANDLING TRUCK
Elmer A. Wagner, Portland, Oreg.
Application May 13, 1941, Serial No. 393,238
24 Claims. (Cl. 214—117)



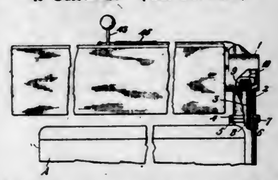
1. A truck having a frame, a tubular upright member secured at the lower end thereof to one end of said frame, a second tubular member telescopically surrounding said first tubular member, a bulk material hopper secured to said outer tubular member, said outer tubular member extending upwardly through said hopper, and means arranged within said first tubular member for exerting a pressure against the upper end of said outer tubular member for effecting elevation of said hopper.

2,325,446
SAUSAGE STUFFING NOZZLE
Charles T. Walter, Chicago, Ill., assignor to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware
Original application February 10, 1937, Serial No. 125,148. Divided and this application March 16, 1939, Serial No. 262,243
5 Claims. (Cl. 17—41)



4. A sausage stuffing nozzle comprising a non-resilient casing storage portion and a free end provided with a plurality of longitudinal slots providing a plurality of resilient spaced segments integral with said non-resilient portion and extending longitudinally therefrom.

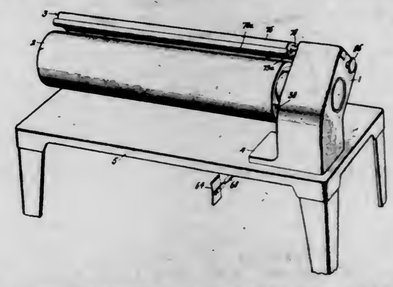
2,325,447
IRONER
George W. Wardwell, Jr., Nichols, Conn., assignor to General Electric Company, a corporation of New York
Application February 18, 1936, Serial No. 64,480
2 Claims. (Cl. 38—60)



2. In an ironer, a roll, a shoe, a frame at one end of the roll having provisions for supporting the roll, an arm projecting from said frame along the roll, a toggle for moving the shoe toward and away from the roll comprising a pair of links pivoted to each other, one of said links being carried on the projecting part of said arm and the other being fixed to the shoe, means for pivoting the first link about the axis of said arm to straighten or break said toggle whereby the shoe is moved toward and away from the roll, the common pivot of said links lying substantially on a center line connecting the arm and the roll when the shoe is pressed against the roll, driving means for rotating the roll in a direction such that the friction torque exerted by the roll on the shoe tends to straighten the toggle, and means operated by movement of the toggle for controlling said driving mechanism to stop the roll when the shoe is away from the roll and to start rotation of the roll prior to the development of full pressure between the roll and shoe.

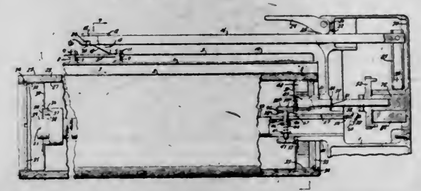
2,325,448
IRONING MACHINE
George W. Wardwell, Jr., Nichols, and George J. Filia, Bridgeport, Conn., assignors to General Electric Company, a corporation of New York
Application December 19, 1936, Serial No. 116,724
13 Claims. (Cl. 38—59)

2. In an ironing machine, a shoe, a hollow roll, an arm extending within the roll, an eccentric pivoted on said arm, a bearing rotatably carried by said eccentric, said bearing rotatably supporting the roll, means for turning the eccentric on



said arm whereby the roll is moved relative to the shoe, and a member carried by said arm having a pin and slot connection with the bearing for restricting turning of the bearing.

2,325,449
ROTARY IRONER
George W. Wardwell, Jr., Nichols, Conn., assignor to General Electric Company, a corporation of New York
Application April 3, 1937, Serial No. 134,850
10 Claims. (Cl. 38—59)

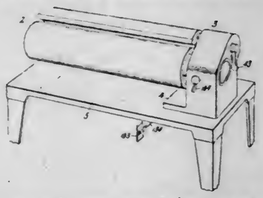


8. In an ironing machine, a pair of ironing members one of which comprises a roll, a driving connection for the roll comprising a driving gear and a driven gear, the driven gear being carried by the roll and being movable into and out of engagement with the other gear by movement of the roll transverse to its axis, shifting means for effecting engagement and separation of the ironing members and for moving the roll transverse to its axis toward and away from the driving gear, and means supporting the roll for yielding bodily movement transverse to its axis independent of the position of said shifting means and away from said driving gear whereby the driven gear may, under the tooth reaction forces present when the teeth are misaligned, pause in its movement toward the driving gear to prevent clashing of the gear teeth.

2,325,450
IRONER
George W. Wardwell, Jr., Nichols, Conn., assignor to General Electric Company, a corporation of New York
Application December 21, 1937, Serial No. 181,012
15 Claims. (Cl. 38—59)

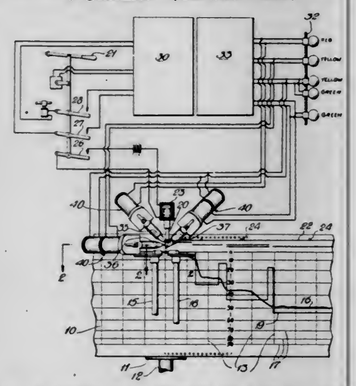
7. In an ironer, a roll, a shoe, mechanism for driving the roll and for effecting engagement and separation of the roll and shoe, a rod, a sleeve on the rod pivotally supporting the shoe, there being sufficient clearance between the sleeve and the rod to permit tilting of the shoe about an

axis perpendicular to the rod, and means including cooperating cam surfaces on the sleeve and



the rod for resiliently centering the shoe on said rod.

2,325,451
SIGNAL RECORDING
William Bell Wait, New York, N. Y.
Application September 17, 1940, Serial No. 357,095
7 Claims. (Cl. 246—185)



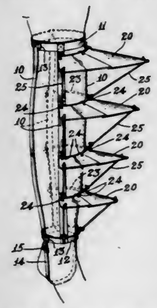
1. In a recording apparatus for a locomotive, in combination with a distance tape and means for recording the speed of the locomotive on the tape, color signals on the locomotive, and means for making a record of operated signals on the tape in colored lines corresponding to the colors of the operated signals and of a length corresponding to the distance traveled by the locomotive during the operation of the signals and at points on the tape transversely of the sections of the speed curve indicating the speed at that time.

2,325,452
STRAINER FOR COFFEE MAKERS
Walter R. Weeks, Hamden, Conn., assignor to General Electric Company, a corporation of New York
Application March 30, 1940, Serial No. 326,944
9 Claims. (Cl. 210—162)



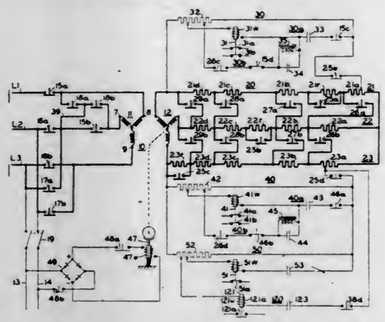
1. A strainer comprising a thin supporting disk having a plurality of drain openings therein in the form of slots at least a portion of which extend in other than a radial direction, said slots acting to increase the resilience of said disk so that it can be flexed to facilitate the insertion and removal of said strainer into and from its operative position and so that when said strainer is in its operative position said disk can be flexed so as to produce a force sufficient to secure said strainer firmly in said operative position, a filtering element supported by and encasing said disk, and a pair of ears pressed out of the central portion of said disk and adapted to receive means for securing said filtering element on said disk, the pressing out of said ears providing additional drain openings in said disk.

2,325,453
SWIMMING DEVICE
Harold H. Wener, Stoughton, Wis.
Application January 19, 1942, Serial No. 427,235
7 Claims. (Cl. 9—21)



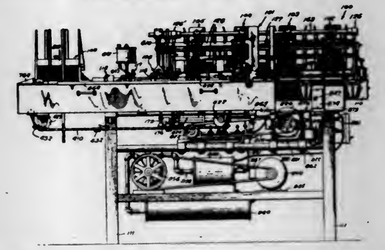
1. A device of the character described comprising, in combination, a harness to fit the lower leg, a plurality of sets of swingable plates carried by said harness, said sets being vertically spaced and graduated in size with the larger plates at the upper end, the plates of each set overlapping each other laterally when folded to lie close to the leg.

2,325,454
HOIST CONTROL SYSTEM
Harry L. Wilcox, Cleveland, Ohio, assignor to The Electric Controller & Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application August 25, 1941, Serial No. 408,153
16 Claims. (Cl. 172—152)



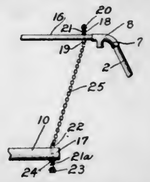
15. A control system for a polyphase wound rotor induction motor having its secondary circuit closed through an adjustable resistor, means operable to connect the primary winding of said motor to a source of polyphase power for motoring operations, means operable to short circuit a portion of the primary winding of said motor and to connect a portion of the primary winding to a single phase source of power for braking operations, a plurality of relay circuits which are effective to control motoring and braking operations, each of said relay circuits including an operating winding, a condenser, and a parallel combination including a parallel connected condenser and reactor, means connecting the winding and the condenser of one of said relay circuits in series with each other across one phase of said secondary circuit during motoring operations, and means for connecting the operating winding and the parallel combination of at least two of the relay circuits in series with each other, each of said relay circuits when connected as last described being connected across a different phase of said secondary circuit during braking operations.

2,325,455
ENVELOPE HANDLING MACHINE
Albert H. Williams, Maplewood, N. J., assignor to Inserting and Mailing Machine Company, Phillipsburg, N. J., a corporation of New Jersey
Application October 2, 1940, Serial No. 359,430
14 Claims. (Cl. 93—6)



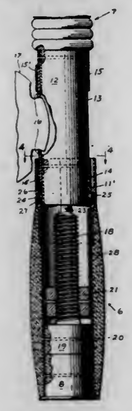
1. In an envelope handling machine, means to transport inserts successively to a position in a predetermined plane to be inserted into successive envelopes, means to transport envelopes successively to a position adjacent to the inserts and disposed to receive them, means operable in said predetermined plane to engage the end folds on the inside of said envelope and to hold them in said plane, and means on opposite sides of said plane and movable oppositely therefrom to engage the opposite panels of the envelope and draw them apart whereby the opening of said envelope is disposed on opposite sides of said plane.

2,325,456
SWING
Charley H. Williams, El Reno, Okla.
Application January 11, 1940, Serial No. 313,452
1 Claim. (Cl. 155—58)



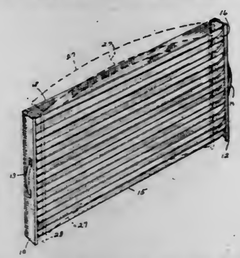
A swing comprising spaced supports, a suspension bar connecting said supports, an elongated cylindrical seat member, bolts extending transversely through the opposite ends of the seat member and having their upper ends provided with attaching eyes and their lower ends threaded, nuts engaging the threaded ends of the bolts, springs interposed between the nuts and said seat member, ball and socket members mounted on the suspension bar, and downwardly converging chains having their lower ends connected with the attaching eyes and their upper ends operatively connected with the ball and socket members, said seat member being mounted on the suspension chains to move in an arc at right angles to the vertical plane of the length of said suspension bar or in the same vertical plane therewith and being shiftable upwardly and twistable sidewise to simulate a balking horse.

2,325,457
FISHING REEL MOUNTING
Richard E. Wilson, Oakland, Calif.
Application October 31, 1941, Serial No. 417,330
7 Claims. (Cl. 43—22)



1. In a fishing rod having two threadedly engaged separable sections, and reel-holding members operative to clamp opposite ends of the base of a fish-line reel to the first of said sections, one of said members being fixedly mounted on said first section and the other of said members being swivelled to the second section and engaging the first rod section for rotating therewith.

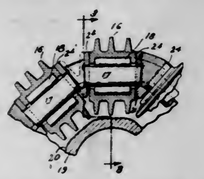
2,325,458
VENETIAN SLAT UNIT
Matthew John Witteman, Alhambra, Calif.
Application July 15, 1940, Serial No. 345,453
12 Claims. (Cl. 98—99.8)



1. In a Venetian slat unit for fitting in grooves of a window frame, a series of transversely curved metal Venetian blind slats normally longitudinally straight, each slat being sufficiently flexible and resilient in a longitudinal direction to be bent upon itself and when released to resume its

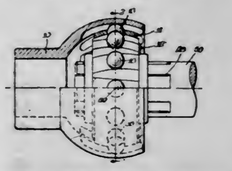
original shape, and means spacing the slats apart at the ends thereof and arranged to fit in the grooves in a window frame, said means being otherwise freely movable, and the slats being engaged at their ends with said means and being otherwise free, and the resilience of the slats tending to hold the unit in grooves in a window frame, said means being sufficiently rigid in itself so as to support the slats in spaced relation when the unit is released to resume its original shape.

2,325,459
THRUST BEARING ASSEMBLY
John A. Zublin, Los Angeles, Calif.
Application December 10, 1940, Serial No. 369,438
1 Claim. (Cl. 255—71)



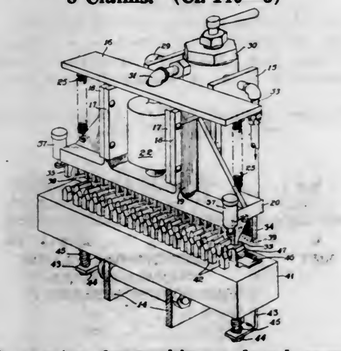
In an earth boring tool having a carrier provided with a recess and a bridge extending across said recess, a pair of cutters rotatably mounted on pins, said cutter and pin assemblies being mounted with adjacent ends of the pins resting on said bridge; the combination of an indentation in the surface of the bridge, a pair of shoulders on said bridge, the indentation in said bridge receiving adjacent ends of said pins therein, a pair of plate members so positioned on said pins closely adjacent the ends of said cutters and between the shoulders on said bridge as to form thrust bearings for said cutters, said plate members, the adjacent ends of said pins and said bridge defining the walls of a cavity, and welding material in said cavity securing said pins and said plate members to said carrier with said plate members in thrust supporting position closely adjacent the ends of said cutters.

2,325,460
CONSTANT VELOCITY UNIVERSAL JOINT
Walter E. Amberg, Beverly Shores, Ind.
Application September 20, 1940, Serial No. 357,547
5 Claims. (Cl. 64—21)



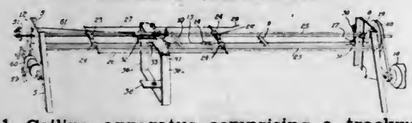
1. A ball and socket joint having a ball member and a socket member, a plurality of balls disposed in driving relationship between the inner face of the socket and the outer face of the ball, and means for holding said balls in an orbit lying in a plane which always bisects the angle between the axes of the ball and socket members, said means comprising a like plurality of raceways on the inner surface of the socket member, each raceway having an axis lying in a plane at a given angle to the axis of the socket member, and a second like plurality of raceways on the outer surface of the ball member, each latter mentioned raceway being paired with one of the raceways on the socket member and having an axis lying in a plane at the same angle to the axis of the ball member but oppositely inclined to the plane of the paired raceway on the socket member, whereby raceways of each pair intersect with a ball at each point of intersection, some of the raceways on the socket member being oppositely inclined to others at however the same angle between the plane of the raceway and the axis of the socket member with the inclination of the paired raceway on the ball member correspondingly reversed.

2,325,461
WIRE-LACING APPARATUS
Oscar F. Arthur, Belle Vernon, Pa.
Application October 13, 1942, Serial No. 461,872
8 Claims. (Cl. 140—3)



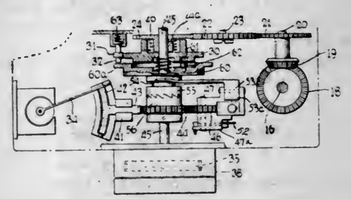
1. Apparatus for making a laced connection between an apertured plate and a wire mesh that has a row of laterally-spaced bends formed therein for insertion into the plate apertures, comprising a surface for supporting the mesh adjacent to the opened sides of said bends, guide fingers spaced apart at said surface, for the reception of said bends between them, and means for yieldably holding the fingers in said position, the said means being so arranged that when the plate is moved toward the said surface, with its apertures in alignment with the said bends, the unapertured areas of the plate will push the fingers to retracted position, and the bends will be moved through the plate apertures a sufficient distance to accommodate a lacing wire between said bends and the adjacent side of the plate.

2,325,462
COIL-FORMING APPARATUS
Oscar F. Arthur, Belle Vernon, Pa.
Application October 13, 1942, Serial No. 461,873
8 Claims. (Cl. 153—67)



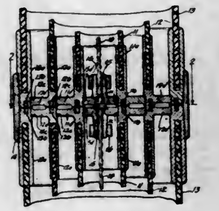
1. Coiling apparatus comprising a trackway, a mandrel extending parallel to the trackway, means for rotating the mandrel, a carriage movable along the trackway, means for clamping an end of a wire on the mandrel, at a point rearwardly of the carriage, a wire-guiding element movable with the carriage and positioned to direct the wire in a lateral direction to the mandrel, and a second wire-guiding element on the carriage at a point rearwardly of the first-named element and positioned to engage the forward sides of the wire turns which are formed on the mandrel as the wire is drawn past the first-named element during rotation of the mandrel, the second-named guiding element being adjustable relative to the first-named element, in a direction longitudinally of the carriage, to vary the pitch of the wire turns on the mandrel.

2,325,463
CAMERA
Meyer H. Axler, Bronx, N. Y., and Edward Halitsky, Santa Monica, Calif.
Application December 13, 1939, Serial No. 308,908
21 Claims. (Cl. 95—10)



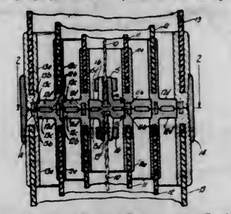
3. In a camera of the character described having an adjustable light control system including a shutter and means to trip the shutter, the combination of a manually manipulatable member accessible from the exterior of said camera, means including a light-sensitive device for setting said system in a position according with prevailing light conditions, said means being actuated upon manipulation of said member, and means to temporarily hold said system in set position after said member has been released and until the shutter has been tripped.

2,325,464
HOSE
Clyde E. Bannister, Bartlesville, Okla.
Application September 3, 1940, Serial No. 355,112
3 Claims. (Cl. 285—22)



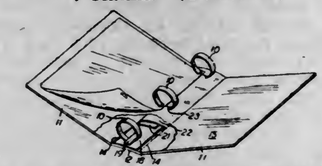
3. A hose comprising two flexible tubes mounted one within the other and thus defining two fluid-conducting passages, respective end-fittings mounted upon adjacent ends of the said tubes, one of said end-fittings being formed with a stop-surface against which the other seats by simple axial, non-rotary movement, a flexible tension element mounted within at least one of said tubes and anchored to one of said end-fittings, and a fluid conducting member coupled to said end-fittings and having two fluid passages communicating respectively with the first-mentioned passages, said tension element being provided with an end attachment which by simple axial non-rotary movement seats against a stop surface of the end-fitting to which the element is anchored and thus anchors it.

2,325,465
METHOD OF MAKING HOSE
Clyde E. Bannister, Houston, Tex.
Original application September 3, 1940, Serial No. 355,112. Divided and this application August 14, 1942, Serial No. 454,763
6 Claims. (Cl. 29—84)



1. The method of making a fluid-conducting hose assembly unit which comprises placing a longitudinally disposed inner member within a flexible and resilient tube of substantially the same length and anchoring an end of one to the adjacent end of the other, temporarily changing the length of at least one of the recited elements by the application of mechanical force to cause the said inner member to protrude from the tube at their other ends. applying an end anchorage member to the protruding portion of the inner member while it so protrudes, the adjacent end of the tube being provided with a fluid-conducting end anchorage member, and then permitting said anchorage members to be seated against each other by simple, sliding, non-rotary movement incident to recoil of the two first-recited elements.

2,325,466
LOOSE-LEAF BINDER
Harold E. Baughman, Glendale, Calif., assignor to Aero Publishers, Inc., Glendale, Calif.
Application April 20, 1942, Serial No. 439,698
7 Claims. (Cl. 129—1)

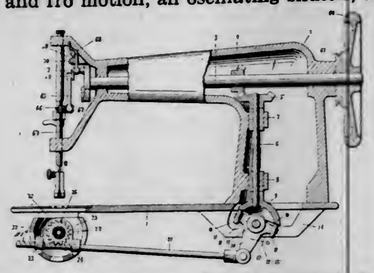


7. In a loose-leaf book, having at least one securing ring, a tongue extending through said ring, and a cardboard backbone underlying said tongue and having marginal folds cut out to fold over the tongue in the region of the securing ring, the marginal folds overlapping each other and being glued in place to anchor the ring in position in the backbone.

2,325,467
SEWING MACHINE
Werner Kurt Rudolf Beyer, Dresden, Germany; vested in the Alien Property Custodian
Application May 24, 1940, Serial No. 336,944
6 Claims. (Cl. 112—192)

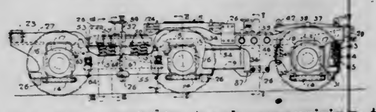
1. In a household sewing machine the combination of a bedplate, an arm mounted on this bedplate, a main driving shaft in this arm, a perpendicular connecting shaft, means to transmit the motion of the said main driving shaft to the connecting shaft, a segment of a hollow sphere attached to the lower end of the perpendicular shaft, said segment having a surface which cuts the axis of the perpendicular shaft

at an acute angle, transforming means to convert the revolving motion of said segment into a to and fro motion, an oscillating shuttle, a rod



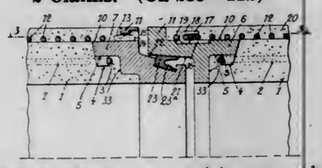
driven by the said transforming means, and a device at the end of the said rod to oscillate said shuttle.

2,325,468
RAILWAY VEHICLE TRUCK
James G. Blunt, Schenectady, N. Y., assignor to American Locomotive Company, New York, N. Y., a corporation of New York
Application April 11, 1942, Serial No. 438,543
8 Claims. (Cl. 105—196)



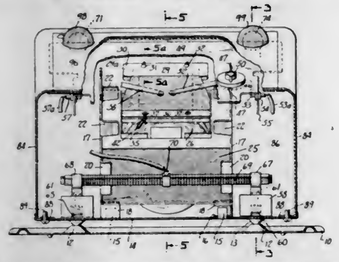
1. A railway vehicle truck comprising three spaced wheeled axles; side frame members connecting two adjacent axles of said three axles, forming therewith a truck section, each of said members having two longitudinal transversely spaced walls connected by two transverse longitudinally spaced walls; and side frame members supported on the other of said axles, forming therewith another truck section, each of said members thereof having an extension provided with a portion disposed between said walls of and being spring-supported on one of said two-axle section members for vertical relative movement therebetween, said extension portions having parts in sliding engagement with each of said transverse walls and the adjacent portions of said longitudinal walls, holding said sections in longitudinal alignment and effecting squareness of said two-axle section.

2,325,469
PIPING ELEMENT
Pierre Boissou, Pont a Mousson, Meurthe et Moselle, France; vested in the Alien Property Custodian
Application September 5, 1939, Serial No. 293,418
In France September 15, 1938
2 Claims. (Cl. 285—112)



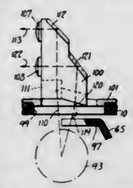
1. A piping element comprising a main portion of concrete, longitudinal reinforcing elements embedded in said concrete and including a continuous metal wire bent in zigzag shape forming longitudinal strands running substantially parallel with the longitudinal axis of the piping element and loops connecting together the ends of said strands, said reinforcing wire being under material initial tension sufficient to compensate for the shrinkage of the concrete and to take up the expansion produced by the internal pressure, a metal end piece at each end of said main portion and hook-shaped projections on each end piece for hooking thereto the loops of said wire and allowing a uniform distribution of the tension stresses between said strands.

2,325,470
TRANSFORMER
Joseph L. Bonanno, Maplewood, and Anthony Ehret, Hillside, N. J., assignors to The Lionel Corporation, New York, N. Y., a corporation of New York
Application October 18, 1940, Serial No. 361,766
11 Claims. (Cl. 171—119)



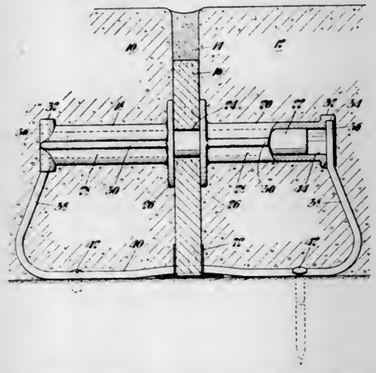
1. A transformer having a preassembled core with primary and secondary windings, the upper face of the secondary winding being bared, a base plate, sheet metal core supporting plates having elements which engage the core to secure it and the windings in fixed position, a bearing plate secured to the core supporting plates and held in spaced relation to the upper bared face of the secondary winding, and a movable contact insulatedly supported by the bearing plate and cooperative with the bared surface of the secondary winding to vary the voltage output.

2,325,471
TOY RAILROAD TRACK SWITCH
Joseph L. Bonanno, Maplewood, N. J., assignor to The Lionel Corporation, New York, N. Y., a corporation of New York
Original application December 6, 1940, Serial No. 368,806. Divided and this application March 4, 1941, Serial No. 381,657
3 Claims. (Cl. 246—220)



3. A unitary toy railroad track switch having a base, main and branch tracks carried by the base, a shiftable switch tongue carried by the base for guiding trains through either branch track, and means for indicating the position of the switch tongue comprising a light source below an opening in the base, a unitary light transmitter above the opening and including two lower light incident surfaces and two totally reflecting prisms arranged side by side to provide independent light transmitting paths from said source to two light emitting surfaces, a housing about the light transmitter and having openings opposite the light emitting surfaces, and a shutter movable with the switch tongue for selecting one or the other of lower light incident surfaces.

2,325,472
PAVEMENT JOINT
Alan E. Brickman, Monongahela, Pa., assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
Application April 18, 1941, Serial No. 389,235
12 Claims. (Cl. 94—18)



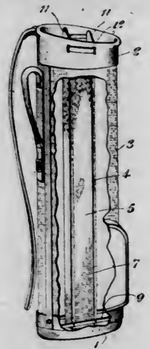
1. A pavement joint for vehicular highways comprising a pair of adjacent concrete slabs, a division member therebetween, a dowel piercing said member, a respective dowel positioning socket member embedded in each of said slabs, and a resilient chair consisting of a length of heavy metal having at its ends integral inwardly bowed upwardly extending spring arms engaging the outer portions of said socket members and serving prior to the rigidifying or setting of said concrete slabs to position said socket members and yieldingly press their inner ends into firm engagement with said division member.

2,325,473
HAT ADJUSTING MEANS
Ruby Lipton Brill and Sarah Lipton, Long Beach, N. Y.
Application July 22, 1942, Serial No. 451,848
4 Claims. (Cl. 132—59)



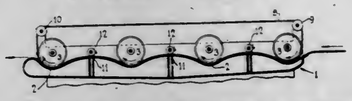
1. A device for adjusting a hat to the wearer's head comprising a pair of flexible cords formed into loops, the ends of said loops having anchor pins secured thereto adapted to engage the hat at spaced points adjacent the inner base of the brim, said loops being formed around each other and a third cord forming a loop around both of said first mentioned loops, said third cord having an anchor pin secured to its end adapted to engage the hat at a point between said spaced points.

2,325,474
GOLF BAG
Francis G. Cart, Morrisville, Pa., assignor to Atlantic Products Corporation, Trenton, N. J., a corporation of New Jersey
Application March 27, 1941, Serial No. 385,419
1 Claim. (Cl. 150—1.5)



An insert for dividing a golf bag of generally oval cross section into several separate compartments, said insert comprising opposite side walls that fit against the sides of the golf bag but that are of substantially less extent than the long dimension of the oval cross section of the bag, opposing transverse walls connecting the sides of the insert and forming with said sides a compartment of a width that extends across the full width of the golf bag, at least a portion of the walls of the insert being stiff enough so that the insert will stand upright, a frame connected with the bottom portion of the insert and extending beyond the transverse walls of the insert, in the direction of the long dimension of the oval cross-section of the bag, for holding the bottom portion of the insert in an intermediate position at the bottom of the bag, and fastening means at the top portion of the insert for connecting the insert with the golf bag and holding the top portion of the insert in substantially the same intermediate position as the bottom portion with respect to the oval cross section of the bag so that the insert forms a center compartment in the golf bag.

2,325,475
IRONING MACHINE
Frederic B. Clark, Englewood, N. J.
Application January 11, 1940, Serial No. 313,312
3 Claims. (Cl. 38—9)



1. A flatwork ironer comprising a steam chest assembly provided with an upper ironing surface and with spaced transversely extending cradle-like depressions therein, portions of the chest of curvilinear cross section extending upwardly between the depressions, ironing rolls disposed above and registering with the said depressions, padding disposed over the rolls and normally contacting with the chest, means for passing goods to be ironed between the ironing surface and the said padding, and small driven rollers disposed between the said rolls and above the said portions for moving the goods over the said portions, the ironing rolls being spaced apart at

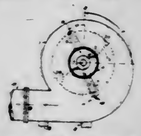
their nearest portions at a distance at least one and a quarter times the diameter of the padded rolls and being of the order of at least twice the diameter of the said small rollers.

2,325,476
ILLUMINATING MIRROR
John E. Cleve, Hayward, Calif.
Application December 15, 1939, Serial No. 309,401
1 Claim. (Cl. 240—4.2)



An illuminating mirror construction comprising, a plate glass mirror, means at the margin of said mirror to provide a flat reflecting surface disposed in front of and at a fixed angle to the rear face of said mirror, a source of light disposed behind said mirror in alignment with said flat reflecting surface and a housing for said source of light supported so as to have the rays from said source of light issue forwardly onto said reflecting surface, said surface reflecting substantially all said rays rearwardly into said mirror, said mirror reflecting said rays forwardly onto the face of the person viewing himself in said mirror, said rays reflected from said mirror being the only rays which reach the person's face from said source of light.

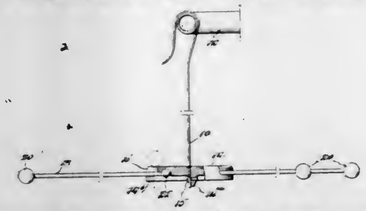
2,325,477
PUMP
Arthur Lee Collins, Berkeley, Calif.
Application January 27, 1940, Serial No. 315,983
1 Claim. (Cl. 103—5)



In a centrifugal pump having a pump case and an impeller in said case, said case having an intake opening in axial alignment with said impeller, and a discharge opening; in combination a plurality of nozzles on the intake side of said impeller to provide sources of added energy in conveying and directing liquid through the pump, said nozzles being disposed with respect to said impeller and each other to direct crossing but separated jets in the general direction of the suction flow, and each nozzle being disposed to direct its jet along a path leading from one side of the intake opening and through the impeller ports toward the discharge zone of said impeller opposite to said one side, said path being spaced from the region of the axis of said impeller in the direction of the rotation of the said impeller.

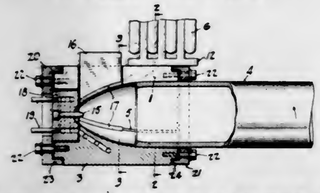
2,325,478
LAUNDRY DRIER
Walter H. Collins, Summit, N. J.
Application July 24, 1941, Serial No. 403,907
3 Claims. (Cl. 211—113)

1. In a laundry drier, a supporting member having a hook-like end, a substantially circular head secured on the other end of said supporting member, a downwardly-extending flange on said head having apertures therein, a plurality of arms extending in substantially diametrically opposed pairs substantially horizontally from said head through said apertures for supporting laundry, a stop adjacent the inner end of each arm,



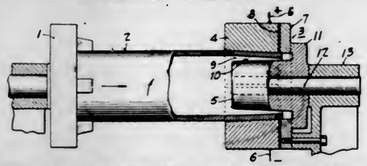
means on the under side of said head cooperating with said stop to locate and maintain said arms in predetermined positions, including channels radially aligned with said apertures.

2,325,479
ELECTRIC HEATING AND FORMING APPARATUS
William E. Crawford, Wauwatosa, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application June 5, 1941, Serial No. 396,668
13 Claims. (Cl. 219—3)



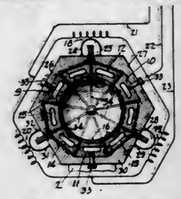
1. In an electric heating and forming apparatus, a plurality of die segments defining a die cavity for receiving and forming an article, means to pass a heating current through the portion of the article contacting with said segments as the article and die are rotated relative to one another, and means to control the temperature of the article independently in different longitudinal regions of the die.

2,325,480
APPARATUS FOR ELECTRICALLY UPSETTING PIPE ENDS
William E. Crawford, Wauwatosa, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application November 19, 1942, Serial No. 466,135
6 Claims. (Cl. 219—3)



1. The improvement in apparatus of the class described, comprising an upsetting die with a circular cavity closed at its bottom for upsetting the end of a rotating tubular blank, the outer shell of the die and the central plug thereof being mounted for relative rotation with one member fixed and the other member free to rotate with the blank, and one of said members comprising circumferentially spaced electrode die segments for supplying electric heating current to the blank.

2,325,481
ELECTRIC FORMING APPARATUS
William E. Crawford, Wauwatosa, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application December 10, 1942, Serial No. 468,525
3 Claims. (Cl. 219—3)



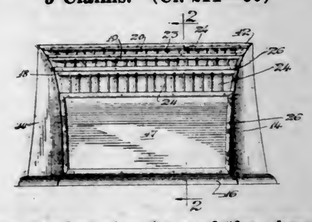
4. In an apparatus of the class described, circumferentially-spaced electrodes separated by intermediate die sections insulated therefrom to provide for a long heating current path through the article being formed.

2,325,482
GLOVE
Edward J. Curran, Colorado City, Tex.
Application September 8, 1941, Serial No. 410,075
2 Claims. (Cl. 2—159)



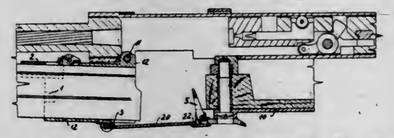
1. In a glove comprising a hand covering section, a gauntlet section having the inner end disposed to overlap the wrist portion of the hand section, a line of stitching connecting the overlapping portions of the said sections, and a pull member having an inner end portion folded over the inner edge of the gauntlet and secured thereto by the said line of stitching, the major portion of the said pull member projecting along the exterior of the gauntlet sections free of other glove parts with the exception of said seam.

2,325,483
CABINET
Edward D. Davis, Chicago, Ill., assignor to The Boye Needle Company, Chicago, Ill., a corporation of Illinois
Application April 4, 1941, Serial No. 386,789
5 Claims. (Cl. 211—60)



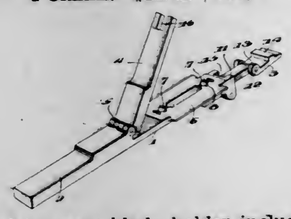
4. In a display structure of the character set forth, a casing having a wide base, a short rearwardly-inclined front wall, a relatively tall and rearwardly-inclined rear wall, inclined partitions dividing said casing into compartments open at their top, and side walls connecting the ends of the partitions, the front and rear walls, with a continuous curve at the top of each side wall in which the front and rear walls are merged.

2,325,484
AUTOMATIC OR REPEATING FIREARM
Paul de Király and József Kucher, Budapest, Hungary; vested in the Alien Property Custodian
Application November 13, 1939, Serial No. 304,227
In Great Britain July 19, 1939
6 Claims. (Cl. 42—6)



1. A firearm comprising a barrel stock, a casing connected thereto, a sleeve adapted to receive a cartridge magazine, said sleeve being pivoted at its fore-part to said casing and adapted to swing through an angle of approximately 90° with respect to said casing, said stock having a cavity in front of said sleeve adapted to receive and conceal said sleeve; said casing being provided with an opening into which said sleeve is adapted to swing to place the magazine contained therein in firing position, a cover carried by and movable cojointly with said sleeve, said cover being pivoted to the rear part of said sleeve and adapted to swing through an angle of approximately 180° with respect to said sleeve, whereby, when said sleeve is inserted in the cavity in said stock, and said cover is swung out with respect to said sleeve the said cover closes said opening in said casing.

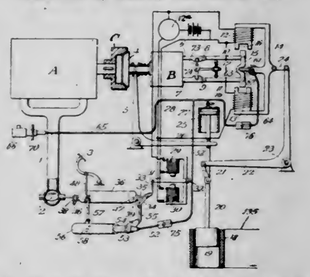
2,325,485
SAFETY RAZOR BLADE HOLDER
Harry W. Denny, Wichita, Kans.; Ruth M. Denny, administratrix of said Harry W. Denny, deceased, assignor of one-half to Albert E. Stein, one-fourth to Marshall V. Denny, and one-fourth to Ruth M. Denny, all of Wichita, Kans.
Application September 17, 1942, Serial No. 458,696
4 Claims. (Cl. 30—330)



1. A safety razor blade holder including four main parts, namely a main portion, a clamping bar hinged approximately at the center thereof, and between which two parts a safety razor blade is adapted to be held, one of said parts having teats adapted to enter holes in the safety razor blade, and the other part recessed to receive said teats, a link pivotally connected with one of said parts, and a locking lever pivoted to the link and having a cam eccentric with the pivot in position

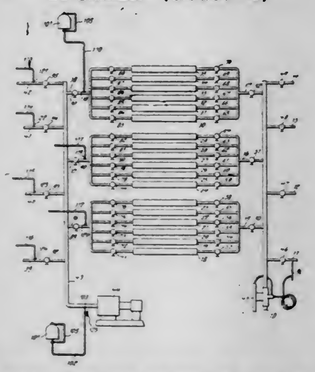
to bear with increasing pressure upon the other main part as the lever is swung in one direction, whereby to draw the said parts toward each other and to apply a substantially uniform pressure throughout the length of the blade held between the main portion and the clamping bar.

2,325,486
CONTROL SYSTEM FOR MOTOR VEHICLES
Ernest Alphonse Derungs, Neuilly sur Seine, France; vested in the Alien Property Custodian
Application September 11, 1939, Serial No. 294,385
In Switzerland September 10, 1938
10 Claims. (Cl. 192—.01)
(Granted under the provisions of sec. 14, act of March 2, 1927; 357 O. G. 5)



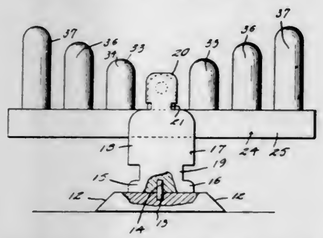
1. In a motor vehicle having a clutch and a change speed mechanism, an acceleration control, means for effecting a change of speed, means for actuating said clutch to disengage and engage the same, a retarding device controlling the duration of a change of speed and of the actuation of the clutch, and regulating means responsive to the position of said acceleration control for controlling the action of the retarding device.

2,325,487
STEAM HEATING SYSTEM
James A. Donnelly, Brooklyn, N. Y.
Application February 21, 1941, Serial No. 380,015
14 Claims. (Cl. 237—9)



1. A steam heating system wherein there are associated and combined, a source of steam supply, a steam main, a plurality of branching mains respectively opening from the steam main at different distances from the source of steam supply, a plurality of groups of radiators of which a separate group is connected with each of the branching main and receives steam therefrom, fixed orifice means between the several radiators of each group and the respective branching mains to cause the steam therefrom to be supplied to the radiators in predetermined proportioned quantities, means in communication with the source of steam supply for initially supplying the system as a whole with steam of a predetermined quantity required for all of the radiators thereof, means having fixed orifice means arranged in the respective branching mains between their connection with the radiators and the steam main and each such orifice proportioned to insure the passage of the predetermined quantity of steam required by the radiators of the corresponding group, a return system comprising branches from the radiators, return branch mains, and a return main, and orifice means in said return branch mains and return main proportioned to those in the supply system whereby a balanced flow is produced thruout the system, and a vacuum pump connected with the outlet of the return system.

2,325,488
TOY SCALE
Edward Francis Donovan, Dayton, Ohio, assignor to Cappel, MacDonald and Company, Dayton, Ohio
Application May 4, 1942, Serial No. 441,695
7 Claims. (Cl. 35—24)

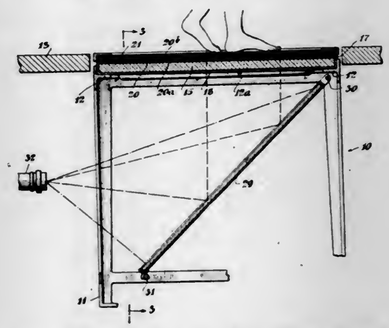


1. A toy scales comprising a base, a pair of upstanding standards rising from the base, a weighing platform, means rockably mounting said platform on said standards, said platform formed with at least two series of weight receiving sockets in the upper side thereof and extending respectively outwardly from the fulcrum thereof, and weight members selectively engageable in said sockets.

2,325,489
SILK-SOAKING COMPOSITION AND BATH
James T. Eaton, Wyncote, Pa., assignor to E. F. Houghton and Co., Philadelphia, Pa., a corporation of Pennsylvania
No Drawing. Application January 30, 1941, Serial No. 376,709
14 Claims. (Cl. 252—8.7)

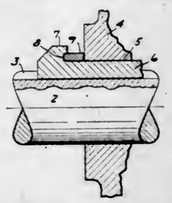
1. A silk-soaking composition comprising a mixture of (*a*) a water-soluble salt of a sulphonated monohydric alcohol-fatty acid ester of the formula $(RCOOR')\ (—SO_3M)_y$ where R' represents the group furnished by an aliphatic monohydric alcohol containing from 1 to 10 carbons, where R represents the group furnished by an aliphatic unsaturated fatty acid containing from 9 to 17 carbon atoms, there being in the group (RCOOR') a ratio of carbon atoms to ethylenic linkages prior to sulphation of between 12 to 1 and 28 to 1; where M represents a sodium, potassium, ammonium or substituted ammonium ion and where *y* equals 1 or a fraction thereof greater than ⅓th; and (*b*) an organic plasticizing ester of a hydroxy compound of the formula $R(OH)_x$ where R is an alkyl or aryl group and where *x* is 1 or a multiple thereof up to 6 and of an acid selected from the group consisting of a polybasic organic acid and a polybasic inorganic acid, said ester having a molecular weight of at least 150, the ratio of the amount of the salt of the sulphonated aliphatic monohydric alcohol-fatty acid ester to the amount of the organic plasticizing ester being from 1 to 1 by weight to 19 to 1.

2,325,490
PRESSURE INDICATING METHOD AND APPARATUS
Herbert O. Elftman, Leonia, N. J.
Application January 9, 1942, Serial No. 426,187
6 Claims. (Cl. 88—74)



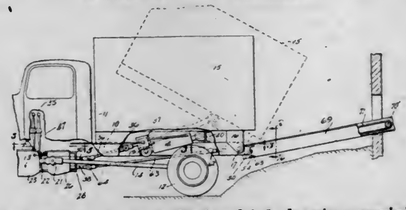
1. An apparatus for creating visual areas corresponding to areas of applied pressure, comprising a transparent plate, a solid resilient light reflective material overlying and normally partially spaced from said plate, a light source directed through said plate, and to said reflective surface, whereby when areas of pressure press said reflective material into contact with said plate, said pressed areas appear in visual contrast to unpressed areas.

2,325,491
MACHINERY KEY
Harrison K. Elliott, Center Township, Butler County, Pa., assignor of fifty-one one-hundredths to Pittsburgh Steel Drum Company, Pittsburgh, Pa., a corporation of Delaware
Application December 26, 1940, Serial No. 371,608
2 Claims. (Cl. 287—52.05)



1. In combination with a holding key for a shaft and the hub of a gear member, each having a keyway, a main rectangular parallel side shank portion provided at its outer driving end with a transverse wedge engaging socket between its main shank portion and an integral portion extending upwardly therefrom and towards its opposite end, and a wedge engageable with said socket and with the hub.

2,325,492
DETACHABLE TRUCK UNLOADER
Wilmar L. Erickson, Robbinsdale, Minn.
Application October 24, 1942, Serial No. 463,190
4 Claims. (Cl. 214—83)



1. In a motor-propelled vehicle having variable speed reversible wheel-connected transmission mechanism and a primary power take-off shaft driven from the latter, said primary take-off shaft involving front and rear sections and a clutch for connecting and disconnecting, at will, the sections of said power take-off shaft, of a secondary power take-off shaft, reverse gear mechanism operative to connect said secondary power shaft to the front or first section of said primary power take-off shaft, and a gear transmission box in which the ends of the secondary power take-off shaft and the ends of the sections of said primary power take-off shaft are journalled, and in which transmission box the said clutch and reverse gears are located.

2,325,493
IRONING BOARD
Horace B. Fay, Willoughby, Ohio, assignor to Gridiron Steel Company, Cleveland, Ohio, a corporation of Ohio
Application October 16, 1940, Serial No. 361,466
3 Claims. (Cl. 38—137)

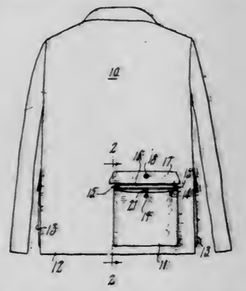


1. In a composite ironing board a tube-like metal frame having a flat rim head forming the border only of said board and having an inwardly projecting shoulder and a resinous panel resting on said shoulder, said panel carrying reinforcing means rigid therewith extending longitudinally thereof and extended substantially from end to end.

2,325,494
SPORTSMAN'S GARMENT
William Fayer, New York, N. Y.
Application December 17, 1941, Serial No. 423,370
6 Claims. (Cl. 2—93)

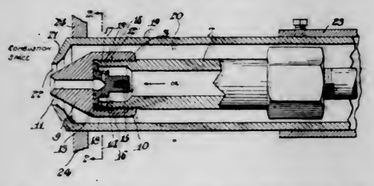
1. A combination body garment and container therefor, said body garment being provided with a pouch of a size to contain the garment in a

folded condition thereof and comprising a pair of opposite side walls connected together along edges thereof, the garment having a slot disposed adjacent the top of the pouch and extending in substantial parallelism therewith and substantially co-extensive with the width of the pouch, the pouch having a connection at its top with the garment and adjacent the slot and from which connection the body of the pouch is loosely suspended and otherwise free from the garment, said connection being such as to permit of the



pouch being passed through the slot in the garment from either side thereof to lie loosely suspended from said connection selectively at opposite sides of the garment, the top edges of the pouch being mutually unconnected between the ends of said edges, and said unconnected edge portions defining therebetween an entrance opening for the pouch and through which the garment in a folded condition may be introduced into the pouch.

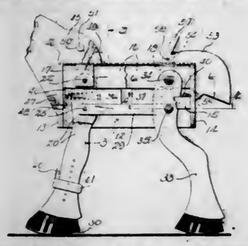
2,325,495
OIL BURNER
William Ferguson, Philadelphia, Pa., assignor to National Airoil Burner Company, Incorporated, a corporation of Delaware
Application January 12, 1940, Serial No. 313,525
2 Claims. (Cl. 299—120)



1. In an oil burner, the combination, with an oil supply pipe and a burner tip having a relatively long passage, of an integral body having a disk-like part and a rectangular part, the disk-like part being clamped between the oil pipe and the tip, the said body having a centrally disposed chamber delivering to the said elongated channel, and a passage delivering tangentially through the rectangular part to said chamber.

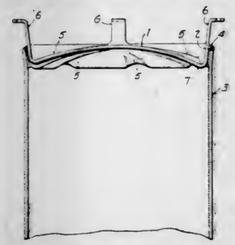
2,325,496
TOY
Jack F. Fleming, Milwaukee, Wis., assignor to Walter A. Hartwig, Milwaukee, Wis.
Application May 23, 1942, Serial No. 444,243
3 Claims. (Cl. 272—52)

1. A device of the character described comprising a body, legs for said body pivoted at their tops within the body, a member pivoted to all the legs spaced from the top thereof, and spring means between said member and the body nor-



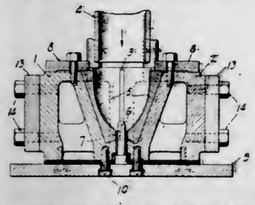
mally maintaining said legs in vertical alignment.

2,325,497
HEAD FOR ENAMELED TANKS
John M. Floyd, Shorewood, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application May 6, 1940, Serial No. 333,620
1 Claim. (Cl. 220—63)



In a tank having a vitreous enamel lining fused to the steel wall thereof, an outwardly dished head disposed in and closing the end of said tank, said head having its peripheral portion reversely curved into a peripheral flange with the outer edge of the flange secured to the body of the tank and having radial flutes in the dished portion of the head extending into the reverse curvature between said dished portion and the flange to reenforce the same and prevent stress concentrations tending to crack the enamel.

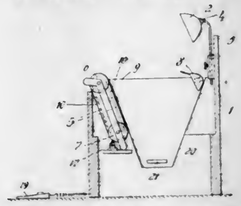
2,325,498
DIE FOR ELECTRICAL FORGING MACHINES
John M. Floyd, Shorewood, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application May 29, 1941, Serial No. 395,804
5 Claims. (Cl. 219—3)



1. A die member of the class described constituting a segment complementary to one or more other similar segments, comprising a heat and electrically conductive base, and a wear-resistant face insert secured against longitudinal and radial movement relative to said base, and

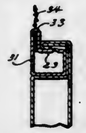
contacting uniformly therewith throughout to conduct heat from the article being formed to said base and electricity from said base to the article.

2,325,499
METHOD OF AND DEVICE FOR FACILITATING THE READING OF MANUSCRIPTS
Artur Fornet, Berlin, Germany; vested in the Alien Property Custodian
Application March 2, 1940, Serial No. 322,038
In Germany March 2, 1939
5 Claims. (Cl. 40—96)



1. Apparatus of the class described, comprising a speaker's desk having a well-forming opening therein, a pair of spaced rollers arranged in the opening of said desk and supported at respectively different elevations below the level of the horizontal direction of gaze of the speaker, a manuscript wound at one end on one of said rollers and secured at its other end to the other of said rollers, an endless belt operatively connecting said rollers together to permit progressive pay-off of said manuscript from one roller to the other, and means for reflecting the manuscript into substantially the horizontal direction of gaze of the speaker.

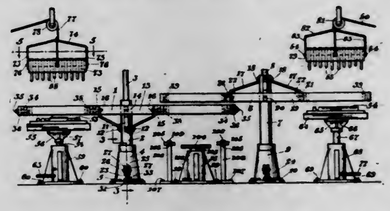
2,325,500
FRAMED SCREEN
Henry C. Fosberg, Jamestown, N. Y., assignor to Watson Manufacturing Company, Inc., Jamestown, N. Y., a corporation of New York
Application April 27, 1942, Serial No. 440,591
9 Claims. (Cl. 160—383)



3. A structure for anchoring wire screen to a frame element comprising a tubular member, substantially parallel flanges at the meeting or seam edges of said member, an edge portion of said screen being positioned between said flanges, and angular projections on one of said flanges projecting into interstices of said screen and engaging a common cross wire of said screen.

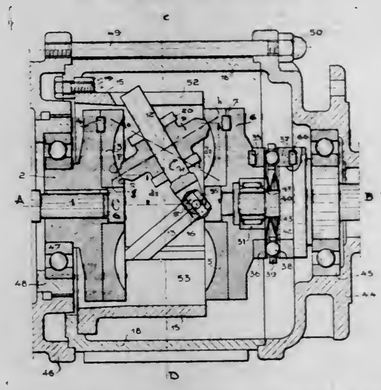
2,325,501
MOLDING MACHINE
Stanley J. Gedris, Grand Rapids, Mich.
Application January 30, 1942, Serial No. 428,912
22 Claims. (Cl. 22—20)

1. In a molding machine, a drag flask supporting frame mounted for pivotal movement about a vertical axis, a drag flask releasably mounted in said drag flask supporting frame for movement about a horizontal axis to invert the flask, a drag pattern table, a drag presser head above the drag pattern table adapted to pack sand in the drag flask when the drag supporting frame is rotated to position the drag flask on the drag pattern, a cope flask supporting frame mounted for pivotal movement about a vertical axis, a cope flask releasably mounted in said cope flask supporting frame, a cope pattern table, and a cope presser head above the cope pattern table



adapted to pack sand in the cope flask when the cope supporting frame is rotated to position the cope flask on the cope pattern, said drag and cope flask supporting frames being rotatable to superimposed positions wherein the cope flask may be united with the inverted drag flask.

2,325,502
SPEED VARYING DEVICE
Auguste Félix Georges, Uccle-Brussels, Belgium; vested in the Alien Property Custodian
Application March 8, 1941, Serial No. 382,419
In Belgium March 8, 1940
8 Claims. (Cl. 74—200)



1. A speed-varying device comprising a driving shaft having a head secured thereto and carrying a disk at its driving end, a driven shaft having a head secured thereto and carrying a disk at its driven end and a plurality of rollers engaging said disks and having their shafts connected to one another at one of their ends by a common linking joint, the other ends of the roller shafts sliding freely in guiding grooves.

2,325,503
COMBINATION SAND PUMP AND BAILER
Bert G. Goble, Tulsa, Okla.
Application January 2, 1941, Serial No. 372,790
7 Claims. (Cl. 166—19)

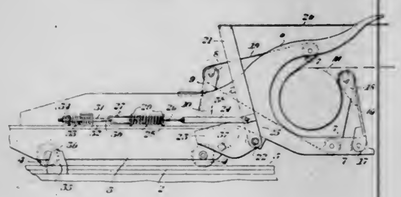
1. In a sand pump and bailer, a cylindrical casing, a clapper valve at the lower end of the casing, a plunger reciprocable in the casing, the casing having a reduced neck portion at its

upper end, a sand line extending through the neck portion and attached to the plunger, a liner fitted in the neck of the tube for holding the sand line in position and cross bolts extending through the liner and casing for holding the liner in position, said plunger comprising concentric pipe sections with the inner sec-



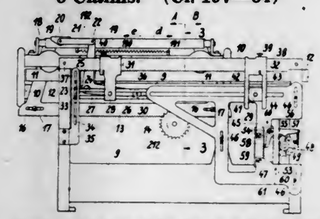
tion extending below the outer section, expanding washers and spacers surrounding the lower extended end of the inner pipe section and underlying the lower end of the outer pipe section and an adjusting nut threaded on the lower end of the inner pipe section engageable with the expanding washers and spacers.

2,325,504
BELT WRAPPER GUARD
Alfred C. Goins, Gary, Ind., assignor to Carnegie-Illinois Steel Corporation, a corporation of New Jersey
Application January 7, 1942, Serial No. 425,939
7 Claims. (Cl. 242—78)



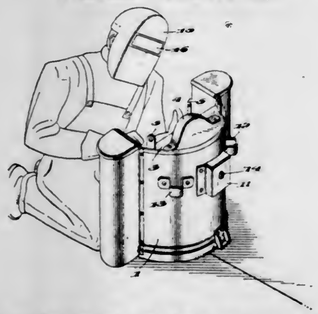
1. In combination with a belt wrapper mechanism of the class described including a plurality of spaced apart horizontally disposed rollers having at least one endless belt arranged thereabout with a portion thereof between the rollers adapted to partially encircle a coiling or reeling member, means for protecting that portion of the belt adapted to partially encircle the coiling member from the whipping action of the tail end of the coiled strip comprising a guard member, means for pivotally attaching said guard member to the belt wrapper mechanism, means for moving said guard member to one position over the wrapper belt so as to protect the same, and means for moving said guard member away from the wrapper belt to another position.

2,325,505
JUSTIFYING MECHANISM FOR TYPEWRITERS AND THE LIKE
András Goy, Budapest, Hungary; vested in the Alien Property Custodian
Application July 18, 1940, Serial No. 346,228
In Hungary July 18, 1939
8 Claims. (Cl. 197—84)



1. A device adapted to be used in connection with typewriting machines, including a paper carriage, and letter feed means therefor, means for varying the length of the letter feed movements of the carriage to justify the lines of writing to a desired uniform length, an actuating member to effect an additional movement of the paper carriage, a control member connected to said actuating member, and means to adjust said control member, on the one hand, in accordance with various differences in the lengths of the lines, and on the other hand, in accordance with the length of a line, and means to operate said control member.

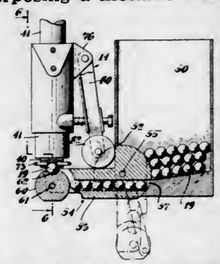
2,325,506
COMBINED WELDER'S SHIELD AND SUPPLY CONTAINER
Harold S. Grace, New Orleans, La.
Application May 14, 1943, Serial No. 487,030
5 Claims. (Cl. 206—1)



1. A combined shield and supply container unit for welders comprising a base member having a closed front and sides and a partially closed top, the bottom and rear thereof being open, and a housing element secured to each side of the base adjacent the open rear thereof to provide the outer and bottom walls of a rod compartment, the inner wall of which is formed by the adjacent side portion of the base.

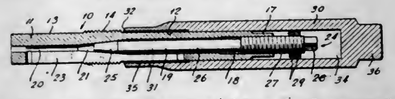
2,325,507
PROJECTION WELDING MACHINE
Howard P. Guirl, East Chicago, Ind., and Fred G. Troppman, Lansing, Ill., assignors to The Superheater Company, New York, N. Y.
Application March 31, 1942, Serial No. 436,994
5 Claims. (Cl. 219—4)

1. In welding apparatus having a work support; an electrode spaced from said support, and means for moving said electrode toward said support to engage a metallic element against a metallic work piece on said support so that an electric current may be passed therethrough for welding them together; feeding means movable into a position between said electrode and support for interposing a metallic element between



said electrode and said work piece; means responsive to the movement of said electrode toward said support for positioning said feeding means out of the path of said electrode; and means associated with said electrode for retaining a metallic element in position thereon to engage a work piece on said support upon retraction of said feeding means.

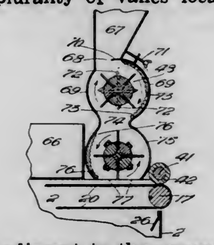
2,325,508
EXPANDING AND STAKING TOOL
Otto Haas, Richmond Hill, and James Richard Hawkins, Flushing, N. Y., assignors to Aircraft Screw Products Company, Inc., Long Island City, N. Y., a corporation of New York
Application June 24, 1942, Serial No. 448,256
9 Claims. (Cl. 10—1)



9. An expanding and staking tool comprising in co-axial arrangement an expansible hollow first member having a conical inner face in its lower portion and a cylindrical and interiorly threaded upper portion, a second member projecting into said first member from its top, said second member having a conical portion in engagement with said conical face and a threaded portion in engagement with the threaded portion of said first member, adjustable means to gauge the expansion of said first member by limiting the depth to which the second member can be advanced, and a removable cylindrical hollow punch fitting over said upper portion of said first member, said second member and said means, said punch having an annular staking surface and an inner guiding surface for engagement with said cylindrical outer surface of said first member.

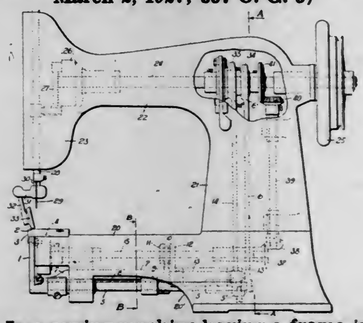
2,325,509
PEA SHELLING APPARATUS
Henry William Hastwell, Hobart, Tasmania, Australia
Application April 7, 1941, Serial No. 387,299
In Australia April 6, 1940
9 Claims. (Cl. 130—30)
(Granted under the provisions of sec. 14, act of March 2, 1927; 357 O. G. 5)

1. A pea shelling apparatus comprising a pair of superimposed pod squeezing rollers, a belt having a series of pea delivery holes therein and passing around the lower roller, a floating pea stop or deflector located between the upper and lower portions of the belt, a pea-receiving receptacle located below the belt, and a feed device having a plurality of vanes located above the



holed belt adjacent to the squeezing rollers and serving to force the pods between the upper roller and the belt as such belt passes around the lower roller.

2,325,510
FEEDING MECHANISM FOR SEWING MACHINES
James Heggie, Clydebank, Scotland, assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application November 12, 1941, Serial No. 418,821
In Great Britain November 11, 1940
5 Claims. (Cl. 112—215)
(Granted under the provisions of sec. 14, act of March 2, 1927; 357 O. G. 5)

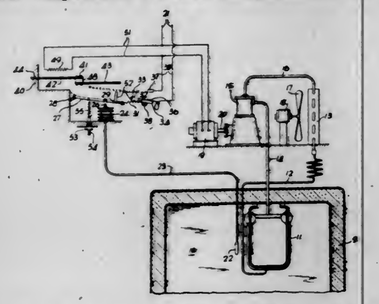


1. In a sewing machine having a frame including a bracket-arm and a work-arm formed with a head, in combination, a main shaft journalled in said bracket-arm, a feed-rock-shaft journalled within said work-arm, a feed-lift-shaft journalled within said work-arm, a bracket fixed to said feed-lift-shaft within said work-arm, a feed-shaft journalled in said bracket and eccentric to said feed-lift-shaft, operative connections within the body of said work-arm for communicating oscillatory movements to said feed-shaft from said feed-rock-shaft, a feed-dog carrier mounted within the head of said work-arm on the forward end of said feed-shaft, and operative connections between said feed-rock-shaft and feed-lift-shaft and said main shaft.

2,325,511
REFRIGERATION APPARATUS
Harry R. Heintzen, Philadelphia, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 21, 1940, Serial No. 325,095
3 Claims. (Cl. 62—4)

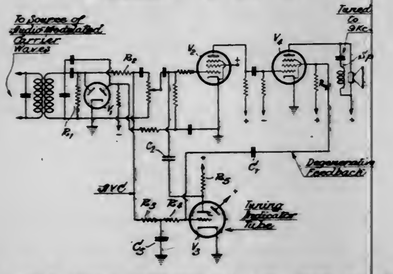
1. In refrigerating apparatus, the combination

of a chamber, a cooling unit for abstracting heat from said chamber, apparatus for supplying refrigerant to said cooling unit, and a thermostat for controlling said apparatus to maintain the temperature of said chamber substantially constant, said thermostat comprising a switch, means responsive to the temperature of said



chamber for moving said switch to energize said apparatus when the temperature of said chamber rises to a predetermined value, and means substantially independent of the cooling effect of said refrigerant for moving said switch to deenergize said apparatus a relatively constant time interval after said apparatus has been energized.

2,325,512
AUDIO AMPLIFIER RESPONSE CONTROL
Werner Hepp, Berlin, Germany; vested in the Alien Property Custodian
Application June 14, 1941, Serial No. 398,085
In Germany January 26, 1940
9 Claims. (Cl. 250—20)



1. In a radio receiver of the type provided with a source of audio-modulated carrier waves, a detector for producing audio voltage from the waves, an audio amplifier for the audio voltage and a visual current indicator tube the improvement which comprises means for impressing amplified audio voltage upon said indicator tube, means impressing the audio voltage output of the indicator tube upon the input of said amplifier in degenerative sense, and means responsive to carrier amplitude variation for varying the gain of the indicator tube.

2,325,513
HALIDES OF POLYVINYL COMPOUNDS
Willy O. Herrmann, Diesenhofen, and Wolfram Haehnel, Munich, Germany; vested in the Alien Property Custodian
No Drawing. Application April 23, 1940, Serial No. 331,210. In Germany May 27, 1939
5 Claims. (Cl. 260—73)

1. The method of preparing halogenated polymeric vinyl compounds which comprises introducing a halogen into a medium comprising substantially anhydrous acetic acid and a polymeric vinyl compound selected from the group consisting of polyvinyl alcohol and its esters and acetals.

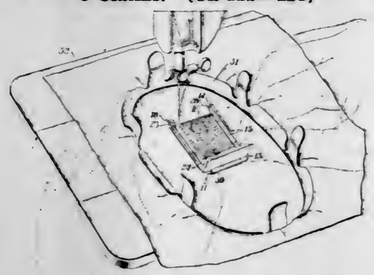
2,325,514
INSECTICIDAL COMPOSITIONS CONTAINING POLYETHERAMINES
William F. Hester, Drexel Hill, Pa., assignor to Röhm & Haas Company, Philadelphia, Pa., a corporation of Delaware
No Drawing. Application August 26, 1941, Serial No. 408,329
8 Claims. (Cl. 167—22)

1. Insecticidal and ovicidal compositions having as an active ingredient a compound of the formula

$$[R(OC_nH_{2n})_x]_mNR'_{3-m}$$

wherein R is an aliphatic hydrocarbon group of less than 13 carbon atoms, C_nH_{2n} represents an alkylene group in which n is an integer having a value of two to four inclusive, x is an integer of at least one, m is an integer having a value of two to three inclusive, and R' is a member of the class consisting of hydrogen, hydroxyalkyl, and hydrocarbon groups.

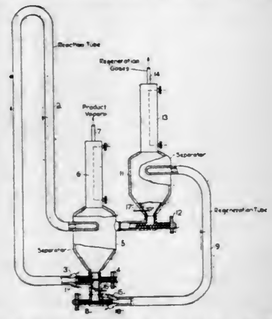
2,325,515
DARNING DEVICE
William Hofgesang, Avenel, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application November 15, 1941, Serial No. 419,254
3 Claims. (Cl. 112—121)



1. A thread holder for use in darning on a sewing machine having a flat work supporting surface comprising, a forked member having an upstanding handle, a pair of coplanar and parallel arms disposed entirely at one side of the handle so that they will rest flat upon the work, each arm being U-shaped, and a second pair of arms disposed between the limbs of the U-shaped arms, said second pair of arms being resilient and all of said arms lying substantially in the same plane and extending forwardly from said handle.

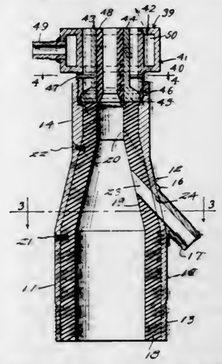
2,325,516
APPARATUS FOR EXECUTING REACTIONS WITH THE AID OF REGENERATIVE CONTACT MATERIALS
Benjamin Merrill Holt and George Edward Liedholm, Long Beach, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application August 20, 1940, Serial No. 353,392
1 Claim. (Cl. 196—52)

An apparatus adapted for the execution of vapor phase reactions with continuous recycle of regenerative finely divided catalyst comprising an elongated reaction chamber communicating with a chamber means for separating finely divided solids from vapors, means for introducing reactant vapors into said reaction chamber, conveyor means for continuously feeding separated finely divided catalyst from said separating means to said reaction zone, an elongated regeneration chamber communicating with a second chamber means for separating finely divided solids from vapors, means for introduc-



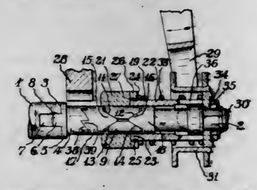
ing regeneration gases into said regeneration chamber, conveyor means for feeding separated finely divided catalyst from said second separating chamber to said first separating chamber, conveyor means for continuously feeding separated finely divided catalyst from said first separating means to said regeneration chamber, said last conveyor means being disposed below said first conveyor means, and means disposed between said first and last conveyor means for introducing an inert gas.

2,325,517
SANDBLAST NOZZLE
Robert O. Howard, Redding, Calif.
Application February 7, 1942, Serial No. 429,918
5 Claims. (Cl. 51—11)



1. In a sand blast nozzle including an outer body having a substantially frusto-conical forward end portion terminating in a cylindrical coupling member, a tip detachably connected with said coupling member and comprising a cylindrical outer tip member, a water jacket about the forward portion of said outer member, said jacket having a plurality of circumferentially spaced apart jet openings in the forward wall thereof inclined forwardly and inwardly to thereby provide a substantially conical head of water forwardly of said tip, an inner tip member including a cylindrical inner tip body, an annular flange carried by the inner end of said inner tip body, said outer tip member having an internal rearwardly opening groove in the rear end thereof within which said flange is adapted to engage, means holding said inner tip body concentric of said outer tip member, and a rubber lining within said inner tip body.

2,325,518
ENGINE STARTER GEARING
Burr W. Jones, Elmira Heights, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application May 12, 1942, Serial No. 442,591
8 Claims. (Cl. 74—6)



1. In an engine starter a power shaft, a driving member fixed thereon, an expansible sleeve on the power shaft, a pinion member slidably journalled on the driving member and sleeve, and means cooperating with the driving member to rotate the sleeve and expand it into clutching engagement with the interior of the pinion member.

2,325,519
METHOD OF PRODUCING PRINTING FORMS FROM COLLOIDS
Josef Koch, Siegburg, Germany; vested in the Alien Property Custodian
No Drawing. Application August 22, 1939, Serial No. 291,379. In Germany August 24, 1938
2 Claims. (Cl. 95—5.4)

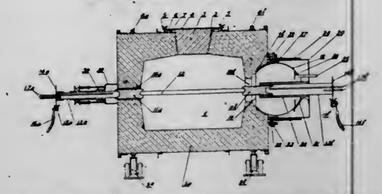
2. The process of producing an intaglio printing form comprising forming a laminated sheet of Celluloid coated with a screened light sensitive colloid, fixing an image of the matter to be printed in and entirely through said colloid by exposing the uncovered side of said colloid to a diapositive of said matter, applying said sheet to a printing form carrier with the colloid layer thereagainst, dissolving said Celluloid with a solvent for the Celluloid only, and washing unexposed portions of said colloid from said carrier.

2,325,520
PILE FABRIC
Willem Jacobus Krijger, Deventer, Netherlands; vested in the Alien Property Custodian
Application March 17, 1941, Serial No. 383,863
In the Netherlands July 28, 1939
6 Claims. (Cl. 139—401)



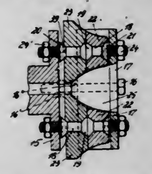
1. A cut warp pile fabric in which complete pile tufts are bound each around at least one weft thread and in which additional complete pile tufts are provided each bound around at least one different weft thread and in one and the same plane in the direction of the warp over at least one of the first mentioned pile tufts.

2,325,521
ELECTRIC FURNACE FOR THE MANUFACTURE OF CONDENSABLE PRODUCTS
Roger Emile Lambert, Paris, France; vested in the Alien Property Custodian
Application January 9, 1942, Serial No. 426,212
In France June 24, 1940
5 Claims. (Cl. 13—8)



1. An electric furnace for the manufacture of condensable products, which comprises a furnace part of generally cylindrical shape and hollow within to provide a reaction chamber, said furnace part being disposed with its axis substantially horizontal, means supporting said furnace part and mounting it for rotative movement about said axis, electrode supporting means mounted axially at one end of said furnace part and in gas-tight relation therewith, an electrode in said electrode supporting means, a housing detachably mounted in gas-tight relationship and in an axial position at the other end of said furnace part, electrode holding means axially mounted on said casing, an electrode therein, and a removable condenser shell axially mounted within said casing, and in communication with said reaction chamber.

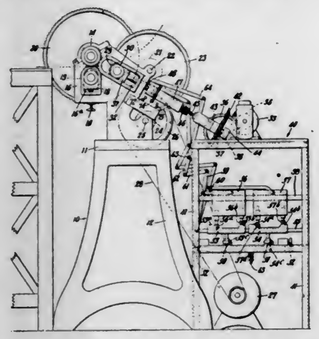
2,325,522
APPARATUS FOR CONTRACTING THE ENDS OF HOLLOW BODIES
Ambrosius Lauer, Posen, and Willy Lauer, Karlsruhe, Germany; vested in the Alien Property Custodian
Application July 29, 1940, Serial No. 348,274
In Germany August 14, 1939
4 Claims. (Cl. 78—89)



1. A tool for contracting and reinforcing the open ends of metal work pieces, comprising two pairs of rollers each pair being coaxially mounted on a common shaft, said rollers being engageable with the work piece, and means for selectively locking either or both of said pairs of rollers against rotation, for establishing rubbing engagement of the locked pair of rollers with the work piece.

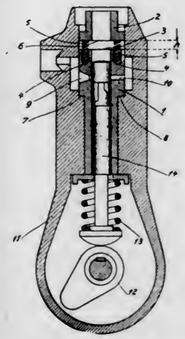
2,325,523
METAL ROLLING AND BENDING DEVICE
Basil Lermont, New York, and Arnold M. Wolf, Brooklyn, N. Y., assignors to Cairns Corporation, Brooklyn, N. Y., a corporation of Delaware
Application February 8, 1943, Serial No. 475,098
4 Claims. (Cl. 153—54)

1. A metal bending device comprising a pair of parallel driven rolls for advancing a sheet of metal, cam means movable in response to rotation of said rolls, a third roll adjacent to said pair of rolls, a means at and for moving each end of said third roll selectively toward and away from said pair of rolls to vary the spacing and angular relationship between said third roll and said pair of rolls, a separate electric motor



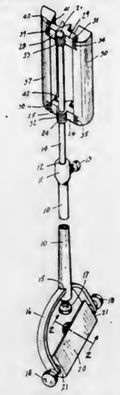
for actuating each of said means, switch means actuated by movement of said cams, and electrical connections between said switch means and said motor for moving said third roll in response to actuation of said switches by said cams.

2,325,524
FUEL INJECTION PUMP
Heinz Links, Gaggenau, Germany; vested in the Alien Property Custodian
Application June 7, 1941, Serial No. 396,994
In Germany April 16, 1940
5 Claims. (Cl. 103—41)



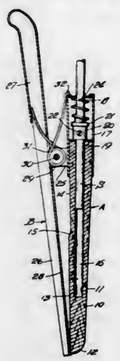
1. In a fluid pump, a pump housing enclosing a pump chamber, a hollow sleeve in said pump chamber, rotatably mounted in said housing and provided with one or more radial openings leading to the interior of said pump chamber, and a pump piston reciprocal within said sleeve, having a circumferentially variable controlling groove cooperating with at least one of said openings to control the flow of fluid to the interior of said pump chamber, whereby rotation of said sleeve in said housing will vary the relative position of said opening and controlling groove to vary the fluid flow to said pump chamber, one end of said sleeve being provided with a plurality of depressions adapted to receive a tool for rotatably adjusting said sleeve, and means cooperating with said depressed end of the sleeve to lock it against further rotation.

2,325,525
GOLF CLUB
Emery D. Lukenbill, Indianapolis, Ind.
Application November 29, 1941, Serial No. 420,997
8 Claims. (Cl. 273—77)



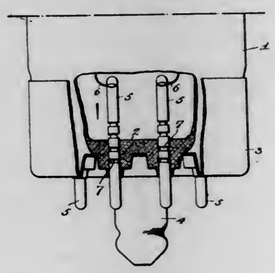
1. In a golf club having a central handle portion, the combination of a pair of elongated, hand engageable, portions parallel thereto and pivotally supported by the handle for movement toward and away from the latter, said hand engageable portions when extended providing a finger receiving rearward opening.

2,325,526
POSTMAN'S UMBRELLA ATTACHMENT
Wayne H. Major, Fort Wayne, Ind.
Application June 16, 1942, Serial No. 447,289
1 Claim. (Cl. 224—5.1)



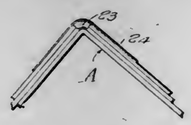
In a postman's umbrella carrier of the character described, a body having a bore extending downwardly from its upper end, a tubular housing telescopically and non-rotatably mounted on the upper end of the body, said housing having an upper end closure provided with an opening substantially equal in size to and alined with said bore, an umbrella shaft projecting downward through said opening and bore, a collar within said housing surrounding the shaft above said body, a set-screw securing the collar releasably in selected position on the shaft, said housing having a lateral opening affording access to said set-screw, a flange extending circumferentially around the collar intermediate the ends of the collar, said set-screw being located below the flange, a coiled compression spring surrounding said shaft with one end bearing against the housing closure and its other end resting on said flange, and the end of the collar above the flange engaging in and centering the spring around the shaft.

2,325,527
TUBE STRUCTURE
Karl F. Mayers, Somerville, N. J., assignor to National Union Radio Corporation, Elizabeth, N. J., a corporation of Delaware
Application January 15, 1942, Serial No. 426,925
2 Claims. (Cl. 250—27.5)



1. In a vacuum tube, an evacuated envelope having a relatively thick portion formed entirely of a single fusible material, a plurality of contact pins extending from the exterior of said envelope through said portion to the interior of said envelope, and directly engaging said material, the maintenance of the vacuum within said envelope being dependent upon the establishment and maintenance of a direct seal between said pins and said material, such seal being susceptible to breakage thereof along a longitudinal surface scratch on any one of said pins, and means for maintaining said seal and preventing such breakage thereof, said means comprising at least one circumferential groove on each pin located entirely within said portion and filled with said material, said groove being of sufficient depth so that the material therein forms a permanent seal about the pin which is unaffected by the presence of a surface scratch.

2,325,528
ONE-PIECE PLYWOOD CORNER UNIT
Harold McGowan, Central Islip, N. Y., assignor of one-half to Bert Raskin, Brightwaters, N. Y.
Application May 17, 1941, Serial No. 394,022
6 Claims. (Cl. 20—92)

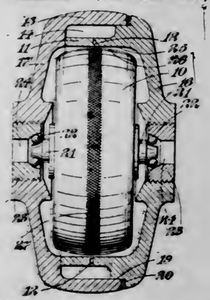


1. A corner unit for buildings, comprising a plywood sheet of material having a channel of uniform width extending from the outer face thereof to its approximate center, said channeled portion being bent to form angularly disposed wall portions, and a binder filling said channel, the outer face of said binder being flush with the outer faces of the angular walls of the corner unit.

2,325,529
COUGH DROP
Edward C. Merrill, West Roxbury, Mass., assignor to United Drug Company, Boston, Mass., a corporation of Delaware
No Drawing. Application July 23, 1941, Serial No. 403,662
6 Claims. (Cl. 167—82)

1. A solution of acetyl salicylic acid and a sorbitol in a sugar that is substantially free from water.

2,325,530
FLUID DRIVEN GYROSCOPE
Frederick William Meredith, London, England, assignor to S. Smith & Sons (Motor Accessories) Limited, London, England, a British company
Application January 15, 1943, Serial No. 472,525
In Great Britain November 21, 1941
11 Claims. (Cl. 253—56)



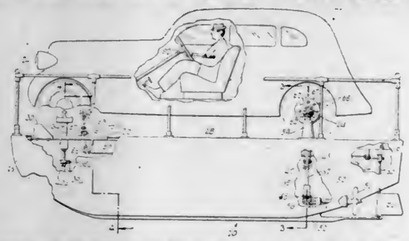
1. A fluid driven gyroscope comprising a rotor, a surround encircling the periphery of the rotor, said surround containing passages adapted to direct fluid on to said periphery in an appropriate direction to drive the rotor, means for causing flow of fluid in said passages toward said rotor, said periphery and surround being shaped to provide an annular space between them which is of less depth around a central radial plane of said rotor than at parallel radial planes spaced from said central plane, the depth of said annular space being uniform in any given radial plane throughout its full circular extent.

2,325,531
METHOD OF PRODUCING COATINGS
Willi Mertens, Berlin-Zehlendorf, Germany; vested in the Alien Property Custodian
No Drawing. Application December 14, 1939, Serial No. 309,192. In Germany December 19, 1938
5 Claims. (Cl. 117—128)

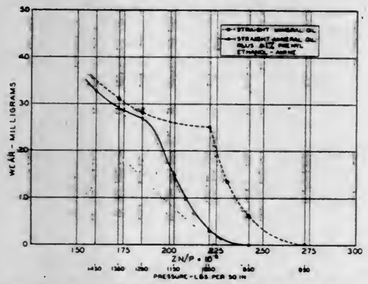
5. The method of providing condenser electrodes with a dielectric coating which comprises the steps of interpolymerizing polyisobutylene with a mixture of styrene and divinylbenzol thereby obtaining a hardened interpolymer, masticating the hardened interpolymer to render it resoluble, dissolving the masticated interpolymer in a solvent having an aliphatic and an aromatic component, applying the solution to the electrode surface to deposit a coating, and subjecting the coating to heat in order to remove the solvent.

2,325,532
BOAT OPERATED BY MOTIVE VEHICLES
Otto H. Miller, Union City, N. J.
Application December 12, 1941, Serial No. 422,655
3 Claims. (Cl. 115—0.5)

1. In combination with a boat, a motor vehicle on the boat, said vehicle having rear axles, means on the boat to jack up the vehicle on the boat, the rear wheels of the vehicle being removed, propelling means on the boat, and means to connect the propelling means to said rear axles of the vehicle.

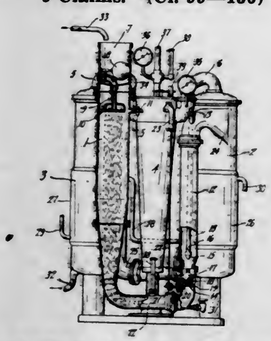


2,325,533
LUBRICANT
James V. Montgomery, Okmulgee, Okla., and Luke B. Goodson, Phillips, Tex., assignors to Phillips Petroleum Company, a corporation of Delaware
Application October 7, 1940, Serial No. 360,172
4 Claims. (Cl. 252—51)



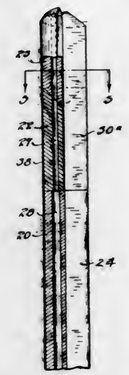
1. An improved lubricant of the class consisting of oils and greases having incorporated therein as a film strengthening agent phenyl ethanol amine in amount less than 0.2%.

2,325,534
METHOD OF TREATING ICE CREAM MIXES AND THE LIKE
Henry Lamont Murray, Epsom, Auckland, New Zealand, assignor to Murray Deodorisers Limited, Auckland, New Zealand
Application December 5, 1939, Serial No. 307,714
In New Zealand December 22, 1938
9 Claims. (Cl. 99—136)



1. The method of continuously processing ice cream mix containing milk solids and free sugar, comprising the steps of substantially instantaneously heating said ice cream mix to a pasteurizing temperature by mixing with steam while under the effect of subatmospheric pressure, deodorizing and distilling the said pasteurized mix by subjecting the same in counter flow to subatmospheric pressure substantially less than said pasteurizing pressure, and further distilling and cooling said deodorized mix to further remove condensed steam and volatile impurities and to protect the mix against the harmful effect of light at high temperatures by subjecting the same in counter flow to subatmospheric pressure substantially less than the deodorozing pressure, whereby caramelization of sugar in the mix is prevented and the viscosity and acidity of the mix is reduced.

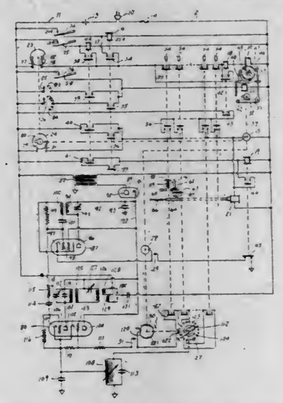
2,325,535
DRILL
Albert J. Nordberg, Detroit, Mich.
Application October 28, 1941, Serial No. 416,857
7 Claims. (Cl. 77—68)



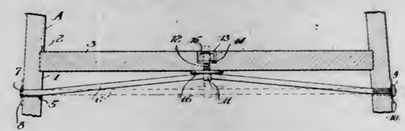
1. A tool of the character described comprising a tubular shank portion provided with a crescent shaped conduit, a tool bit holder and a high speed cutting tool bit, each having a conduit in alignment with said crescent shaped conduit, said tool shank, tool bit holder and tool bit being provided with a continuous outer coating covering the joints between said shank, tool bit holder and tool bit.

2,325,536
SIGNAL TRANSMITTER
Fred H. Osborne, Snyder, N. Y., assignor to The Rudolph Wurlitzer Company, Cincinnati, Ohio, a corporation
Application September 4, 1941, Serial No. 409,493
8 Claims. (Cl. 194—9)

1. In a signal transmitter having a cyclic signal generator, the sub-combination of a motor operating said generator, an impulse operated register device and associated circuits controlling operation of said motor and normally limiting the number of cycles of motor operation to the number of impulses registered thereby, check-off means operated by said motor during each operating cycle to check off a registration from said register device, a manually controlled electric switch and associated circuits adapted to initiate a cycle of operation of said motor, and an electric circuit adapted to operate said register device, said circuit including impulse switching means operated by said motor to register a predetermined number of impulses on said register device during the cycle of operation so initiated.



2,325,537
LADDER
John W. Pease, Rochester, N. Y.
Application July 22, 1942, Serial No. 451,887
4 Claims. (Cl. 228—59)

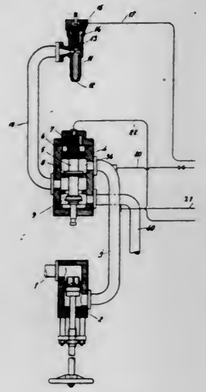


1. In a ladder, the combination with a pair of side rails and an abutting tread therebetween having its ends supported thereby and acting as a strut, of a tie rod extending through both side rails below the tread to react compressibly at its ends against the outer faces thereof at points below the tread, and means on the tread for forcibly laterally distorting the rod intermediate its length, the engagement of said means with the rod being adapted to prevent the relative movement of each in a direction longitudinally of the rod.

2,325,538
METHOD AND MEANS FOR OPERATING INTERNAL COMBUSTION ENGINES WITH SUPERCHARGE
Ove Petersen, Gentofte, and Svend Harald Jensen, Frederiksberg, Denmark; vested in the Alien Property Custodian
Application April 24, 1941, Serial No. 390,200
In Denmark April 3, 1940
7 Claims. (Cl. 123—65)

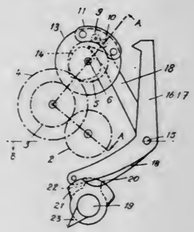
5. An internal combustion engine having pneumatically controlled starting valves for admitting high-pressure starting air into the cylinders for starting purposes, means for cutting off the supply of starting air through the said valves into the cylinders at normal operation, means for connecting the starting valves with a source of low-pressure supercharging air during normal operation and a separate cam in the ordinary distributor mechanism of the pneumatic valve-controlled gear, the said separate cam being arranged to control the starting valves pneumatically for

supercharging purposes in such a manner as to admit the low-pressure supercharging air into



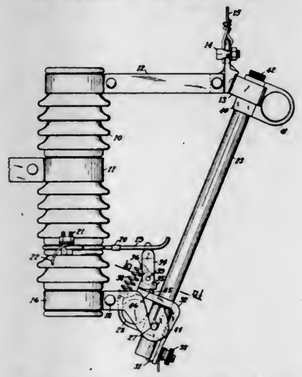
the cylinders upon conclusion of the normal scavenging and charging thereof.

2,325,539
TIMEPIECE WITH CHRONOGRAPH
Pierre Pfister, Sonceboz, Switzerland, assignor to the firm Societe Industrielle de Sonceboz SA, Sonceboz, Switzerland
Application August 12, 1940, Serial No. 352,322
In Switzerland August 22, 1939
2 Claims. (Cl. 58—74)



2. In a time piece with a chronograph mechanism, an operative connection between the indicating member of the chronograph mechanism and the movement of the time piece, said operative connection including a differential gear comprising a main axle, two sun wheels freely revoluble on said main axle, two planet pinions disposed parallel to one another and meshing each with the two sun wheels, and a first disk concentric and fast with the main axle and carrying said planet pinions, one of said sun wheels being connected to the movement of the time piece so as to be driven thereby, and the main axle being connected to the indicating member of said chronograph mechanism, a second disk conwheels, a heart-shaped cam fast with the main axle, and a control device associated with said differential gear and comprising two retaining levers adapted to be selectively brought into operation, a presser lever, and an operating button common to all said levers and carrying three cams upon its axle which are so disposed as respectively to assume positions opposite the lower ends of the retaining levers and the presser lever, one of said retaining levers being operative to arrest the first disk and therefore the main axle by engaging said first disk, the other of said retaining levers being operative to arrest the second disk and therefore the said other sun wheel by engaging said second disk, and the presser lever being adapted to bear upon the heart-shaped cam on said main axle, while the retaining levers are both held in an inoperative position, to effect a resetting of the chronograph mechanism to zero.

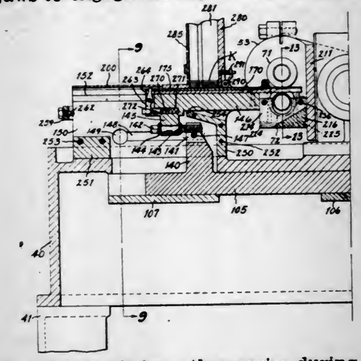
2,325,540
FUSE SWITCH
Ralph R. Pittman and Carroll H. Walsh, Pine Bluff, Ark.
Application January 12, 1939, Serial No. 250,600
18 Claims. (Cl. 200—114)



1. A fuse switch comprising an insulator, spaced switch terminals supported thereon, a fuse tube mounted on said insulator, a fuse link terminal member pivotally mounted on said tube at one side thereof, said fuse link terminal member spanning said tube and extending downwardly along the latter to a point adjacent the lower end of said tube, a fuse link extending through said tube and secured to said fuse link terminal member at its lower end and on the side of the tube opposite the pivotal mounting of said fuse link terminal member, a load terminal contact member pivoted on said tube and engaged with one switch terminal, means including the serial arrangement of said fuse link, said fuse link terminal member and said load terminal contact member for electrically connecting said switch terminals and means responsive to rupture of said fuse link for disengaging said load terminal contact member from said one switch terminal.

2,325,541
MILLING MACHINE
Lora E. Poole, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application December 4, 1939, Serial No. 307,378
7 Claims. (Cl. 90—15)

1. In a machine for milling longitudinal grooves in key blanks, the combination of a cutter carrying spindle bodily movable relative to the blank, a blank carrier providing a recess for receiving a key blank; a slide supported on the carrier having jaws for longitudinally gripping the head of the key blank; jaws carried by the carrier for laterally gripping the side edges of the key blank, means rendered effective by movement of the carrier to a position adjacent the cutter spindle for causing the slide to move longitudinally with respect to the carrier and causing the jaws to engage the key blank, and means for

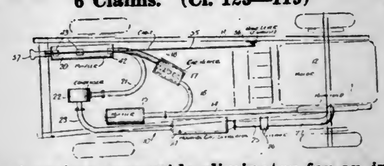


ejecting the blank from the carrier during movement of the carrier away from the cutter spindle.

2,325,542
EXTRACTION OF LIGNOSULPHONIC ACID
William C. Pritchard and Robert A. Daily, Muncie, Ind., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Original application August 8, 1938, Serial No. 223,706. Divided and this application January 25, 1940, Serial No. 315,470
2 Claims. (Cl. 260—124)

1. A process for extracting ligno-sulphonic acid in the substantially pure state from waste sulphite liquor for use as an addition agent in storage battery paste comprising, treating the waste sulphite liquor with sulphuric acid to bring the specific gravity of the solution to 1.3 and to form a precipitate containing ligno-sulphonic acid, which is separated from the remainder of the liquor and then dissolving out the ligno-sulphonic acid from the precipitate by the action of water, and thereby separating the ligno-sulphonic acid from the insoluble matter.

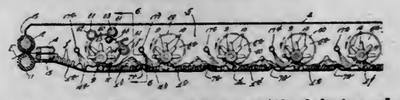
2,325,543
CARBON MONOXIDE ELIMINATOR
Karl Bedinger, Feasterville, Pa.
Application March 18, 1942, Serial No. 435,237
6 Claims. (Cl. 123—119)



3. A carbon monoxide eliminator for an internal combustion engine comprising exhaust means for receiving the exhaust gases from the engine, cooling means connected to the exhaust means for cooling said gases, carbon monoxide separator means connected to said cooler means, said carbon monoxide separator means discharging exhaust gases other than carbon monoxide to the atmosphere, means connecting the separator means, returning the carbon monoxide to the internal combustion engine, said separator means including a cylindrical member, an exhaust gas connection discharging into said cylindrical member axially thereof at one end, an outlet member extending axially from the other end

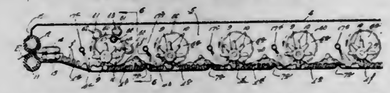
of said cylindrical member, a cone-shaped head on said outlet member in the path of the entering exhaust gases, said cylindrical member having a plurality of escape apertures therethrough, whereby the heavier constituents of exhaust gases striking said cone-shaped member are deflected to the escape apertures, and the lighter carbon monoxide is directed through said outlet member back toward the engine.

2,325,544
PROCESS FOR DETENSIONING FABRICS AND THE YARNS OR THREADS OF WHICH THE FABRIC IS COMPOSED
Frank R. Redman, Yardley, Pa.
Application August 28, 1941, Serial No. 408,676
17 Claims. (Cl. 26—19)



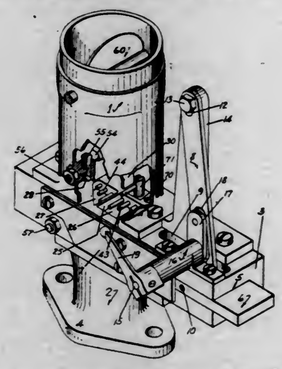
1. A process for shrinking textile fabrics, characterized by compressively rumpling a fabric lengthwise and widthwise over its entire area repeatedly in the presence of moisture and heat and constantly maintaining the fabric free from tension during and intermediate the repeated rumplings thereof.

2,325,545
APPARATUS FOR PRESHRINKING FABRICS
Frank Robert Redman, Yardley, Pa.
Original application August 28, 1941, Serial No. 408,676. Divided and this application April 23, 1943, Serial No. 484,187
10 Claims. (Cl. 26—19)



1. In an apparatus for shrinking textile fabrics, the combination of, a fabric-supporting surface, means for advancing longitudinally and repeatedly rumpling a fabric lengthwise and transversely in different areas while it is supported on said surface, and means for applying moisture and heat to the fabric on said surface.

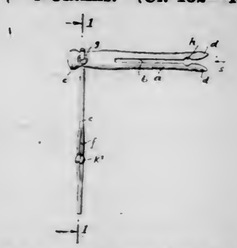
2,325,546
CARBURETOR
Harold D. Regar, Reading, Pa.
Application April 5, 1941, Serial No. 386,955
2 Claims. (Cl. 261—41)



2. In a carburetor for internal combustion en-

gines, an air inlet conduit, a mixture delivery conduit, and a transverse intermediate member between said conduits having a fuel-mixing aperture with straight sides alined with said conduits and forming a straight air passageway through the latter, a row of fuel spray nozzles extending laterally into said mixing aperture and brought into operation by suction of air passing over them, a partition wall in said mixture delivery conduit, another partition extending into said fuel-mixing aperture in said intermediate member beyond said row of fuel spray nozzles, such other partition being a continuation of said first named partition wall and dividing the fuel mixing aperture in said intermediate member into two passageways, one of which is triangular in cross-section, a slide valve mounted in said intermediate member in spaced relation between said spray nozzles and said delivery conduit, actuating mechanism for sliding said valve to vary the opening of said aperture and the number of spray nozzles brought into operation, and a separate spaced fuel-mixing passageway forming a constantly open air passageway connecting said conduits, the fuel mixing aperture of triangular cross-section, in said intermediate member, being located in such manner that the opening converges as said valve closes.

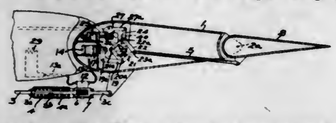
2,325,547
HAIR CURLER
Adolph Reiter, New York, N. Y.
Application June 23, 1942, Serial No. 448,085
3 Claims. (Cl. 132—42)



3. A hair curler comprising a base member consisting of a solid circular rod, an integral head at the one end of said rod, an open end radial slit in said rod extending from a point in the vicinity of the head through the entire length of the base member, the distance between the slit walls being considerably smaller than the radius of the rod, said slit being widened out at its open end, a passage in the said head, a hair securing cord adapted to be passed through the said passage, a knot in the one end of the cord, a seat in the head for the reception of the said knot transiting into the said passage, a second knot in the other end of the said cord, a circular recess in the walls of the slit, said recess being located in the vicinity of the widened out open end of the said slit, said cord being adapted to be squeezed into the said recess, the latter securing the second knot of the cord in its operating position.

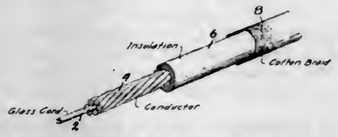
2,325,548
CONTROL MEANS FOR RUDDERS AND THE FLAPS THEREON
Helmut Roos, Johannes Dörr, and Wilhelm T. Koch, Dessau, Germany; vested in the Alien Property Custodian
Application December 7, 1940, Serial No. 368,966
In Germany November 20, 1939
6 Claims. (Cl. 244—87)

1. A control means of the character described comprising a rudder mounted for movement and having a flap pivoted thereon, an actuating rod yieldingly connected to the rudder for moving the latter, and means cooperable with the rod on initial movement thereof for imparting pivotal



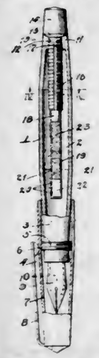
movement to the flap prior to movement of the rudder when the rod is moved, said means including coacting elements preventing movement of the flap by air forces exerted thereon.

2,325,549
IGNITION CABLE
John P. Ryzowitz, Wallington, N. J., assignor to The Okonite Company, Passaic, N. J., a corporation of New Jersey
Application May 24, 1941, Serial No. 395,015
1 Claim. (Cl. 174—110)



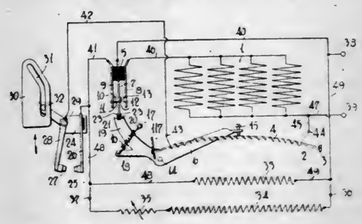
High tension ignition cable for internal combustion engines comprising in combination a continuous glass cord core, having a tensile strength substantially equivalent to that of steel, a copper conductor stranded about the core, and an insulating covering about the core and conductor assembly, the core and conductor being so assembled that rupturing of the conductor due to a longitudinal pull on the cable is prevented by the core.

2,325,550
FOUNTAIN PEN
Solomon M. Sager, Chicago, Ill.
Application June 4, 1942, Serial No. 445,703
10 Claims. (Cl. 120—42)



1. In a water carrying type of fountain pen, a dry ink unit for insertion therein, and comprising a shell having apertures therein, a primary charge of highly soluble dry ink in said shell, and a secondary charge of slower dissolving dry ink in the shell to be taken into solution by the water in the pen after the primary charge of dry ink has been consumed for the making of a writing fluid in the pen.

2,325,551
TIMED COOKER
Frank W. Scharf, Marshall, Mich., assignor to McGraw Electric Company, Elgin, Ill., a corporation of Delaware
Application July 8, 1940, Serial No. 344,437
27 Claims. (Cl. 161—16)



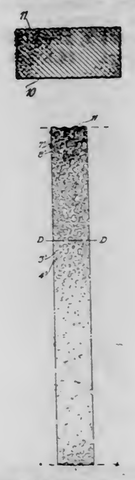
1. In a bread toasting device, a heater, a toasting space heated by the heater, timing means determining the toasting period of the heater comprising thermally responsive means becoming operative upon movement by heating to a predetermined temperature to initiate operation of said heater to raise the temperature of the space and start the toasting period, and means for terminating operation of said heater to lower the temperature of the space and end the toasting period operating in dependency on cooling of the thermally responsive means to a predetermined lower temperature.

2,325,552
PROCESS FOR THE PRODUCTION OF POLYCONDENSATION PRODUCTS CONTAINING NITROGEN
Paul Schlack, Berlin-Treptow, Germany; vested in the Alien Property Custodian
No Drawing. Application June 19, 1940, Serial No. 341,307. In Germany June 12, 1939
4 Claims. (Cl. 260—2)

1. The process for the production of nitrogenous polycondensation products which comprises condensing intermolecularly by heat compounds obtained by the reaction of a compound selected from the class consisting of chloroformic acid hydrocarbon esters and phosgene with a substance selected from the class consisting of mono-amino mono-alcohols and their halide salts in which the amino- and hydroxyl-groups are terminal groups, and mono-amino mono-mercaptans and their halide salts in which the amino and the mercapto groups are terminal groups, said terminal groups in said substances being separated by a chain of at least 4 carbon atoms, said carbon atoms being saturated.

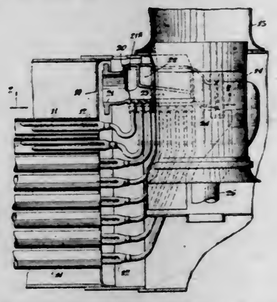
2,325,553
REFRACTORY AND METHOD OF PRODUCING THE SAME
Henry M. Schleicher, Elizabeth, and William E. Iverson, Woodbridge, N. J., assignors, of one-half to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut, and one-half to United States Metal Refining Company, Carteret, N. J., a corporation of New Jersey
Application April 14, 1941, Serial No. 388,438
16 Claims. (Cl. 117—54)

14. Method of providing a zirconium compound refractory penetration into a puffed clay brick which comprises applying orthophosphoric acid (U. S. syrupy 85%) to a surface of said brick to be treated, introducing into said surface interstices a mixture comprising a zirconium compound, phosphoric acid as a bonding agent and



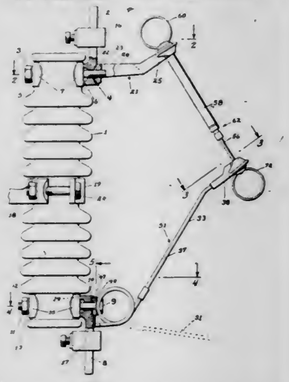
water, said mixture being so constituted and prepared as to have a paint-like consistency, then drying, baking and firing said brick.

2,325,554
SUPERHEATER HEADER
Bert Smith, Teaneck, and Charles Ringel, Hawthorne, N. J., assignors to The Superheater Company, New York, N. Y.
Application October 18, 1941, Serial No. 415,550
2 Claims. (Cl. 122—462)



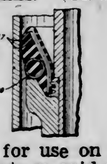
1. In a locomotive boiler having a smoke stack extension in the smoke box forwardly of the front tube sheet into which are connected a plurality of rows of flues containing superheater tubes, and a superheater header located above the uppermost row of flues and formed with main saturated and superheated steam chambers; means forming a plurality of subsidiary steam chambers communicating with said main chambers and extending forwardly therefrom at right angles thereto and having openings in their undersides for connecting the superheater tubes thereto, said subsidiary chambers being of progressively decreasing lengths with the longest located adjacent each lateral edge of the header and disposed alongside the stack and the shortest subsidiary chambers located in the central portion of the header and disposed rearwardly of the stack.

2,325,555
FUSE DEVICE
Alwin G. Steinmayer, Milwaukee, Wis., assignor to Line Material Company, Milwaukee, Wis., a corporation of Delaware
Application August 3, 1940, Serial No. 350,697
16 Claims. (Cl. 200—117)



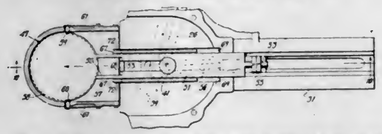
15. Electrical apparatus comprising a circuit-protecting device having a pair of spaced contact terminals, at least one of which is of the ball type, and a support for said device including a pair of spaced arms, each anchored at one end only and each having a free end-portion remote from its anchorage, at least one of said arms being spring-biased away from the other, said free end-portions being spaced apart and co-related to receive and support, conjointly, said circuit-protecting device and operative to engage, respectively, the aforesaid contact terminals in a manner effective to apply tension to said device, at least one of said free end-portions having a socket-like contact pocket operative to receive and make contact with said ball-type terminal, and a lateral slot leading into said pocket to provide lateral access thereto for said device, said ball-type terminal and said socket-like contact pocket being co-operative in the manner of a ball-and-socket joint.

2,325,556
WELL SWAB
Raymond G. Taylor, Jr., and Donald B. Hooser, Dallas, Tex., assignors to The Guiberson Corporation, Dallas, Tex., a corporation of Delaware
Application March 22, 1941, Serial No. 384,672
10 Claims. (Cl. 309—4)



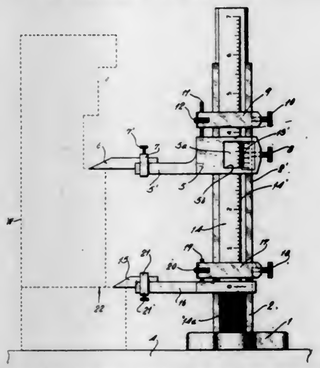
4. A well swab for use on a pipe in a casing including a support on said pipe, there being a passageway between the support and casing so that well fluid can flow by said support when the pipe is being lowered in the well, a swab cup of flexible material resting on said support and adapted to be expanded into engagement with the casing by well fluid when the pipe is lifted and a circumferentially expansible spring embedded in the lower portion of the cup and resting on the support and adapted to prevent the cup from flowing downwardly between the support and the casing.

2,325,557
APPARATUS FOR APPLYING FLANGED CLOSURES
Clifford B. Terry, Flushing, N. Y., assignor to Lily-Tulip Cup Corporation, New York, N. Y., a corporation of Delaware
Application April 28, 1941, Serial No. 390,702
3 Claims. (Cl. 226—80)



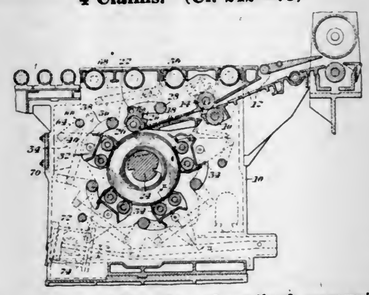
1. In a capping device for applying circular caps to receptacles, the combination of a capping head provided with a face against which said cap is to be seated and a downwardly extending flange for limiting the forward movement of a cap fed into said head, resilient fingers disposed below said face and extending inwardly from respectively opposite peripheral sides of said head relative to the direction of said movement for supporting a cap on said head, means for feeding a cap forwardly against said flange and between said fingers into position on said head, suction means for urging said cap vertically against said face, said resilient fingers being positioned rearwardly from the position on said head corresponding to the diameter of said cap in order to securely center the cap laterally on the head, said suction means being provided with a mouth of a relatively small area disposed contiguous the level at which the cap is fed forwardly into the head to insure a vacuum seal upon portions of the cap surface as the cap is fed forward, said feeding means and resilient fingers and suction means being so constructed and arranged that the suction means supports the forward portion of said cap during the forward feeding movement thereof into position on said head and assures the supporting engagement of said cap by said resilient fingers.

2,325,558
HEIGHT GAUGE
George Uslan, Irvington, N. J., assignor of one-fourth to Donald O'Brien, Englewood, N. J.
Application May 30, 1942, Serial No. 445,112
3 Claims. (Cl. 33—169)



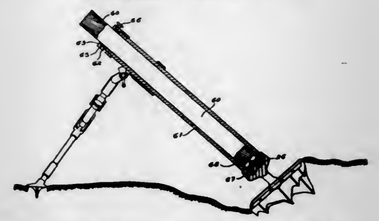
1. A height gauge embodying in combination an elongated relatively stationary body member, a transversely-disposed measurement-determining member comprising a carrier slidably mounted on said body member and a pointer carried by said carrier, a longitudinally-disposed sliding scale member mounted to slide longitudinally in relation to said body member and arranged in cooperative measuring relationship to said transversely-disposed slidable measurement-determining member, and a measurement-starting pointer-member carried by said longitudinally-disposed scale member.

2,325,559
STRIP COILER
Patrick Henry Washam, Jr., Dravosburg, Pa.
Application September 5, 1942, Serial No. 457,501
4 Claims. (Cl. 242—78)



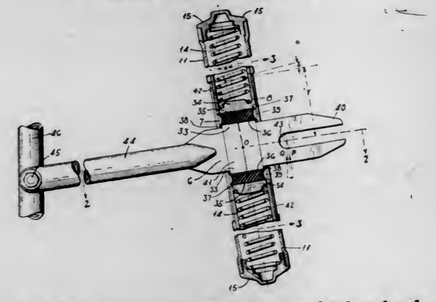
1. A coiler of the class described, comprising a circular series of power-driven rolls for frictionally engaging the outer convolution of strip being coiled, carrier frames for said rolls, a hanger link and a crank arm connected with each carrier frame, levers and links connecting the several crank arms in such manner that the several frames can be moved by said cranks in unison toward and from the axis of the coiled strip engaged by said circular series of rolls, each said crank arm having an eccentric pin connection with said frame effective to vary the relative position between the crank arm and the frame to permit of precision adjustment of the relationship of the rolls to the coil of strip so as to compensate for wear.

2,325,560
ORDNANCE
Jean Wauters, Brussels, Belgium; vested in the Alien Property Custodian
Application July 24, 1939, Serial No. 286,280
In Luxemburg July 30, 1938
1 Claim. (Cl. 89—1)



An artillery piece comprising a rifled gun barrel, a smooth bore tube surrounding said rifled gun barrel, lugs fixed to the outer surface of said rifled barrel adjacent one end thereof, a sleeve secured to the muzzle end of said smooth bore tube and having a rim portion extending inwardly toward the rifled gun barrel, said rim portion being provided with slots similarly shaped with respect to the lugs on said rifled gun barrel whereby said lugs are adapted to be passed through said slots and to become disposed within said rim portion upon manipulation of the rifled gun barrel, and locking means engageable with said lugs for locking the rifled gun barrel within said sleeve.

2,325,561
SPRING SUSPENSION FOR VEHICLE WHEELS
Hermann Weber and Georg Petersen, Zschopau, Germany; vested in the Alien Property Custodian
Continuation of application Serial No. 180,109, December 16, 1937. This application June 14, 1940, Serial No. 340,439½. In Germany December 16, 1936
2 Claims. (Cl. 280—284)



1. A spring suspension unit for a vehicle wheel, said unit comprising, in combination, a movable fork member connected with said wheel and pivoted to the frame of the vehicle, a guiding piston comprising a middle portion having an opening formed therein through which said fork member extends, and a tubular end portion; rubber buffers interposed between said movable portion and said fork member, adhesive discs connected with said rubber buffers and connecting the same to said middle portion and said fork member, a cylinder enclosing said tubular end portion and resilient means engaging said piston and situated within said cylinder.

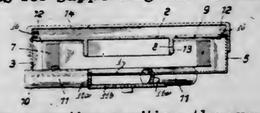
2,325,562
PLASTIC ADHESIVE
Herman E. Wening, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
No Drawing. Application December 18, 1939, Serial No. 309,827
1 Claim. (Cl. 260—744)

A plastic adhesive rubber compound for providing non-slip cementation resistant of temperatures as high as 100° C., comprising: an aqueous dispersion containing from 9½ to 11 parts rubber, from 7½ to 12½ parts of a tack-producing material consisting essentially of an ester gum, a fractional part of a saponifying agent for said tack-producing material, and from ¾ of a part to 1½ parts of a peptizing agent for inhibiting coagulation of said rubber in said dispersion.

2,325,563
FILM CONTAINER FOR ENDLESS FILMS
Hugo Westerkamp, Cologne-Braunsfeld, Germany; vested in the Alien Property Custodian
Application August 6, 1940, Serial No. 351,561
In Germany October 6, 1939
8 Claims. (Cl. 88—18.7)

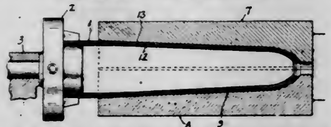
1. A removable film container for permanently holding a coil of endless film, comprising upper

and lower end walls and peripheral walls, said walls being fixedly connected to provide a closed container for the coil of film, the upper end wall being apertured for exposing a portion of the inner and outer turns of the coil and for permitting access to the film loop connecting said turns, the lower end wall having openings for the passage of elements for supporting and driving the film



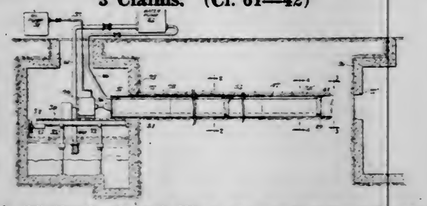
coil when in operating position, the space between said end walls being greater than the width of the film by at least the amount to which the said elements extend into the film container whereby the said elements support the coil above said lower wall when the parts are in operating position.

2,325,564
ELECTRIC FORMING OF METALLIC STRUCTURES
Sven Westin, West Allis, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application December 3, 1942, Serial No. 467,711
5 Claims. (Cl. 219—3)



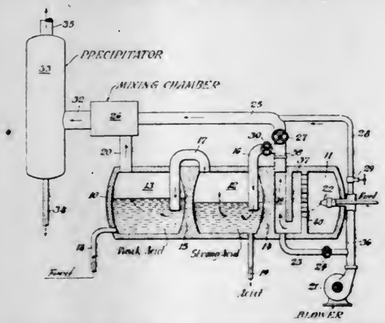
1. The method of electric forming a metallic structure in which a tubular blank of single plate wall thickness would have a tendency to wrinkle under the progressive heating and forming operation, comprising constructing the wall of the blank from two or more layers constituting superimposed tubular members, and simultaneously electric resistance heating and forming the members together.

2,325,565
INSTALLATION OF UNDERGROUND DUCTS
Ernest Williams, Jackson Heights, N. Y., assignor to Consolidated Edison Company of New York, Inc., New York, N. Y., a corporation of New York
Application January 10, 1941, Serial No. 373,949
3 Claims. (Cl. 61—42)



1. Method of installing an underground concrete duct, which comprises pushing from one accessible location, into solidly compacted earth successively, a series of end-to-end hollow metal casing sections until such series extends from said location continuously to a second accessible location, meanwhile moving obstructing earth back through said series of sections to said first mentioned location, and thereby initially forming a continuous cavity lined by said sections between said locations, then successively introducing at one of said locations a series of end-to-end concrete duct sections, having a cross section approximating that of the casing sections, pushing said series of duct sections into the cavity formed by said casing and against an end of the series of casing sections, and thereby pushing the series of casing sections out of such cavity and successively to the other of said locations, whereby the casing sections are finally replaced by a continuous series of the duct sections.

2,325,566
SULPHURIC ACID CONCENTRATION
Edwin G. Wiley, Hammond, Ind., Leonard A. Groshans, Chicago, Ill., and Claude P. McNeil, Whiting, Ind., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application February 19, 1940, Serial No. 319,620
6 Claims. (Cl. 23—307)



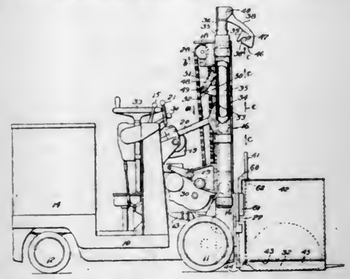
1. In the method of concentrating sulphuric acid comprising treating liquid sulphuric acid by direct contact with heated gases, separating said gases together with acidic material entrained therein from said sulphuric acids at a temperature of about 200° F., and recovering from said gases a major portion of said entrained material, the improvement comprising further heating said gases to a temperature above 275° F. after separation from said liquid sulphuric acid and before recovering said entrained material.

2,325,567
N-POLYALKYLENE POLYAMINOMALONAMIDE
Louis H. Bock, Huntingdon Valley, and Alva L. Houk, Philadelphia, Pa., assignors to Röhm & Haas Company, Philadelphia, Pa., a corporation of Delaware
No Drawing. Application April 9, 1941, Serial No. 387,681
12 Claims. (Cl. 260—482)

1. An aminoamide of malonic acid in which an amido nitrogen atom carries a saturated group terminating in a primary amino group and having a chain containing at least four carbon atoms interrupted by at least one —NH— group to form alkylene groups of two to three carbon atoms each.

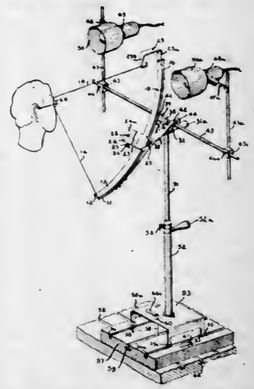
2,325,568
TRUCK
Philip W. Eaton, Boston, Mass., assignor, by direct and mesne assignments, of seven-tenths to Thomas A. Cotter, Boston, and three-tenths to Charlotte E. Wilson, Brookline, Mass.
Application March 28, 1940, Serial No. 326,442
11 Claims. (Cl. 214—113)

1. An automotive truck comprising bucket hoisting and dumping apparatus including, in combination, a main frame disposed at one end of the vehicle and extending upwardly therefrom; a supplemental frame mounted on said main frame for movement up and down relatively thereto; a carriage movable up and down on said supplemental frame and providing a seat for a bucket; power operated mechanism operable to move said carriage upwardly on said supplemental frame to the upper end of the latter and to thereafter move said carriage and supplemental frame together upwardly relatively to said main frame; a bucket seated on said carriage made with a bail and having a bottom wall hingedly connected with the body of said bucket,



said bottom wall being supported in closed position by said seat; a pendant bucket-dumping hook member; a support on which said dumping member is pivotally supported adjacent to the upper end of said supplemental frame and in the path of said bail, said support being slidably associated with said main frame and in abutting engagement with said supplemental frame so as to move upwardly with the latter, and mechanism for locking said support in its elevated position while said carriage and said bucket are being raised and lowered to engage said bail with said hook member and to dump the contents of said bucket.

2,325,569
EYE TESTING DEVICE
Virgil H. Hancock, Columbia, La., and Reuel W. Bennett, Chicago, Ill.
Application August 2, 1940, Serial No. 349,930
2 Claims. (Cl. 88—20)

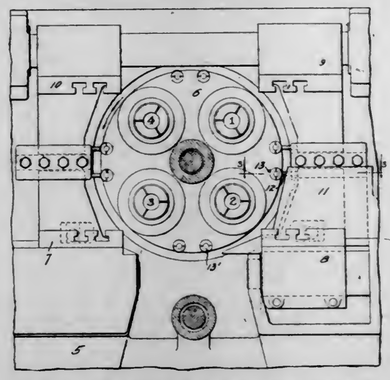


1. In combination in an eye testing device, picture taking means for taking pictures of the eyes to be tested, a member arched in a substantially vertical plane and adjustably supporting said picture taking means, means for adjustably positioning said picture taking means on said member, a flexible wire or cord having its ends respectively attached to said arched member adjacent the ends thereof and being provided with connecting means intermediate its ends, said connecting means being adapted to be connected with the bridge portion of a pair of graduated spectacles intermediate the glasses thereof and being so located as to coincide approximately with the center of curvature of said arched member when the cord or wire is in tightened condition and the plane through said wire or cord approximately forms a plane of symmetry of said arched member, said center of curvature indicating a point of said bridge portion when said pair of spectacles properly covers the eyes to be tested.

2,325,570
LIGNOCELLULOSE FOR MOLDING COMPOUNDS
Raphael Katzen and Richard H. Plow, Phelps, Wis., and Edgar T. Olson, Pittsburgh, Pa., assignors to Northwood Chemical Company, Phelps, Wis., a corporation of Wisconsin
Application June 29, 1940, Serial No. 343,248
9 Claims. (Cl. 106—163)

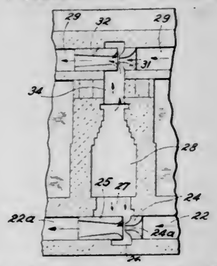
8. A molding compound comprising phenol formaldehyde resins, and hydrolized lignocellulose, said lignocellulose containing between about 2% and about 6% of moisture, having a pH value between about 3 and about 6, and containing between about 35% and 50% of lignin.

2,325,571
FORMING SLIDE STOP
Donald H. Montgomery, West Hartford, Conn., assignor to The New Britain Machine Company, New Britain, Conn., a corporation of Connecticut
Application May 13, 1939, Serial No. 273,463
7 Claims. (Cl. 29—37)



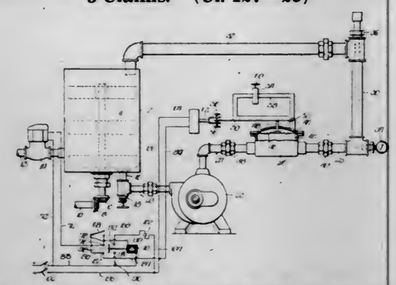
1. In a device of the character indicated, a generally cylindrical spindle carrier, and a forming slide stop member carried thereby, said spindle carrier having a longitudinally extending generally cylindrical recess therein intersecting the cylindrical surface of said carrier, said stop member being of generally cylindrical form and fitting within said recess, a portion of the outer generally cylindrical surface of said stop member being eccentrically formed and exposed at the cylindrical surface of said spindle carrier for engagement by another stop member.

2,325,572
KILN STRUCTURE
James T. Robson, Richmond Heights, Edward H. Watkins, Cleveland, and Edwin G. Zimmerman, Avon, Ohio, assignors to Ferro Enamel Corporation, Cleveland, Ohio, a corporation of Ohio
Application March 10, 1941, Serial No. 382,536
7 Claims. (Cl. 25—142)



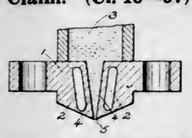
1. In a kiln structure, apparatus for withdrawing highly heated gas from a part of said kiln structure comprising, a duct disposed within a kiln wall, means for supplying air under pressure to said duct, a refractory nozzle member within said kiln wall and forming an outlet from said duct, a refractory Venturi member within said kiln wall and spaced from but having its inlet end adjacent to the outlet of said nozzle, said kiln wall having a chamber adjacent the space between the outlet from said nozzle and inlet to said venturi, and means for conducting gas from said part of said kiln to said chamber.

2,325,573
VISCOSITY RESPONSIVE APPARATUS
Thomas D. Thompson, Ridgefield Park, N. J., and George V. Caesar, Staten Island, N. Y., assignors to Stein, Hall & Company, Inc., New York, N. Y., a corporation of New York
Application November 26, 1938, Serial No. 242,640
5 Claims. (Cl. 127—28)



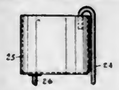
5. A viscosity controlled liquid phase starch conversion regulating apparatus comprising, in combination, a reaction chamber for holding a liquid phase starch conversion reaction mixture, circulating means for circulating a portion of the reaction mixture in a confined stream from one part of said reaction chamber to another out of contact with the main reaction mixture, said circulating means comprising a pump, a viscosity responsive device operatively associated with said circulating means and responsive to changes in the viscosity of the circulating reaction mixture, adjustable means associated with said viscosity responsive device to cause the same to be actuated only at a predetermined viscosity of said circulating reaction mixture, and means controlled by said viscosity responsive device to cause said starch conversion reaction to be controlled when said predetermined viscosity is attained.

2,325,574
MANUFACTURE OF SHEETS OR BANDS FROM HIGHLY VISCOUS CELLULOSE SOLUTIONS
Anton Wunderer, Wiesbaden-Biebrich, Germany; vested in the Alien Property Custodian
Application August 26, 1939, Serial No. 292,041
In Germany August 29, 1938
1 Claim. (Cl. 18—57)



A process for producing bands of regenerated cellulose with smooth surfaces which comprises leading to a spinning slot a highly viscous paste of cellulose dissolved in a solvent selected from the class consisting of sulphuric and phosphoric acids, said paste being at a temperature not exceeding 10° C., subjecting the mass adjacent the slot and only at the periphery of the mass to a temperature of from 30 to 300° C. to effect liquefaction of the mass only at the surface thereof and treating the mass passing through said slot with a precipitating bath.

2,325,575
VACUUM DEVICE
Hermann Scherbak, New York, N. Y.
Application October 3, 1939, Serial No. 297,659
4 Claims. (Cl. 99—272)

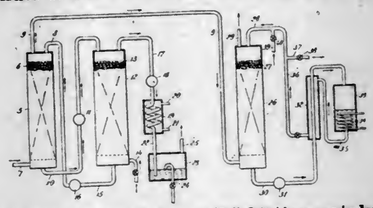


1. A vacuum sealing device, in combination, a tank adapted to hold a working liquid and provided with an opening, a cover for said opening, a liquid seal for said cover, an independent auxiliary tank, mounted above said first mentioned tank so as to leave free the space above the opening thereof, conduits connecting said tanks, a pump adapted to pump liquid from the first mentioned tank into said auxiliary tank through one of said conduits, means for draining liquid from said auxiliary tank into said first mentioned tank, means for draining liquid from said seal into said first mentioned tank and means for blocking both said drainings.

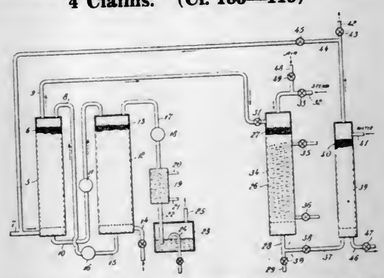
2,325,576
RECOVERY OF OLEFIN OXIDES
Frederick R. Balcar, Stamford, Conn., assignor, by mesne assignments, to U. S. Industrial Alcohol Co., New York, N. Y., a corporation of West Virginia
Application July 25, 1940, Serial No. 347,425
4 Claims. (Cl. 260—348)

1. The method of recovering olefin oxides from gaseous mixtures containing them which comprises passing the gaseous mixture into contact with a solvent for the olefin oxide to dissolve and thereby separate olefin oxide, the quantity of solvent and the time of contact between the solvent and the gaseous mixture being such that an appreciable amount of the olefin oxide in the gaseous mixture is not dissolved in the solvent,

subjecting the solvent to the action of steam to remove the olefin oxide therefrom, and passing the effluent gaseous mixture containing the remainder of the olefin oxide into contact with water, in the presence of an hydration catalyst, to convert the remainder of the olefin oxide into the corresponding glycol.

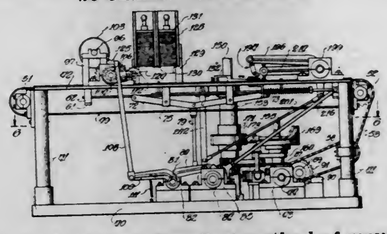


2,325,577
RECOVERY OF OLEFIN OXIDES
Frederick R. Balcar, Stamford, Conn., assignor, by mesne assignments, to U. S. Industrial Alcohol Co., New York, N. Y., a corporation of West Virginia
Application June 6, 1941, Serial No. 396,822
4 Claims. (Cl. 183—115)



1. The method of recovering olefin oxides from gaseous mixtures containing them which comprises separating olefin oxide, as such, from such a gaseous mixture by passing the gaseous mixture into contact with a solvent for the olefin oxide under conditions such that appreciable hydration of the olefin oxide does not take place and a portion of the olefin oxide in the gaseous mixture is dissolved in the solvent, the quantity of solvent and the time of contact between the solvent and the gaseous mixture being such that an amount of the olefin oxide in the gaseous mixture contacted with the solvent of the order of 20% to 30% is not dissolved in the solvent, subjecting the solvent to the action of steam to remove the olefin oxide therefrom, and passing the effluent gaseous mixture containing the remainder of the olefin oxide into contact with an active carbonaceous adsorbent for the olefin oxide.

2,325,578
METHOD OF AND APPARATUS FOR APPLYING SWATCHES
Philip C. P. Booty, Chicago, Ill., assignor to Leslie W. Fricke, Chicago, Ill.; Dot Luella Fricke executrix of said Leslie W. Fricke, deceased
Application January 25, 1941, Serial No. 375,902
26 Claims. (Cl. 216—55)



1. In the herein described method of mounting a swatch of porous material to a catalog sheet or the like, the steps of gripping the swatch by applying suction to one face thereof while a sheet of material impervious to the suction medium is positioned against the other face thereof, transporting the gripped swatch to the desired position on the mounting sheet, and then securing the swatch to the mounting sheet.

DESIGNS

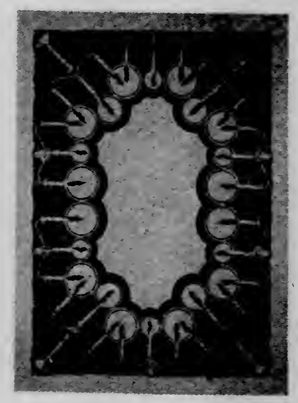
JULY 27, 1943

136,044
DESIGN FOR LEATHER OR SIMILAR ARTICLE OF MANUFACTURE
Fred H. Becker and Lester F. Peabody, Girard, Ohio, assignor to The Ohio Leather Company, Girard, Ohio, a corporation of Ohio
Application June 15, 1943, Serial No. 110,456
Term of patent 7 years



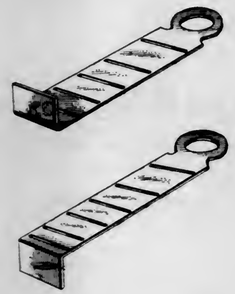
The ornamental design for leather or similar article of manufacture, as shown.

136,045
DESIGN FOR A TABLECLOTH OR SIMILAR ARTICLE
Charles I. Betesh, New York, N. Y.
Application April 28, 1943, Serial No. 110,070
Term of patent 3½ years



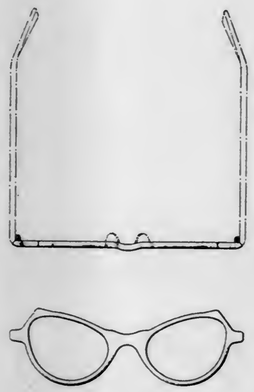
The ornamental design for a tablecloth or similar article, substantially as shown.

136,046
DESIGN FOR A BUTTER MEASURE
Katherine R. Downer, Villa Nova, Pa.
Application March 27, 1943, Serial No. 109,833
Term of patent 7 years



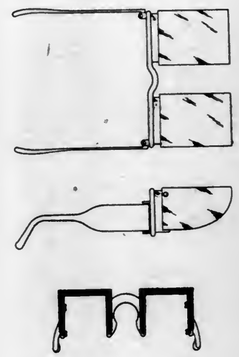
The ornamental design for a butter measure, as shown.

136,047
DESIGN FOR AN EYEGLASS FRAME
Louis Jacobson, Brooklyn, N. Y.
Application November 16, 1942, Serial No. 108,791
Term of patent 14 years



The ornamental design for an eyeglass frame, substantially as shown and described.

136,048
DESIGN FOR A COMBINED SUN VISOR AND SHIELD
Ivan P. Schmid, Columbus, Nebr.
Application January 11, 1943, Serial No. 109,232
Term of patent 14 years



The ornamental design for a combined sun visor and shield, substantially as shown.

136,049
DESIGN FOR A GLASS LINER FOR A COMPORT OR ARTICLE OF SIMILAR NATURE
Clyde S. Whipple, Los Angeles, Calif., assignor to A. H. Heisey & Company, Newark, Ohio, a corporation of Ohio
Application January 9, 1943, Serial No. 109,223
Term of patent 7 years



The ornamental design for a glass liner for a comport or article of similar nature, substantially as shown.

136,050
DESIGN FOR A GIRDLE OR THE LIKE
Herman Kress, New York, N. Y.
Application May 29, 1943, Serial No. 110,327
Term of patent 3½ years



The ornamental design for a girdle or the like, as shown and described.

136,051
DESIGN FOR A MAGAZINE RACK
Alfred V. Matifes, San Diego, Calif.
Application February 16, 1943, Serial No. 109,557
Term of patent 7 years



The ornamental design for a magazine rack, as shown and described.

136,052
DESIGN FOR A TABLECLOTH OR SIMILAR ARTICLE
Morris Setton, Brooklyn, N. Y.
Application April 28, 1943, Serial No. 110,066
Term of patent 3½ years



The ornamental design for a tablecloth or similar article, substantially as shown.

136,053
DESIGN FOR A NIGHTGOWN
Charles Zinaman, New York, N. Y.
Application June 16, 1943, Serial No. 110,466
Term of patent 3½ years



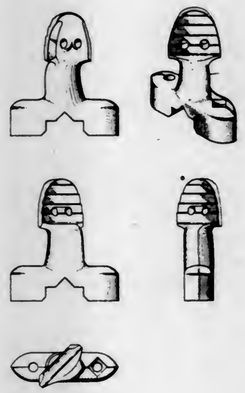
The ornamental design for a nightgown, substantially as shown.

136,054
DESIGN FOR A COMBINATION PICTURE FRAME AND FLOWER CONTAINER
Richard Gottlieb Block, Los Angeles, Calif.
Application August 18, 1942, Serial No. 107,955
Term of patent 3½ years



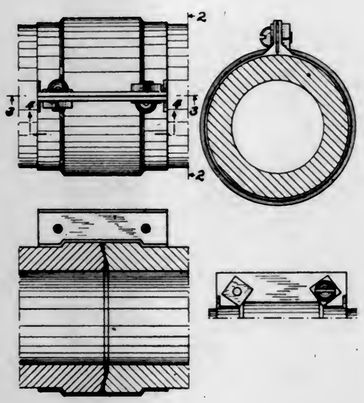
The ornamental design for a combination picture frame and flower container, as shown.

136,055
DESIGN FOR AN AGGREGATE MIXER ARM
Walter M. Madsen, Alhambra, Calif., assignor to Madsen Iron Works, Huntington Park, Calif., a corporation of California
Application March 11, 1943, Serial No. 109,734
Term of patent 14 years



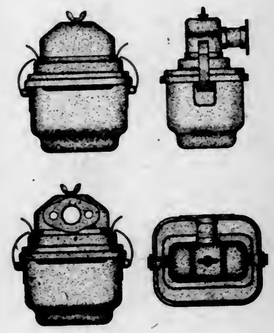
The ornamental design for an aggregate mixer arm, as shown.

136,056
DESIGN FOR A COUPLING OR SIMILAR ARTICLE
Ivan Ročić, New York, N. Y.
Application December 5, 1942, Serial No. 108,949
Term of patent 14 years



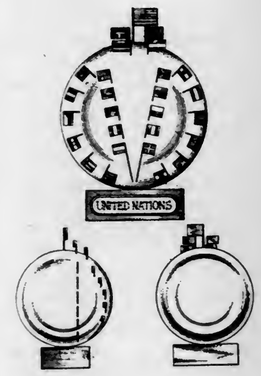
The ornamental design for a coupling or similar article, as shown and described.

136,057
DESIGN FOR AN AIR CLEANER OR SIMILAR ARTICLE
Joseph B. Sebok, Detroit, Mich., assignor to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application May 6, 1943, Serial No. 110,139
Term of patent 3½ years



The ornamental design for an air cleaner or similar article, as shown.

136,058
DESIGN FOR A BRIC-A-BRAC OR THE LIKE
Alexander Vero, Bronx, N. Y.
Application February 12, 1942, Serial No. 105,779
Term of patent 3½ years



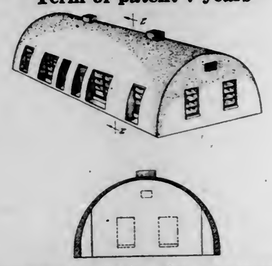
The ornamental design for a bric-a-brac or the like, as shown and described.

136,059
DESIGN FOR AN APPLIQUÉ EMBLEM OR SIMILAR ARTICLE
Walter P. Burn and Helen L. Jurkops, Washington, D. C., assignors to the United States of America, as represented by the United States Director of Civilian Defense, Office of Civilian Defense
Application April 25, 1942, Serial No. 106,695
Term of patent 7 years



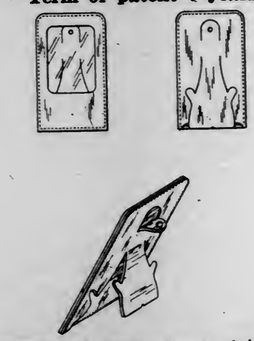
The ornamental design for an appliqué emblem or similar article, as shown and described.

136,060
DESIGN FOR A CONCRETE DWELLING HOUSE
Thomas J. Crowe, Chicago, Ill.
Application May 28, 1943, Serial No. 110,317
Term of patent 7 years



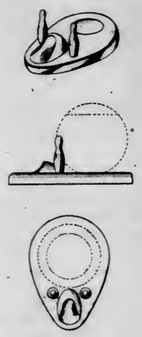
The ornamental design for a concrete dwelling house, substantially as shown.

136,061
DESIGN FOR A PICTURE FRAME
Abraham C. Fuchs, New York, N. Y.
Application May 26, 1943, Serial No. 110,288
Term of patent 7 years



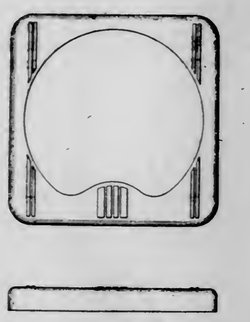
The ornamental design for a picture frame, as shown.

136,062
DESIGN FOR A COMBINED CONTAINER AND BASE THEREFOR
Meyer Sosman, Brooklyn, N. Y., assignor to Glasorb Company, New York, N. Y.
Application November 24, 1942, Serial No. 108,864
Term of patent 7 years



The ornamental design for a combined container and base therefor, as shown and described.

136,063
DESIGN FOR A COVER FOR AN INSTRUMENT CASING
Douglass A. Young, East Orange, and Verne S. Thomander, Maplewood, N. J., assignors to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania
Application December 12, 1942, Serial No. 109,024
Term of patent 14 years



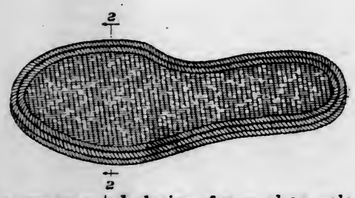
The ornamental design for a cover for an instrument casing, substantially as shown.

136,064
DESIGN FOR A COMBINED HOLDER AND RECEPTACLE THEREFOR, OR THE LIKE
Charles L. Fordyce, New York, N. Y., assignor to M. Halprin, Inc., Brooklyn, N. Y., a corporation of New York
Application April 17, 1943, Serial No. 109,989
Term of patent 7 years



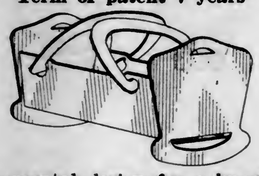
The ornamental design for a combined holder and receptacle therefor, or the like, as shown and described.

136,065
DESIGN FOR A SHOE SOLE
Robert Herron, Revere, Mass.
Application May 12, 1943, Serial No. 110,186
Term of patent 14 years



The ornamental design for a shoe sole, substantially as shown.

136,066
DESIGN FOR A KNOCKDOWN TOY CRADLE
James K. Makrianes, Longmeadow, Mass., assignor to National Paper Box Co. Inc., West Springfield, Mass., a corporation of Massachusetts
Application March 15, 1943, Serial No. 109,756
Term of patent 7 years



The ornamental design for a knockdown toy cradle, as shown.

136,067
DESIGN FOR A TABLE SCARF OR SIMILAR ARTICLE
Stanley J. Oppenheim, New York, N. Y.
Application July 3, 1943, Serial No. 110,596
Term of patent 3½ years



The ornamental design for a table scarf or similar article as shown.

136,068
DESIGN FOR A DRESS
Bonnie Cashin, New York, N. Y.
Application July 5, 1943, Serial No. 110,611
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

136,069
DESIGN FOR A DRESS
Bonnie Cashin, New York, N. Y.
Application July 5, 1943, Serial No. 110,612
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

136,070
DESIGN FOR A DRESS
Bonnie Cashin, New York, N. Y.
Application July 5, 1943, Serial No. 110,613
Term of patent 3½ years



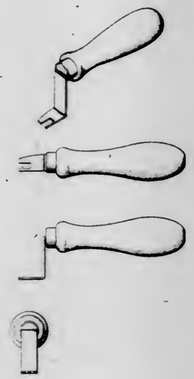
The ornamental design for a dress, substantially as shown.

136,071
DESIGN FOR A DRESS
Bonnie Cashin, New York, N. Y.
Application July 5, 1943, Serial No. 110,615
Term of patent 3½ years



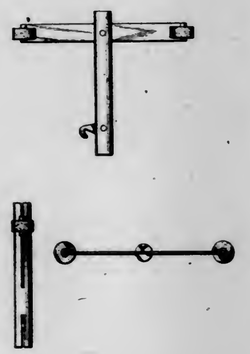
The ornamental design for a dress, substantially as shown.

136,072
DESIGN FOR A TOOL FOR APPLYING INDEX CLIPS
John Flynn, Skokie, Ill., assignor to Remington Rand Inc., Buffalo, N. Y., a corporation of Delaware
Application April 30, 1942, Serial No. 106,759
Term of patent 14 years



The ornamental design for a tool for applying index clips, as shown.

136,073
DESIGN FOR A COMBINED ENVELOPE MOISTENER AND SEALER
Douglas H. Freese, Portage des Sioux, Mo.
Application April 30, 1943, Serial No. 110,091
Term of patent 7 years



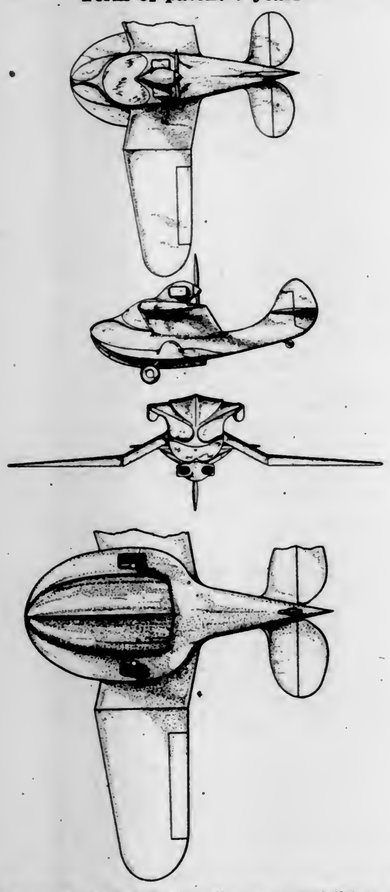
The ornamental design for a combined envelope moistener and sealer, as shown.

136,074
DESIGN FOR A FOUNTAIN PEN SECTION
Bert M. Morris, Los Angeles, Calif.
Application March 13, 1943, Serial No. 109,748
Term of patent 14 years



The ornamental design for a fountain pen section, as shown.

136,075
DESIGN FOR AN AMPHIBIAN AIRPLANE
Adam J. Stolzenberger, Jr., Glendale, Long Island, N. Y.
Application December 29, 1942, Serial No. 109,159
Term of patent 7 years



The ornamental design for an amphibian airplane, substantially as shown.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Ada Milling Company, Ada, Okla. Poultry and livestock feeds. Serial No. 460,281; July 27. Class 46.
Ad-Lag Company, La Crosse, Wis. Chemically treated fabric. Serial No. 460,592; July 27. Class 4.
Alloy Castings Company, Inc., Worcester, Mass. Castings and metals made of iron and copper alloy, etc. Serial No. 461,106; July 27. Class 14.
American Association of Industrial Editors, Inc., The, Ottumwa, Iowa. Service bulletins. Serial No. 458,141; July 27. Class 38.
American Chain & Cable Company, Inc., Bridgeport, Conn. Pressure reducing and regulating fluid control valves. Serial No. 459,699; July 27. Class 13.
American Chemical Paint Company, Ambler, Pa. Chemical composition for the treatment of metal surfaces. Serial No. 460,782; July 27. Class 6.
American Maize-Products Company, New York, N. Y. Corn starch. Serial No. 461,107; July 27. Class 46.
American Maize-Products Company, New York, N. Y. Protein-containing solution. Serial No. 461,215; July 27. Class 5.
American Viscose Corporation, Wilmington, Del. Yarns, threads, and yarn and thread filaments. Serial No. 459,390; July 27. Class 43.
Ams, Max, Inc., New York, N. Y. Prune jams and prune butter. Serial No. 460,977; July 27. Class 46.
Ams, Max, Incorporated, New York, N. Y. Spaghetti and egg noodles. Serial No. 461,075; July 27. Class 46.
Bates Mfg. Co. (See Bates, Robert.)
Bates, Robert, doing business as Bates Mfg. Co., Athens, Tenn. Liniment. Serial No. 460,752; July 27. Class 6.
Baxter, Woodhouse & Taylor Limited, Stockport, England. Piece goods. Serial No. 455,421; July 27. Class 42.
Ben-Gee Sales Company. (See Guzofsky, Benjamin.)
Boeing Aircraft Company, Seattle, Wash. Airplanes and structural parts thereof. Serial No. 460,517; July 27. Class 19.
Borden Company, The, New York, N. Y. Poultry feed supplement. Serial No. 460,518; July 27. Class 46.
Brody, Benjamin R., New York, N. Y. Pendants, lockets, brooches, etc. Serial No. 442,623; July 27. Class 28.
Brooks, Emily, doing business under the name of "Em-Tex Distributors," Mobile, Ala. Hair gloss and hair preparation. Serial No. 454,863; July 27. Class 6.
Budd, George H., Los Angeles, Calif. Treatment tents and parts thereof. Serial No. 450,221; July 27. Class 44.
Cattrano, James, Flushing, Long Island, N. Y. Billiard tables, billiard balls, billiard cues, etc. Serial No. 459,802; July 27. Class 22.
Chateau Wines Corporation, Royal Oak, Mich. Wines. Serial No. 460,921; July 27. Class 47.
Cluett, Peabody & Co., Inc., Troy, N. Y. Collars. Serial No. 460,830; July 27. Class 39.
Cofax Corporation, The, Long Island City, N. Y. Adhesive tape. Serial No. 460,922; July 27. Class 5.
College Inn Food Products Company, Chicago, Ill. Noodle soup mix. Serial No. 459,984; July 27. Class 46.
Columbia River Salmon Co. Inc., Astoria, Oreg. Canned salmon. Serial No. 460,363; July 27. Class 46.
Comet Model Airplane & Supply Company, Inc., Chicago, Ill. Toy model airplane kits. Serial No. 459,985; July 27. Class 22.
Cook Chocolate Company, Chicago, Ill. Chocolate heating kettles. Serial No. 460,984; July 27. Class 13.
Delapenha, R. U., & Co. Inc., New York, N. Y. Brandy. Serial No. 460,667; July 27. Class 49.
Distilled Liquors Import Co. Inc., New York, N. Y. Distilled dry gin. Serial No. 460,469; July 27. Class 49.
Duplan Corporation, The, New York, N. Y. Yarns. Serial No. 458,608; July 27. Class 43.
Electronic Laboratories, Incorporated, Indianapolis, Ind. Electrical power supply units. Serial No. 459,804; July 27. Class 21.
"Em-Tex Distributors." (See Brooks, Emily.)
Finkl, A., & Sons, Company, Chicago, Ill. Finished die blocks, rams for forging machines and sow blocks. Serial No. 459,974; July 27. Class 23.
Fisba Fabrics, Inc., New York, N. Y. Handkerchiefs for men and women. Serial No. 460,794; July 27. Class 39.
Fletcher, William G., doing business as Speed Checker Company, Bogota, N. J. Checker game. Serial No. 460,955; July 27. Class 22.
General Dyestuff Corporation, New York, N. Y. Dyestuff. Serial Nos. 459,863–6; July 27. Class 6.
General Dyestuff Corporation, New York, N. Y. Dyestuffs. Serial Nos. 460,022–5; July 27. Class 6.
General Dyestuff Corporation, New York, N. Y. Dyestuffs. Serial No. 460,109; July 27. Class 6.
General Dyestuff Corporation, New York, N. Y. Dyestuffs. Serial No. 460,149; July 27. Class 6.
General Motors Corporation, Detroit, Mich. Machine elements. Serial No. 460,837; July 27. Class 23.
Getzum Products. (See Rea, Newville F.)
Goldfarb, Samuel J., New York, N. Y. Ladies' and misses' dresses and aprons. Serial No. 454,305; July 27. Class 29.
Goodyear Tire & Rubber Company, The, Akron, Ohio. Sponge material made of polyvinyl chloride. Serial No. 459,339; July 27. Class 1.
Goodyear Tire & Rubber Company, The, Akron, Ohio. Thermo-setting material. Serial No. 459,599; July 27. Class 1.
Guzofsky, Benjamin, doing business as Ben-Gee Sales Company, New York, N. Y. Hair brushes. Serial No. 452,379; July 27. Class 29.
Hart Drug Corporation, Miami, Fla. Bacteriostatic, analgesic and dehydrating preparation used in treating ear infections. Serial No. 461,079; July 27. Class 6.
Hat Corporation of America, Norwalk, Conn. Hats for men. Serial No. 460,871; July 27. Class 39.
Inter-Coastal Advertising Company, Inc., Trumansburg, N. Y. Publications. Serial No. 460,569; July 27. Class 38.
Jones Medical Laboratories, Inc., Cleveland, Ohio. Liquid preparation for application to parts of the body, especially the hands. Serial No. 460,873; July 27. Class 6.
Kenneth, Malcolm, Company, Boston, Mass. Men's and women's topcoats and sport jackets. Serial No. 453,013; July 27. Class 39.
Lankenau Company, New York, N. Y. Silk, rayon, woolen, etc., piece goods. Serial No. 460,572; July 27. Class 42.
MacMillan Petroleum Corporation, Los Angeles, Calif. Flexible plastic oilproof material. Serial No. 460,620; July 27. Class 5.
Magnaflux Corporation, Chicago, Ill. Hand cream. Serial No. 460,875; July 27. Class 6.
Mardell-Allen Kandell, Inc., New York, N. Y. Pillows. Serial No. 460,963; July 27. Class 32.
Material Coordinating Agency, Inc., New York, N. Y. Printed blank forms for record use. Serial No. 459,843; July 27. Class 37.
McDonald, Wm. P., Corporation, Flushing, N. Y. Canned citrus fruit juices. Serial No. 459,268; July 27. Class 46.
Monsanto Chemical Company, St. Louis, Mo. Thermo-setting synthetic resin adhesives, etc. Serial No. 460,932; July 27. Class 5.
Monsanto Chemical Company, St. Louis, Mo. Synthetic resin compositions. Serial No. 460,933; July 27. Class 1.
Nancy Ann Dressed Dolls, San Francisco, Calif. Dolls and dolls' clothes. Serial No. 461,204; July 27. Class 22.
Nitroloid Company. (See Trickey, Fred L.)
Paramount Steel Rule Dies Inc., New York, N. Y. Spelling boards. Serial No. 458,789; July 27. Class 22.
Passion Fruit Plantations Inc., Los Angeles, Calif. Fruit juices and flavoring for non-alcoholic drinks. Serial No. 460,904; July 27. Class 45.
Pure Oil Company, The, Chicago, Ill. Gasoline and other motor fuel oils. Serial No. 460,241; July 27. Class 15.
Rea, Newville F., doing business as Getzum Products, Sumner, Wash. Vegetable sprays. Serial No. 460,880; July 27. Class 6.
Refined Products Corporation, Lynhurst, N. J. Insecticide and fungicide. Serial No. 460,907; July 27. Class 6.
Resistoflex Corporation, Belleville, N. J. Hose fittings and pipe couplings. Serial No. 460,807; July 27. Class 13.
Rockland Dental Co., Inc., New York and Sparkhill, N. Y. Substitute for dental tin foil. Serial No. 460,938; July 27. Class 44.
Rocky Mountain Steel Products, Inc., Los Angeles, Calif. Power trucks and trailers. Serial No. 461,056; July 27. Class 19.
Rosenau Bros., Inc., assignor to Rosenau Brothers, Philadelphia, Pa. Children's and young girls' dresses. Serial No. 441,290; July 27. Class 39.
Rosenfeld, Max, Brooklyn, N. Y. Men's suits and overcoats. Serial No. 460,747; July 27. Class 39.
Rubber-Weld Products Corp., Cambridge, Mass. Tire repair patches, rubber repair kits, rubber sheeting, etc. Serial No. 460,808; July 27. Class 35.
Sanna Dairy Engineers, Madison, Wis. Dried skim milk. Serial No. 461,210; July 27. Class 46.
Schmid, Julius, Inc., New York, N. Y. Pessaries and pessary introducers. Serial No. 458,618; July 27. Class 44.

Schuman Co., The, Chicago, Ill., and Lodi, Calif. Fresh vegetables and grapes. Serial No. 461,081; July 27. Class 46.
Shoe Form Co., Inc., Auburn, N. Y. Bait boxes. Serial No. 460,970; July 27. Class 22.
Smith, Isidore, New York, N. Y. Women's, misses' and junior misses' coats and suits. Serial No. 461,064; July 27. Class 39.
Southern Mills, Incorporated, Atlanta, Ga. Cotton fabric, cotton knitted padding, press covers, etc. Serial No. 458,343; July 27. Class 24.
Speed Checker Company. (See Fletcher, William G.)
Sulloway Hosiery Mills, Franklin, N. H. Hosiery. Serial No. 460,814; July 27. Class 39.
Tablerock Laboratories, Inc., Greenville, S. C. Tablet for the treatment of vitamin deficiencies. Serial Nos. 460,849–50; July 27. Class 6.
Tablerock Laboratories, Inc., Greenville, S. C. Bulk producing mechanical laxative. Serial No. 460,852; July 27. Class 6.
Texas Company, The, New York, N. Y. Cutting oil. Serial No. 461,122; July 27. Class 15.
Traver Corporation, Chicago, Ill. Merchandise envelopes. Serial No. 451,945; July 27. Class 2.
Trickey, Fred L., doing business as Nitroloid Company, Berlin, Wis. Cleaner for removing grease, oil, tar, etc. Serial No. 460,357; July 27. Class 4.
Tudor Metal Products Corporation, New York, N. Y. Educational and amusement games. Serial No. 460,224; July 27. Class 22.
Tyrrell's Hygienic Institute, Inc., New York, N. Y. Douche syringes, hot water bags and hot water bottles. Serial No. 457,290; July 27. Class 44.
United Specialties Company, The, Chicago, Ill. Air cleaners and dust separators. Serial No. 460,485; July 27. Class 23.
United States Rubber Company, New York, N. Y. Flexible hot air duct. Serial No. 460,410; July 27. Class 35.
Upjohn Company, The, Kalamazoo, Mich. Medicinal preparation for the treatment of vitamin deficiencies. Serial No. 460,818; July 27. Class 6.
Wallerstein Company, Inc., New York, N. Y. Spot remover. Serial No. 460,040; July 27. Class 4.
Warren Featherbone Co., The, Three Oaks, Mich. Garment bags. Serial No. 460,177; July 27. Class 2.
Whitlock Cordage Co., Jersey City, N. J., and New York, N. Y. Rope and cables. Serial No. 460,641; July 27. Class 7.
Williams, J. B., Company, The, Glastonbury, Conn. Toilet soap. Serial No. 460,915; July 27. Class 4.
Yukon Coat Corp, New York, N. Y. Fur coats made of muskrat. Serial No. 454,319; July 27. Class 39.

LIST OF REGISTRANTS OF TRADE-MARKS

Addis, Charles M., doing business as Refiners Lubricating Company, New York, N. Y. Cleaning material. 402,491; July 27; Serial No. 457,456; published May 18, 1943. Class 4.
Amalgamated Dental Company Limited, The, London, England. Synthetic resin plastics. 402,492; July 27; Serial No. 457,489; published May 18, 1943. Class 44.
American Brass Company, The. (See Du Pont Engineering Company, assignor.)
American Crayon Company, The, Sandusky, Ohio. Crayons and pencils. 171,221; renewed July 31, 1943.
American Lingerie Co. (See Pollock, Simon.)
Ames, W. V-B., Company, assignor to The W. V-B. Ames Company, Fremont, Ohio. Dental cements. 169,863; renewed July 3, 1943.
Anma Card Company. (See Butler, Earl P.)
Aspinall, Robert, doing business as Robert Aspinall Company and West American Sales Co., San Francisco, Calif. Jellies, fruit preserves, canned fruits and canned vegetables. 402,519; July 27; Serial No. 458,995; published May 18, 1943. Class 46.
Associated Lerner Shops of America, Inc., New York, N. Y. Women's and girls' dresses. 402,548; July 27. Class 39.
Automatic Products Company, Milwaukee, Wis. Strainers. 402,467; July 27; Serial No. 443,870; published May 18, 1943. Class 13.
Bank of America National Trust and Savings Association, San Francisco, Calif. Printed forms. 402,500; July 27; Serial No. 458,384; published May 18, 1943. Class 37.
Barbera, Edward, Lodi, Calif. Fresh grapes. 402,511; July 27; Serial No. 458,719; published May 18, 1943. Class 46.
Barkin, Levin & Co., Inc., New York, N. Y. Ladies' and misses' coats. 402,524; July 27; Serial No. 459,067; published May 18, 1943. Class 39.
Baruch, Haas, & Co., Los Angeles, Calif. Tapioca. 170,491; renewed July 17, 1943.
Battle Creek Food Company, The, Battle Creek, Mich. Nut butter. 175,371; renewed Nov. 6, 1943.
Battle Creek Food Company, The, Battle Creek, Mich. Foods, paraffin tablets, and laxatives, etc. 176,228; renewed Nov. 20, 1943.
Battle Creek Food Company, The, Battle Creek, Mich. Vegetable food consisting of wheat protein combined with nuts. 176,453; renewed Nov. 27, 1943.
Battle Creek Food Company, The, Battle Creek, Mich. Cereal breakfast food. 176,461; renewed Nov. 27, 1943.
Battle Creek Food Company, The, Battle Creek, Mich. Cereal biscuit. 176,751; renewed Nov. 27, 1943.
Bayuk Cigars Incorporated. (See Law, Edwin F.)
Beach Soap Company, Lawrence, Mass. Soap. 402,473–4; July 27; Serial Nos. 451,220–1; published May 18, 1943. Class 4.
Bendix Aviation, Ltd., North Hollywood, Calif. Radio transmitters. 402,490; July 27; Serial No. 457,294; published May 18, 1943. Class 21.
Best Foods, Inc., assignor, by mesne assignments, to Best Foods, Inc., New York, N. Y. Vegetable shortening. 176,420; renewed Nov. 27, 1943.
Birdsboro Steel Foundry and Machine Company, Birdsboro, Pa. Railway car castings. 402,469; July 27; Serial No. 445,006; published Nov. 17, 1942. Class 14.
Botany Worsted Mills, Passaic, N. J. Publication. 402,484; July 27; Serial No. 456,333; published May 11, 1943. Class 38.
Butler, Earl P., doing business under the name of Anma Card Company, Tulsa, Okla. Playing cards. 402,478; July 27; Serial No. 454,684; published May 18, 1943. Class 22.
California Fruit Growers Exchange, Los Angeles, Calif. Citrous fruits. 176,732; renewed Nov. 27, 1943.
Carbsil Pigment Company, Franklin, Tenn. Carbonsilicates used as a pigment for paints. 402,477; July 27; Serial No. 454,028; published May 4, 1943. Class 16.
Carson Pirie Scott & Company, Chicago, Ill. Girls coats. 402,482; July 27; Serial No. 455,996; published May 11, 1943. Class 39.
Carson Pirie Scott & Company, Chicago, Ill. Women's blouses. 402,483; July 27; Serial No. 455,997; published May 11, 1943. Class 39.
Centennial Flouring Mills Co. (See Sprague Roller Mills.)
Charles & Co., Inc., New York, N. Y. Smoking tobacco. 402,480; July 27; Serial No. 455,226; published May 18, 1943. Class 17.
Chelsea Fan & Blower Co., Inc., Irvington, N. J. Exhaust fans and blowers. 402,485; July 27; Serial No. 456,651; published May 18, 1942. Class 34.
Ciro Merola & Company, Bayonne, N. J. Coats for men and boys. 402,481; July 27; Serial No. 455,514; published May 11, 1943. Class 39.
Cleveland Shopping News Company, The, Cleveland, Ohio. Newspaper. 176,693; renewed Nov. 27, 1943.
Clover Farms Stores Corporation. (See Higgins-Babcock-Hurd Company, assignor.)
Cohn & Rosenberger, Inc., New York, N. Y. Necklaces and bracelets, not including watches, etc. 402,504; July 27; Serial No. 458,455; published May 18, 1943. Class 28.
Collins, Harry, Inc., to Harry Collins, New York, N. Y., successor. Ladies' dresses, suits, wraps, etc. 161,101; renewed Nov. 7, 1942.
Colton Wineries. (See Golan Wines, Inc., assignor.)
Commander Battery Manufacturing Co., Chicago, Ill. Storage batteries. 402,472; July 27; Serial No. 451,186; published May 18, 1943. Class 21.
Conrad, H. W., Bakery, The. (See Conrad, H. W.)
Conrad, H. W., to E. Litoborski, doing business as The H. W. Conrad Bakery, Momence, Ill., successor. Bread, rolls, and buns. 167,383; renewed May 1, 1943.
Dale Manufacturing Company, Florence, Mass. Absorbent catamenial tampons. 402,544; July 27. Class 44.
Davidson Manufacturing Corporation, Chicago, Ill. Developing ink that is applied to an exposed photographic plate to make the image visible. 402,465; July 27; Serial No. 440,452; published May 11, 1943. Class 11.
Dell Publishing Company, Inc., New York, N. Y. Magazine. 402,531; July 27; Serial No. 459,283; published May 18, 1943. Class 38.
Dell Publishing Company, Inc., New York, N. Y. Magazine. 402,533; July 27; Serial No. 459,536; published May 18, 1943. Class 38.
Dell Publishing Company, Inc., New York, N. Y. Magazines. 402,540; July 27. Class 38.
Diamond Match Company, The, Chicago, Ill., assignor, by mesne assignments, to The Diamond Match Company, New York, N. Y. Matches. 170,565–6; renewed July 17, 1943.
Diamond Match Company, The, Chicago, Ill., assignor, by mesne assignments, to The Diamond Match Company, New York, N. Y. Matches. 170,617–20; renewed July 17, 1943.

Dickinson, Albert, Company, The, Chicago, Ill. Shelled popcorn. 402,510; July 27; Serial No. 458,683; published May 18, 1943. Class 46.
Dillinger Distilleries, Inc., Ruffsdale and Philadelphia, Pa. Whiskey. 402,528; July 27; Serial No. 459,169; published May 11, 1943. Class 49.
Dixie-Portland Flour Mills. (See Warner, Moore & Co.)
Dunlop Mills. (See Warner, Moore & Co.)
Du Pont, E. I., de Nemours and Company. (See Krebs Pigment & Chemical Company, assignor.)
Du Pont Engineering Company, Wilmington, Del., assignor, by mesne assignments, to The American Brass Company, Watertown, Conn. Metallic alloys. 176,593; renewed Nov. 27, 1943.
Durkee Marine Products Corporation, New York, and Grasmere, Staten Island, N. Y. Ship anchors. 402,529; July 27; Serial No. 459,259; published May 18, 1943. Class 14.
Emeis, Harry P., doing business as Stero-Oil Company, to Sterile Products Co. Inc., San Diego, Calif., successor. Lubricating and sterilizing medium for dental instruments. 175,508; renewed Nov. 6, 1943.
Esterbrook Steel Pen Manufacturing Company, The, Camden, N. J. Writing pens of all kinds, fountain pens, and parts thereof. 402,521; July 27; Serial No. 459,044; published May 18, 1943. Class 37.
Fair, The, Chicago, Ill. Women's knitted and textile undergarments. 169,292; renewed June 12, 1943.
Fair, The, Chicago, Ill. Men's and boys' suits and overcoats. 171,202; renewed July 31, 1943.
Firecraft Door Company, Chicago, Ill. Publication. 402,532; July 27; Serial No. 459,465; published May 18, 1943. Class 38.
Firth-Sterling Steel Company. (See Globe Wire Co., assignor.)
Frank & Meyer Neckwear Co., St. Louis, Mo. Neckties, cravats, and scrafs. 176,494; renewed Nov. 27, 1943.
Frank-Cerf, Inc., New York, N. Y. Women's, misses' and girls' coats, suits, dresses, etc. 402,520; July 27; Serial No. 459,022; published May 18, 1943. Class 39.
Galbraith, C. C., & Son, Inc., New York, N. Y. Electric heaters and electric water lights. 402,486; July 27; Serial No. 456,794; published May 18, 1943. Class 21.
Garis, Howard R., East Orange, N. J. Printed and illustrated books. 402,497; July 27; Serial No. 458,355; published May 11, 1943. Class 38.
Globe Wire Co., Sharpsburg, assignor to Firth-Sterling Steel Company, McKeesport, Pa. Steel rods for making of taps and small tools. 173,215; renewed Sept. 18, 1943.
Golan Wines, Inc., doing business as Golan Wines, Los Angeles and St. Helena, assignor to Colton Wineries, Los Angeles, Calif. Wines. 402,538; July 27. Class 47.
Goodman, A., & Sons, Inc., New York, N. Y. Alimentary paste products. 176,682; renewed Nov. 27, 1943.
Goodrich, B. F., Company, The, New York, N. Y. Pneumatic-tire casings made of rubber combined with fabric. 169,849; renewed July 3, 1943.
Grande Maison de Blanc, Inc., assignor to The New York Grande Maison de Blanc Corporation, New York, N. Y. Handkerchiefs, lace trimmings, ribbons, etc. 174,937; renewed Oct. 30, 1943.
Grande Maison de Blanc, Inc., assignor to The New York Grande Maison de Blanc Corporation, New York, N. Y. Clothing. 175,522; renewed Nov. 6, 1943.
Green, Monroe D., San Francisco, Calif. Patna type rice. 402,475; July 27; Serial No. 451,712; published May 18, 1943. Class 46.
Gross, L. N., Company, The, Cleveland, Ohio. Women's bloomers. 169,769; renewed July 3, 1943.
Hamilton Manufacturing Company, Two Rivers, Wis. Physicians' and surgeons' tables, stools, stands, etc. 402,537; July 27. Class 44.
Heller, B., & Company, Chicago, Ill. Metal polish. 173,815; renewed Oct. 2, 1943.
Heller, B., & Company, Chicago, Ill. Combined coloring and flavoring for use in food products and confectionery and ice cream. 174,008; renewed Oct. 2, 1943.
Heller, B., & Company, Chicago, Ill. Insecticide. 174,010; renewed Oct. 2, 1943.
Heller, B., & Company, Chicago, Ill. Chemical preparation for use in preserving fresh sausage. 175,421; renewed Nov. 6, 1943.
Heller, B., & Company, Chicago, Ill. Chemical preparation for use in preserving smoked sausage. 175,420; renewed Nov. 6, 1943.
Heller, B., & Company, Chicago, Ill. Garlic flavoring compound. 174,715; renewed Oct. 23, 1943.
Hewitt Soap Company, Inc., The, Dayton, Ohio. Soap. 402,546; July 27. Class 4.
Higgins-Babcock-Hurd Company, assignor to Clover Farm Stores Corporation, Cleveland, Ohio. Foods and ingredients of foods. 170,847; renewed July 24, 1943.
Hutmacher Braiding Co., Paterson, N. J. Shoe and corset laces. 170,585; renewed July 17, 1943.
International Milling Company, assignor to International Milling Company, Minneapolis, Minn. Wheat flour. 176,578; renewed Nov. 27, 1943.
International Plastic Corporation, Morristown, N. J. Tape dispensers. 402,534; July 27; Serial No. 459,568; published May 18, 1943. Class 2.
Jeffries, W. P., Company, to Jeffries Banknote Company, Los Angeles, Calif., successor. Bond paper. 165,738; renewed Mar. 20, 1943.
Jeffries Banknote Company. (See Jeffries, W. P., Company.)
Jergens, Andrew, Company, The, Cincinnati, Ohio. Soap. 176,193; renewed Nov. 20, 1943.
Joseph Bros., doing business as United Kimono Co., New York, N. Y. Kimonos, bath robes, aprons, etc. 174,016; renewed Oct. 2, 1943.
Kenlit Mfg. Co., Medford, Mass. Textile fabric sheeting coated with compositions. 169,271; renewed June 12, 1943.
Krebs Pigment & Chemical Company, The, Newport, assignor, by mesne assignments, to E. I. du Pont de Nemours and Company, Wilmington, Del. Paint pigments. 169,622; renewed June 26, 1943.
Lacteal Analytical Laboratories, Inc., to Nathan E. Lazarus, assignor to Lacteal Analytical Laboratories, Buffalo, N. Y. Milk culture. 169,196; renewed June 12, 1943.
Law, Edwin F., Lancaster, to Bayuk Cigars Incorporated, Philadelphia, Pa. Cigars. 23,874; re-renewed Nov. 28, 1943.
Lazarus, Nathan E. (See Lacteal Analytical Laboratories, Inc.)
Leggett, Francis H., & Company, New York, N. Y. Canned soy bean succotash. 402,509; July 27; Serial No. 458,658; published May 18 1943. Class 46.
Lilly, Eli, & Company, The, Indianapolis, Ind., by change of name to Eli Lilly and Company. Medicinal preparation for diabetes and to lower blood sugar and to diminish acidosis. 171,971; renewed Aug. 21, 1943.
Litoborski, E. (See Conrad, Henry W.)
Lockport Cotton Batting Co., Lockport, N. Y. Cotton batting or cotton batts. 402,471; July 27; Serial No. 448,157; published May 18, 1943. Class 1.
Lowe, E. S. Company, Inc., New York, N. Y. Game apparatus. 402,488; July 27; Serial No. 456,875; published May 18, 1943. Class 22.
Lueders, George, assignor to George Lueders & Co., New York, N. Y. Oil of roses. 23,883; re-renewed Nov. 28, 1943.
Magnus Chemical Company (Inc.), Brooklyn, N. Y., to Magnus Chemical Company, Inc., Garwood, N. J. Soaps and soap mixtures. 175,886; renewed Nov. 13, 1943.
Manny-Rielly Co. to Mann-Rielly Company, Inc., New York, N. Y., successor. Knitted and textile underwear. 175,767; renewed Nov. 13, 1943.
Mayer, Oscar, & Co., Chicago, Ill. Meat products. 402,476; July 27; Serial No. 453,896; published May 18, 1943. Class 46.
McDonald, Wm. P., Corporation, Lakeland, Fla. Fresh citrus fruits. 402,518; July 27; Serial No. 458,943; published May 18, 1943. Class 46.
Mercury Battery Charger & Tester Corp., assignor to The Mercury Corporation, Kansas City, Mo. Combined battery chargers, testers, and condensers. 402,536; July 27. Class 26.
Mercury Corporation. (See Mercury Battery Charger & Tester Corp., assignor.)
Meridian Grain & Elevator Company. (See Wilson, John M., assignor.)
Merrit Laboratories. (See National Toilet Company.)
Metrical Laboratories, Inc., Ann Arbor, Mich. Precision instruments. 402,508; July 27; Serial No. 458,597; published May 18, 1943. Class 26.
Milk Producers Association of Central California, Modesto, Calif. Butter. 172,595; renewed Sept. 11, 1943.
Monaghan, Elizabeth, Inc., Detroit, Mich. Bread. 402,466; July 27; Serial No. 442,536; published June 24, 1941. Class 46.
Mosso, C. A., Laboratories. (See Shipman, C. M.)
Mutascio, Joseph, doing business as Prosperity California Wines, New York, N. Y. Wines. 402,463; July 27; Serial No. 438,490; published Apr. 1, 1941. Class 47.
Mutascio, Joseph, doing business as Prosperity California Wines, New York, N. Y. Wines. 402,464; July 27; Serial No. 438,700; published Apr. 1, 1941. Class 47.
National Cash Register Company, The, Dayton, Ohio. Registering machines. 402,479; July 27; Serial No. 455,021; published May 18, 1943. Class 26.
National Toilet Company, doing business as Merrit Laboratories, Paris, Tenn. Shaving soap, shaving cream, stove and nickel polish, etc. 402,539; July 27. Class 4.
National Tool Company, The, Cleveland, Ohio. Monthly magazine. 402,522; July 27; Serial No. 459,050; published May 11, 1943. Class 38.
New England Wholesale Co-operative Buyers. (See Weber, Holiday.)
Newport Industries, Inc., Pensacola, Fla. Solid zinc-treated rosin. 402,506; July 27; Serial No. 458,544; published May 18, 1943. Class 1.
Newport Industries, Inc., Pensacola, Fla. Polymerized or partially polymerized rosin. 402,525; July 27; Serial No. 459,127; published May 18, 1943. Class 1.
New York Grande Maison de Blanc Corporation, The. (See Grande Maison de Blanc, Inc., assignor.)
Normandie Coat Corp., New York, N. Y. Misses' and junior misses' coats, suits and suit ensembles, etc. 402,515; July 27; Serial No. 458,881; published May 11, 1943. Class 39.

Pacific Huts, Inc., Seattle, Wash. Nuts, bolts, drive clips, etc. 402,501; July 27; Serial No. 458,403; published May 18, 1943. Class 13.
Palumbo, J. C., Payette, Idaho. Fresh apples. 176,522; renewed Nov. 27, 1943.
Para-Tone Co. Inc., Chicago, Ill. Transfer screen sheets. 402,487; July 27; Serial No. 456,830; published May 18, 1943. Class 37.
Phillips, Charles H., Chemical Co., The, Glenbrook, Conn., and New York, N. Y., assignor to Sterling Drug Inc., Wilmington, Del. Cocoa and chocolate. 176,706; renewed Nov. 27, 1943.
Pillsbury Flour Mills Company. (See Zabriskie, George A., assignor.)
Pollock, Simon, doing business as American Lingerie Co., New York, N. Y. Women's undergarments. 402,505; July 27; Serial No. 458,479; published May 11, 1943. Class 39.
Q-O-S Corporation, New York, N. Y. Lens. 402,493; July 27; Serial No. 457,613; published May 18, 1943. Class 26.
RCA Manufacturing Company, Inc., assignor to Radio Corporation of America, Camden, N. J. Electrically operated vacuum cleaners, etc., parts thereof, attachments thereto, and accessories. 402,468; July 27; Serial No. 444,741; published May 18, 1943. Class 21.
Radio Corporation of America. (See RCA Manufacturing Company, Inc.)
Rahn, Otto, Ithaca, N. Y. Series of puzzle games. 402,512; July 27; Serial No. 458,741; published May 18, 1943. Class 22.
Refiners Lubricating Company. (See Addis, Charles M.)
Richmond Hosiery Mills, Rossville, Ga. Hosiery. 176,460; renewed Nov. 27, 1943.
Rollins Hosiery Mills, Inc., Des Moines, Iowa. Ladies' underwear. 402,516; July 27; Serial No. 458,883; published Mar. 18, 1943. Class 39.
Roman Cleanser Co., Detroit, Mich. Cleaner for painted walls, woodwork, linoleum, etc. 402,494; July 27; Serial No. 457,752; published May 18, 1943. Class 4.
Rosenthal, L. L., & Company, Inc., Chicago, Ill. Suits, overcoats, topcoats, etc. 402,547; July 27. Class 39.
Rossi, Peter, & Sons Inc., Braidwood, Ill. Macaroni. 171,360; renewed Aug. 7, 1943.
San Marino Wine Corporation, New York, N. Y. Champagne wine. 402,514; July 27; Serial No. 458,795; published May 18, 1943. Class 47.
Schenley Import Corporation, New York, N. Y. Wines. 402,526; July 27; Serial No. 459,154; published May 11, 1943. Class 47.
Scovill Manufacturing Company, Waterbury, Conn. Hose reels. 402,535; July 27; Serial No. 459,573; published May 18, 1943. Class 2.
Sea-Net Manufacturing Company, Los Angeles, Calif. Devices adapted for attachment to the feet for use as aids in swimming. 402,489; July 27; Serial No. 456,906; published May 18, 1943. Class 22.
Shaw, H. E., Company, Worcester, Mass. Soaps and dry cleansing fluids. 402,541; July 27. Class 4.
Shaw, H. E., Company, Worcester, Mass. Pipes. 402,542; July 27. Class 8.
Shipman, Clara M., doing business as C. A. Mosso Laboratories, to C. A. Mosso Company, Chicago, Ill. Antiseptic liniment for the first-aid treatment of burns, cuts, etc. 167,809; renewed May 8, 1943.
Solventol Chemical Products, Inc., Detroit, Mich. General cleaning compound. 402,462; July 27; Serial No. 384,340; published Mar. 8, 1938. Class 4.
Southland Manufacturing Co., Inc., Wilmington, N. C. Men's and boys' outer shirts, pajamas, underwear, etc. 402,496; July 27; Serial No. 458,250; published May 18, 1943. Class 39.
Sport Products, Inc., Cincinnati, Ohio. Golf clubs and parts thereof, golf balls, golf bags, etc. 402,549; July 27. Class 22.
Sprague Roller Mills, Sprague, assignor to Centennial Flouring Mills Co., Seattle, Wash. Self-rising flour. 176,719; renewed Nov. 27, 1943.
Standard Candy Company, Nashville, Tenn. Candy. 176,608; renewed Nov. 27, 1943.
Sterile Products Co. Inc. (See Emeis, Harry P.)
Sterling Drug Inc. (See Phillips, Charles H., Chemical Co., The, assignor.)
Stero-Oil Company. (See Emeis, Harry P.)
Stor-Aid, Inc., New York, N. Y. Furniture racks and mirrors. 402,545; July 27. Class 32.
Stout, C. B. (See Warner, Moore & Co., assignor.)
Strawbridge & Clothier, Philadelphia, Pa. Men's and boys' outer clothing. 175,545; renewed Nov. 6, 1943.
Taylor & Sledd, Inc., Richmond, Va. Canned fish. 176,447; renewed Nov. 27, 1943.
Taylor & Sledd, Inc., Richmond, Va. Canned fish, vegetables and fruits, apple butter, etc. 176,452; renewed Nov. 27, 1943.
Theme Hosiery Company. (See Thieme Brothers Company, assignor.)
Thieme Brothers Company, Fort Wayne, Ind., assignor to Theme Hosiery Company, assignor to Theme Hosiery Company, Los Angeles, Calif. Hosiery. 176,259; renewed Nov. 20, 1943.
Toledo Soybean Products Company, The, Toledo, Ohio. Soybean oil meal. 402,495; July 27; Serial No. 458,022; published May 18, 1943. Class 46.
Traders Oil Mill Company, Fort Worth, Tex. Specially processed cottonseed flour for human consumption. 402,527; July 27; Serial No. 459,156; published May 18, 1943. Class 46.
Tricamp Corporation, New York, N. Y. Hosiery. 402,523; July 27; Serial No. 459,055; published May 18, 1943. Class 39.
Turlock Co-Operative Growers, Modesto and San Francisco, Calif. Canned fruits. 402,502; July 27; Serial No. 458,418; published May 18, 1943. Class 46.
United Packers, Inc., Chicago, Ill. Prepared meats in tin and glass. 402,470; July 27; Serial No. 445,073; published Nov. 24, 1942. Class 46.
United Kimono Co. (See Joseph Bros.)
Urban, George, Milling Company, Buffalo, N. Y. Poultry feeds. 176,450; renewed Nov. 27, 1943.
Urban, George, Milling Company, Buffalo, N. Y. Wheat and rye flour. 176,741; renewed Nov. 27, 1943.
Victor-American Fuel Company, The, Portland, Maine, and Denver, to Victor-American Fuel Company, Denver, Colo. Coal. 169,807–8; renewed July 3, 1943.
Volpit Chewing Candy Co., Inc., Long Island City, N. Y. Chewing candies. 402,498; July 27; Serial No. 458,377; published May 18, 1943. Class 46.
Wall Paper Manufacturers Limited, The, London, assignor to The Walpamur Company Limited, Darwen, England. Dry, ready-mixed and paste paints. 173,182; renewed Sept. 18, 1943.
Walpamur Company Limited, The. (See Wall Paper Manufacturers Limited, The, assignor.)
Warner, Moore & Co., doing business as Dunlop Mills, assignor to C. B. Stout, doing business as Dixie-Portland Flour Mills, Richmond, Va. Feed. 176,752; renewed Nov. 27, 1943.
Weber, David, & Co., Philadelphia, Pa. Corrugated fiber and paper boxes, envelopes, wrappers, etc. 175,885; renewed Nov. 13, 1943.
Weber, David, & Co., Philadelphia, Pa. Corrugated solid fiber and paper boxes, envelopes, wrappers, etc. 176,445; renewed Nov. 27, 1943.
Weber, Holiday, doing business as New England Wholesale Co-Operative Buyers, Boston, Mass. Door mats. 402,513; July 27; Serial No. 458,748; published May 18, 1943. Class 50.
Welch, C. S., Company, The, New York, N. Y. Perfumed addition for the bath. 169,910; renewed July 3, 1943.
Wellman, S. K., Company, The, Cleveland, Ohio. House organ. 402,530; July 27; Serial No. 459,279; published May 18, 1943. Class 38.
Wesco Waterpaints, Inc., Berkeley, Calif. Paints. 402,543; July 27. Class 16.
West American Sales Co. (See Aspinall, Robert.)
White Swan Uniforms, Inc., Yonkers and New York, N. Y. Nurses' uniforms. 402,507; July 27; Serial No. 458,558; published May 18, 1943. Class 39.
Wiesehan, Henry, McAllen, Tex. Fresh vegetables. 402,517; July 27; Serial No. 458,887; published May 18, 1943. Class 46.
Williamson Heater Company, The, Cincinnati, Ohio. Heated-cabinet laundry driers. 169,313; renewed June 12, 1943.
Wilson, John M., assignor to Meridian Grain & Elevator Company, Meridian, Miss. Dairy feed, scratch feed, horse and mule feed, etc. 165,381; renewed Mar. 6, 1943.
Wilson Welder & Metals Company, Inc., New York, N. Y. Electric welding machines, cables, resistance units, etc. 174,790; renewed Oct. 23, 1943.
York Street Flax Spinning Co. Limited, Belfast, Ireland. Linen small wares. 166,466; renewed Apr. 3, 1943.
Young Radiator Company, Racine, Wis. Air conditioning and ventilating units. 402,503; July 27; Serial No. 458,420; published May 18, 1943. Class 34.
Zabriskie, George A., New York, N. Y., assignor, by mesne assignments, to Pillsbury Flour Mills Company, Minneapolis, Minn. Wheat flour. 172,613; renewed Sept. 11, 1943.
Ziegler, John C., Weslaco, Tex. Egg poachers. 402,499; July 27; Serial No. 458,382; published May 18, 1943. Class 13.
Zipp Manufacturing Company, The, Cleveland, Ohio. Nonalcoholic maltless compound for making beverages. 174,123; renewed Oct. 2, 1943.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Coal. Victor-American Fuel Company. 169,807–8; renewed July 3, 1943.
Cotton batting or cotton batts. Lockport Cotton Batting Co. 402,471; July 27; Serial No. 448,157; published May 18, 1943.
Rosin, Polymerized or partially polymerized. Newport Industries, Inc. 402,525; July 27; Serial No. 459,127; published May 18, 1943.
Rosin, Solid zinc-treated. Newport Industries, Inc. 402,506; July 27; Serial No. 458,544; published May 18, 1943.

CLASS 2

Dispensers, Tape. International Plastic Corporation. 402,534; July 27; Serial No. 459,568; published May 18, 1943.
Reels, Hose. Scovill Manufacturing Company. 402,535; July 27; Serial No. 459,573; published May 18, 1943.

CLASSES 2 AND 37

Boxes, envelopes, wrappers, etc., Corrugated solid fiber and paper. David Weber & Co. 176,445; renewed Nov. 27, 1943.
Boxes, envelopes, wrappers, etc., Corrugated fiber and paper. David Weber & Co. 175,885; renewed Nov. 13, 1943.

CLASS 4

Cleaner for painted walls, woodwork, linoleum, etc. Roman Cleanser Co. 402,494; July 27; Serial No. 457,752; published May 18, 1943.
Cleaning compound, General. Solventol Chemical Products, Inc. 402,462; July 27; Serial No. 384,340; published Mar. 8, 1938.
Cleaning material. C. M. Addis. 402,491; July 27; Serial No. 457,456; published May 18, 1943.
Metal polish. B. Heller & Company. 173,815; renewed Oct. 2, 1943.
Soap. Andrew Jergens Company. 176,193; renewed Nov. 20, 1943.
Soap. Beach Soap Company. 402,473–4; July 27; Serial Nos. 451,220–1; published May 18, 1943.
Soap. Hewitt Soap Company. 402,546; July 27.
Soaps and soap mixtures. Magnus Chemical Company. 175,886; renewed Nov. 13, 1943.
Soap, shaving cream, stove and nickel polish, etc., Shaving. National Toilet Company. 402,539; July 27.
Soaps and dry cleansing fluids. H. E. Shaw Company. 402,541; July 27.

CLASS 6

Chemical preparation for use in preserving smoked sausage. B. Heller & Company. 175,420; renewed Nov. 6, 1943.
Chemical preparation for use in preserving fresh sausage. B. Heller & Company. 175,421; renewed Nov. 6, 1943.
Coloring and flavoring for use in food products and confectionery and ice cream, Combined. B. Heller & Company. 174,008; renewed Oct. 2, 1943.
Foods, paraffin tablets, laxatives, etc. Battle Creek Food Company. 176,228; renewed Nov. 20, 1943.
Insecticide. B. Heller & Company. 174,010; renewed Oct. 2, 1943.
Liniment for the first-aid treatment of burns, cuts, etc., Antiseptic. C. M. Shipman. 167,809; renewed May 8, 1943.
Medicinal preparation for diabetes and to lower blood sugar and to diminish acidosis. Eli Lilly & Company. 171,971; renewed Aug. 21, 1943.
Oil of roses. G. Lueders. 23,883; re-renewed Nov. 28, 1943.
Perfumed addition for the bath. C. S. Welch Company. 169,910; renewed July 3, 1943.

CLASS 8

Pipes. H. E. Shaw Company. 402,542; July 27.

CLASS 9

Matches. Diamond Match Company. 170,565–6; renewed July 17, 1943.
Matches. Diamond Match Company. 170,617–20; renewed July 17, 1943.

CLASS 11

Ink that is applied to an exposed photographic plate to make the image visible, Developing. Davidson Manufacturing Corporation. 402,465; July 27; Serial No. 440,452; published May 11, 1943.

CLASS 13

Nuts, bolts, drive clips, etc. Pacific Huts, Inc. 402,501; July 27; Serial No. 458,403; published May 18, 1943.
Poachers, Egg. J. C. Ziegler. 402,499; July 27; Serial No. 458,382; published May 18, 1943.
Strainers. Automatic Products Company. 402,467; July 27; Serial No. 443,870; published May 18, 1943.

CLASS 14

Alloys, Metallic. Du Pont Engineering Company. 176,593; renewed Nov. 27, 1943.
Anchors, Ship. Durkee Marine Products Corporation. 402,529; July 27; Serial No. 459,259; published May 18, 1943.
Railway car castings. Birdsboro Steel Foundry and Machine Company. 402,469; July 27; Serial No. 445,006; published Nov. 17, 1942.
Steel rods for making of taps and small tools. Globe Wire Co. 173,215; renewed Sept. 18, 1943.

CLASS 15

Lubricating and sterilizing medium for dental instruments. H. P. Emeis. 175,508; renewed Nov. 6, 1943.

CLASS 16

Carbon-silicates used as a pigment for paints. Carbsil Pigment Company. 402,477; July 27; Serial No. 454,028; published May 4, 1943.
Paint pigments. Krebs Pigment & Chemical Company. 169,622; renewed June 26, 1943.
Paints. Wesco Waterpaints, Inc. 402,543; July 27.
Paints, Dry, ready-mixed and paste. Wall Paper Manufacturers Limited. 173,182; renewed Sept. 18, 1943.

CLASS 17

Cigars. E. F. Law. 23,874; re-renewed Nov. 28, 1943.
Tobacco, Smoking. Charles & Co. 402,480; July 27; Serial No. 455,226; published May 18, 1943.

CLASS 21

Batteries, Storage. Commander Battery Manufacturing Co. 402,472; July 27; Serial No. 451,186; published May 18, 1943.
Electric welding machines, cables, resistance units, etc. Wilson Welder & Metals Company, Inc. 174,790; renewed Oct. 23, 1943.
Electrically operated vacuum cleaners, etc., parts thereof, attachments thereto, and accessories. RCA Manufacturing Company. 402,468; July 27; Serial No. 444,741; published May 18, 1943.
Heater and electric water lights, Electric. C. C. Galbraith & Sons, Inc. 402,486; July 27; Serial No. 456,794; published May 18, 1943.
Radio transmitters. Bendix Aviation, Ltd. 402,490; July 27; Serial No. 457,294; published May 18, 1943.

CLASS 22

Cards, Playing. E. P. Butler. 402,478; July 27; Serial No. 454,684; published May 18, 1943.
Devices adapted for attachment to the feet for use as aids in swimming. Sea-Net Manufacturing Company. 402,489; July 27; Serial No. 456,906; published May 18, 1943.
Game apparatus. E. S. Lowe Company. 402,488; July 27; Serial No. 456,875; published May 18, 1943.
Games, Series of puzzle. O. Rahn. 402,512; July 27; Serial No. 458,741; published May 18, 1943.
Golf clubs and parts thereof, golf balls, golf bags, etc. Sport Products, Inc. 402,549; July 27.

CLASS 24

Driers, Heated-cabinet laundry. Williamson Heater Company. 169,313; renewed June 12, 1943.

CLASS 26

Chargers, testers, and condensers, Combined battery. Mercury Battery Charger & Tester Corp. 402,536; July 27.
Lens. Q-O-S Corporation. 402,493; July 27; Serial No. 457,613; published May 18, 1943.
Precision instruments. Metrical Laboratories, Inc. 402,508; July 27; Serial No. 458,597; published May 18, 1943.
Registering machines. National Cash Register Company. 402,479; July 27; Serial No. 455,021; published May 18, 1943.

CLASS 28

Necklaces and bracelets, not including watches, etc. Cohn & Rosenberger, Inc. 402,504; July 27; Serial No. 458,455; published May 18, 1943.

CLASS 32

Racks and mirrors, Furniture. Stor-Aid, Inc. 402,545; July 27.

CLASS 34

Air conditioning and ventilating units. Young Radiator Company. 402,503; July 27; Serial No. 458,420; published May 18, 1943.

Fans and blowers, Exhaust. Chelsea Fan & Blower Co. 402,485; July 27; Serial No. 456,651; published May 18, 1943.

CLASS 35

Casings made of rubber combined with fabric, Pneumatic tire. B. F. Goodrich Company. 169,849; renewed July 3, 1943.

CLASS 37

Crayons and pencils. American Crayon Company. 171,221; renewed July 31, 1943.
Paper, Bond. W. P. Jeffries Company. 165,738; renewed Mar. 20, 1943.
Pens of all kinds, fountain pens, and parts thereof, Writing. Esterbrook Steel Pen Manufacturing Company. 402,521; July 27; Serial No. 459,044; published May 18, 1943.
Printed forms. Bank of America National Trust and Savings Association. 402,500; July 27; Serial No. 458,384; published May 18, 1943.
Screen sheets, Transfer. Para-Tone Co. Inc. 402,487; July 27; Serial No. 456,830; published May 18, 1943.

CLASS 38

Books, Printed and illustrated. H. R. Garis. 402,497; July 27; Serial No. 458,355; published May 11, 1943.
Magazine. Dell Publishing Company. 402,531; July 27; Serial No. 459,283; published May 18, 1943.
Magazine. Dell Publishing Company. 402,533; July 27; Serial No. 459,536; published May 18, 1943.
Magazine, Monthly. National Tool Company. 402,522; July 27; Serial No. 459,050; published May 11, 1943.
Magazines. Dell Publishing Company. 402,540; July 27.
Newspaper. Cleveland Shopping News Company. 176,693; renewed Nov. 27, 1943.
Organ, House. S. K. Wellman Company. 402,530; July 27; Serial No. 459,279; published May 18, 1943.
Publication. Botany Worsted Mills. 402,484; July 27; Serial No. 456,333; published May 11, 1943.
Publication. Firecraft Door Company. 402,532; July 27; Serial No. 459,465; published May 18, 1943.

CLASS 39

Bloomers, Women's. L. N. Gross Company. 169,769; renewed July 3, 1943.
Blouses, Women's. Carson Pirie Scott & Company. 402,483; July 27; Serial No. 455,997; published May 11, 1943.
Clothing. Grande Maison de Blanc, Inc. 175,522; renewed Nov. 6, 1943.
Coats for men and boys. Ciro Merola & Company. 402,481; July 27; Serial No. 455,514; published May 11, 1943.
Coats, Girls'. Carson Pirie Scott & Company. 402,482; July 27; Serial No. 455,996; published May 11, 1943.
Coats, Ladies' and misses'. Barkin, Levin & Co. 402,524; July 27; Serial No. 459,067; published May 18, 1943.
Coats, suits, coat and suit ensembles, Misses' and junior misses'. Normandie Coat Corp. 402,515; July 27; Serial No. 458,881; published May 11, 1943.
Coats, suits, dresses, etc., Women's, misses', and girls'. Frank-Cerf, Inc. 402,520; July 27; Serial No. 459,022; published May 18, 1943.
Dresses, suits, wraps, etc., Ladies'. Harry Collins, Inc. 161,101; renewed Nov. 7, 1942.
Dresses, Women's and girls'. Associated Lerner Shops of America, Inc. 402,548; July 27.
Handkerchiefs, lace trimmings, ribbons, etc. Grande Maison de Blanc, Inc. 174,937; renewed Oct. 30, 1943.
Hosiery. Richmond Hosiery Mills. 176,460; renewed Nov. 27, 1943.
Hosiery. Thieme Brothers Company. 176,259; renewed Nov. 20, 1943.
Hosiery. Tricamp Corporation. 402,523; July 27; Serial No. 459,055; published May 18, 1943.
Kimonos, bath robes, aprons, etc. Joseph Bros. 174,016; renewed Oct. 2, 1943.
Neck-ties, cravats, and scarfs. Frank & Meyer Neckwear Co. 176,494; renewed Nov. 27, 1943.
Outer clothing, Men's and boys'. Strawbridge & Clothier. 175,545; renewed Nov. 6, 1943.
Shirts, pajamas, underwear, etc., Men's and boys' outer. Southland Manufacturing Co. 402,496; July 27; Serial No. 458,250; published May 18, 1943.
Suits and overcoats, Men's and boys'. The Fair. 171,202; renewed July 31, 1943.
Suits, overcoats, topcoats, etc. L. L. Rosenthal & Company. 402,547; July 27.
Undergarments, Women's. S. Pollock. 402,505; July 27; Serial No. 458,479; published May 11, 1943.
Undergarments, Women's knitted and textile. The Fair. 169,292; renewed June 12, 1943.
Underwear, Knitted and textile. Manny-Reilly Co. 175,767; renewed Nov. 13, 1943.
Underwear, Ladies'. Rollins Hosiery Mills, Inc. 402,516; July 27; Serial No. 458,883; published May 18, 1943.
Uniforms, Nurses'. White Swan Uniforms, Inc. 402,507; July 27; Serial No. 458,558; published May 18, 1943.

CLASS 42

Handkerchiefs, lace trimmings, ribbons, etc. Grande Maison de Blanc, Inc. 174,937; renewed Oct. 30, 1943.
Linen small wares. York Street Spinning Co. Limited. 166,406; renewed Apr. 3, 1943.

CLASS 43

Laces, Shoe and corset. Hutmacher Braiding Co. 170,585; renewed July 17, 1943.

CLASS 44

Dental Cements. W.V-B. Ames Company. 169,863; renewed July 3, 1943.
Resin plastics, Synthetic. Amalgamated Dental Company Limited. 402,492; July 27; Serial No. 457,489; published May 18, 1943.
Tables, stools, stands, etc., Physicians' and surgeons'. Hamilton Manufacturing Company. 402,537; July 27.
Tampons, Absorbent catamenial. Dale Manufacturing Company. 402,544; July 27.

CLASS 45

Compound for making beverages, Nonalcoholic maltless. Zipp Manufacturing Company. 174,123; renewed Oct. 2, 1943.

CLASS 46

Apples, Fresh. J. C. Palumbo. 176,522; renewed Nov. 27, 1943.
Biscuit, Cereal. Battle Creek Food Company. 176,751; renewed Nov. 27, 1943.
Bread. Elizabeth Monaghan Inc. 402,466; July 27; Serial No. 442,536; published June 24, 1941.
Bread, rolls, and buns. H. W. Conrad. 167,383; renewed May 1, 1943.
Butter. Milk Producers Association of Central California. 172,595; renewed Sept. 11, 1943.
Butter, Nut. Battle Creek Food Company. 175,371; renewed Nov. 6, 1943.
Candy. Standard Candy Company. 176,608; renewed Nov. 27, 1943.
Canned fish. Taylor & Sledd, Inc. 176,447; renewed Nov. 27, 1943.
Canned fish, vegetables and fruits, apple butter, etc. Taylor & Sledd, Inc. 176,452; renewed Nov. 27, 1943.
Canned fruits. Turlock Co-Operative Growers. 402,502; July 27; Serial No. 458,418; published May 18, 1943.
Canned soy bean succotash. Francis H. Leggett & Company. 402,509; July 27; Serial No. 458,658; published May 18, 1943.
Chewing candies. Volpit Chewing Candy Co. 402,498; July 27; Serial No. 458,377; published May 18, 1943.
Cocoa and chocolate. Charles H. Phillips Chemical Co. 176,706; renewed Nov. 27, 1943.
Cottonseed flour for human consumption, Specially processed. Traders Oil Mill Company. 402,527; July 27; Serial No. 459,156; published May 18, 1943.
Feed. Warner, Moore & Co. 176,752; renewed Nov. 27, 1943.
Feed, scratch feed, horse, and mule feed, etc., Dairy. J. M. Wilson. 165,381; renewed Mar. 6, 1943.
Feeds, Poultry. George Urban Milling Company. 176,450; renewed Nov. 27, 1943.
Flour, Self-rising. Sprague Roller Mills. 176,719; renewed Nov. 27, 1943.
Flour, Wheat. G. A. Zabriskie. 172,613; renewed Sept. 11, 1943.
Flour, Wheat. International Milling Company. 176,578; renewed Nov. 27, 1943.
Flour, Wheat and rye. George Urban Milling Company. 176,741; renewed Nov. 27, 1943.
Food, Cereal breakfast. Battle Creek Food Company. 176,461; renewed Nov. 27, 1943.
Food consisting of wheat protein combined with nuts, Vegetable. Battle Creek Food Company. 176,453; renewed Nov. 27, 1943.
Foods and ingredients of foods. Higgins-Babcock-Hurd Company. 170,847; renewed July 24, 1943.
Fruits, Citrous. California Fruit Growers Exchange. 176,732; renewed Nov. 27, 1943.
Fruits, Fresh citrus. Wm. P. McDonald Corporation. 402,518; July 27; Serial No. 458,943; published May 18, 1943.
Garlic flavoring compound. B. Heller & Company. 174,715; renewed Oct. 23, 1943.
Grapes, Fresh. E. Barbera. 402,511; July 27; Serial No. 458,719; published May 18, 1943.
Jellies, fruit preserves, canned fruits and canned vegetables. R. Aspinall. 402,519; July 27; Serial No. 458,995; published May 18, 1943.
Macaroni. Peter Rossi & Sons Inc. 171,360; renewed Aug. 7, 1943.
Meats in tin and glass, Prepared. United Packers, Inc. 402,470; July 27; Serial No. 445,073; published Nov. 24, 1942.
Meat products. Oscar Mayer & Co. 402,476; July 27; Serial No. 453,896; published May 18, 1943.
Milk culture. Lacteal Analytical Laboratories, Inc. 169,196; renewed June 12, 1943.
Paste products, Alimentary. A. Goodman & Sons, Inc. 176,682; renewed Nov. 27, 1943.

Popcorn, Shelled. Albert Dickinson Company. 402,510; July 27; Serial No. 458,683; published May 18, 1943.
Rice, Patna type. M. D. Green. 402,475; July 27; Serial No. 451,712; published May 18, 1943.
Shortening, Vegetable. Best Foods, Inc. 176,420; renewed Nov. 27, 1943.
Soybean oil meal. Toledo Soybean Products Company. 402,495; July 27; Serial No. 458,022; published May 18, 1943.
Tapioca. Haas Baruch & Co. 170,491; renewed July 17, 1943.
Vegetables, Fresh. H. Wiesehan. 402,517; July 27; Serial No. 458,887; published May 18, 1943.

CLASS 47

Wine, Champagne. San Marino Wine Corporation. 402,514; July 27; Serial No. 458,795; published May 18, 1943.
Wines. Golan Wines, Inc. 402,538; July 27.
Wines. J. Mutascio. 402,463; July 27; Serial No. 438,490; published Apr. 1, 1941.
Wines. J. Mutascio. 402,464; July 27; Serial No. 438,700; published Apr. 1, 1941.
Wines. Schenley Import Corporation. 402,526; July 27; Serial No. 459,154; published May 11, 1943.

CLASS 49

Whiskey. Dillinger Distilleries, Inc. 402,528; July 27; Serial No. 459,169; published May 11, 1943.

CLASS 50

Mats, Door. H. Weber. 402,513; July 27; Serial No. 458,748; published May 18, 1943.
Sheeting coated with compositions, Textile fabric. Kenlit Mfg. Co. 169,271; renewed June 12, 1943.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 27TH DAY OF JULY, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Chicago Seal Company. (See Karlberg, Arvid E., assignor.)

Driver-Harris Company. (See Lohr, James M., assignor.)

Karlberg, Arvid E., assignor to Chicago Seal Company, Chicago, Ill. Shaft seal. Re. 22,353; July 27.

King, James, Glendale, Calif. Connecting pin. Re. 22,354; July 27.

Leighton, John W., Port Huron, Mich. Individual spring connection. Re. 22,355; July 27.

Lohr, James M., Morristown, assignor to Driver-Harris Company, Harrison, N. J. Alloy. Re. 22,356; July 27.

Lohr, James M., Morristown, assignor to Driver-Harris Company, Harrison, N. J. Alloy. Re. 22,357; July 27.

LIST OF DESIGN PATENTEES

Becker, Fred H., and L. F. Peabody, assignors to The Ohio Leather Company, Girard, Ohio. Leather or similar article of manufacture. 136,044; July 27.

Betesh, Charles I., New York, N. Y. Tablecloth or similar article. 136,045; July 27.

Block, Richard G., Los Angeles, Calif. Combination picture frame and flower container. 136,054; July 27.

Burn, Walter P., and H. L. Jurkops, assignors to the United States of America, as represented by the United States Director of Civilian Defense, Office of Civilian Defense. Appliqué emblem or similar article. 136,059; July 27.

Cashin, Bonnie, New York, N. Y. Dress. 136,068; July 27.

Cashin, Bonnie, New York, N. Y. Dress. 136,069; July 27.

Cashin, Bonnie, New York, N. Y. Dress. 136,070; July 27.

Cashin, Bonnie, New York, N. Y. Dress. 136,071; July 27.

Civilian Defense, Office of, United States of America, as represented by the United States Director of Civilian Defense. (See Burn, W. P., and Jurkops, assignors.)

Crowe, Thomas J., Chicago, Ill. Concrete dwelling house. 136,060; July 27.

Downer, Katherine R., Villa Nova, Pa. Butter measure. 136,046; July 27.

Flynn, John, Skokie, Ill., assignor to Remington Rand Inc., Buffalo, N. Y. Tool for applying index clips. 136,072; July 27.

Fordyce, Charles L., New York, assignor to M. Halprin, Inc., Brooklyn, N. Y. Combined holder and receptacle therefor, or the like. 136,064; July 27.

Freese, Douglas H., Portage des Sioux, Mo. Combined envelope moistener and sealer. 136,073; July 27.

Fuchs, Abraham C., New York, N. Y. Picture frame. 136,061; July 27.

Glasorb Company. (See Sosman, Meyer, assignor.)

Halprin, M., Inc. (See Fordyce, Charles L., assignor.)

Heisey, A. H., & Company. (See Whipple, Clyde S., assignor.)

Herron, Robert, Revere, Mass. Shoe sole. 136,065; July 27.

Houdaille-Hershey Corporation. (See Sebok, Joseph B., assignor.)

Jacobson, Louis, Brooklyn, N. Y. Eyeglass frame. 136,047; July 27.

Jurkops, Helen L. (See Burn, W. P., and Jurkops.)

Kress, Herman, New York, N. Y. Girdle or the like. 136,050; July 27.

Madsen Iron Works. (See Madsen, Walter M., assignor.)

Madsen, Walter M., Alhambra, assignor to Madsen Iron Works, Huntington Park, Calif. Aggregate mixer arm. 136,055; July 27.

Makrianes, James K., Longmeadow, assignor to National Paper Box Co. Inc., West Springfield, Mass. Knockdown toy cradle. 136,066; July 27.

Matifes, Alfred V., San Diego, Calif. Magazine rack. 136,051; July 27.

Morris, Bert M., Los Angeles, Calif. Fountain pen section. 136,074; July 27.

National Paper Box Co. Inc. (See Makrianes, James K., assignor.)

Ohio Leather Company. (See Becker, F. H., and Peabody, assignors.)

Oppenheim, Stanley J., New York, N. Y. Table scarf or similar article. 136,067; July 27.

Peabody, Lester F. (See Becker, F. H., and Peabody.)

Remington Rand Inc. (See Flynn, John, assignor.)

Ročić, Ivan, New York, N. Y. Coupling or similar article. 136,056; July 27.

Schmid, Ivan P., Columbus, Nebr. Combined sun visor and shield. 136,048; July 27.

Sebok, Joseph B., assignor to Houdaille-Hershey Corporation, Detroit, Mich. Air cleaner or similar article. 136,057; July 27.

Setton, Morris, Brooklyn, N. Y. Tablecloth or similar article. 136,052; July 27.

Sosman, Meyer, Brooklyn, assignor to Glasorb Company, New York, N. Y. Combined container and base therefor. 136,062; July 27.

Stolzenberger, Adam J., Jr., Glendale, Long Island, N. Y. Amphibian airplane. 136,075; July 27.

Thomander, Veron S. (See Young, D. A., and Thomander.)

Vero, Alexander, Bronx, N. Y. Bric-a-brac or the like. 136,058; July 27.

Westinghouse Electric & Manufacturing Company. (See Young, D. A., and Thomander, assignors.)

Whipple, Clyde S., Los Angeles, Calif., assignor to A. H. Heisey & Company, Newark, Ohio. Glass liner for a comport or article of similar nature. 136,049; July 27.

Young, Douglass A., East Orange, and V. S. Thomander, Maplewood, assignors to Westinghouse Electric & Manufacturing Company. Cover for an instrument casing. 136,063; July 27.

Zinaman, Charles, New York, N. Y. Nightgown. 136,053; July 27.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 27TH DAY OF JULY, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abbe, Edward J., assignor to The Elwell-Parker Electric Company, Cleveland, Ohio. Winding apparatus. 2,325,211; July 27.

Adams, John F., Washington, D. C. Clasp or related article. 2,325,212; July 27.

Adlake Company, The. (See Larson, Carl H., assignor.)

Aegerter, Gustave W., St. Louis, Mo. Cigarette package. 2,325,022; July 27.

Aero Publishers, Inc. (See Baughman, Harold E., assignor.)

Aircraft Screw Products Company. (See Haas, O., and Hawkins, assignors.)

Air Reduction Company. (See Dennis, Wolcott, assignor.)

Alien Property Custodian. (See Beyer, Werner K. R.)

Alien Property Custodian. (See Boissou, Pierre, assignor.)

Alien Property Custodian. (See de Király, P., and Kucher.)

Alien Property Custodian. (See Derungs, Ernest A.)

Alien Property Custodian. (See Fornet, Artur.)

Alien Property Custodian. (See Georges, Auguste F.)

Alien Property Custodian. (See Goy, András.)

Alien Property Custodian. (See Hepp, Werner.)

Alien Property Custodian. (See Herrmann, W. O., and Haehnel.)

Alien Property Custodian. (See Koch, Josef.)

Alien Property Custodian. (See Krijger, Willem J.)

Alien Property Custodian. (See Lambert, Roger E.)

Alien Property Custodian. (See Lauer, Ambroius and W.)

Alien Property Custodian. (See Links, Heinz.)

Alien Property Cnstodian. (See Mertens, Willi.)

Alien Property Custodian. (See Petersen, O., and Jensen.)

Alien Property Custodian. (See Roos, H., Dorr, and Koch.)

Alien Property Custodian. (See Schlack, Paul.)

Alien Property Custodian. (See Wauters, Jean.)

Alien Property Custodian. (See Weber, H., and Petersen.)

Alien Property Custodian. (See Westerkamp, Hugo.)

Alien Property Custodian. (See Wunderer, Anton.)

Alison, Noah L., assignor to The American Blower Corporation, Detroit, Mich. Dump valve for hydraulic couplings. 2,325,090; July 27.

Allbright-Nell Co., The. (See Allbright, Norman J., assignor.)

Allbright, Norman J., Hinsdale, assignor to The Allbright-Nell Co., Chicago, Ill. Smokehouse. 2,325,213; July 27.

Allen, Morris F., Canton, Ohio. Road maintainer. 2,325,025; July 27.

Allred, George W., Mayodan, assignor to The Bahnson Company, Winston-Salem, N. C. Apparatus for cleaning machinery. 2,325,023; July 27.

Allwein, Aloysius F., and E. C. Burdick, assignors to The Brown Instrument Company, Philadelphia, Pa. Pressure measuring instrument. 2,325,091; July 27.

Alsop, Samuel, Milldale, Conn. Filter and pump support. 2,325,169; July 27.

Aluminum Company of America. (See Freeman, Malcolm H., assignor.)

Alvear, Victor, Passaic, N. J. Bunghole stopper. 2,325,356; July 27.

Amberg, Walter E., Beverly Shores, Ind. Constant velocity universal joint. 2,325,460; July 27.

Amberg, Walter E., assignor to Universal Paper Products Company, Chicago, Ill. Carton cup dispenser. 2,325,214; July 27.

American Blower Corporation, The. (See Alison, Noah L., assignor.)

American Blower Corporaton. (See Walters, Thomas A., assignor.)

American Can Company. (See Then, Edward O., assignor.)

American Cyanamid Company. (See Cook, E. W., and Bradley, assignors.)

American Cyanamid Company. (See Lynch, Kathryn L., assignor.)

American Laundry Machinery Company, The. (See Johnson, Oscar W., assignor.)

American Locomotive Company. (See Blunt, James G., assignor.)

American Seal-Kap Corporation of Delaware. (See Boschen, Ludwig F., assignor.)

American Seal-Kap Corporation of Delaware. (See Goodwin, Carl W., assignor.)

American Seal-Kap Corporation of Delaware. (See Goodwin, C. W., and Martin, assignors.)

American Seal-Kap Corporation of Delaware. (See Martin, Harold W., assignor.)

American Seal-Kap Corporation of Delaware. (See Vore, Herbert G., assignor.)

American Steel and Wire Company. (See Brickman, Alan E., assignor.)

American Steel and Wire Company, The. (See Corsini, Umbert F., assignor.)

American Steel and Wire Company, The. (See Lloyd, Elmer J., assignor.)

Amyot, Louis J. A., Quebec, Quebec, Canada. Fabric. 2,325,215; July 27.

Anderson, Raymond T., Berea, assignor to The V. D. Anderson Company, Cleveland, Ohio. Apparatus for expressing oil from oil bearing materials. 2,325,357; July 27.

Anderson, V. D., Company, The. (See Anderson, Raymond T., assignor.)

Andres, Paul G., Oak Park, Ill., assignor to Bowes Seal Fast Corporation, Indianapolis, Ind. Spark plug cooling means. 2,325,024; July 27.

Andrews, Elmer, Woodcliff, assignor to Callite Tungsten Corporation, Union City, N. J. Electric motor control. 2,325,092; July 27.

Andrews, John L., Elmwood Park, Ill., assignor to Edison General Electric Appliance Company, Inc. Heating device. 2,325,358 July 27.

Anway, Herman W., assignor to Wood Conversion Company, Cloquet, Minn. Testing feltable fibers. 2,325,026; July 27.

Anway, Herman W., assignor to Wood Conversion Company, Cloquet, Minn. Testing apparatus for compressing resilient masses. 2,325,027; July 27.

Apco Mossberg Company. (See Bench, D. E., and Crosby, assignors.)

Armistead, George, Jr., Houston, Tex., assignor to Process Management Company, Inc., New York, N. Y. Motor fuel production. 2,325,093; July 27.

Arms, Ray W. (See Rakowsky, V., Holt, and Arms.)

Arnold, Walter P., Orrville, and E. R. Boller, Twinsburg Township, Summit County, Ohio, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Chemical process and product. 2,325,359; July 27.

Arthur, Oscar F., Belle Vernon, Pa. Wire-lacing apparatus. 2,325,461; July 27.

Arthur, Oscar F., Belle Vernon, Pa. Coil-forming apparatus. 2,325,462; July 27.

Artzt, Maurice, Haddonfield, N. J., assignor to Radio Corporation of America. Motor synchronizing device. 2,325,028; July 27.

Ashworth, Joseph A., North Arlington, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Furnace control apparatus. 2,325,094; July 27.

Astatic Corporation, The. (See Semple, Robert E., assignor.)

Atlantic Products Corporation. (See Cart, Francis G., assignor.)

Atlantic Refining Company, The. (See Reuter, Raymond, assignor.)

Auth, Charles, Malba, N. Y., deceased, E. L. Auth, executrix. Directory and push-button call-board device. 2,325,095; July 27.

Auth, Emma L., executrix. (See Auth, Charles.)

Auto-Ordnance Corporation. (See Hammond, Grant, assignor.)

Ayers, Samuel H., and D. L. Loetscher, assignors to Crown Can Company, Philadelphia, Pa. Treating juices and product. 2,325,360; July 27.

Axler, Meyer H., Bronx, N. Y., and E. Halitsky, Santa Monica, Calif. Camera. 2,325,463; July 27.

Bahnson Company, The. (See Allred, George W., assignor.)

Baker, William B., assignor to Sutliff & Case Co., Inc., Peoria, Ill. Calcium gluconate solution. 2,325,029; July 27.

Balcar, Frederick R., Stamford, Conn., assignor, by mesne assignments, to U. S. Industrial Alcohol Co., New York, N. Y. Recovery of olefin oxides. 2,325,576; July 27.

Balcar, Frederick R., Stamford, Conn., assignor, by mesne assignments, to U. S. Industrial Alcohol Co., New York, N. Y. Recovery of olefin oxides. 2,325,577; July 27.

Baldenhofer, William G., assignor to The Thompson Grinder Company, Springfield, Ohio. Lubricant seal for shafts. 2,325,296; July 27.

Baldwin Locomotive Works, The. (See Tate, Malcolm C., assignor.)

Bannister, Clyde E., Bartlesville, Okla. Hose. 2,325,464; July 27.

Bannister, Clyde E., Houston, Tex. Making hose. 2,325,465; July 27.

Bany, Herman, Lansdowne, Pa., assignor to General Electric Company. Circuit interrupter control system. 2,325,361; July 27.

Barmeier, Floyd E., Chicago, Ill., assignor to General Printing Ink Corporation, New York, N. Y. Printing ink. 2,325,297; July 27.

Barnes, Harry W., Beverly Hills, Calif. Black-out lamp. 2,325,216; July 27.

Barnes, Llewellyn T., Hempstead, N. Y. Bimetallic piston ring. 2,325,298; July 27.

Bauer, Russell E., Detroit, Mich. Measuring gauge. 2,325,170; July 27.

Baughman, Harold E., assignor to Aero Publishers, Inc., Glendale, Calif. Loose-leaf binder. 2,325,466; July 27.

Bausch & Lomb Optical Company. (See Flint, Edward F., assignor.)

Bausch & Lomb Optical Company. (See Rayton, Wilbur B., assignor.)

Beaudreau, George J., Kenyon, R. I. Loom warp feed. 2,325,096; July 27.

Becker, Gus E. (See Hopkins, H. H., and Becker.)

Beech-Nut Packing Company. (See Martin, William T., assignor.)

Beers, William O., Kendallville, Ind., assignor to Kraft Cheese Company, Chicago, Ill. Manufacture of process cheese. 2,325,217; July 27.

Behringer, Frances R., Jackson Heights, N. Y. Infant's garment. 2,325,097; July 27.

Beissinger, Victor J., assignor to Richfield Oil Corporation, Los Angeles, Calif. Gravel packing of wells. 2,325,218; July 27.

Bell, Charles C., Marblehead, Mass., assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J. Coating machine. 2,325,098; July 27.

Bell Telephone Laboratories, Incorporated. (See Ashworth, Joseph A., assignor.)

Bell Telephone Laboratories, Incorporated. (See Faley, George J. V., assignor.)

Bell Telephone Laboratories, Incorporated. (See Gent, Edgar W., assignor.)

Bellar, Oscar, Brooklyn, N. Y. Paper cutter. 2,325,030; July 27.

Bench, David E., and M. A. Crosby, Dayton, Ohio, assignors to Apco Mossberg Company, Attleboro, Mass. Measuring apparatus for the inside of bores. 2,325,299; July 27.

Bendix Aviation Corporation. (See Schwenn, Kurt R., assignor.)

Bendix Aviation Corporation. (See Jones, Burr W., assignor.)

Bennett, Reuel W. (See Hancock, V. H., and Bennett.)

Berns, Morris A., Chicago, Ill. Coring knife. 2,325,031; July 27.

Bernstein, Isidor M., Cincinnati, Ohio, assignor to Interchemical Corporation, New York, N. Y. Roll mill cover and vehicle control. 2,325,171; July 27.

Best, Frank E., Indianapolis, Ind. High speed roller bearing. 2,325,099; July 27.

Better Packages Incorporated. (See Krueger, Theodore H., assignor.)

Beyer, Werner K. R., Dresden, Germany; vested in the Alien Property Custodian. Sewing machine. 2,325,467; July 27.

Bibb, Carlisle H. (See Palmer, R. C., and Bibb.)

Bingley, Harry G., assignor to Hyde Manufacturing Company, Southbridge, Mass. Scraper. 2,325,219; July 27.

Bisnoff, Harry L., Jamaica, N. Y. Fracture appliance. 2,325,300; July 27.

Black, Frank J., Sr., Crafton, Pa. Apparatus for gauging dimensions of circular workpieces. 2,325,362; July 27.

Blake, George A., New Bedford, Mass. Dispensing apparatus. 2,325,363; July 27.

Blanchard, Benjamin B., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Fastening inserting machine. 2,325,100; July 27.

Bliss, E. W., Company. (See Crane, Edward V., assignor.)

Blum, Irving M. (See Harmon, Frank B., assignor.)

Blunt, James G., Schenectady, assignor to American Locomotive Company, New York, N. Y. Railway vehicle truck. 2,325,468; July 27.

Bock, Charles S., assignor to Andrew Hoffman, Chicago, Ill. Door lock. 2,325,220; July 27.

Bock, Louis H., Huntingdon Valley, and A. L. Houk, assignors to Röhm & Haas Company, Philadelphia, Pa. N-polyalkylene polyaminomalonamide. 2,325,567; July 27.

Boening, Joseph W., Inglewood, Calif. Cutter feeding device. 2,325,364; July 27.

Bohm, Victor, Poughkeepsie, N. Y. Fulling or planking machine. 2,325,301; July 27.

Boissou, Pierre, Pont a Mousson, Beurthe et Moselle, France; vested in the Alien Property Custodian. Piping element. 2,325,469; July 27.

Boller, Ernest R. (See Arnold, W. P., and Boller.)

Bonanno, Joseph L., Maplewood, and A. Ehret, Hillside, N. J., assignors to The Lionel Corporation, New York, N. Y. Transformer. 2,325,470; July 27.

Bonanno, Joseph L., Maplewood, N. J., assignor to The Lionel Corporation, New York, N. Y. Toy railroad track switch. 2,325,471; July 27.

Bonnafoux, Paul, Lancaster, Calif. Hay breaker. 2,325,101; July 27.

Booty, Philip C. P., assignor to L. W. Fricke, Chicago, Ill.; D. L. Fricke, executrix of said Leslie W. Fricke, deceased. Method of and apparatus for applying swatches. 2,325,578; July 27.

Borg-Warner Corporation. (See Nutt, H., and Smirl, assignors.)

Borglin, Joseph N., assignor to Hercules Powder Company, Wilmington, Del. Sandpaper manufacture. 2,325,172; July 27.

Boschen, Ludwig F., New York, N. Y., assignor to American Seal-Kap Corporation of Delaware, Wilmington, Del. Clutch control mechanism. 2,325,102; July 27.

Bowes Seal Fast Corporation. (See Andres, Paul G., assignor.)

Boye Needle Company, The. (See Davis, Edward D., assignor.)

Bradley, Theodore F. (See Cook, E. W., and Bradley.)

Bretzlaff, Walter H., Detroit, Mich., and C. P. Grimes, Syracuse, N. Y. Segregated pressure fan. 2,325,221; July 27.

Bretzlaff, Walter H., Detroit, Mich., and C. P. Grimes, Syracuse, N. Y. Air impelling apparatus. 2,325,222; July 27.

Brewster, Marshall L., Van Nuys, Calif. Pneumatic cushion. 2,325,223; July 27.

Brickman, Alan E., Monongahela, Pa., assignor to The American Steel and Wire Company. Pavement joint. 2,325,472; July 27.

Briggs Manufacturing Company. (See Tjaarda, John, assignor.)

Brill, Ruby L., and S. Lipton, Long Beach, N. Y. Hat adjusting means. 2,325,473; July 27.

Bristol, Carlton W., Naugatuck, assignor to The Bristol Company, Waterbury, Conn. Fluid-pressure-actuated regulating system. 2,325,103; July 27.

Bristol Company, The. (See Bristol, Carlton W., assignor.)

Britt, Kenneth W., Norwood, assignor to Scott Paper Company, Chester, Pa. High-wet-strength paper. 2,325,302; July 27.

Britten, Edwin F., Jr., Short Hills, assignor to Monroe Calculating Machine Company, Orange, N. J. Magnetic compass. 2,325,365; July 27.

Brooke, Frank W., Pittsburgh, Pa. Self-locking nut. 2,325,303; July 27.

Brown, Cicero C., J. R. Dodson, Jr., and F. L. Scott, Jr., assignors, by mesne assignments, to D. H. Reed Company, Houston, Tex. Outside pipe cutter. 2,325,104; July 27.

Brown, George M., Scotia, N. Y., assignor to General Electric Company. Modulation control system. 2,325,366; July 27.

Brown Instrument Company, The. (See Allwein, A. F., and Burdick, assignors.)

Bruson, Herman A., and J. L. Rainey, assignors to The Resinous Products & Chemical Company, Philadelphia, Pa. Adhesive compositions comprising bisthioammeline polyalkylene ether resins. 2,325,105; July 27.

Bryant, Thomas H., Sr., assignor to Frankfort Distilleries, Incorporated, Louisville, Ky. Bottle holder. 2,325,224; July 27.

Büchi, Alfred, Winterthur, Switzerland. Control device for scavenged, ignition-type engines. 2,325,032; July 27.

Bucknam, James H., Cranford, N. J., assignor to The Linde Air Products Company. Blowpipe apparatus. 2,325,106; July 27.

Budd, Edward G., Manufacturing Company. (See Weightman, William A., assignor.)

Burdick, Edwin C. (See Allwein, A. F., and Burdick.)

Burke, William O., assignor to National Lock Co., Rockford, Ill. Refrigerator latch. 2,325,225; July 27.

Burns, Walter G., Fort Wayne, Ind. Fish lure. 2,325,107; July 27.

Bushrod, Charles J., Prestwich, assignor to Magnesium Elektron Limited, London, England. Inhibition of corrosion of magnesium and magnesium base alloys. 2,325,304; July 27.

Buxton, Loran O., Belleville, and S. T. Lipsius, East Orange, assignors to National Oil Products Company, Harrison, N. J. Treating fish livers to remove the oil therefrom. 2,325,367; July 27.

Byrns, Alva C., assignor to Union Oil Company of California, Los Angeles, Calif. Desulphurizing catalyst. 2,325,033; July 27.

Byrns, Alva C., Palos Verdes Estates, assignor to Union Oil Company of California, Los Angeles, Calif. Desulphurizing petroleum fractions. 2,325,034; July 27.

Caesar, George V. (See Thompson, T. D., and Caesar.)

Cairns Corporation. (See Lermont, B., and Wolf, assignors.)

California Fruit Growers Exchange. (See Collins, Frank H., assignor.)

Callite Tungsten Corporation. (See Andrews, Elmer, assignor.)

Cappel, MacDonald and Company. (See Donovan, Edward F., assignor.)

Cargile, Paul J., U. S. Navy. Adjustable jaw pliers. 2,325,035; July 27.
Carlile, Alfred E., Meadville, Pa., assignor to Talon, Inc. Separating slide fastener. 2,325,305; July 27.
Carlson, Bert G., Erieside, assignor to Jack & Heintz, Inc., Bedford, Ohio. Aircraft control device. 2,325,108; July 27.
Carnegie-Illinois Steel Corporation. (See Goins, Alfred C., assignor.)
Carnegie-Illinois Steel Corporation. (See Hurlston, George J., assignor.)
Carney, Clifford R., Dearborn, assignor to General Motors Corporation, Detroit, Mich. Ice tray. 2,325,226; July 27.
Carpenter, Oscar S., Cloverdale, Ind. Salvaging and life-saving device for sunken vessels. 2,325,306; July 27.
Carpenter Steel Company, The. (See Wright, F. L., and Lnerssen, assignors.)
Cart, Francis G., Morrisville, Pa., assignor to Atlantic Products Corporation, Trenton, N. J. Golf bag. 2,325,474; July 27.
Carter Carbuetor Corporation. (See Coffey, Irven E., assignor.)
Case, Harold W., Dayton, Ohio. Radiator core tube. 2,325,036; July 27.
Castro, Santiago, Brooklyn, N. Y. Butter vending machine. 2,325,037; July 27.
Celanese Corporation of America. (See Sitzler, Richard R., assignor.)
Celotex Corporation, The. (See Muench, Carl G., assignor.)
Chaddock, Clarence F., Los Angeles, Calif. Crowbar and pinch bar. 2,325,227; July 27.
Chalkley, Lyman, Brick Township, Ocean County, N. J. Nuclear substituted triarylmethane derivatives and making them. 2,325,038; July 27.
Cherdakoff, Pierre, University City, Mo. Display form. 2,325,173; July 27.
Chesler, Gustave E., Pittsburgh, Pa. Portable desk. 2,325,039; July 27.
Chesney, Robert M., assignor to The Steel Sanitary Company, Alliance, Ohio. Apparatus for making tubs. 2,325,369; July 27.
Chicago Development Company. (See Dean, Reginald S., assignor.)
Chicago Development Company. (See McLaughlin, John J., assignor.)
Chicago Flexible Shaft Company. (See Molnar, Charles L., assignor.)
Christensen, Leo M., Moscow, Idaho, assignor to National Agrol Company, Inc., New York, N. Y. Apparatus for promoting mold growth. 2,325,368; July 27.
Christy, Elmer W., Cincinnati, Ohio. Game disk. 2,325,109; July 27.
Chutjian, Fanet O. H., New York, N. Y. Treating tea. 2,325,370; July 27.
Clark, Frederic B., Englewood, N. J. Ironing machine. 2,325,475; July 27.
Clerc, Leonard F., Chicago, Ill. Refrigerated shipping container. 2,325,371; July 27.
Cleve, John E., Hayward, Calif. Illuminating mirror. 2,325,476; July 27.
Cleveland Tungsten, Inc. (See Oberdick, Ervin O., assignor.)
Clifford, Albert M., Stow, assignor to Wingfoot Corporation, Akron, Ohio. Age resistor for rubber. 2,325,202; July 27.
Coffey, Irven E., assignor to Carter Carburetor Corporation, St. Louis, Mo. Carburetor. 2,325,372; July 27.
Coghill, James T., assignor to The Noble & Wood Machine Co., Hoosick Falls, N. Y. Apparatus for separating fibers. 2,325,159; July 27.
Coil Piston Ring Company of America. (See Rothweiler, Edward B., assignor.)
Colborne, Ronald H., West Drayton, assignor to Electric & Musical Industries Limited, Hayes, Middlesex, England. Electron discharge device, including fluorescent screen. 2,325,110; July 27.
Colgate-Palmolive-Peet Company. (See Holuba, Stanley J., assignor.)
Collins, Arthur L., Berkeley, Calif. Pump. 2,325,477; July 27.
Collins, Frank H., Orange, assignor to California Fruit Growers Exchange, Los Angeles, Calif. Preserving juice. 2,325,111; July 27.
Collins, Walter H., Summit, N. J. Laundry drier. 2,325,478; July 27.
Commercial Solvents Corporation. (See Stengel, Leonard A., assignor.)
Commercial Solvents Corporation. (See Stengel, L. A., and O'Loughlin, assignors.)
Consolidated Car Heating Company. (See Tucker, A. E., and Gunnison, assignors.)
Consolidated Edison Company of New York, Inc. (See Williams, Ernest, assignor.)
Consolidated Engineering Corporation. (See Hoover, H., Jr., and Metcalf, assignors.)
Constantine, Nicholas A., Duluth, Minn. Sprayer. 2,325,112; July 27.
Container Corporation of America. (See Rothe, C. R., and Thompson, assignors.)
Co-Operative Wholsale Society Limited. (See Green, John E., assignor.)
Cook, Elmer W., New York, N. Y., and T. F. Bradley, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Lubricating composition. 2,325,040; July 27.
Cooper, Arthur H., Buckinghamshire, assignor to Electric & Musical Industries Limited, Hayes, Middlesex, England. Tuned circuits for wireless receivers. 2,325,174; July 27.
Cooper, Hugh S., Forest Hills, N. Y., assignor to Cooper-Wilford-Beryllium, Ltd., Philadelphia, Pa. Beryllium cementation. 2,325,041; July 27.
Cooper-Wilford-Beryllium, Ltd. (See Cooper, Hugh S., assignor.)
Corn Products Refining Company. (See Kelling, Alfred H., assignor.)
Cornelius, Richard T., Minneapolis, Minn. Beverage dispensing apparatus. 2,325,228; July 27.
Corse, Joseph, assignor to Eli Lilly and Company, Indianapolis, Ind. Dealkylation of α,β-bis-(p-alkoxyphenyl)-α,β-disubstituted ethanes and p,p'-dialkoxy-α,β-disubstituted stilbenes. 2,325,307; July 27.
Corsini, Umbert F., Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey. Adjustable rolling mill guide. 2,325,373; July 27.
Cotter, Thomas A., et al. (See Eaton, Philip W., assignor.)
Cover, Claude W., Portland, Oreg. Pelleting machine. 2,325,374; July 27.
Craig, James R., Kenmore, N. Y., assignor to The Linde Air Products Company. Treating welds. 2,325,113; July 27.
Craig, Robert S., Robbinsdale, assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Automatic burner control system. 2,325,229; July 27.
Crakes, Clarence S., Santa Maria, Calif. Siren. 2,325,175; July 27.
Crandall, George S. (See George, R. S., Crandall, and Nygaard.)
Crane, Edward V., assignor to E. W. Bliss Company, Brooklyn, N. Y. Notching and blank forming apparatus. 2,325,230; July 27.
Crawford, Harry H., Wellsburg, W. Va., assignor to St. Regis Paper Company, New York, N. Y. Method and apparatus for bottoming bags. 2,325,042; July 27.
Crawford, William E., Wauwatosa, assignor to A. O. Smith Corporation, Milwaukee, Wis. Electric heating and forming apparatus. 2,325,479; July 27.
Crawford, William E., Wauwatosa, assignor to A. O. Smith Corporation, Milwaukee, Wis. Apparatus for electrically upsetting pipe ends. 2,325,480; July 27.
Crawford, William E., Wauwatosa, assignor to A. O. Smith Corporation, Milwaukee, Wis. Electric forming apparatus. 2,325,481; July 27.
Crosby, Melvin A. (See Bench, D. E., and Crosby.)
Crown Can Company. (See Ayers, S. H., and Loetscher, assignors.)
Curran, Edward J., Colorado City, Tex. Glove. 2,325,482; July 27.
Curtis, Edwin S., Houston, Tex. Bottle rack. 2,325,231; July 27.
Dadant, Henry C., and R. A. Grout, Hamilton, Ill. Bee comb foundation. 2,325,043; July 27.
Daily, Robert A. (See Pritchard, W. C., and Daily.)
D'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Aminoplast modified with a malonic ester. 2,325,375; July 27.
D'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Condensation products of amidogen compounds, aldehydes, and keto-esters. 2,325,376; July 27.
Davis, Edward A. (See Leguillon, C. W., and Davis.)
Davis, Edward D., assignor to The Boye Needle Company, Chicago, Ill. Cabinet. 2,325,483; July 27.
Davis, Elwood T., Brookline, assignor to Leeds & Northrup Company, Philadelphia, Pa. Control system. 2,325,232; July 27.
Davis, Elwood T., Brookline, assignor to Leeds & Northrup Company, Philadelphia, Pa. Electrical system. 2,325,308; July 27.
Day, Roland B., and E. R. Kanhofer, assignors to Universal Oil Products Company, Chicago, Ill. Hydrocarbon conversion. 2,325,114; July 27.
Day, Roland B., and E. R. Kanhofer, assignors to Universal Oil Products Company, Chicago, Ill. Hydrocarbon conversion. 2,325,233; July 27.
De Albuquerque, Jose F. S., Rio de Janeiro, Brazil. Device for paper feed rollers. 2,325,234; July 27.
Dean, Reginald S., Salt Lake City, Utah, assignor to Chicago Development Company, Chicago, Ill. Manganese alloys. 2,325,044; July 27.
Deere & Company. (See Esbeck, Howard C., assignor.)
Deere & Company. (See Paul, Talbert W., assignor.)
Deere & Company. (See Silver, Walter H., assignor.)
Deger, Thomas E. (See Olin, J. F., and Deger.)
Deitz, Louis S., Jr., Westfield, N. J., assignor to Nassau Smelting & Refining Company, Incorporated, New York, N. Y. Refining of nonferrous metal fume. 2,325,176; July 27.
De Király, Paul, and J. Kucher, Budapest, Hungary; vested in the Alien Property Custodian. Automatic or repeating firearm. 2,325,484; July 27.
Delta Manufacturing Company. (See Tautz, Herbert E., assignor.)

Dennis, Wolcott, Stamford, Conn., assignor to Air Reduction Company, Incorporated, New York, N. Y. Production of liquid carbon dioxide. 2,325,045; July 27.
Denny, Harry W., deceased; R. M. Denny, administratrix, assignor of one-half to A. E. Stein, one-fourth to M. V. Denny, and one-fourth to R. M. Denny, Wichita, Kans. Safety razor blade holder. 2,325,485; July 27.
Denny, Marshall V., et al. (See Denny, Harry W., assignor.)
Denny, Ruth M., administratrix, et al. (See Denny, Harry W.)
Derby, Elmer R., Springfield, Mass., assignor, by mesne assignments, to Monsanto Chemical Company, St. Louis, Mo. Resin composition. 2,325,177; July 27.
Derby, Elmer R., Springfield, Mass., assignor, by mesne assignments, to Monsanto Chemical Company, St. Louis, Mo. Plasticized resin. 2,325,178; July 27.
De Rentiis, Augusto, Prospect Park, Pa. Spinning and torque measuring machine. 2,325,046; July 27.
Derungs, Ernest A., Neuilly sur Seine, France; vested in the Alien Property Custodian. Control system for motor vehicles. 2,325,486; July 27.
De Swart, Jan, Los Angeles, assignor of one-half to C. B. Jamison, Beverly Hills, Calif. Capping bottles. 2,325,309; July 27.
Deutsch, Leo E., Hammond, Ind. Lock. 2,325,310; July 27.
Dickie, Alexander M., Ontario, Calif., assignor to General Electric Company. Flatiron. 2,325,377; July 27.
Dimmick, Glenn L., Haddonfield, N. J., assignor to Radio Corporation of America. Sound recording optical system. 2,325,378; July 27.
Docherty, Michael. (See Hubner, P. O., and Docherty.)
Dodson, James R., Jr. (See Brown, C. C., Dodson, and Scott.)
Doering, Arthur R., Chicago, Ill. Measuring instrument. 2,325,179; July 27.
Donath, Ernst. (See Pier, M., and Donath.)
Donnelly, James A., Brooklyn, N. Y. Steam heating system. 2,325,487; July 27.
Donovan, Edward F., assignor to Cappel, MacDonald and Company, Dayton, Ohio. Toy scale. 2,325,488; July 27.
Dorr, Johannes. (See Roos, H., Dorr, and Koch.)
Dow Chemical Company, The. (See Kauppi, T. A., and Kolderman, assignors.)
Ducklo, Robert L., assignor to The Louis G. Freeman Company, Cincinnati, Ohio. Die for bevel cutting. 2,325,311; July 27.
Dunlop Tire and Rubber Corporation. (See McChesney, C. S., and Short, assignors.)
Duplessis, René E., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Lasting machine. 2,325,047; July 27.
Du Pont, E. I., de Nemours & Company. (See Arnold, W. P., and Boller, assignors.)
Du Pont, E. I., de Nemours & Company. (See Gladding, Ernest K., assignor.)
Du Pont, E. I., de Nemours & Company. (See Hardy, Vernal R., assignor.)
Du Pont, E. I., de Nemours & Company. (See Ingersoll, Henry G., assignor.)
Du Pont, E. I., de Nemours & Company. (See Marcotte, Louis J., assignor.)
Du Pont, E. I., de Nemours & Company. (See Marks, Barnard M., assignor.)
Du Pont, E. I., de Nemours & Company. (See Neff, William E., assignor.)
Durrum, Emmett L., Palo Alto, assignor to Shell Development Company, San Francisco, Calif. Distillation process. 2,325,379; July 27.
Eaton, James T., Wyncote, assignor to E. F. Houghton and Co. Philadelphia, Pa. Silk-soaking composition and bath. 2,325,489; July 27.
Eaton, Philip W., assignor of seven-tenths to T. A. Cotter, Boston, and three-tenths to C. E. Wilson, Brookline, Mass. Truck. 2,325,568; July 27.
Edison General Electric Appliance Company. (See Andrews, John L., assignor.)
Edson, William W., Auburndale, Mass., assignor to General Electric Company. Operating mechanism for electric switches. 2,325,382; July 27.
Edwards, Edward, Jr., Chicago, Ill. Preventing skin drying of inks, varnishes, paints, etc. 2,325,380; July 27.
Edwards, Martin A., Scotia, and D. R. Shoults, Schenectady, N. Y., assignors to General Electric Company. Control system. 2,325,381; July 27.
Egeberg, Birger, assignor to International Silver Company, Meriden, Conn. Free grinding device for steels and alloys. 2,325,180; July 27.
Egloff, Gustav, assignor to Universal Oil Products Company, Chicago, Ill. Desulphurizing hydrocarbon distillate. 2,325,115; July 27.
Ehret, Anthony. (See Bonanno, J. L., and Ehret.)
Electric Controller & Manufacturing Company, The. (See McArthur, B. E., and Myles, assignors.)
Electric Controller & Manufacturing Company, The. (See Wilcox, Harry L., assignor.)
Electric & Musical Industries Limited. (See Colborne, Ronald H., assignor.)
Electric & Musical Industries Limited. (See Cooper, Arthur H., assignor.)
Electrolux Corporation. (See Lofgren, Gustaf E., assignor.)
Elftman, Herbert O., Leonia, N. J. Pressure indicating method and apapratus. 2,325,490; July 27.
Elliott, Harrison K., Center Township, Butler County, assignor of fifty-one one-hundredths to Pittsburgh Steel Drum Company, Pittsburgh, Pa. Machinery key. 2,325,491; July 27.
Ellis, Greer, Cambridge, Mass., assignor to Magnaflux Corporation, Chicago, Ill. Determining the strain concentration in rigid articles. 2,325,116; July 27.
Elwell-Parker Electric Company, The. (See Abbe, Edward J., assignor.)
Emerson, George H., Baltimore, Md. Single drum locomotive boiler. 2,325,383; July 27.
Emmet, William L. R., Schenectady, N. Y., assignor to General Electric Company. Mercury boiler. 2,325,384; July 27.
Erickson, Wilmar L., Robbinsdale, Minn. Detachable truck unloader. 2,325,492; July 27.
Esbeck, Howard C., Silvis, assignor to Deere & Company, Moline, Ill. Wheel grapple. 2,325,235; July 27.
Eversharp, Inc. (See Moore, Fred P., assignor.)
Fabian, Constantine F., Brookfield, assignor, by mesne assignments, to The Frank H. Lee Company, Danbury, Conn. Treating fur for felting. 2,325,236; July 27.
Fairchild Aviation Corporation. (See Gaty, Clinton B., assignor.)
Faley, George J. V., Rutherford, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Vibration translating device. 2,325,117; July 27.
Falk Corporation. (See Falk, Herman W., assignor.)
Falk, Herman W., assignor to Falk Corporation, Milwaukee, Wis. Finishing gear tooth surfaces. 2,325,237; July 27.
Fanto, Emil C. (See Omohundro, A. L., and Fanto.)
Fay, Horace B., Willoughby, assignor to Gridiron Steel Company, Cleveland, Ohio. Ironing board. 2,325,493; July 27.
Fayer, William, New York, N. Y. Sportsman's garment. 2,325,494; July 27.
Ferguson, William, Philadelphia, Pa., assignor to National Airoil Burner Company, Incorporated. Oil burner. 2,325,495; July 27.
Ferro Enamel Corporation. (See Robson, J. T., Watkins, and Zimmerman, assignors.)
Fiegle, Wilford E., Hammond, and H. Langbehn, Crown Point, Ind. Railroad car link-and-pin type coupler. 2,325,118; July 27.
Filia, George J. (See Wardwell, G. W., Jr., and Filia.)
Fischer, Earl K., Long Island City, assignor to Interchemical Corporation, New York, N. Y. Latex impregnation. 2,325,385; July 27.
Fitzgerald, Alex E., Merion, assignor to General Refractories Company, Philadelphia, Pa. High alumina refractory. 2,325,181; July 27.
Fitzpatrick, Joseph L., San Francisco, Calif. Table hinge. 2,325,182; July 27.
Fleming, Jack F., assignor to W. A. Hartwig, Milwaukee, Wis. Toy. 2,325,496; July 27.
Flint, Edward F., Brighton, assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Microscope. 2,325,238; July 27.
Flint, Edward F., Brighton, assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Microscope. 2,325,239; July 27.
Flowers, Paul E., Mount Gilead, Ohio, assignor to The Hydraulic Development Corporation, Inc., Wilmington, Del. Slug producing press. 2,325,119; July 27.
Floyd, John M., Shorewood, assignor to A. O. Smith Corporation, Milwaukee, Wis. Head for enameled tanks. 2,325,497; July 27.
Floyd, John M., Shorewood, assignor to A. O. Smith Corporation, Milwaukee, Wis. Die for electrical forging machines. 2,325,498; July 27.
Follender, Otto, East Islip, N. Y. Time measuring indicator. 2,325,312; July 27.
Fornet, Artur, Berlin, Germany; vested in the Alien Property Custodian. Method of and device for facilitating the reading of manuscripts. 2,325,499; July 27.
Forse, Harry D., Anderson, Ind. Developing apparatus. 2,325,120; July 27.
Forster, John S., Pittsburgh, and S. W. Herwald, Wilkinsburg, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Gyroscope. 2,325,048; July 27.
Fosberg, Henry C., assignor to Watson Manufacturing Company, Inc., Jamestown, N. Y. Framed screen. 2,325,500; July 27.
Frank, Paul A., Akron, Ohio. Filter and making the same. 2,325,386; July 27.
Frankfort Distilleries, Incorporated. (See Bryant, Thomas H., Sr., assignor.)
Frederickson, Ernst W., Stockholm, Sweden. Work clamping device. 2,325,387; July 27.
Freeman, Louis G., Company, The. (See Ducklo, Robert L., assignor.)
Freeman, Malcolm H., Maryville, Tenn., assignor to Aluminum Company of America, Pittsburgh, Pa. Coil handling apparatus. 2,325,121; July 27.
Fricke, Dot L., executrix. (See Booty, Philip C. P., assignor.)
Fricke, Leslie W. (See Booty, Philip C. P., assignor.
Friden Calculating Machine Co. (See Friden, Carl M., assignor.)

Friden, Carl M., Oakland, Calif., assignor to Friden Calculating Machine Co., Inc. Calculating machine. 2,325,388; July 27.

Frye, Henry H., and A. R. Behnke, U. S. Navy. Breathing apparatus. 2,325,049; July 27.

Gardner, William R., Gary, Ind. Weather surface covering. 2,325,124; July 27.

Gardner, William R., and M. V. Hamilton, Gary, Ind. Hold-down control for slab squeezers. 2,325,389; July 27.

Garman, George W., Glenville, N. Y., assignor to General Electric Company. Electric valve translating system. 2,325,390; July 27.

Gaty, Clinton B., assignor to Fairchild Aviation Corporation, Jamaica, Long Island, N. Y. Electrical connector. 2,325,313; July 27.

Gedris, Stanley J., Grand Rapids, Mich. Molding machine. 2,325,501; July 27.

Geigy, J. R., S. A. (See Martin, H., and Stammbach, assignors.)

General Electric Company. (See Bany, Herman, assignor.)

General Electric Company. (See Brown, George M., assignor.)

General Electric Company. (See D'Alelio, Gaetano F., assignor.)

General Electric Company. (See Dickie, Alexander M., assignor.)

General Electric Company. (See Edson, William W., assignor.)

General Electric Company. (See Edwards, M. A., and Shoults, assignors.)

General Electric Company. (See Emmet, William L. R., assignor.)

General Electric Company. (See Garman, George W., assignor.)

General Electric Company. (See Irons, Davison E., assignor.)

General Electric Company. (See Kaufmann, Richard H., assignor.)

General Electric Company. (See Simpson, W. P., and Stewart, assignors.)

General Electric Company. (See Stiles, Harry L., assignor.)

General Electric Company. (See Thomas, H. C., and Lynch, assignors.)

General Electric Company. (See Townsend, George R., assignor.)

General Electric Company. (See Wardwell, George W., Jr., assignor.)

General Electric Company. (See Wardwell, G. W., Jr., and Filia, assignors.)

General Electric Company. (See Weeks, Walter R., assignor.)

General Motors Corporation. (See Carney, Clifford R., assignor.)

General Motors Corporation. (See Houston, John F., assignor.)

General Motors Corporation. (See McKinley, Charles W., assignor.)

General Motors Corporation. (See Poole, Lora E., assignor.)

General Motors Corporation. (See Pritchard, W. C., and Daily, assignors.)

General Motors Corporation. (See Reynolds, Harold A., assignor.)

General Motors Corporation. (See Shippy, Leo C., assignor.)

General Motors Corporation. (See Wening, Herman E., assignor.)

General Motors Corporation. (See Wilson, Ernest E., assignor.)

General Printing Ink Corporation. (See Barmeier, Floyd E., assignor.)

General Refractories Company. (See Fitzgerald, Alex E., assignor.)

General Register Corporation. (See Helsel, Reuben H., assignor.)

Gent, Edgar W., Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Hand tool for testing springs. 2,325,125; July 27.

George, Richard S., State College, Pa., and G. S. Crandall and E. M. Nygaard, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Preparing organic thionitrites. 2,325,391; July 27.

Georges, Auguste F., Uccle-Brussels, Belgium; vested in the Alien Property Custodian. Speed varying devices. 2,325,502; July 27.

Giddings & Lewis Machine Tool Co. (See Woytych, Raymond M., assignor.)

Giesler, Jean V., Knoxville, Tenn., assignor, by mesne assignments, to Reynolds Metals Company, New York, N. Y. Coating strips. 2,325,126; July 27.

Gill, Lowell O., assignor to A. E. Staley Manufacturing Company, Decatur, Ill. Metal coating process. 2,325,240; July 27.

Gilmore, James F., assignor of one-half to V. Riley, Kalispell, Mont. Automatic feeding apparatus for steam boilers. 2,325,241; July 27.

Gladding, Ernest K., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Yarn package. 2,325,127; July 27.

Goble, Bert G., Tulsa, Okla. Combination sand pump and bailer. 2,325,503; July 27.

Godwin, Clifford B., University City, Mo. Gearing. 2,325,392; July 27.

Goins, Alfred C., Gary, Ind., assignor to Carnegie-Illinois Steel Corporation. Belt wrapper guard. 2,325,504; July 27.

Goodman Manufacturing Company. (See Wood, Frank J., assignor.)

Goodrich, B. F., Company, The. (See Haushalter, F. L., and Horchitz, assignors.)

Goodrich, B. F., Company, The. (See Leguillon, C. W., and Davis, assignors.)

Goodrich, B. F., Company, The. (See Mathes, R. A., and Jones, assignors.)

Goodson, Luke B. (See Montgomery, J. V., and Goodson.)

Goodwin, Carl W., Plainfield, N. J., assignor to American Seal-Kap Corporation of Delaware, Wilmington, Del. Capping head. 2,325,160; July 27.

Goodwin, Carl W., Plainfield, N. J., assignor to American Seal-Kap Corporation of Delaware, Wilmington, Del. Picker mechanism. 2,325,164; July 27.

Goodwin, Carl W., Plainfield, N. J., assignor to American Seal-Kap Corporation of Delaware, Wilmington, Del. Remote photoelectric control. 2,325,165; July 27.

Goodwin, Carl W., Plainfield, N. J., and H. W. Martin, Malverne, N. Y., assignors to American Seal-Kap Corporation of Delaware, Wilmington, Del. Cap feed and heating apparatus. 2,325,050; July 27.

Goodwin, Carl W., Plainfield, N. J., and H. W. Martin, Malverne, N. Y., assignors to American Seal-Kap Corporation of Delaware, Wilmington, Del. Forming press. 2,325,161; July 27.

Goodwin, Carl W., Plainfield, N. J., and H. G. Vore, Jackson Heights, N. Y., assignors to American Seal-Kap Corporation of Delaware, Wilmington, Del. Coating machine. 2,325,162; July 27.

Goodwin, Carl W., Plainfield, N. J., and H. W. Martin, Malverne, N. Y., assignors to American Seal-Kap Corporation of Delaware, Wilmington, Del. Capping machine. 2,325,163; July 27.

Gordon, Arthur, Chicago, Ill. Mixing unit. 2,325,242; July 27.

Gorospe, Francisco P., Wayne, Pa. Game apparatus. 2,325,243; July 27.

Goy, András, Budapest, Hungary; vested in the Alien Property Custodian. Justifying mechanism for typewriters and the like. 2,325,505; July 27.

Grace, Harold S., New Orleans, La. Combined welder's shield and supply container. 2,325,506; July 27.

Grady, J. H., Manufacturing Company. (See Grady, John H., assignor.)

Grady, John H., assignor to J. H. Grady Manufacturing Company, St. Louis, Mo. Ball. 2,325,128; July 27.

Graham, Davis P. (See Vroom, R. C., and Graham.)

Graham, Jesse B., assignor of one-half to S. E. Stensrud, San Diego, Calif. Coin operated typewriter control apparatus. 2,325,244; July 27.

Green, John E., Stretford, Manchester, assignor to Co-Operative Wholesale Society Limited, Manchester, England. Manufacture of margarine and cooking fats. 2,325,393; July 27.

Gridiron Steel Company. (See Fay, Horace B., assignor.)

Grimes, Charles P. (See Bretzlaff, W. H., and Grimes.)

Groshans, Leonard A. (See Wiley, E. G., Groshans, and McNeil.)

Gross, Charles V., Penfield, Pa., assignor to The S. S. White Dental Manufacturing Company. Dental impression compound. 2,325,051; July 27.

Grosse, Aristid V., Bronxville, N. Y., and C. B. Linn, assignors to Universal Oil Products Company, Chicago, Ill. Alkylation of paraffin hydrocarbons. 2,325,052; July 27.

Grout, Roy A. (See Dadant, H. C., and Grout.)

Guiberson Corporation, The. (See Taylor, R. G., Jr., and Hooser, assignors.)

Guirl, Howard P., East Chicago, Ind., and F. G. Troppman, Lansing, Ill., assignors to The Superheater Company. Projection welding machine. 2,325,507; July 27.

Gunnison, George S. (See Tucker, A. E., and Gunnison.)

Haas, Otto, Richmond Hill, and J. R. Hawkins, Flushing, assignors to Aircraft Screw Products Company, Inc., Long Island City, N. Y. Expanding and staking tool. 2,325,508; July 27.

Habart, Herbert, and H. W. Hudson, Ellwood City, Pa., assignors to National Tube Company. Making hollow articles. 2,325,314; July 27.

Haberman, Max, Forest Hills, N. Y. Hair-waving clip. 2,325,315; July 27.

Haberman, Max, Forest Hills, N. Y. Hair curling device. 2,325,316; July 27.

Haddad, Jerrier. (See Leathers, W., and Haddad.)

Haehnel, Wolfram. (See Herrmann, W. O., and Haehnel.)

Hahn, Joel, Beatrice, Nebr. Plier type wrench. 2,325,245; July 27.

Hakki, Ismail, New York, N. Y. Electrode holder. 2,325,394; July 27.

Halen, Charles A., San Diego, Calif. Hair cutting comb apparatus. 2,325,246; July 27.

Halitsky, Edward. (See Axler, M. H., and Halitsky.)

Hamilton, Merrill V. (See Gardner, W. R., and Hamilton.)

Hammond, Grant, West Haven, assignor to Auto-Ordnance Corporation, Bridgeport, Conn. Firearm bolt stop. 2,325,395; July 27.

Hancock, Virgil H., Columbia, La., and R. W. Bennett, Chicago, Ill. Eye testing device. 2,325,509; July 27.

Hanna, Atto N., Orange, N. J. Filing device. 2,325,317; July 27.

Hardy, Vernal R., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Yarn finishing. 2,325,129; July 27.

Harmon, Frank B., Clifton, N. J., assignor of one-half to I. M. Blum, Hewlett, Long Island, N. Y. Measuring device. 2,325,130; July 27.

Harris, Stanton A., Westfield, assignor to Merck & Co., Inc., Rahway, N. J. Vitamin B_6 and related compounds. 2,325,053; July 27.

Harrison, William H., Los Angeles, Calif. Continuous motion optical apparatus. 2,325,131; July 27.

Hartwig, Walter A. (See Fleming, Jack F., assignor.)

Hastings, Russell, Jr., Wellesley, assignor to Lewis-Shepard Company, Watertown, Mass. Truck having booster mechanism. 2,325,396; July 27.

Hastwell, Henry W., Hobart, Tasmania, Australia. Pea shelling apparatus. 2,325,509; July 27.

Haushalter, Fred L., Akron, Ohio, and L. L. Horchitz, Los Angeles, Calif., assignor to The B. F. Goodrich Company, New York, N. Y. Protector for drill stems. 2,325,132; July 27.

Hawkins, James R. (See Hass, O., and Hawkins.)

Hawthorne, Charles W., assignor to Morgan Construction Company, Worcester, Mass. Rolling mill guide. 2,325,397; July 27.

Hayes, Oswald G., North Hempsted, assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Transfer device. 2,325,203; July 27.

Heaps, William B. (See Willis, Edward E., assignor.)

Hearne, George W., and G. A. Stenmark, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Production of conjugated poly-olefins. 2,325,398; July 27.

Heggie, James, Clydebank, Scotland, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Feeding mechanism for sewing machines. 2,325,510; July 27.

Heintzen, Harry R., Philadelphia, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Refrigeration apparatus. 2,325,511; July 27.

Helfenstein, John, Bismarck, N. Dak. Combination fish-hook. 2,325,247; July 27.

Helsel, Reuben H., Long Island City, assignor to General Register Corporation, New York, N. Y. Ticket issuing machine. 2,325,054; July 27.

Hendrix, Houston W., Overbrook Hills, Pa. Pulverized coal burner. 2,325,318; July 27.

Hepp, Werner, Berlin, Germany; vested in the Alien Property Custodian. Audio amplifier response control. 2,325,512; July 27.

Hercules Powder Company. (See Borglin, Joseph N., assignor.)

Hercules Powder Company. (See Lawrence, Robert W., assignor.)

Hercules Powder Company. (See Lister, Donald A., assignor.)

Heritage, Clark C., assignor to Wood Conversion Company, Cloquet, Minn. Thermal insulation. 2,325,055; July 27.

Herrmann, Willy O., Diesenhofen, and W. Haehnel, Munich, Germany; vested in the Alien Property Custodian. Halides of polyvinyl compounds. 2,325,513; July 27.

Herwald, Seymour W. (See Forster, J. S., and Herwald.)

Hess, Alexander M., Jamaica, N. Y. Means for forming plaits. 2,325,056; July 27.

Hester, William F., Drexel Hill, assignor to Röhm & Haas Company, Philadelphia, Pa. Insecticidal compositions containing polyetheramines. 2,325,514; July 27.

Higgins, George. (See Lindberg, Charles A., assignor.)

Hill, Hermann, assignor to Magazine Repeating Razor Company, Bridgeport, Conn. Blade loading machine. 2,325,133; July 27.

Hoffman, Andrew. (See Bock, Charles S., assignor.)

Hofgesang, William, Avenel, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Darning device. 2,325,515; July 27.

Hofmann, Alfred, Inc. (See Straussberger, Hans J., assignor.)

Holmes, Joseph B., Los Angeles, Calif., and L. H. Tiley, Fort Collins, Colo. Vehicle signal. 2,325,319; July 27.

Holt, Benjamin M., and G. E. Liedholm, Long Beach, Calif., assignors to Shell Development Company, San Francisco, Calif. Apparatus for executing reactions with the aid of regenerative contact materials. 2,325,516; July 27.

Holt, Grover J. (See Rakowsky, V., Holt, and Arms.)

Holuba, Stanley J., North Bergen, assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J. Neutralization. 2,325,320; July 27.

Hooser, Donald B. (See Taylor, R. G., Jr., and Hooser.)

Hoover, Herbert, Jr., Sierra Madre, and H. E. Metcalf, San Francisco, assignors to Consolidated Engineering Corporation, Pasadena, Calif. Obtaining soil samples. 2,325,057; July 27.

Hoover, Myron M., Superior, Wis., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Dispenser for liner-wound tape. 2,325,400; July 27.

Hopkins, Herbert H., San Francisco, and G. E. Becker, Fresno, Calif. Dredge. 2,325,134; July 27.

Hopper, Pressley E., Dallas, Tex. Means and method for separating lint fibers from cotton seeds and cleaning lint fibers by air washing. 2,325,183; July 27.

Horchitz, Leon L. (See Haushalter, F. L., and Horchitz.)

Hotchkiss, E. H., Company, The. (See Polzer, Fridolin, assignor.)

Houghton-Butcher Manufacturing Company. (See Thomas, Hugh K., assignor.)

Houghton, E. F., and Co. (See Eaton, James T., assignor.)

Houk, Alva L. (See Bock, L. H., and Houk.)

Houston, John F., Flint, assignor to General Motors Corporation, Detroit, Mich. Oil filter. 2,325,399; July 27.

Howard, Ernest R., Ridgewood, assignor to The H. A. Wilson Company, Newark, N. J. Temperature determination. 2,325,058; July 27.

Howard, Robert O., Redding, Calif. Sandblast nozzle. 2,325,517; July 27.

Hubner, Paul O., Rosettenville, Johannesburg, and M. Docherty, Germiston, Transvaal, Union of South Africa. Knee protectors, elbow guards and the like. 2,325,321; July 27.

Hudson, Harry W. (See Habart, H., and Hudson.)

Huffman, Samuel A., Avalon, assignor to Miller Printing Machinery Co., Pittsburgh, Pa. Sheet handling apparatus. 2,325,059; July 27.

Huggins, Owen R., South Norwalk, Conn., assignor to Linotone Corporation. Printing member. 2,325,135; July 27.

Hurliston, George J., Pittsburgh, Pa., assignor to Carnegie-Illinois Steel Corporation. Electroplating apparatus. 2,325,401; July 27.

Hussman-Ligonier Company. (See McMillan, William B., assignor.)

Hutchinson, Robert H., Dallas, Tex. Grille construction. 2,325,402; July 27.

Hyde Manufacturing Company. (See Bingley, Harry G., assignor.)

Hydraulic Brake Company. (See Swift, Harvey C., assignor.)

Hydraulic Development Corporation, Inc., The. (See Flowers, Paul E., assignor.)

Hydraulic Development Corporation, Inc., The. (See Muller, Johan A., assignor.)

Hydraulic Development Corporation, Inc., The. (See Tucker, Warren R., assignor.)

Hyman, Henry. (See Muldoon, Bernard F., assignor.)

Illiano, Arthur, Waterbury, Conn. Emergency tire lighting apparatus. 2,325,403; July 27.

Imperial Chemical Industries Limited. (See Lefebure, Victor, assignor.)

Indium Corporation of America. (See Murray, William S., assignor.)

Industrial Patents Corporation. (See Walter, Charles T., assignor.)

Ingersoll, Henry G., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Nonshrinking yarn. 2,325,060; July 27.

Inserting and Mailing Machine Company. (See Williams, Albert H., assignor.)

Interchemical Corporation. (See Bernstein, Isidor M., assignor.)

Interchemical Corporation. (See Fischer, Earl K., assignor.)

International Business Machines Corporation. (See Leathers, W., and Haddad, assignors.)

International Silver Company. (See Egeberg, Birger, assignor.)

Ipatieff, Vladimir N. and H. Pines, assignors to Universal Oil Products Company, Chicago, Ill. Treatment of butane. 2,325,122; July 27.

Irons, Davison E., Marblehead, Mass., assignor to General Electric Company. Thrust bearing arrangement. 2,325,404; July 27.

Isenberg, Stanley, Chicago, Ill. Spray head. 2,325,123; July 27.

Iverson, William E. (See Schleicher, H. M., and Iverson.)

Jack & Heintz, Inc. (See Carlson, Bert G., assignor.)

Jackson, Charles F., assignor to Reynolds Spring Company, Jackson, Mich. Clip applying mechanism. 2,325,322; July 27.

Jacobs, F. L., Co. (See Westrope, Frederick J., assignor.)

Jacobsen Manufacturing Company. (See Krenzke, William F., assignor.)

Jagosz, Walter, Detroit, Mich. Spacing device for punch presses and the like. 2,325,405; July 27.

James Manufacturing Company. (See Willett, W. M., Markey, and Olson, assignors.)

Jamison, C. Bland. (See de Swart, Jan, assignor.)

Jampoler, Herbert O. M., Providence, R. I. Adjustable releasing tap holder. 2,325,184; July 27.

Jensen, Svend H. (See Petersen, O., and Jensen.)

Johnson, Carl E., San Marino, E. Mendenhall, San Gabriel, and B. N. Palm, San Marino, assignors to Sterling Electric Motors, Inc., Los Angeles, Calif. Variable speed transmission device. 2,325,323; July 27.

Johnson Laboratories, Inc. (See Schaper, William A., assignor.)
Johnson, Oscar W., Rochester, N. Y., assignor to The American Laundry Machinery Company, Norwood, Ohio. Cover lock and extractor control. 2,325,406; July 27.
Johnstone, Robert L., University City, Mo. Vibrator. 2,325,248; July 27.
Jones, Burr W., Elmira Heights, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Engine starter gearing. 2,325,518; July 27.
Jones, Paul C. (See Mathes, R. A., and Jones.)
Jorgenson, Arthur P., assignor to Roan Mfg. Co., Racine, Wis. Delayed action interrupter electric impulse apparatus. 2,325,249; July 27.
Kanhofer, Elmer R. (See Day, R. B., and Kanhofer.)
Kassel, Louis S., assignor to Universal Oil Products Company, Chicago, Ill. Effecting catalyzed reactions. 2,325,136; July 27.
Kate, Blanche H., Minneapolis, Minn. Telephone assembly. 2,325,185; July 27.
Katzen, Raphael, and R. H. Plow, Phelps, Wis., and E. T. Olson, Pittsburgh, Pa., assignors to Northwood Chemical Company, Phelps, Wis. Lignocellulose for molding compounds. 2,325,570; July 27.
Kaufman, Hiram J., Detroit, Mich. Humidity control device. 2,325,061; July 27.
Kaufmann, Richard H., Schenectady, N. Y., assignor to General Electric Company. Dynamo-electric machine. 2,325,407; July 27.
Kauppi, Toivo A., and R. W. Kolderman, assignors to The Dow Chemical Company, Midland, Mich. Coated glassine paper. 2,325,408; July 27.
Keaney, Francis A., Brockton, Mass., assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J. Shoe upper lacing machine. 2,325,137; July 27.
Kelling, Alfred H., Oak Park, Ill., assignor, by mesne assignments, to Corn Products Refining Company, New York, N. Y. Manufacture of starch. 2,325,250; July 27.
Kellogg Switchboard and Supply Company. (See Saunders, Norman H., assignor.)
Kent, Arthur A., Los Angeles, Calif. Reading apparatus. 2,325,324; July 27.
Kiene, William J., Chicago, Ill. Valve. 2,325,325; July 27.
Kiene, William J., Chicago, Ill. Dampening and motion transmission mechanism for gauges. 2,325,326; July 27.
Kilborn, Karl B., assignor to Wingfoot Corporation, Akron, Ohio. Method and apparatus for vulcanizing belts. 2,325,204; July 27.
Knisely, James D., Seattle, Wash. Storage battery charge indicator. 2,325,251; July 27.
Koch, Josef, Siegburg, Germany; vested in the Alien Property Custodian. Producing printing forms from colloids. 2,325,519; July 27.
Koch, Wilhelm T. (See Roos, H., Dorr, and Koch.)
Kolderman, Roger W. (See Kauppi, T. A., and Kolderman.)
Kraft Cheese Company. (See Beers, William O., assignor.)
Krenzke, William F., assignor to Jacobsen Manufacturing Company, Racine, Wis. Tractor mounted and controlled gang lawn mower. 2,325,252; July 27.
Krijger, Willem J., Deventer, Netherlands; vested in the Alien Property Custodian. Pile fabric. 2,325,520; July 27.
Kritchevsky, Wolf, assignor to Ninol Development Company, Chicago, Ill. Acid-reacting derivatives of alcohol amine condensation products. 2,325,062; July 27.
Krueger, Theodore H., Stratford, Conn., assignor to Better Packages Incorporated. Strip serving machine. 2,325,063; July 27.
Kucher, József. (See de Király, P., and Kucher.)
Kyle, Samuel C., San Francisco, and I. M. White, Oakland, assignors to The Pelton Water Wheel Company, San Francisco, Calif. Hydraulic pumping jack. 2,325,138; July 27.
Lachle, Frank B., San Mateo, assignor to The Schwarz Engineering Company, Inc., San Francisco, Calif. Oil extraction. 2,325,327; July 27.
Lachle, Frank B., San Mateo, assignor to The Schwarz Engineering Company, Inc., San Francisco, Calif. Oil extraction. 2,325,328; July 27.
Laging, Werner E., Spring Valley, Minn. Periscope. 2,325,253; July 27.
Lambert, Roger E., Paris, France; vested in the Alien Property Custodian. Electric furnace for the manufacture of condensable products. 2,325,521; July 27.
Laminated Shim Company. (See Young, Earle L., assignor.)
Landa, Sarah, New York, N. Y. Multiplex pattern. 2,325,329; July 27.
Langbehn, Hans. (See Fiegle, W. E., and Langbehn.)
Larson, Carl H., Elkhart, Ind., assignor to The Adlake Company. Mercury switch relay. 2,325,186; July 27.
Lauer, Ambrosius, Posen, and W. Lauer, Karlsruhe, Germany; vested in the Alien Property Custodian. Apparatus for contracting the ends of hollow bodies. 2,325,522; July 27.
Lauer, Willy. (See Lauer, A., and W.)
Lawrence, Robert W., assignor to Hercules Powder Company, Wilmington, Del. Explosive composition. 2,325,064; July 27.
Lawrence, Robert W., assignor to Hercules Powder Company, Wilmington, Del. Explosive composition. 2,325,065; July 27.
Leathers, Ward, and J. Haddad, Brooklyn, assignors to International Business Machines Corporation, New York, N. Y. Meter reading apparatus. 2,325,409; July 27.
Lee, Frank H., Company, The. (See Fabian, Constantine F., assignor.)
Leeds & Northrup Company. (See Davis, Elwood T., assignor.)
Lefebure, Victor, London, England, assignor to Imperial Chemical Industries Limited. Partition construction. 2,325,254; July 27.
Leguillon, Charles W., and E. A. Davis, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Apparatus for making strip material. 2,325,139; July 27.
Lenz, William A., Lebanon, Mo. Photoprint washer. 2,325,255; July 27.
Leonard, Roy E., Alhambra, Calif. Fluid-operated pump. 2,325,256; July 27.
Lermont, Basil, New York, and A. M. Wolf, assignors to Cairns Corporation, Brooklyn, N. Y. Metal rolling and bending device. 2,325,523; July 27.
Lewis, Arthur P., Fairhaven, Mass. Loom picker. 2,325,187; July 27.
Lewis, Richard S., assignor to Pioneer Rubber Company, Willard, Ohio. Rubber glove. 2,325,330; July 27.
Lewis-Shepard Company. (See Hastings, Russell, Jr., assignor.)
Liedholm, George E. (See Holt, B. M., and Liedholm.)
Lilly, Eli, and Company. (See Corse, Joseph, assignor.)
Lilly, Eli, and Company. (See Shonle, H. A., and Van Arendonk, assignors.)
Lilly-Tulip Cup Corporation. (See Terry, Clifford B., assignor.)
Lindberg, Charles A., assignor to George Higgins, White Pigeon, Mich. Turning rack for incubators. 2,325,140; July 27.
Linde Air Products Company, The. (See Bucknam, James H., assignor.)
Linde Air Products Company, The. (See Craig, James R., assignor.)
Line Material Company. (See Steinmayer, Alwin G., assignor.)
Links, Heinz, Gaggenau, Germany; vested in the Alien Property Custodian. Fuel injection pump. 2,325,524; July 27.
Linn, Carl B. (See Grosse, A. V., and Linn.)
Linotone Corporation. (See Huggins, Owen R., assignor.)
Lionel Corporation, The. (See Bonanno, Joseph L., assignor.)
Lionel Corporation, The. (See Bonanno, J. L., and Ehret, assignors.)
Lipsius, Sol T. (See Buxton, L. O., and Lipsius.)
Lipton, Sarah. (See Brill, R. L., and Lipton.)
Lister, Donald A., Brunswick, Ga., assignor to Hercules Powder Company, Wilmington, Del. Refining of rosin and rosin derivatives. 2,325,410; July 27.
Lloyd, Elmer J., Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey. Chair. 2,325,141; July 27.
Lodge, Edmund G., assignor to Stackpole Carbon Company, St. Marys, Pa. Current interrupting device. 2,325,142; July 27.
Loetscher, David L. (See Ayers, S. H., and Loetscher.)
Lofgren, Gustaf E., Riverside, Conn., assignor to Electrolux Corporation, New York, N. Y. Vacuum cleaner. 2,325,188; July 27.
Loker, Elmer H., Sergeant Bluff, Iowa. Milk strainer. 2,325,257; July 27.
Losala, Inc. (See Sahlmann, Max, assignor.)
Luerssen, George V. (See Wright, F. L., and Luerssen.)
Lukenbill, Emery D., Indianapolis, Ind. Golf club. 2,325,525; July 27.
Lynch, Edward E. (See Thomas, H. C., and Lynch.)
Lynch, Kathryn L., Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y. Mercury derivatives of esters of sulphocarboxylic acids. 2,325,411; July 27.
Lyttle, Harry D., New York, N. Y. Dress construction. 2,325,143; July 27.
Magazine Repeating Razor Company. (See Hill, Hermann, assignor.)
Magnaflux Corporation. (See Ellis, Greer, assignor.)
Magnesium Elektron Limited. (See Bushrod, Charles J., assignor.)
Major, Wayne H., Fort Wayne, Ind. Postman's umbrella attachment. 2,325,526; July 27.
Mallory, Vernon L., San Antonio, assignor of seventy per cent to S. S. Nye, Brownsville, Tex. Lighting system. 2,325,258; July 27.
Marcotte, Louis J., Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Removal of nitrogen oxide from gases. 2,325,066; July 27.
Marinsky, Isaac, Providence, R. I. Integral separable fastener. 2,325,332; July 27.
Markey, George T. (See Willett, W. M., Markey, and Olson.)

Marks, Barnard M., Newark, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Process and apparatus for polymerization. 2,325,067; July 27.
Marsh, Richard C., Detroit, Mich. Dynamic balancing machine. 2,325,144; July 27.
Martin, Edward G., Portland, Oreg. Tobacco pipe. 2,325,412; July 27.
Martin, Harold W. (See Goodwin, C. W., and Martin.)
Martin, Harold W., Malverne, N. Y., assignor to American Seal-Kap Corporation of Delaware, Wilmington, Del. Cap applying apparatus. 2,325,166; July 27.
Martin, Henry, and W. Stambach, assignors to the firm J. R. Geigy S. A., Basel, Switzerland. Amino acid amide derivatives and their manufacture. 2,325,331; July 27.
Martin, William T., assignor to Beech-Nut Packing Company, Canajoharie, N. Y. Forming packages. 2,325,145; July 27.
Mathes, Roger A., Akron, and P. C. Jones, Silver Lake, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Vulcanization accelerator. 2,325,259; July 27.
May, William J., Farnborough, England. Barrier for antitank and like purposes. 2,325,260; July 27.
Mayers, Karl F., Somerville, assignor to National Union Radio Corporation, Elizabeth, N. J. Tube structure. 2,325,527; July 27.
Mazzella, Antonio, New Haven, Conn. Producing hoisting slings. 2,325,261; July 27.
McArthur, Bruce E., East Cleveland, and Asa H. Myles, Solon, assignors to The Electric Controller & Manufacturing Company, Cleveland, Ohio. Master switch and control system combination. 2,325,413; July 27.
McChesney, Cuyler S., Kenmore, and J. W. Short, assignors to Dunlop Tire and Rubber Corporation, Buffalo, N. Y. Conductive rubber flooring. 2,325,414; July 27.
McCollum, Henry J. D., Chicago, Ill. Valve for automobile heaters. 2,325,189; July 27.
McDannel, Clarence H. and C. O., Caldwell, Idaho. Liquid injecting device. 2,325,262; July 27.
McDannel, Clarence O. (See McDannel, Clarence H. and C. O.)
McElhinney, John H., assignor to Wheeling Steel Corporation, Wheeling, W. Va. Metal rolling. 2,325,190; July 27.
McGowan, Harold, Central Islip, assignor of one-half to B. Raskin, Brightwaters, N. Y. One-piece plywood corner unit. 2,325,528; July 27.
McGraw Electric Company. (See Scharf, Frank W., assignor.)
McKendrick, Charles, Edinburgh, Scotland. Combined cold and hot water spray and shampoo fitting. 2,325,333; July 27.
McKesson & Robbins, Incorporated. (See Omohundro, A. L., and Fanto, assignors.)
McKinley, Charles W., Flint, assignor to General Motors Corporation, Detroit, Mich. Blinker gauge. 2,325,415; July 27.
McLaughlin, John J., assignor to Chicago Development Company, Chicago, Ill. Preparation of alloys from electrolytic manganese. 2,325,068; July 27.
McMahon, George F., assignor to Schweitzer & Conrad, Inc., Chicago, Ill. Arc extinguishing means. 2,325,416; July 27.
McMillan, William B., Clayton, assignor to Hussman-Ligonier Company, St. Louis, Mo. Sliding door construction for display cabinets. 2,325,263; July 27.
McMurray, Frederick R. (See Merrill, P. D., and McMurray.)
McNeil, Claude P. (See Wiley, E. G., Groshans, and McNeil.)
Meeson, Edwin L., Coventry, England. Diamond and the like cutting tool. 2,325,334; July 27.
Mendenhall, Earl. (See Johnson, C. E., Mendenhall, and Palm.)
Meredith, Frederick W., assignor to S. Smith & Sons (Motor Accessories) Limited, London, England. Fluid driven gyroscope. 2,325,530; July 27.
Merck & Co. (See Tishler, Max., assignor.)
Merck & Co. (See Harris, Stanton A., assignor.)
Merrill, Edward C., West Roxbury, assignor to United Drug Company, Boston, Mass. Cough drop. 2,325,529; July 27.
Merrill, Patterson D., and F. R. McMurray, assignors to M. B. Skinner Company, South Bend, Ind. Sealing pipe leaks. 2,325,417; July 27.
Merten, Eugen, Houston, Tex., assignor to Shell Development Company, San Francisco, Calif. Hydraulic drilling device. 2,325,264; July 27.
Mertens, Willi, Berlin-Zehlendorf, Germany; vested in the Alien Property Custodian. Producing coatings. 2,325,531; July 27.
Metcalf, Herbert E. (See Hoover, H., Jr., and Metcalf.)
Meyers, Michael, Gary, Ind. Sheet catcher. 2,325,418; July 27.
Meyers, Otto B., Quakertown, Pa. Film-feeding mechanism for moving picture cameras and projectors. 2,325,335; July 27.
Mikan, Victor, Durand, Mich. Excavator. 2,325,336; July 27.
Miller, John R., Reno, Nev., assignor to National Automotive Fibres, Inc., Detroit, Mich. Pad manufacture. 2,325,265; July 27.
Miller, Otto H., Union City, N. J. Boat operated by motive vehicles. 2,325,532; July 27.
Miller Printing Machinery Co. (See Huffman, Samuel A., assignor.)
Miller, Samuel J., Corpus Christi, Tex. Disk harrow. 2,325,337; July 27.
Minard, Everett S., San Francisco, Calif., assignor, by mesne assignments, to The Pfaudler Co., Rochester, N. Y. Liquid filling valve. 2,325,419; July 27.
Minerals Beneficiation Incorporated. (See Rakowsky, V., Holt, and Arms, assignors.)
Minneapolis-Honeywell Regulator Company. (See Craig, Robert S., assignor.)
Minnesota Mining & Manufacturing Company. (See Hoover, Myran M., assignor.)
Molins Machine Company. (See Pembroke, George F., assignor.)
Molnar, Charles L., assignor to Chicago Flexible Shaft Company, Chicago, Ill. Making parts for comb units and the like. 2,325,205; July 27.
Monroe Calculating Machine Company. (See Britten, Edwin F., Jr., assignor.)
Monsanto Chemical Company. (See Derby, Elmer R., assignor.)
Monsanto Chemical Company. (See Sibley, Robert L., assignor.)
Montgomery, Donald H., West Hartford, assignor to The New Britain Machine Company, New Britain, Conn. Forming slide stop. 2,325,571; July 27.
Montgomery, James V., Okmulgee, Okla., and L. B. Goodson, Phillips, Tex., assignors to Phillips Petroleum Company. Lubricant. 2,325,533; July 27.
Moore, Fred P., assignor to Eversharp, Inc., Chicago, Ill. Fountain pen. 2,325,069; July 27.
Morgan Construction Company. (See Hawthorne, Charles W., assignor.)
Morrell, George, Corporation. (See Pellerano, Silvio, assignor.)
Mortimer, Frank P., Pottsville, Pa. Ornamental device. 2,325,191; July 27.
Mozdy, Charles B., San Diego, Calif. Shear sharpener. 2,325,266; July 27.
Muench, Carl G., New Orleans, La., assignor to The Celotex Corporation, Chicago, Ill. Apparatus for felting fibrous sheets. 2,325,338; July 27.
Muldoon, Bernard F., Mountain View, N. J., assignor to Henry Hyman, Brooklyn, N. Y. Dry battery cell. 2,325,070; July 27.
Muller, Johan A., Dayton, Ohio, assignor to The Hydraulic Development Corporation, Inc., Wilmington, Del. Drawing press. 2,325,146; July 27.
Murphy, Thomas J., Stamford, Conn. Dry shaver cutter head. 2,325,267; July 27.
Murray Deodorisers Limited. (See Murray, Henry L., assignor.)
Murray, Henry L., Epsom, Auckland, assignor to Murray Deodorisers Limited, Auckland, New Zealand. Treating ice cream mixes and the like. 2,325,534; July 27.
Murray, William S., Utica, N. Y., assignor to Indium Corporation of America. Bearing and like article. 2,325,071; July 27.
Muskat, Irving E., Akron, Ohio, assignor to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Chlorination of chromium bearing materials. 2,325,192; July 27.
Muskat, Irving E., Akron, Ohio, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Purification of caustic. 2,325,339; July 27.
Myles, Asa H. (See McArthur, B. E., and Myles.)
Nassau Smelting & Refining Company. (See Deitz, Louis S., Jr., assignor.)
National Agrol Company. (See Christensen, Leo M., assignor.)
National Airoil Burner Company. (See Ferguson, William, assignor.)
National Automotive Fibres, Inc. (See Millar, John R., assignor.)
National Lock Co. (See Burke, William O., assignor.)
National Oil Products Company. (See Buxton, L. O., and Lipsius, assignors.)
National Union Radio Corporation. (See Mayers, Karl F., assignor.)
National Tube Company. (See Habart, H., and Hudson, assignors.)
Neff, William E., Richmond, Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Fiber producing apparatus. 2,325,147; July 27.
Nelson, Bernard, Chicago, Ill. Curtain stretcher. 2,325,268; July 27.
New Britain Machine Company, The. (See Montgomery, Donald H., assignor.)
Newport Industries, Inc. (See Palmer, R. C., and Bibb, assignors.)
Nichols, Frederick S., Melrose, Mass. Reversible curtain. 2,325,420. July 27.
Ninol Development Company. (See Kritchevsky, Wolf, assignor.)
Noble & Wood Machine Co., The. (See Cowgill, James T., assignor.)
Nordberg, Albert J., Detroit, Mich. Drill. 2,325,535; July 27.
Norma-Hoffman Bearings Corporation et al. (See Wright, Frank L., assignor.)

Northwood Chemical Company. (See Katzen, R., Plow, and Olson, assignors.)
Norwood, Holley J., Oakland, Calif. Upholstering construction. 2,325,269; July 27.
Nutt, Harold, Chicago, and R. L. Smirl, Bellwood, assignors to Borg-Warner Corporation, Chicago, Ill. Spring. 2,325,193; July 27.
Nye, Selden S. (See Mallory, Vernon L., assignor.)
Nygaard, Edwin M. (See George, R. S., Crandall, and Nygaard.)
Oberdick, Ervin O., Cleveland, Ohio, assignor to Cleveland Tungsten, Inc. Ore concentrator. 2,325,340; July 27.
O'Brien, Donald. (See Oslan, George, assignor.)
Oermann, Carl H., York, Pa. Seat structure. 2,325,270; July 27.
Okonite Company, The. (See Ryzowitz, John P., assignor.)
Olin, John F., and T. E. Deger, Grosse Ile, Mich., assignors to Sharples Chemicals Inc. Manufacture of organic polysulphides. 2,325,194; July 27.
Oliver, John R., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Shoe-bottom-coating machine. 2,325,148; July 27.
O'Loughlin, Walter K. (See Stengel, L. A., and O'Loughlin.)
Olson, Edgar T. (See Katzen, R., Plow, and Olson.)
Olson, John B. (See Willett, W. M., Markey, and Olson.)
Omohundro, Allen L., Wilton, and E. C. Fanto, Fairfield, assignors to McKesson & Robbins, Incorporated, Bridgeport, Conn. Identification of white mineral oil. 2,325,421; July 27.
Osborne, Fred H., Snyder, N. Y., assignor to The Rudolph Wurlitzer Company, Cincinnati, Ohio. Signal transmitter. 2,325,536; July 27.
Palm, Bernhard N. (See Johnson, C. E., Mendenhall, and Palm.)
Palmer, Robert C., and C. H. Bibb, assignors to Newport Industries, Inc., Pensacola, Fla. Making allo-ocimene. 2,325,422; July 27.
Paul, Talbert W., assignor to Deere & Company, Moline, Ill. Coupler. 2,325,271; July 27.
Peabody Engineering Corportion. (See Vroom, Robert C., assignor.)
Pease, John W., Rochester, N. Y. Ladder. 2,325,537; July 27.
Pellerano, Silvio, Brooklyn, N. Y., assignor to George Morrell Corporation, Muskegon, Mich. Accelerating of hardening of plastic protein articles. 2,325,272; July 27.
Pelton Water Wheel Company, The. (See Kyle, S. C., and White, assignors.)
Pembroke, George F., assignor to Molins Machine Company Limited, Deptford, London, England. Apparatus for testing or measuring sizes or dimensions. 2,325,423; July 27.
Petco, Inc. (See Toop, Frederic, assignor.)
Petersen, Georg. (See Weber, H., and Petersen.)
Petersen, Ove, Gentofte, and S. H. Jensen, Frederiksberg, Denmark; vested in the Alien Property Custodian. Method and means for operating internal combustion engines with supercharge. 2,325,538; July 27.
Peterson, Edward T., Reading, Pa. Toggle for crushers. 2,325,195; July 27.
Pfaudler Co., The. (See Minard, Everett S., assignor.)
Pfister, Pierre, assignor to the firm Societe Industrielle de Soncebox SA, Sonceboz, Switzerland. Timepiece with chronograph. 2,325,539; July 27.
Phillips Petroleum Company. (See Montgomery, J. V., and Goodson, assignors.)
Pier, Mathias, Heidelberg, and E. Donath, Mannheim, Germany, assignors to Standard Catalytic Company. Process for the catalytic destructive hydrogenation of heavy oils or residues containing asphalt. 2,325,072; July 27.
Pines, Herman. (See Ipatieff, V. N., and Pines.)
Pioneer Rubber Company. (See Lewis, Richard S., assignor.)
Pittman, Ralph R., and C. H. Walsh, Pine Bluff, Ark. Fuse switch. 2,325,540; July 27.
Pittsburgh Plate Glass Company. (See Muskat, Irving E., assignor.)
Pittsburgh Steel Drum Company. (See Elliott Harrison K., assignor.)
Plastic Metals, Inc. (See Young, John L., assignor.)
Plow, Richard H. (See Katzen, R., Plow, and Olson.)
Polzer, Fridolin, assignor to The E. H. Hotchkiss Company, Norwalk, Conn. Fastener driving machine. 2,325,341; July 27.
Poole, Lora E., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Milling machine. 2,325,541; July 27.
Precision Scientific Company. (See Van Guilder, Walter, assignor.)
Pritchard, William C., and R. A. Daily, Muncie, Ind., assignors to General Motors Corporation, Detroit, Mich. Extraction of lignosulphonic acid. 2,325,542; July 27.
Process Management Company, Inc. (See Armistead, George, Jr., assignor.)
Pung, Paula M., San Francisco, Calif. Copy holder. 2,325,273; July 27.
Pursel, Russell W., Indianapolis, Ind. Wire drawing apparatus. 2,325,342; July 27.
Pye, Carl F., Winnipeg, Manitoba, Canada. Tank filling device. 2,325,274; July 27.
Radio Corporation of America. (See Artzt, Maurice, assignor.)
Radio Corporation of America. (See Dimmick, Glenn L., assignor.)
Radio Corporation of America. (See Rettinger, Michael, assignor.)
Rainey, James L. (See Bruson, H. A., and Rainey.)
Rakowsky, Victor, Joplin, Mo., G. J. Holt, St. Paul, Minn., and R. W. Arms, Evanston, assignors to Minerals Beneficiation Incorporated, Chicago, Ill. Separating ores. 2,325,149; July 27.
Raskin, Bert. (See McGowan, Harold, assignor.)
Rayton, Wilbur B., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Photographic objective. 2,325,275; July 27.
Reach, Milton B., Springfield, Mass. Making athletic game balls. 2,325,073; July 27.
Reach, Milton B., Springfield, Mass. Making athletic game balls. 2,325,074; July 27.
Reach, Milton B., Springfield, Mass. Making inflatable game balls. 2,325,075; July 27.
Redinger, Karl, Feasterville, Pa. Carbon monoxide eliminator. 2,325,543; July 27.
Redman, Frank R., Yardley, Pa. Detensioning fabrics and the yarns or threads of which the fabric is composed. 2,325,544; July 27.
Redman, Frank R., Yardley, Pa. Apparatus for preshrinking fabrics. 2,325,545; July 27.
Reed, D. H., Company. (See Brown, C. C., Dodson, and Scott, assignors.)
Regar, Harold D., Reading, Pa. Carburetor. 2,325,546; July 27.
Reiter, Adolph, New York, N. Y. Hair curler. 2,325,547; July 27.
Resinous Products & Chemicals Company, The. (See Bruson, H. A., and Rainey, assignors.)
Rettinger, Michael, Encino, Calif., assignor to Radio Corporation of America. Windshield for microphones. 2,325,424; July 27.
Reuter, Raymond, Medford Lakes, N. J., assignor to The Atlantic Refining Company, Philadelphia, Pa. Lubricant. 2,325,076; July 27.
Reynolds, Harold A., Lockport, N. Y., assignor to General Motors Corporation, Detroit, Mich. Heater and windshield defroster. 2,325,427; July 27.
Reynolds Metals Company. (See Giesler, Jean V., assignor.)
Reynolds Metals Company. (See Whitfield, Marshall G., assignor.)
Reynolds Spring Company. (See Jackson, Charles F., assignor.)
Richfield Oil Corporation. (See Beissinger, Victor J., assignor.)
Ridge Tool Company, The. (See Wright, Clyde E., assignor.)
Riendeau, Lawrence S., Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Air translating apparatus. 2,325,425; July 27.
Rietz, Carl A., San Francisco, Calif. Disintegrating apparatus. 2,325,426; July 27.
Rife, William C., Toledo, Ohio. Window cowl. 2,325,276; July 27.
Riley, Valjean. (See Gilmore, James F., assignor.)
Ringel, Charles. (See Smith, B., and Ringel.)
Roan Mfg. Co. (See Jorgenson, Arthur P., assignor.)
Robinson, Bestor, U. S. Army, Oakland, Calif. Folding stove. 2,325,077; July 27.
Robson, James T., Richmond Heights, E. H. Watkins, Cleveland, and E. G. Zimmerman, Avon, assignors to Ferro Enamel Corporation, Cleveland, Ohio. Kiln structure. 2,325,572; July 27.
Röhm & Haas Company. (See Bock, L. H., and Houk, assignors.)
Röhm & Haas Company. (See Hestes, William F., assignor.)
Roos, Helmut, J. Dörr, and W. T. Koch, Dessau, Germany; vested in the Alien Property Custodian. Control means for rudders and the flaps thereon. 2,325,548; July 27.
Rothe, Charles R., Oak Park, and G. V. Thompson, assignors to Container Corporation of America, Chicago, Ill. Dispensing carton. 2,325,277; July 27.
Rothweiler, Edward B., assignor to Coil Piston Ring Company of America, St. Louis, Mo. (Piston ring. 2,325,196; July 27.
Rowley, Clarence H., and W. P. Wyatt, Pittsburgh, Pa. Garment display device. 2,325,428; July 27.
Rubber & Plastics Compound Company. (See Trevee, Angiolo, assignor.)
Rudolph Wurlitzer Company, The. (See Osborne, Fred H., assignor.)
Ryzowitz, John P., Wallington, assignor to The Okonite Company, Passaic, N. J. Ignition cable. 2,325,549; July 27.
Sager, Solomon M., Chicago, Ill. Fountain pen. 2,325,550; July 27.
Sahlmann, Max, assignor to Losala, Inc., New York, N. Y. Ear protecting device. 2,325,150; July 27.
St. Regis Paper Company. (See Crawford, Harry H., assignor.)
Saunders, Norman H., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. 100-line all relay system. 2,325,151; July 27.

Schaper, William A., Cicero, assignor to Johnson Laboratories, Inc., Chicago, Ill. Signal collecting system. 2,325,279; July 27.
Scharf, Frank W., Marshall, Mich., assignor to McGraw Electric Company, Elgin, Ill. Timed cooker. 2,325,551; July 27.
Scherbak, Hermann, New York, N. Y. Vacuum device. 2,325,575; July 27.
Scherrer, Harry A., San Diego, Calif. Lawn sprinkler and flushing opening seal. 2,325,280; July 27.
Schlack, Paul, Berlin-Treptow, Germany; vested in the Alien Property Custodian. Production of polycondensation products containing nitrogen. 2,325,552; July 27.
Schleicher, Henry M., Elizabeth, and W. E. Iverson, Woodbridge, N. J., assignor of one-half to Scovill Manufacturing Company, of Waterbury, Conn., and one-half to United States Metal Refining Company, Carteret, N. J. Refractory and producing the same. 2,325,553; July 27.
Schleicher, Louis H., St. Louis, Mo. Box. 2,325,281; July 27.
Schreiber, John H., St. Louis, Mo. Joint breaker and cathead. 2,325,429; July 27.
Schwarz Engineering Company, The. (See Lachle, Frank B., assignor.)
Schwarze Electric Company. (See Stern, Lewis J., assignor.)
Schweitzer & Conrad, Inc. (See McMahon, George F., assignor.)
Schwenn, Kurt R., Bloomfiefild, assignor to Bendix Aviation Corporation, Bendix, N. J. Anerold barometer. 2,325,282; July 27.
Scott & Williams, Incorporated. (See Shelmire, Stanley R., assignor.)
Scott, Floyd L., Jr. (See Brown, C. C., Dodson, and Scott.)
Scott Paper Company. (See Britt, Kenneth W., assignor.)
Scovill Manufacturing Company, et al. (See Schleicher, H. M., and Iverson, assignors.)
Semple, Robert E., assignor to The Astatic Corporation, Youngstown, Ohio. Sound reproducing stylus. 2,325,343; July 27.
Setz, Louis W., Omaha, Nebr. Shock absorbing mechanism. 2,325,430; July 27.
Sharples Chemicals Inc. (See Olin, J. F., and Deger, assignors.)
Shell Development Company. (See Durrum, Emmett L., assignor.)
Shell Development Company. (See Hearne, G. W., and Stenmark, assignors.)
Shell Development Company. (See Holt, B. M., and Liedholm, assignors.)
Shell Development Company. (See Merten, Eugen, assignor.)
Shell Development Company. (See Woods, John P., assignor.)
Shelmire, Stanley R., assignor to Scott & Williams, Incorporated, Laconia, N. H. Knit fabric. 2,325,078; July 27.
Shippy, Leo C., Lockport, N. Y., assignor to General Motors Corporation, Detroit, Mich. Automatic tube cutoff. 2,325,431; July 27.
Shonle, Horace A., and A. M. Van Arendonk, assignors to Eli Lilly and Company, Indianapolis, Ind. Unsymmetrical derivatives of 4,4'-diaminodiphenyl sulphone. 2,325,344; July 27.
Short, John W. (See McChesney, C. S., and Short.)
Shoults, David R. (See Edwards, M. A., and Shoults.)
Sibley, Robert L., Nitro, W. Va., assignor to Monsanto Chemical Company, St. Louis, Mo. Preserving rubber. 2,325,152; July 27.
Silver, Walter H., assignor to Deere & Company, Moline, Ill. Lister. 2,325,278; July 27.
Simpson, Waldo P., Lansdowne, and C. E. Stewart, Upper Darby, Pa., assignors to General Electric Company. Control system. 2,325,432; July 27.
Singer Manufacturing Company, The. (See Heggie, James, assignor.)
Singer Manufacturing Company, The. (See Hofgesang, William, assignor.)
Sitzler, Richard R., Cumberland, Md., assignor to Celanese Corporation of America. Production of textile materials. 2,325,153; July 27.
Skinner, M. B., Company. (See Merrill, P. D., and McMurray, assignors.)
Smirl, Richard L. (See Nutt, H., and Smirl.)
Smith, A. O., Corporation. (See Crawford, William E., assignor.)
Smith, A. O., Corporation. (See Floyd, John M., assignor.)
Smith, Bert, Teaneck, and C. Ringel, Hawthorne, N. J., assignors to The Superheater Company, New York, N. Y. Superheater header. 2,325,554; July 27.
Smith, S., & Sons (Motor Accessories) Limited. (See Meredith, Frederick W., assignor.)
Smith, A. O., Corporation. (See Westin, Sven, assignor.)
Smith, Howard, Paper Mills Limited. (See West, Douglas L., assignor.)
Societe Industrielle de Soncebox, S. A. (See Pfister, P., assignor.)
Socony-Vacuum Oil Company. (See George, R. S., Crandall, and Nygaard, assignors.)
Socony-Vacuum Oil Company. (See Hayes, Oswald G., assignor.)
Soderholm, Walter H., U. S. Army, Syracuse, N. Y. Heat treatment of projectiles. 2,325,079; July 27.
Sprinkle, Walter O., Galveston, Ind. Bale loading machine. 2,325,433; July 27.
Stackpole Carbon Company. (See Lodge, Edmund G., assignor.)
Staley, A. E. Manufacturing Company. (See Gill, Lowell O., assignor.)
Stammbach, Walter. (See Martin H., and Stammbach.)
Standard Catalytic Company. (See Pier, M., and Donath, assignors.)
Standard Oil Company. (See Wiley, E. G., Groshans, and McNeil, assignors.)
Steel Sanitary Company, The. (See Chesney, Robert M., assignor.)
Stein, Albert E., et al. (See Denny, Harry W., assignor.)
Stein, Hall & Company. (See Thompson, T. D., and Caesar, assignors.)
Steinmayer, Alwin G., assignor to Line Material Company, Milwaukee, Wis. Fuse device. 2,325,555; July 27.
Stengel, Leonard A., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Catalyst and process for the hydrogenation of polyhydroxy compounds. 2,325,206; July 27.
Stengel, Leonard A., and W. K. O'Loughlin, assignors to Commercial Solvents Corporation, Terre Haute, Ind. Catalyst and process for the hydrogenation of polyhydroxy compounds. 2,325,207; July 27.
Stenmark, George A. (See Hearne, G. W., and Stenmark.)
Stensrud, Stanley E. (See Graham, Jesse B., assignor.)
Stephanoff, Nicholas N., Haverford, Pa., assignor to Thermo-Plastic Corporation, Elizabeth, N. J. Method and apparatus for comminuting or drying materials. 2,325,080; July 27.
Sterling Electric Motors, Inc. (See Johnson, C. E., Mendenhall, and Palm, assignors.)
Stern, Lewis J., Adrian, Mich., assignor, by mesne assignments, to Schwarze Electric Company, Chicago, Ill. Electric bell. 2,325,081; July 27.
Stewart, Clyde E. (See Simpson, W. P., and Stewart.)
Stiles, Harry L., Bridgeport, Conn., assignor to General Electric Company. Mixing device. 2,325,434; July 27.
Straussberger, Hans J., Brooklyn, assignor to Alfred Hofmann, Inc., West New York, N. J. Welt hook. 2,325,208; July 27.
Sun Oil Company. (See Winterhalter, Alfred C., assignor.)
Superheater Company, The. (See Guirl, H. P., and Troppman, assignors.)
Superheater Company, The. (See Smith, B., and Ringel, assignors.)
Sutliff & Case Co.. (See Baker, William B., assignor.)
Swearingen, Judson S., San Antonio, Tex. Lubricating seal. 2,325,283; July 27.
Swift, Harvey C., assignor to Hydradlic Brake Company, Detroit, Mich. Fluid pressure system. 2,325,284; July 27.
Swihart, Stewart D., assignor to F. C. Zieg, Fort Wayne, Ind. Dropper stopper. 2,325,209; July 27.
Swihart, Stewart D., assignor to F. C. Zieg, Fort Wayne, Ind. Liquid dispenser. 2,325,210; July 27.
Sykora, George E., Minneapolis, Minn. Sign. 2,325,435; July 27.
Szager, Frank G., Los Angeles, Calif. Gaseous fuel mixing device. 2,325,285; July 27.
Talon, Inc. (See Carlile, Alfred E., assignor.)
Talon, Inc. (See Zaleske, Michael J., assignor.)
Tarte, Grover C., Blackstock, S. C. Protector mechanism for looms. 2,325,286; July 27.
Tate, Malcolm C., Stamford, Conn., assignor to The Baldwin Locomotive Works. Weighing system. 2,325,345; July 27.
Tautz, Herbert E., assignor, by mesne assignments, to Delta Manufalturing Company, Milwaukee, Wis. Rip gauge. 2,325,082; July 27.
Tautz, Herbert E., Miami Beach, Fla., assignor, by mesne assignments, to Delta Manufacturing Company, Milwaukee, Wis. Stand for motor driven tools and the like. 2,325,083; July 27.
Taylor, Raymond G., Jr., and D. B. Hooser, assignors to The Guiberson Corporation, Dallas, Tex. Well swab. 2,325,556; July 27.
Tegethoff, Bernard J., St. Louis, Mo. Lifeboat. 2,325,436; July 27.
Temple, Harold F., Elmont, assignor to Victor Metal Products Corporation, Brooklyn, N. Y. Hole punching die. 2,325,437. July 27.
Terry, Clifford B., Flushing, assignor to Lily-Tulip Cup Corporation, New York, N. Y. Apparatus for applying flanged closures. 2,325,557; July 27.
Then, Edward O., Newark, N. J., assignor to American Can Company, New York, N. Y. Container. 2,325,084; July 27.
Thermo-Plastic Corporation, The. (See Stephanoff, Nicholas N., assignor.)
Thew Shovel Company. (See Zeilman, Roy H., assignor.)
Thomas, Charles L., assignor to Universal Oil Products Company, Chicago, Ill. Hydrocarbon conversion. 2,325,287; July 27.

Thomas, Herbert C., Montgomery, Ala., and E. E. Lynch, Easthampton, Mass., assignors to General Electric Company. Thermal demand wattmeter. 2,325,438; July 27.

Thomas, Hugh K., Hadley Wood, Barnet, assignor to The Houghton-Butcher Manufacturing Company, Limited, London, England. Folding camera. 2,325,346; July 27.

Thompson, George V. (See Rothe, C. R., and Thompson.)

Thompson Grinder Company, The. (See Baldenhofer, William G., assignor.)

Thompson, Thomas D., Ridgefield Park, N. J., and G. V. Caesar, Staten Island, N. Y., assignors to Stein, Hall & Company, Inc., New York, N. Y. Viscosity responsive apparatus. 2,325,573; July 27.

Tiley, Louis H. (See Holmes, J. B., and Tiley.)

Tishler, Max, assignor to Merck & Co. Inc., Rahway, N. J. Substituted naphthoquinones. 2,325,439; July 27.

Tjaarda, John, Detroit, Mich., assignor to Briggs Manufacturing Company. Cylinder and making the same. 2,325,288; July 27.

Toop, Frederick, assignor to Petco, Inc., York, Pa. Two-unit work-shelf shears. 2,325,347; July 27.

Townsend, George R., Schenectady, N. Y., assignor to General Electric Company. Sequential control system and apparatus. 2,325,440; July 27.

Treves, Angiolo, assignor, by mesne assignments, to Rubber & Plastics Compound Company, Inc., New York, N. Y. Reclaiming rubber waste materials. 2,325,289; July 27.

Troppman, Fred G. (See Guirl, H. P., and Troppman.)

Tucker, Arthur E., Schenectady, N. Y., and G. S. Gunnison, Jersey City, N. J., assignors to Consolidated Car Heating Company, Inc., Albany, N. Y. Actuator for track sanders. 2,325,441; July 27.

Tucker, Warren R., Dayton, Ohio, assignor to The Hydraulic Development Corporation, Inc., Wilmington, Del. Turret control. 2,325,348; July 27.

Union Oil Company of California. (See Byrns, Alva C., assignor.)

United Drug Company. (See Merrill, Edward C., assignor.)

United Shoe Machinery Corporation. (See Duplessis, René S., assignor.)

United Shoe Machinery Corporation. (See Bell, Charles C., assignor.)

United Shoe Machinery Corporation. (See Blanchard, Benjamin B., assignor.)

United Shoe Machinery Corporation. (See Keaney, Francis A., assignor.)

United Shoe Machinery Corporation. (See Oliver, John R., assignor.)

U. S. Industrial Alcohol Co. (See Balcar, Frederick R. assignor.)

United States Metal Refining Company et al. (See Schleicher, H. M., and Iverson, assignors.)

Universal Oil Products Company. (See Day, R. B., and Kanhofer, assignors.)

Universal Oil Products Company. (See Egloff, Gustav, assignor.)

Universal Oil Products Company. (See Grosse, A. V., and Linn, assignors.)

Universal Oil Products Company. (See Ipatieff, V. N., and Pines, assignors.)

Universal Oil Products Company. (See Kassel, Louis S., assignor.)

Universal Oil Products Company. (See Thomas, Charles L., assignor.)

Universal Paper Products Company. (See Amberg, Walter E., assignor.)

Uslan, George, Irvington, assignor of one-fourth to D. O'Brien, Englewood, N. J. Height gauge. 2,325,558; July 27.

Van Arendonk, Arthur M. (See Shonle, H. A., and Van Arendonk.)

Van Guilder, Walter, River Forest, assignor to Precision Scientific Company, Chicago, Ill. Thermostat. 2,325,197; July 27.

Victor Metal Products Corporation. (See Temple, Harold F., assignor.)

Vineberg, Samuel S., Buffalo, N. Y. Garment locking or antitheft device. 2,325,349; July 27.

Vore, Herbert G., Jackson Heights, N. Y., assignor to American Seal-Kap Corporation of Delaware, Wilmington, Del. Antioxidizing paraffin composition. 2,325,085; July 27.

Vore, Herbert G., Jackson Heights, N. Y., assignor to American Seal-Kap Corporation of Delaware, Wilmington, Del. Heating apparatus. 2,325,086; July 27.

Vore, Herbert G., Jackson Heights, N. Y., assignor to American Seal-Kap Corporation of Delaware, Wilmington, Del. Antioxidizing paraffin composition. 2,325,167; July 27.

Vore, Herbert G., Jackson Heights, N. Y., assignor to American Seal-Kap Corporation of Delaware, Wilmington, Del. Bottle cap. 2,325,168; July 27.

Vore, Richard G. (See Goodwin, C. W., and Vore.)

Vroom, Robert C., Montclair, N. J., assignor to Peabody Engineering Corporation, New York, N. Y. Pulverized fuel burner. 2,325,442; July 27.

Vroom, Robert C., Montclair, N. J., assignor to Peabody Engineering Corporation, New York, N. Y. Air register. 2,325,443; July 27.

Vroom, Robert C., Montclair, N. J., and D. P. Graham, Flushing, assignors to Peabody Engineering Corporation, New York, N. Y. Air register. 2,325,444; July 27.

Wagner, Elmer A., Portland, Oreg. Material handling truck. 2,325,445; July 27.

Wait, William B., New York, N. Y. Signal recording. 2,325,451; July 27.

Wales, George F., Kenmore, N. Y. Sheet material punching apparatus. 2,325,290; July 27.

Walsh, Carroll H. (See Pittman, R. R., and Walsh.)

Walter, Charles T., assignor to Industrial Patents Corporation, Chicago, Ill. Sausage stuffing nozzle. 2,325,446; July 27.

Walters, Thomas A., assignor to American Blower Corporation, Detroit, Mich. Vortex eliminator in air handling apparatus. 2,325,154; July 27.

Wardwell, George W., Jr., Nichols, Conn., assignor to General Electric Company. Ironer. 2,325,447; July 27.

Wardwell, George W., Jr., Nichols, and George J. Filia, Bridgeport, Conn., assignors to General Electric Company. Ironing machine. 2,325,448; July 27.

Wardwell, George W., Jr., Nichols, Conn., assignor to General Electric Company. Rotary ironer. 2,325,449; July 27.

Wardwell, George W., Jr., Nichols, Conn., assignor to General Electric Company. Ironer. 2,325,450; July 27.

Washman, Patrick H., Jr., Dravosburg, Pa. Strip coiler. 2,325,559; July 27.

Watkins, Edward H. (See Robson, J. T., Watkins, and Zimmerman.)

Watson Manufacturing Company. (See Fosberg, Henry C., assignor.)

Wauters, Jean, Bruxelles, Belgium; vested in the Alien Property Custodian. Ordnance. 2,325,560; July 27.

Weber, Hermann, and G. Petersen, Zschopau, Germany; vested in the Alien Property Custodian. Spring suspension for vehicle wheels. 2,325,561; July 27.

Wedge, Fred D., Oak Park, assignor to Wilson-Jones Company, Chicago, Ill. Loose leaf binder. 2,325,155; July 27.

Weeks, Walter R., Hamden, Conn., assignor to General Electric Company. Strainer for coffee makers. 2,325,452; July 27.

Weightman, William A., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Welding apparatus. 2,325,291; July 27.

Wener, Harold H., Stoughton, Wis. Swimming device. 2,325,453; July 27.

Wening, Herman E., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Plastic adhesive. 2,325,562; July 27.

Wertz, Louis S., Cleveland Heights, Ohio. Method of and apparatus for treating surfaces. 2,325,087; July 27.

West, Douglas L., assignor to H. Smith Paper Mills Limited, Montreal, Quebec, Canada. Visual color comparator. 2,325,350; July 27.

Westerkamp, Hugo, Koln-Braunsfeld, Germany; vested in the Alien Property Custodian. Film container for endless films. 2,325,563; July 27.

Westin, Sven, West Allis, assignor to A. O. Smith Corporation, Milwaukee, Wis. Electric forming of metallic structures. 2,325,564; July 27.

Westinghouse Electric & Manufacturing Company. (See Forster, J. S., and Herwald, assignors.)

Westinghouse Electric & Manufacturing Company. (See Heintzen, Harry R., assignor.)

Westinghouse Electric & Manufacturing Company. (See Riendeau, Lawrence S., assignor.)

Westrope, Frederick J., Pleasant Ridge, assignor to F. L. Jacobs Co., Detroit, Mich. Adjustable arm rest with door handle. 2,325,292; July 27.

Wheeling Steel Corporation. (See McElhinney, John H., assignor.)

White, Ira M. (See Kyle, S. C., and White.)

White, S. S., Dental Manufacturing Company, The. (See Gross, Charles V., assignor.)

Whitfield, Marshall G., Louisville, Ky., assignor to Reynolds Metals Company, New York, N. Y. Coating wire. 2,325,156; July 27.

Wilcox, Harry L., assignor to The Electric Controller & Manufacturing Company, Cleveland, Ohio. Hoist control system. 2,325,454; July 27.

Wiley, Edwin G., Hammond, Ind., L. A. Groshans, Chicago, Ill., and C. P. McNeil, Whiting, Ind., assignors to Standard Oil Company, Chicago, Ill. Sulphuric acid concentration. 2,325,566; July 27.

Willett, William M., G. T. Markey, and J. B. Olson, assignors to James Manufacturing Company, Fort Atkinson, Wis. Battery brooder. 2,325,198; July 27.

Williams, Albert H., Maplewood, assignor to Inserting and Mailing Machine Company, Phillipsburg, N. J. Envelope handling machine. 2,325,455; July 27.

Williams, Charley H., El Reno, Okla. Swing. 2,325,456; July 27.

Williams, Ernest, Jackson Heights, assignor to Consolidated Edison Company of New York, Inc., New York, N. Y. Installation of underground ducts. 2,325,565; July 27.

Willis, Edward E., Lewiston, assignor of fifteen per cent to W. B. Heaps, Mifflin, Pa. Micrometer. 2,325,351; July 27.

Wilson, Charlotte E., et al. (See Eaton, Philip W., assignor.)

Wilson, Ernest E., near Milford, assignor to General Motors Corporation, Detroit, Mich. Resonator silencer. 2,325,352; July 27.

Wilson, H. A., Company, The. (See Howard, Ernest R., assignor.)

Wilson-Jones Company. (See Wedge, Fred D., assignor.)

Wilson, Richard E., Oakland, Calif. Fishing reel mounting. 2,325,457; July 27.

Wingfoot Corporation. (See Clifford, Albert M., assignor.)

Wingfoot Corporation. (See Kilborn, Karl B., assignor.)

Winterhalter, Alfred C., Beaumont, Tex., assignor to Sun Oil Company, Philadelphia, Pa. Seismographic prospecting. 2,325,157; July 27.

Witteman, Matthew J., Alhambra, Calif. Venetian slat unit. 2,325,458; July 27.

Wolf, Arnold M. (See Lermont, B., and Wolf.)

Wolf, Darwin M., San Diego, Calif. Soap holder and saver. 2,325,293; July 27.

Wood Conversion Company. (See Anway, Herman W., assignor.)

Wood Conversion Company. (See Heritage, Clark C., assignor.)

Wood, Frank J., Riverside, assignor to Goodman Manufacturing Company, Chicago, Ill. Continuous strip pickling and cleaning device. 2,325,158; July 27.

Woods, John P., Houston, Tex., assignor to Shell Development Company, San Francisco, Calif. Method and apparatus for seismic exploration. 2,325,199; July 27.

Woytych, Raymond M., assignor to Giddings & Lewis Machine Tool Co., Fond du Lac, Wis. Machine tool. 2,325,294; July 27.

Wright, Clyde E., Elyria, assignor to The Ridge Tool Company, North Ridgeville, Ohio. Pipe cutter. 2,325,353; July 27.

Wright, Frank L., Stamford, Conn., and G. V. Luerssen, Muhlenberg Park, assignor of one-half to The Carpenter Steel Company, Reading, Pa., and one-half to Norma-Hoffmann Bearings Corporation, Stamford, Conn. Alloy steel antifriction bearing element. 2,325,088; July 27.

Wunderer, Anton, Wiesbaden-Biebrich, Germany; vested in the Alien Property Custodian. Manufacture of sheets or bands from highly viscous cellulose solutions. 2,325,574; July 27.

Wyatt, William P. (See Rowley, C. H., and Wyatt.)

Wyman, Edwin T., Brookline, Mass. Puncture-sealing pneumatic tube. 2,325,354; July 27.

Yost, Clarence F., Ambler, Pa. Fire extinguishing apparatus. 2,325,355; July 27.

Young, Earle L., Stamford, assignor to Laminated Shim Company, Incorporated, Glenbrook, Conn. Apparatus for producing laminated shims. 2,325,200; July 27.

Young, John L., Pittsburgh, Pa., assignor to Plastic Metals, Inc. Electrolytic cell and anode. 2,325,201; July 27.

Zaleske, Michael J., Union, N. J., assignor, by mesne assignments, to Talon, Inc., Meadville, Pa. Cowl fastener stud construction. 2,325,295; July 27.

Zeilman, Roy H., assignor to Thew Shovel Company, Lorain, Ohio. Removable counterweight for excavating and load handling machines. 2,325,089; July 27.

Zieg, Fred C. (See Swihart, Stewart D., assignor.)

Zimmerman, Edwin G. (See Robson, J. T., Watkins, and Zimmerman.)

Zublin, John A., Los Angeles, Calif. Thrust bearing assembly. 2,325,459; July 27.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 27TH DAY OF JULY, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Alloy. J. M. Lohr. Re. 22,356–7; July 27.
Pin, Connecting. J. King. Re. 22,354; July 27.
Seal, Shaft. A. R. Karlberg. Re. 22,353; July 27.
Springing connection, Individual. J. W. Leighton. Re. 22,355; July 27.

LIST OF DESIGN INVENTIONS

Airplane, Amphibian. A. J. Stolzenberger, Jr. 136,075; July 27.
Bric-a-brac or the like. A. Vero. 136,058; July 27.
Cleaner or similar article, Air. J. B. Sebok. 136,057; July 27.
Container and base therefor, Combined. M. Sosman. 136,062; July 27.
Coupling or similar article. I. Ročić. 136,056; July 27.
Cover for an instrument casing. D. A. Young and V. S. Thomander. 136,063; July 27.
Dress. B. Cashin. 136,068–71; July 27.
Emblem or similar article, Appliqué. W. P. Burn and H. L. Jurkops. 136,059; July 27.
Envelope moistener and sealer, Combined. D. H. Freese. 136,073; July 27.
Frame and flower container, Combination picture. R. G. Block. 136,054; July 27.
Frame, Eyeglass. L. Jacobson. 136,047; July 27.
Frame, Picture. A. C. Fuchs. 136,061; July 27.
Girdle or the like. H. Kress. 136,050; July 27.
Holder and receptacle therefor, or the like, Combined. C. L. Fordyce. 136,064; July 27.
House, Concrete dwelling. T. J. Crowe. 136,060; July 27.
Leather or similar article of manufacture. F. H. Becker and L. F. Peabody. 136,044; July 27.
Liner for a comport or article of similar nature, Glass. C. S. Whipple. 136,049; July 27.
Measure, Butter. K. R. Downer. 136,046; July 27.
Mixer arm, Aggregate. W. M. Madsen. 136,055; July 27.
Nightgown. C. Zinaman. 136,053; July 27.
Pen section, Fountain. B. M. Morris. 136,074; July 27.
Rack, Magazine. A. V. Matifes. 136,051; July 27.
Scarf or similar article, Table. S. J. Oppenheim. 136,067; July 27.
Shoe sole. R. Herron. 136,065; July 27.
Tablecloth or similar article. C. I. Betesh. 136,045; July 27.
Tablecloth or similar article. M. Setton. 136,052; July 27.
Tool for applying index clips. J. Flynn. 136,072; July 27.
Toy cradle, Knockdown. J. K. Makrianes. 136,066; July 27.
Visor and shield, Combined sun. I. P. Schmid. 136,048; July 27.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 27TH DAY OF JULY, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Accelerator, Vulcanization. R. A. Mathes and P. C. Jones. 2,325,259; July 27.
Actuator for track sanders. A. E. Tucker and G. S. Gunnison. 2,325,441; July 27.
Adhesive compositions comprising bisthioammeline polyalkylene ether resins. H. A. Bruson and J. L. Rainey. 2,325,105; July 27.
Adjustable releasing tap holder. H. O. M. Jampoler. 2,325,184; July 27.
Air impelling apparatus. W. H. Bretzlaff and C. P. Grimes. 2,325,222; July 27.
Air translating apparatus. L. S. Ruendeau. 2,325,425; July 27.
Aircraft control device. B. G. Carlson. 2,325,108; July 27.
All relay system, 100-line. N. H. Saunders. 2,325,151; July 27.
Allo-ocimene, Making. R. C. Palmer and C. H. Bibb. 2,325,422; July 27.
Alloy steel antifriction bearing element. F. L. Wright and G. V. Luerssen. 2,325,088; July 27.
Alloys from electrolytic manganese, Preparation of. J. J. McLaughlin. 2,325,068; July 27.
Amino acid amide derivatives and their manufacture. H. Martin and W. Stammbach. 2,325,331; July 27.
Aminoplast modified with a malonic ester. G. F. D'Alelio. 2,325,375; July 27.
Apparatus for applying flanged closures. C. B. Terry. 2,325,557; July 27.
Apparatus for cleaning machinery. G. W. Allred. 2,325,023; July 27.
Apparatus for contracting the ends of hollow bodies. A. and W. Lauer. 2,325,522; July 27.
Apparatus for electrically upsetting pipe ends. W. E. Crawford. 2,325,480; July 27.
Apparatus for executing reactions with the aid of regenerative contact materials. B. M. Holt and G. E. Liedholm. 2,325,516; July 27.
Apparatus for expressing oil from oil bearing materials. R. T. Anderson. 2,325,357; July 27.
Apparatus for felting fibrous sheets. C. G. Muench. 2,325,338; July 27.
Apparatus for gauging dimensions of circular workpieces. F. J. Black, Sr. 2,325,362; July 27.
Apparatus for making strip material. C. W. Leguillon and E. A. Davis. 2,325,139; July 27.
Apparatus for making tubs. R. M. Chesney. 2,325,369; July 27.
Apparatus for preshrinking fabrics. F. R. Redman. 2,325,545; July 27.
Apparatus for producing laminated shims. E. L. Young. 2,325,200; July 27.
Apparatus for promoting mold growth. L. M. Christensen. 2,325,368; July 27.
Apparatus for separating fibers. J. T. Coghill. 2,325,159; July 27.
Apparatus for testing or measuring sizes or dimensions. G. F. Pembroke. 2,325,423; July 27.
Arc extinguishing means. G. F. McMahon. 2,325,416; July 27.
Arm rest with door handle, Adjustable. F. J. Westrope. 2,325,292; July 27.
Audio amplifier response control. W. Hepp. 2,325,512; July 27.
Bag: *See*—
  Golf bag.
Balancing machine, Dynamic. R. C. Marsh. 2,325,144; July 27.
Bale loading machine. W. O. Sprinkle. 2,325,433; July 27.
Ball. J. H. Grady. 2,325,128; July 27.
Barometer, Aneroid. K. R. Schwenn. 2,325,282; July 27.
Barrier for anti-tank and like purposes. W. J. May. 2,325,260; July 27.
Bearing: *See*—
  High-speed roller bearing.
Bearing and like article. W. S. Murray. 2,325,071; July 27.
Bell, Electric. L. J. Stern. 2,325,081; July 27.
Belts, Vulcanizing. K. B. Kilborn. 2,325,204; July 27.
Beryllium cementation. H. S. Cooper. 2,325,041; July 27.
Blackout lamp. H. W. Barnes. 2,325,216; July 27.
Blade loading machine. H. Hill. 2,325,133; July 27.
Blinker gauge. C. W. McKinley. 2,325,415; July 27.
Blowpipe apparatus. J. H. Bucknam. 2,325,106; July 27.
Board: *See*—
  Ironing board.
Boat, Life. B. J. Tegethoff. 2,325,436; July 27.
Boat operated by motive vehicles. O. H. Miller. 2,325,532; July 27.
Boiler: *See*—
  Mercury boiler.
  Single drum locomotive boiler.
Bottle cap. H. G. Vore. 2,325,168; July 27.
Bottle holder. T. H. Bryant, Sr. 2,325,224; July 27.
Bottle rack. E. S. Curtis. 2,325,231; July 27.
Bottles, Capping. J. de Swart. 2,325,309; July 27.
Box. L. H. Schleicher. 2,325,281; July 27.
Breaker and cathead, Joint. J. H. Schreiber. 2,325,429; July 27.
Breaker, Hay. P. Bonnafoux. 2,325,101; July 27.
Breathing apparatus. H. H. Frye and A. R. Behnke. 2,325,049; July 27.
Brooder, Battery. W. M. Willett, G. T. Markey and J. B. Olsen. 2,325,198; July 27.
Burner: *See*—
  Oil burner.
  Pulverized fuel burner.
  Pulverized coal burner.
Burner control system, Automatic. R. S. Craig. 2,325,229; July 27.
Butane, Treatment of. V. N. Ipatieff and H. Pines. 2,325,122; July 27.
Butter vending machine. S. Castro. 2,325,037; July 27.
Cabinet. E. D. Davis. 2,325,483; July 27.
Cable: *See*—
  Ignition cable.
Calcium gluconate solutions. W. B. Baker. 2,325,029; July 27.
Calculating machine. C. M. Friden. 2,325,388; July 27.
Camera. M. H. Axler and E. Halitsky. 2,325,463; July 27.
Cap: *See*—
  Bottle cap.
Cap applying apparatus. H. W. Martin. 2,325,166; July 27.
Cap feed and heating apparatus. C. W. Goodwin and H. W. Martin. 2,325,050; July 27.
Capping head. C. W. Goodwin. 2,325,160; July 27.
Capping machine. C. W. Goodwin and H. W. Martin. 2,325,163; July 27.
Carbon dioxide. Production of liquid. W. Dennis. 2,325,045; July 27.
Carbon monoxide eliminator. K. Redinger. 2,325,543; July 27.
Carburetor. I. E. Coffey. 2,325,372; July 27.
Carburetor. H. D. Regar. 2,325,546; July 27.
Carton cup dispenser. W. E. Amberg. 2,325,214; July 27.
Catalyst and process for the hydrogenation of polyhydroxy compounds. L. A. Stengel. 2,324,206; July 27.
Catalyst and process for the hydrogenation of polyhydroxy compounds. L. A. Stengel and W. K. O'Loughlin. 2,325,207; July 27.
Catalyst, Desulphurizing. A. C. Byrns. 2,325,033; July 27.
Catalytic destructive hydrogenation of heavy oils or residues containing asphalt. M. Pier and E. Donath. 2,325,072; July 27.
Catalyzed reactions, Effecting. L. S. Kassel. 2,325,136; July 27.
Caustic, Purification of. I. E. Muskat. 2,325,339; July 27.
Cell, Dry battery. B. F. Muldoon. 2,325,070; July 27.
Chair. E. J. Lloyd. 2,325,141; July 27.
Cheese, Manufacture of process. W. O. Beers. 2,325,217; July 27.
Chemical process and product. W. P. Arnold and E. R. Boller. 2,325,359; July 27.
Chlorination of chromium bearing materials. I. E. Muskat. 2,325,192; July 27.
Circuit interrupter control system. H. Bany. 2,325,361; July 27.
Circuits for wireless receivers, Tuned. A. H. Cooper. 2,325,174; July 27.
Clasp or related article. J. F. Adams. 2,325,212; July 27.
Cleaner: *See*—
  Vacuum cleaner.
Clip: *See*—
  Hair-waving clip.
Clip applying mechanism. C. F. Jackson. 2,325,322; July 27.
Clutch control mechanism. L. F. Boschen. 2,325,102; July 27.
Coating machine. C. C. Bell. 2,325,098; July 27.
Coating machine. C. W. Goodwin and H. G. Vore. 2,325,162; July 27.

Coating process, Metal. L. O. Gill. 2,325,240; July 27.
Coatings, Producing. W. Mertens. 2,325,531; July 27.
Coil-forming apparatus. O. F. Arthur. 2,325,462; July 27.
Coil handling apparatus. M. H. Freeman. 2,325,121; July 27.
Coin operated by typewriter control apparatus. J. B. Graham. 2,325,244; July 27.
Comb apparatus, Hair cutting. C. A. Halen. 2,325,246; July 27.
Comb units and the like, Making parts for. C. L. Molnar. 2,325,205; July 27.
Comparator, Visual color. D. L. West. 2,325,350; July 27.
Compass, Magnetic. E. F. Britten, Jr. 2,325,365; July 27.
Condensation products of amidogen compounds, aldehydes, and keto-esters. G. F. D'Alelio. 2,325,376; July 27.
Conjugated poly-olefins, Production of. G. W. Hearne and G. A. Stenmark. 2,325,398; July 27.
Connector: *See*—
Electrical connector.
Constant velocity universal joint. W. E. Amberg. 2,325,460; July 27.
Container. E. O. Then. 2,325,084; July 27.
Control device for scavenged, ignition-type engines. A. Büchi. 2,325,032; July 27.
Control for slab squeezers, Hold-down. W. R. Gardner and M. V. Hamilton. 2,325,389; July 27.
Control means for rudders and the flaps thereon. H. Roos, J. Dörr, and W. T. Koch. 2,325,548; July 27.
Control system. E. T. Davis. 2,325,232; July 27.
Control system. M. A. Edwards and D. R. Shoults. 2,325,381; July 27.
Control system. W. P. Simpson and C. E. Stewart. 2,325,432; July 27.
Control system for motor vehicles. E. A. Derungs. 2,325,486; July 27.
Cooker, Timed. F. W. Scharf. 2,325,551; July 27.
Cooling means, Spark plug. P. G. Andres. 2,325,024; July 27.
Copy holder. P. M. Pung. 2,325,273; July 27.
Cough drop. E. C. Merrill. 2,325,529; July 27.
Counterweight for excavating and handling machines, Removable. R. H. Zeilman. 2,325,089; July 27.
Coupler. T. W. Paul. 2,325,271; July 27.
Cover and vehicle control, Roll mill. I. M. Bernstein. 2,325,171; July 27.
Cover lock and extractor control. O. W. Johnson. 2,325,406; July 27.
Cowl fastener stud construction. M. J. Zaleske. 2,325,295; July 27.
Crowbar and pinch bar. C. F. Chaddock. 2,325,227; July 27.
Current interrupting device. E. G. Lodge. 2,325,142; July 27.
Curtain, Reversible. F. S. Nichols. 2,325,420; July 27.
Cutter: *See*—
Outside pipe cutter. Pipe cutter.
Paper cutter.
Cutter feeding device. J. W. Boening. 2,325,364; July 27.
Cylinder and making same. J. Tjaarda. 2,325,288; July 27.
Dampening and motion transmission mechanism for gauges. W. J. Kiene. 2,325,326; July 27.
Darning device. W. Hofgesang. 2,325,515; July 27.
Dealkylation of alpha, beta-bis-(rhoalkoxyphenyl)-alpha, beta-disubstituted ethanes and the rho, rho'-dialkoxy-alpha, beta disubstituted stilbenes. J. Corse. 2,325,307; July 27.
Dental impression compound. C. V. Gross. 2,325,051; July 27.
Derivatives of alcohol amine condensation products, Acid-reacting. W. Kritchevsky. 2,325,062; July 27.
Desk, Portable. G. E. Chesler. 2,325,039; July 27.
Desulphurizing hydrocarbon distillate. G. Egloff. 2,325,115; July 27.
Device for facilitating the reading of manuscripts. A. Fornet. 2,325,499; July 27.
Device for paper feed rollers. J. F. S. de Albuquerque. 2,325,234; July 27.
Developing apparatus. H. D. Forse. 2,325,120; July 27.
Diamond and the like cutting tool. E. L. Meeson. 2,325,334; July 27.
Die: *See*—
Hole punching die.
Die for bevel cutting. R. L. Ducklo. 2,325,311; July 27.
Die for electrical forging machines. J. M. Floyd. 2,325,498; July 27.
Directory and push-button call-board device. C. Auth. 2,325,095; July 27.
Disintegrating apparatus. C. A. Rietz. 2,325,426; July 27.
Disk harrow. S. J. Miller. 2,325,337; July 27.
Dispenser: *See*—
Carton cup dispenser. Liquid dispenser.
Dispenser for liner-wound tape. M. M. Hoover. 2,325,400; July 27.
Dispensing apparatus. G. A. Blake. 2,325,363; July 27.
Dispensing apparatus, Beverage. R. T. Cornelius. 2,325,228; July 27.
Dispensing carton. C. R. Rothe and G. V. Thompson. 2,325,277; July 27.
Distillation process. E. L. Durrum. 2,325,379; July 27.
Door construction for display cabinets, Sliding. W. B. McMillan. 2,325,263; July 27.
Door lock. C. S. Bock. 2,325,220; July 27.
Drawing press. J. A. Muller. 2,325,146; July 27.
Dredge. H. H. Hopkins and G. E. Becker. 2,325,134; July 27.
Dress construction. H. D. Lyttle. 2,325,143; July 27.
Drier: *See*—
Laundry drier.
Drill. A. J. Nordberg. 2,325,535; July 27.
Dry shaver cutter head. T. J. Murphy. 2,325,267; July 27.
Dynamoelectric machine. R. H. Kaufmann. 2,325,407; July 27.
Ear protecting device. M. Sahlmann. 2,325,150; July 27.
Electric forming apparatus. W. E. Crawford. 2,325,481; July 27.
Electric forming of metallic structures. S. Westin. 2,325,564; July 27.
Electric furnace for the manufacture of condensable products. R. E. Lambert. 2,325,521; July 27.
Electric heating and forming apparatus. W. E. Crawford. 2,325,479; July 27.
Electric impulse apparatus, Delayed action interrupter. A. P. Jorgenson. 2,325,249; July 27.
Electric motor control. E. Andrews. 2,325,092; July 27.
Electric valve translating system. G. W. Garman. 2,325,390; July 27.
Electrical connector. C. B. Gaty. 2,325,313; July 27.
Electrical system. E. T. Davis. 2,325,308; July 27.
Electrode holder. I. Hakki. 2,325,394; July 27.
Electrolytic cells and anodes. J. L. Young. 2,325,201; July 27.
Electron discharge device, including fluorescent screen. R. H. Colborne. 2,325,110; July 27.
Electroplating apparatus. G. J. Hurlston. 2,325,401; July 27.
Engine starter gearing. B. W. Jones. 2,325,518; July 27.
Envelope handling machine. A. H. Williams. 2,232,455; July 27.
Excavator. V. Mikan. 2,325,336; July 27.
Expanding and staking tool. O. Haas and J. R. Hawkins. 2,325,508; July 27.
Explosive composition. R. W. Lawrence. 2,325,064–5; July 27.
Extraction of lignosulphonic acid. W. C. Pritchard and R. A. Daily. 2,325,542; July 27.
Eye testing device. V. H. Hancock and R. W. Bennett. 2,325,569; July 27.
Fabric. L. J. A. Amyot. 2,325,215; July 27.
Fabric, Knit. S. R. Shelmire. 2,325,078; July 27.
Fabrics and the yarns or threads of which the fabric is composed, Detensioning. F. R. Redman. 2,325,544; July 27.
Fastener: *See*—
Integral separable fastener Separating slide fastener.
Fastener driving mechanism. F. Polzer. 2,325,341; July 27.
Fastening inserting machine. B. B. Blanchard. 2,325,100; July 27.
Feed, Loom warp. G. J. Beaudreau. 2,325,096; July 27.
Feeding apparatus for steam boilers, Automatic. J. F. Gilmore. 2,325,241; July 27.
Feeding mechanism for sewing machines. J. Heggie. 2,325,510; July 27.
Fiber producing apparatus. W. E. Neff. 2,325,147; July 27.
Fibers, Testing feltable. H. W. Anway. 2,325,026; July 27.
Filing device. A. N. Hanna. 2,325,317; July 27.
Film container for endless films. H. Westerkamp. 2,325,563; July 27.
Film-feeding mechanism for moving picture cameras and projectors. O. B. Meyers. 2,325,335; July 27.
Filter: *See*—
Oil filter.
Filter and making the same. P. A. Frank. 2,325,386; July 27.
Filter and pump support. S. Alsop. 2,325,169; July 27.
Fire extinguishing apparatus. C. F. Yost. 2,325,355; July 27.
Firearm, Automatic or repeating. P. de Király and J. Kucher. 2,325,484; July 27.
Firearm bolt stop. G. Hammond. 2,325,395; July 27.
Fish lure. W. G. Burns. 2,325,107; July 27.
Fishhook, Combination. J. Helfenstein. 2,325,247; July 27.
Fishing reel mounting. R. E. Wilson. 2,325,457; July 27.
Flatiron. A. M. Dickie. 2,325,377; July 27.
Fluid-operated pump. R. E. Leonard. 2,325,256; July 27.
Fluid pressure system. H. C. Swift. 2,325,284; July 27.
Folding camera. H. K. Thomas. 2,325,346; July 27.
Form, Display. P. Cherdakoff. 2,325,173; July 27.
Forming press. C. W. Goodwin and H. W. Martin. 2,325,161; July 27.

Foundation, Bee comb. H. C. Dadant and R. A. Grout. 2,325,043; July 27.
Fracture appliance. H. L. Bisnoff. 2,325,300; July 27.
Framed screen. H. C. Fosberg. 2,325,500; July 27.
Fuel injection pump. H. Links. 2,325,524; July 27.
Fulling or planking machine. V. Bohm. 2,325,301; July 27.
Fur for felting, Treating. C. F. Fabian. 2,325,236; July 27.
Furnace control apparatus. J. A. Ashworth. 2,325,094; July 27.
Fuse device. A. G. Steinmayer. 2,325,555; July 27.
Fuse switch. R. R. Pittman and C. H. Walsh. 2,325,540; July 27.
Game apparatus. F. P. Gorospe. 2,325,243; July 27.
Game balls, Making athletic. M. B. Reach. 2,325,073–4; July 27.
Game balls, Making inflatable. M. B. Reach. 2,325,075; July 27.
Game disk. E. W. Christy. 2,325,109; July 27.
Garment display device. C. H. Rowley and W. P. Wyatt. 2,325,428; July 27.
Garment, Infant's. F. R. Behringer. 2,325,097; July 27.
Garment locking or antitheft device. S. S. Vineberg. 2,325,349; July 27.
Garment, Sportsman's. W. Fayer. 2,325,494; July 27.
Gauge: *See*—
Blinker gauge. Measuring gauge.
Height gauge. Rip gauge.
Gear tooth surfaces, Finishing. H. W. Falk. 2,325,237; July 27.
Gearing. G. B. Godwin. 2,325,392; July 27.
Glove. E. J. Curran. 2,325,482; July 27.
Glove, Rubber. R. S. Lewis. 2,325,330; July 27.
Golf bag. F. G. Cart. 2,325,474; July 27.
Golf club. E. D. Lukenbill. 2,325,525; July 27.
Grapple, Wheel. H. C. Esbeck. 2,325,235; July 27.
Gravel packing of wells. V. J. Beissinger. 2,325,218; July 27.
Grille construction. R. H. Hutchinson. 2,325,402; July 27.
Grinding devices for steels and alloys, Free. B. Egeberg. 2,325,180; July 27.
Guard, Belt wrapper. A. C. Goins. 2,325,504; July 27.
Guide, Rolling mill. C. W. Hawthorne. 2,325,397; July 27.
Gyroscope. J. S. Forster and S. W. Herwald. 2,325,048; July 27.
Gyroscope, Fluid driven. F. W. Meredith. 2,325,530; July 27.
Hair curler. A. Reiter. 2,325,547; July 27.
Hair curling device. M. Haberman. 2,325,316; July 27.
Hair-waving clip. M. Haberman. 2,325,315; July 27.
Halides of polyvinyl compounds. W. O. Herrmann and W. Haehnel. 2,325,513; July 27.
Hat adjusting means. R. L. Brill and S. Lipton. 2,325,473; July 27.
Head for enameled tank. J. M. Floyd. 2,325,497; July 27.
Header, Superheater. B. Smith and C. Ringel. 2,325,554; July 27.
Heater and windshield defroster. H. A. Reynolds. 2,325,427; July 27.
Heating apparatus. H. G. Vore. 2,325,086; July 27.
Heating device. J. L. Andrews. 2,325,358; July 27.
Height gauge. G. Uslan. 2,325,558; July 27.
High alumina refractory. A. E. Fitzgerald. 2,325,181; July 27.
High-speed roller bearing. F. E. Best. 2,325,099; July 27.
Hinge, Table. J. L. Fitzpatrick. 2,325,182; July 27.
Hoist control system. H. L. Wilcox. 2,325,454; July 27.
Holder: *See*—
Adjustable releasing tap holder. Copy holder.
Bottle holder. Electrode holder.
Safety razor blade holder.
Hole punching die. H. F. Temple. 2,325,437; July 27.
Hollow articles, Making. H. Habart and H. W. Hudson. 2,325,214; July 27.
Hook: *See*—
Welt hook.
Hose. C. E. Bannister. 2,325,464; July 27.
Hose, Making. C. E. Bannister. 2,325,465; July 27.
Humidity control device. H. J. Kaufman. 2,325,061; July 27.
Hydraulic drilling device. E. Merten. 2,325,264; July 27.
Hydraulic pumping jack. S. C. Kyle and I. M. White. 2,325,138; July 27.
Hydrocarbon conversion. R. B. Day and E. R. Kanhofer. 2,325,114; July 27.
Hydrocarbon conversion. R. B. Day and E. R. Kanhofer. 2,325,233; July 27.
Hydrocarbon conversion. C. L. Thomas. 2,325,287; July 27.
Ice cream mixes and the like, Treating. H. L. Murray. 2,325,534; July 27.
Ignition cable. J. P. Ryzowitz. 2,325,549; July 27.
Indicator: *See*—
Storage battery charge indicator. Time measuring indicator.
Inhibition of corrosion of magnesium and magnesium base alloys. C. J. Bushrod. 2,325,304; July 27.
Ink, Printing. F. E. Barmeier. 2,325,297; July 27.
Insecticidal compositions containing polyetheramines. W. F. Hester. 2,325,514; July 27.
Installation of underground ducts. E. Williams. 2,325,565; July 27.
Integral separable fastener. I. Marinsky. 2,325,332; July 27.
Internal combustion engines with supercharge, Operating. O. Petersen and S. H. Jensen. 2,325,538; July 27.
Ironer. G. W. Wardwell, Jr. 2,325,447; July 27.
Ironer. G. W. Wardwell, Jr. 2,325,450; July 27.
Ironer, Rotary. G. W. Wardwell, Jr. 2,325,449; July 27.
Ironing board. H. B. Fay. 2,325,493; July 27.
Ironing machine. F. B. Clark. 2,325,475; July 27.
Ironing machine. G. W. Wardwell, Jr. and G. J. Filia. 2,325,448; July 27.
Jack: *See*—
Hydraulic pumping jack.
Joint: *See*—
Constant velocity universal joint. Pavement joint.
Juice, Preserving. F. H. Collins. 2,325,111; July 27.
Juices and product, Treating. S. H. Ayers and D. L. Loetscher. 2,325,360; July 27.
Key, Machinery. H. K. Elliott. 2,325,491; July 27.
Kiln structure. J. T. Robson, E. H. Watkins, and E. G. Zimmerman. 2,325,572; July 27.
Knee protector, elbow guard, and the like. P. O. Hubner and M. Docherty. 2,325,321; July 27.
Knife, Coring. M. A. Berns. 2,325,031; July 27.
Ladder. J. W. Pease. 2,325,537; July 27.
Lamp: *See*—
Black-out lamp.
Lasting machine. R. E. Duplessis. 2,325,047; July 27.
Latch: *See*—
Refrigerator latch.
Latex impregnation. E. K. Fischer. 2,325,385; July 27.
Laundry drier. W. H. Collins. 2,325,478; July 27.
Lawn mower, Tractor mounted and controlled gang. W. F. Krenzke. 2,325,252; July 27.
Lawn sprinkler and flushing opening seal. H. A. Scherrer. 2,325,280; July 27.
Lighting system. V. L. Mallory. 2,325,258; July 27.
Lignocellulose for molding compounds. R. Katzen, R. H. Plow, and E. T. Olson. 2,325,570; July 27.
Lint fibers from cotton seeds and cleaning lint fibers by air washing, Separating. P. E. Hopper. 2,325,183; July 27.
Liquid dispenser. S. D. Swihart. 2,325,210; July 27.
Liquid filling valve. E. S. Minard. 2,325,419; July 27.
Liquid injecting device. C. H. and C. O. McDannel. 2,325,262; July 27.
Lister. W. H. Silver. 2,325,278; July 27.
Lock: *See*—
Door lock.
Lock. L. E. Deutsch. 2,325,310; July 27.
Loom picker. A. P. Lewis. 2,325,187; July 27.
Loose-leaf binder. H. E. Baughman. 2,325,466; July 27.
Loose-leaf binder. F. D. Wedge. 2,325,155; July 27.
Lubricant. J. V. Montgomery and L. B. Goodson. 2,325,533; July 27.
Lubricant. R. Reuter. 2,325,076; July 27.
Lubricant seal for shafts. W. G. Baldenhofer. 2,325,296; July 27.
Lubricating composition. E. W. Cook and T. F. Bradley. 2,325,040; July 27.
Lubricating seal. J. S. Swearingen. 2,325,283; July 27.
Machine tool. R. M. Woytych. 2,325,294; July 27.
Maintainer, Road. M. F. Allen. 2,325,025; July 27.
Manganese alloys. R. S. Dean. 2,325,044; July 27.
Margarine and cooking fats, Manufacture of. J. E. Green. 2,325,393; July 27.
Master switch and control system combination. B. E. McArthur and A. H. Myles. 2,325,413; July 27.
Measuring apparatus for the inside of bores. D. E. Bench M. A. Crosby. 2,325,299; July 27.
Measuring device. F. B. Harmon. 2,325,130; July 27.
Measuring gauge. R. E. Bauer. 2,325,170; July 27.
Measuring instrument. A. R. Doering. 2,325,179; July 27.
Measuring instrument, Pressure. A. F. Allwein and E. C. Burdick. 2,325,091; July 27.
Mechanism for typewriters and the like, Justifying. A. Goy. 2,325,505; July 27.
Mercury boiler. W. L. R. Emmet. 2,325,384; July 27.
Mercury derivatives of esters of sulphocarboxylic acids. K. L. Lynch. 2,325,411; July 27.
Mercury switch relay. C. H. Larson. 2,325,186; July 27.
Metal fume, Refining of non-ferrous. L. S. Deitz, Jr. 2,325,176; July 27.
Metal rolling. J. H. McElhinney. 2,325,190; July 27.
Metal rolling and bending device. B. Lermont and A. M. Wolf. 2,325,523; July 27.
Meter reading apparatus. W. Leathers and J. Haddad. 2,325,409; July 27.
Method and apparatus for bottoming bags. H. H. Crawford. 2,325,042; July 27.
Method and apparatus for comminuting or drying materials. N. N. Stephanoff. 2,325,080. July 27.

Method of and apparatus for applying swatches. P. C. P. Booty. 2,325,578; July 27.
Method of and apparatus for treating surfaces. L. S. Wertz. 2,325,087; July 27.
Micrometer. E. E. Willis. 2,325,351; July 27.
Microscope. E. F. Flint. 2,325,238–9; July 27.
Milling machine. L. E. Poole. 2,325,541; July 27.
Mineral oil, Identification of white. A. L. Omohundro and E. C. Fanto. 2,325,421; July 27.
Mirror, Illuminating. J. E. Cleve. 2,325,476; July 27.
Mixing device. H. L. Stiles. 2,325,434; July 27.
Mixing device, Gaseous fuel. F. G. Szager. 2,325,285; July 27.
Mixing unit. A. Gordon. 2,325,242; July 27.
Modulation control system. G. M. Brown. 2,325,366; July 27.
Molding machine. S. L. Gedris. 2,325,501; July 27.
Motor fuel production. G. Armistead, Jr. 2,325,093; July 27.
Motor synchronizing device. M. Artzt. 2,325,028; July 27.
Mounting: *See*—
  Fishing reel mounting.
Naphthoquinones, Substituted. M. Tishler. 2,325,439; July 27.
Neutralization. S. J. Holuba. 2,325,320; July 27.
Nitrogen oxide from gases, Removal of. L. J. Marcotte. 2,325,066; July 27.
Notching and blank forming apparatus. E. V. Crane. 2,325,230; July 27.
Nozzle, Sand blast. R. O. Howard. 2,325,517; July 27.
Nozzle, Sausage stuffing. C. T. Walter. 2,325,446; July 27.
N-polyalkylene polyaminomalonamides. L. H. Bock and A. L. Houk. 2,325,567; July 27.
Nuclear substituted triarylmethane derivatives and making them. L. Chalkley. 2,325,038; July 27.
Nut, Self-locking. F. W. Brooke. 2,325,303; July 27.
Oil burner. W. Ferguson. 2,325,495; July 27.
Oil extraction. F. B. Lachle. 2,325,327–8; July 27.
Oil filter. J. F. Houston. 2,325,399; July 27.
Olefin oxides, Recovery of. F. R. Balcar. 2,325,576–7; July 27.
Operating mechanism for electric switches. W. W. Edson. 2,325,382; July 27.
Optical apparatus, Continuous motion. W. H. Harrison. 2,325,131; July 27.
Optical system, Sound recording. G. L. Dimmick. 2,325,378; July 27.
Ordnance. J. Wauters. 2,325,560; July 27.
Ore concentrator. E. O. Oberdick. 2,325,340; July 27.
Ores, Separating. V. Rakowsky, G. J. Holt, and R. W. Arms. 2,325,149; July 27.
Organic polysulphides, Manufacture of. J. F. Olin and T. E. Deger. 2,325,194; July 27.
Organic thionitrates, Preparing. R. S. George, G. S. Crandall, and E. M. Nygaard. 2,325,391; July 27.
Ornamental device. F. P. Mortimer. 2,325,191; July 27.
Outside pipe cutter. C. C. Brown, J. R. Dodson, Jr., and F. L. Scott, Jr. 2,325,104; July 27.
Package, Cigarette. G. W. Aegerter. 2,325,022; July 27.
Packages, Forming. W. T. Martin. 2,325,145; July 27.
Pad manufacture. J. R. Millar. 2,325,265; July 27.
Paper, Coated glassine. T. A. Kauppi and R. W. Kolderman. 2,325,408; July 27.
Paper cutter. O. Bellar. 2,325,030; July 27.
Paper, High-wet-strength. K. W. Britt. 2,325,302; July 27.
Paraffin composition, Antioxidizing. H. G. Vore. 2,325,085; July 27.
Paraffin composition, Antioxidizing. H. G. Vore. 2,325,167; July 27.
Paraffin hydrocarbons, Alkylation of. A. V. Grosse and C. B. Linn. 2,325,052; July 27.
Partition construction. V. Lefebure. 2,325,254; July 27.
Pattern, Multiplex. S. Landa. 2,325,329; July 27.
Pavement joint. A. E. Brickman. 2,325,472; July 27.
Pea shelling tool. H. W. Hastwell. 2,325,509; July 27.
Pelleting machine. C. W. Cover. 2,325,374; July 27.
Pen, Fountain. F. P. Moore. 2,325,069; July 27.
Pen, Fountain. S. M. Sager. 2,325,550; July 27.
Periscope. W. E. Laging. 2,325,253; July 27.
Petroleum fractions, Desulphurizing. A. C. Byrns. 2,325,034; July 27.
Photoelectric control, Remote. C. W. Goodwin. 2,325,165; July 27.
Photographic objective. W. B. Rayton. 2,325,275; July 27.
Photoprint washer. W. A. Lenz. 2,325,255; July 27.
Picker mechanism. C. W. Goodwin. 2,325,164; July 27.
Pickling and cleaning device, Continuous strip. F. J. Wood. 2,325,158; July 27.
Pile fabric. W. J. Krijger. 2,325,520; July 27.
Pipe: *See*—
  Tobacco pipe.
Pipe cutter. C. E. Wright. 2,325,353; July 27.
Pipe leaks, Sealing. P. D. Merrill and F. R. McMurray. 2,325,417; July 27.
Piping element. P. Boissou. 2,325,469; July 27.
Piston ring. E. B. Rothweiler. 2,325,196; July 27.
Piston ring, Bimetallic. L. T. Barnes. 2,325,298; July 27.
Plaits, Forming. A. M. Hess. 2,325,056; July 27.
Plastic adhesive. H. E. Wening. 2,325,562; July 27.
Plastic protein articles, Accelerating of hardening of. S. Pellerano. 2,325,272; July 27.
Plier type wrench. J. Hahn. 2,325,245; July 27.
Pliers, Adjustable jaw. P. J. Cargile. 2,325,035; July 27.
Plywood corner unit, One-piece. H. McGowan. 2,325,528; July 27.
Polycondensation products containing nitrogen, Production of. P. Schlack. 2,325,552; July 27.
Pneumatic cushion. M. L. Brewster. 2,325,223; July 27.
Press: *See*—
  Drawing press.
  Forming press.
  Slug producing press.
Pressure fan, Segregated. W. H. Bretzlaff and C. P. Grimes. 2,325,221; July 27.
Pressure indicating method and apparatus. H. O. Elftman. 2,325,490; July 27.
Preventing skin drying of inks, varnishes, paints, etc. E. Edwards, Jr. 2,325,380; July 27.
Printing forms from colloids, Producing. J. Koch. 2,325,519; July 27.
Printing member. O. R. Huggins. 2,325,135; July 27.
Process and apparatus for polymerization. B. M. Marks. 2,325,067; July 27.
Production of textile materials. R. R. Stizler. 2,325,153; July 27.
Projectiles, Heat treatment of. W. H. Soderholm. 2,325,079; July 27.
Protector for drill stems. F. L. Haushalter and L. L. Horschitz. 2,325,132; July 27.
Protector mechanism for looms. G. C. Tarte. 2,325,286; July 27.
Pulverized coal burner. H. W. Hendrix. 2,325,318; July 27.
Pulverized fuel burner. R. C. Vroom. 2,325,442; July 27.
Pump: *See*—
  Fluid operated pump.
  Fuel injection pump.
Pump. A. L. Collins. 2,325,477; July 27.
Puncture-sealing pneumatic tube. E. T. Wyman. 2,325,354; July 27.
Rack: *See*—
  Bottle rack.
Rack for incubators, Turning. C. A. Lindberg. 2,325,140; July 27.
Radiator core tube. H. W. Case. 2,325,036; July 27.
Railroad car link-and-pin type coupler. W. E. Fiegle and H. Langbahn. 2,325,118; July 27.
Reading apparatus. A. A. Kent. 2,325,324; July 27.
Refractory and producing the same. H. M. Schleicher and W. E. Iverson. 2,325,553; July 27.
Refrigeration apparatus. H. R. Heintzen. 2,325,511; July 27.
Refrigerator latch. W. O. Burke. 2,325,225; July 27.
Register, Air. R. C. Vroom. 2,325,443; July 27.
Register, Air. R. C. Vroom and D. P. Graham. 2,325,444; July 27.
Regulating system, Fluid-pressure-actuated. C. W. Bristol. 2,325,103; July 27.
Resin composition. E. R. Derby. 2,325,177; July 27.
Resins, Plasticized. E. R. Derby. 2,325,178; July 27.
Resistor for rubber, Age. A. M. Clifford. 2,325,202; July 27.
Ring: *See*—
  Piston ring.
Rip gauge. H. E. Tautz. 2,325,082; July 27.
Rolling mill guide, Adjustable. U. F. Corsini. 2,325,373; July 27.
Rosin and rosin derivatives, Refining. D. A. Lister. 2,325,410; July 27.
Rubber flooring, Conductive. C. S. McChesney and J. W. Short. 2,325,414; July 27.
Rubber, Preserving. R. L. Sibley. 2,325,152; July 27.
Rubber waste materials, Reclaiming. A. Treves. 2,235,289; July 27.
Safety razor blade holder. H. W. Denny. 2,325,485; July 27.
Salvaging and lifesaving device for sunken vessels. O. S. Carpenter. 2,325,306; July 27.
Sandpaper manufacture. J. N. Borglin. 2,325,172; July 27.
Sand pump and bailer, Combination. B. G. Goble. 2,325,503; July 27.
Scale, Toy. E. F. Donovan. 2,325,488; July 27.
Scraper. H. G. Bingley. 2,325,219; July 27.
Screen: *See*—
  Framed screen.
Seat structure. C. H. Oermann. 2,325,270; July 27.
Seismic exploration, Method and apparatus for. J. P. Woods. 2,325,199; July 27.
Seismographic prospecting. A. C. Winterhalter. 2,325,157; July 27.
Separating slide fastener. A. E. Carlile. 2,325,305; July 27.
Sequential control system and apparatus. G. R. Townsend. 2,325,440; July 27.
Sewing machine. W. K. R. Beyer. 2,325,467; July 27.
Shear sharpener. C. B. Mozdy. 2,325,266; July 27.
Shears, Two-unit work-shelf. F. Toop. 2,325,347; July 27.

Sheet catcher. M. Meyers. 2,325,418; July 27.
Sheet handling apparatus. S. A. Huffman. 2,325,059; July 27.
Sheet material punching apparatus. G. F. Wales. 2,325,290; July 27.
Sheets or bands from highly viscous cellulose solutions, Manufacture of. A. Wunderer. 2,325,574; July 27.
Shield and supply container, Combined welder's. H. S. Grace. 2,325,506; July 27.
Shipping container, Refrigerated. L. F. Clerc. 2,325,371; July 27.
Shock absorbing mechanism. L. W. Setz. 2,325,430; July 27.
Shoe-bottom-coating machines. J. R. Oliver. 2,325,148; July 27.
Shoe upper lacing machine. F. A. Keaney. 2,325,137; July 27.
Sign. G. E. Sykora. 2,325,435; July 27.
Signal: *See*—
  Vehicle signal.
Signal collecting system. W. A. Schaper. 2,325,279; July 27.
Signal recording. W. B. Wait. 2,325,451; July 27.
Signal transmitter. F. H. Osborne. 2,325,536; July 27.
Silencer, Resonator. E. E. Wilson. 2,325,352; July 27.
Silk-soaking composition and bath. J. T. Eaton. 2,325,489; July 27.
Single drum locomotive boiler. G. H. Emerson. 2,325,383; July 27.
Siren. C. S. Crakes. 2,325,175; July 27.
Slide stop, Forming. D. H. Montgomery. 2,325,571; July 27.
Slings, Producing hoisting. A. Mazzella. 2,325,261; July 27.
Slug producing press. P. E. Flowers. 2,325,119; July 27.
Smokehouse. N. J. Allbright. 2,325,213; July 27.
Soap holder and saver. D. M. Wolf. 2,325,293; July 27.
Soil samples, Obtaining. H. Hoover, Jr., and H. E. Metcalf. 2,325,057; July 27.
Spacing device for punch presses and the like. W. Jagosz. 2,325,405; July 27.
Speed varying devices. A. F. Georges. 2,325,502; July 27.
Spinning and torque measuring machine. A. De Rentiis. 2,325,046; July 27.
Spray and shampoo fitting, Combined cold and hot water. C. McKendrick. 2,325,333; July 27.
Spray head. S. Isenberg. 2,325,123; July 27.
Sprayer. N. A. Constantine. 2,325,112; July 27.
Spring. H. Nutt and R. L. Smirl. 2,325,193; July 27.
Spring suspension for vehicle wheels. H. Weber and G. Petersen. 2,325,561; July 27.
Stand for motor driven tools and the like. H. E. Tautz. 2,325,083; July 27.
Starch, Manufacture of. A. H. Kelling. 2,325,250; July 27.
Steam heating system. J. A. Donnelly. 2,325,487; July 27.
Stopper, Bunghole. V. Alvear. 2,325,356; July 27.
Stopper, Dropper. S. D. Swihart. 2,325,209; July 27.
Storage battery charge indicator. J. D. Knisely. 2,325,251; July 27.
Stove, Folding. B. Robinson. 2,325,077; July 27.
Strain concentration in rigid articles, Determining. G. Ellis. 2,325,116; July 27.
Strainer for coffee makers. W. R. Weeks. 2,325,452; July 27.
Strainer, Milk. E. H. Loker. 2,325,257; July 27.
Stretcher, Curtain. B. Nelson. 2,325,268; July 27.
Strip cooler. P. H. Washman, Jr. 2,325,559; July 27.
Strip serving machine. T. H. Krueger. 2,325,063; July 27.
Strips, Coating. J. V. Giesler. 2,325,126; July 27.
Stylus, Sound reproducing. R. E. Semple. 2,325,343; July 27.
Sulphuric acid concentration. E. G. Wiley, L. A. Grosbams, and C. P. McNeil. 2,325,566; July 27.
Support: *See*—
  Filter and pump support.
Swab, Well. R. G. Taylor, Jr., and D. B. Hooser. 2,325,556; July 27.
Swimming device. H. H. Wener. 2,325,453; July 27.
Swing. C. H. Williams. 2,325,456; July 27.
Switch: *See*—
  Fuse switch.
  Toy railroad track switch.
Tank filling device. C. F. Pye. 2,325,274; July 27.
Tea, Treating. F. O. H. Chutjian. 2,325,370; July 27.
Telephone assembly B. H. Kate. 2,325,185; July 27.
Temperature determination. E. R. Howard. 2,325,058; July 27.
Testing apparatus for compressing resilient masses. H. W. Anway. 2,325,027; July 25.
Thermal insulation. C. C. Heritage. 2,325,055; July 27.
Thermostat. W. Van Guilder. 2,325,197; July 27.
Thrust bearing arrangement. D. E. Irons. 2,325,404; July 28.
Thrust bearing assembly. J. A. Zublin. 2,325,459; July 27.
Ticket issuing machine. R. H. Helsel. 2,325,054; July 27.
Time measuring indicator. O. Follender. 2,325,312; July 27.
Time piece with chronograph. P. Pfister. 2,325,539; July 27.
Tire lighting apparatus, Emergency. A. Illiano. 2,325,403; July 27.
Tobacco pipe. E. G. Martin. 2,325,412; July 27.
Toggle for crushers. E. T. Peterson. 2,325,195; July 27.
Tool: *See*—
  Diamond or the like cutting tool.
  Expanding and staking tool.
  Machine tool.
  Pea shelling tool.
Tool for testing springs, Hand. E. W. Gent. 2,325,125; July 27.
Toy. J. F. Fleming. 2,325,496; July 27.
Toy railroad track switch. J. L. Bonanno. 2,325,471; July 27.
Transfer device. O. G. Hayes. 2,325,203; July 27.
Transformer. J. L. Bonanno and A. Ehret. 2,325,470; July 27.
Tray, Ice. C. R. Carney. 2,325,226; July 27.
Treating fish livers to remove the oil therefrom. L. O. Buxton and S. T. Lipsius. 2,325,367; July 27.
Truck. P. W. Eaton. 2,325,568; July 27.
Truck having booster mechanism. R. Hastings, Jr. 2,325,396; July 27.
Truck, Material handling. E. A. Wagner. 2,325,445; July 27.
Truck, Railway vehicle. J. G. Blunt. 2,325,468; July 27.
Truck unloader, Detachable. W. L. Erickson. 2,325,492; July 27.
Tube: *See*—
  Puncture-sealing pneumatic tube.
  Radiator core tube
Tube cutoff, Automatic. L. C. Shippy. 2,325,431; July 27.
Tube structure. K. F. Mayers. 2,325,527; July 27.
Turret, Control. W. R. Tucker. 2,325,348; July 27.
Umbrella attachment, Postman's. W. H. Major. 2,325,526; July 27.
Unsymmetrical derivatives of 4,4′-diamino-diphenyl sulphone. H. A. Shonle and A. M. Van Arendonk. 2,325,344; July 27.
Upholstering construction. H. J. Norwood. 2,325,269; July 27.
Vacuum cleaner. G. E. Lofgren. 2,325,188; July 27.
Vacuum device. H. Scherbak. 2,325,575; July 27.
Valve: *See*—
  Liquid filling valve.
Valve. W. J. Kiene. 2,325,325; July 27.
Valve for automobile heaters. H. J. De N. McCollum. 2,325,189; July 27.
Valve for hydraulic coupling, Dump. N. L. Alison. 2,325,090; July 27.
Variable speed transmission device. C. E. Johnson, E. Mendenhall, and B. N. Palm. 2,325,323; July 27.
Vehicle signal. J. B. Holmes and L. H. Tiley. 2,325,319; July 27.
Venetian slat unit. M. J. Witteman. 2,325,458; July 27.
Vibration translating device. G. J. V. Faley. 2,325,117; July 27.
Vibrator. R. L. Johnstone. 2,325,248; July 27.
Viscosity responsive apparatus. T. D. Thompson and G. V. Caesar. 2,325,573; July 27.
Vitamin B_6 and related compounds. S. A. Harris. 2,325,053; July 27.
Vortex eliminator in air handling apparatus. T. A. Walters. 2,325,154; July 27.
Washer: *See*—
  Photoprint washer.
Wattmeter, Thermal demand. H. C. Thomas and E. E. Lynch. 2,325,438; July 27.
Weather surface covering. W. R. Gardner. 2,325,124; July 27.
Weighing system. M. C. Tate. 2,325,345; July 27.
Welding apparatus. W. A. Weightman. 2,325,291; July 27.
Welding machine, Projection. H. P. Guirl and F. G. Troppman. 2,325,507; July 27.
Welds, Treating. J. R. Craig. 2,325,113; July 27.
Welt hook. H. J. Straussberger. 2,325,208; July 27.
Winding apparatus. E. J. Abbe. 2,325,211; July 27.
Window cowl. W. C. Rife. 2,325,276; July 27.
Windshield for microphones. M. Rettinger. 2,325,424; July 27.
Wire, Coating. M. G. Whitfield. 2,325,156; July 27.
Wire drawing apparatus. R. W. Pursel. 2,325,342; July 27.
Wire-lacing apparatus. O. F. Arthur. 2,325,461; July 27.
Work clamping device. E. W. Fredrickson. 2,325,387; July 27.
Wrench: *See*—
  Plier-type wrench.
Yarn finishing. V. R. Hardy. 2,325,129; July 27.
Yarn, Nonshrinking. H. G. Ingersoll. 2,325,060; July 27.
Yarn package. E. K. Gladding. 2,325,127; July 27.

CLASSIFICATION OF PATENTS

ISSUED JULY 27, 1943

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

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This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

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THE

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Notice

In accordance with the provisions of rule 17 of the Rules of Practice in the United States Patent Office, an examination for the registration of attorneys and agents to practice before the United States Patent Office will be held on Wednesday, October 13, 1943.

This examination may be taken in any of the large cities of the country and will be given under the direction of the Civil Service Commission. Applications to take the examination should be made to the Commissioner of Patents and such applications must be received in the Patent Office not later than September 27, 1943.

Application blanks may be obtained from the Chief Clerk of the Patent Office.

HENRY VAN ARSDALE,
Chairman of the Committee on Enrollment and Disbarment.

Disclaimer

2,227,121.—*William B. Blanton*, Merrick, N. Y. PRINTING TELEGRAPH SYSTEM. Patent dated December 31, 1940. Disclaimer filed July 3, 1943, by the assignee, *The Western Union Telegraph Company.*

Hereby enters this disclaimer to claims 1, 2, 3, 4, 5, 6, 7, 11, 13, 15, 16, and 18 of the patent.

Notice of Cancellation.

U. S. PATENT OFFICE, *Richmond, Va., July 9, 1943.*

Technical Lubricants Company, its assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Sulflo, Inc., 1143–45 E. Jersey St., Elizabeth, N. J., to effect the cancellation of trade-mark registration of Technical Lubricants Company, 1012 Baltimore Ave., Kansas City, Mo., No. 287,241, dated September 15, 1931, and the notice of such proceeding sent by registered mail to the said Technical Lubricants Company at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Technical Lubricants Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

Notice of Cancellation

U. S. PATENT OFFICE, *Richmond, Va., July 17, 1943*

John N. Melahoures, his assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Theodoros S. Dooganiotis, 103 Liberty St., Newburgh, N. Y., to effect the cancellation of trade-mark registration of John N. Melahoures, 108 William St., Newburgh, N. Y., No. 306,695, dated September 26, 1933, and the notice of such proceeding sent by registered mail to the said John N. Melahoures at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said John N. Melahoures, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

Adjudicated Patents

(C. C. A. Ohio.) Stover patent, No. 1,911,250, for incubator, claim 5 *Held* valid and infringed. *Petersime Incubator Co.* v. *Bundy Incubator Co.*, 135 F.(2d) 580.

(C. C. A. Mo.) Pierson patent, No. 1,972,031, for straw retarder, claims 1, 2, 5, 6, 8, 9, 10, and 11 *Held* invalid. *J. I. Case Co.* v. *Gleaner Harvester Corp.*, 135 F.(2d) 553.

(D. C. Del.) Gillen and Packer patent, No. 2,018,061, for bottle closure, claim 1 *Held* invalid. *Gillen* v. *Reynolds Metals Co.*, 49 F. Supp. 1006.

Conditions of Applications Under Examination at Close of Business July 17, 1943

(Total number of applications awaiting action, excluding Trade-Mark Division, 39,741; Trade-Mark Division, 964. Oldest new case, Sept. 20, 1942; oldest amended, Sept. 22, 1942)
(The dates given are 1943 except where † indicates 1942)

Divisions, Examiners, and Subjects of Inventions	Oldest new application awaiting office action	Oldest amended application awaiting office action	No. of applications awaiting action
1. TUCKER, M. W., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Domestic Cooking Vessels; Sewerage.	Mar. 30	Apr. 5	282
2. HERRMANN, D., Fishing and Trapping; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Textiles Wringers; Butchering.	Mar. 19	Mar. 6	280
3. WOLFFE, S., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	†Oct. 5	†Oct. 2	947
4. BISHOP, WALTER C., Conveyors; Hoists; Handling Apparatus; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds; Pneumatic Dispatch; Store Service; Mining, Quarrying and Ice Harvesting.	Jan. 29	Feb. 8	430
5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Clasps.	†Dec. 3	†Dec. 7	498
6. GENIESSE, E. W., Carbon Chemistry (part)	†Dec. 14	†Dec. 17	1034
7. JARBOE, C. G., Optics; Photography	Feb. 2	Feb. 4	767
8. ADAMS, F. L., Furniture; Kitchen and Table Articles; Racks and Cabinets	Feb. 2	Jan. 23	542
9. BENSON, R. B., Pumps and Fans; Fluid and Fluid-Current Motors	†Nov. 18	†Dec. 19	751
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	Jan. 13	Jan. 14	348
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Stop Mechanisms	Jan. 29	Jan. 20	354
13. DONNELLY, A. E., Metal Working (part); Gear Cutting, Milling and Planing; Needle and Pin Making	Feb. 1	Jan. 30	582
14. HANLIN, GEORGE, Metal Working (part); Farriery; Wire Fabrics	Mar. 4	Mar. 9	492
15. HENKIN, BENJ., Glass, Plastic Block and Earthenware Apparatus; Plastics	Jan. 14	Jan. 29	770
16. SPENCER, C. J., Telegraphy; Telephony	†Dec. 12	†Dec. 4	581
17. HABECKER, LEON B., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet or Web Feeding; Type Setting.	†Oct. 16	†Oct. 7	719
18. KURZ, J. A., Motors, Expansible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal Combustion Engines.	†Nov. 24	†Dec. 2	569
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	†Oct. 27	†Oct. 28	547
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Undertaking; Bread, Pastry, and Confection Making; Laminated Fabrics (part).	Feb. 6	†Dec. 17	460
21. THOMPSON, T. J., Textiles	Feb. 15	Feb. 3	306
22. RINGLE, D., Aeronautics; Firearms; Ordnance and Explosive Devices	†Oct. 12	†Oct. 12	1794
23. BARROWS, B., Cash Registers; Calculators (part)	Jan. 21	Jan. 28	154
24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines	Mar. 22	Mar. 28	450
25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Feb. 3	Jan. 11	585
26. YOUNG, R. R., Electricity—Generation and Motive Power	†Dec. 5	†Dec. 16	772
27. CLARK, W. N., Brush, Broom, and Mop Making; Brushing, Scrubbing and General Cleaning; Textiles, Fluid Treating Apparatus; Ironing; Washing Apparatus.	†Nov. 30	†Nov. 18	571
28. SOLYOM, H. L., Internal-Combustion Engines (part); Cylinders and Pistons	†Oct. 8	†Oct. 26	659
29. SHKLARIN, J. B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Package and Article Carriers; Woodworking; Tools; Metal Working, Assembling.	Mar. 6	Mar. 23	399
30. McCANN, LEO P., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	Apr. 1	Mar. 26	276
31. DUNCOMBE, C. S., Hydrocarbons; Mineral Oils	Feb. 4	Feb. 3	1345
32. LESH, K., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; Earth Boring.	Jan. 9	Jan. 4	631
33. HULL, J. S., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements	Feb. 8	Feb. 5	623
34. SAPERSTEIN, S., Electricity—Meters and Transmission to Vehicles; Railways; Track Sanders; Signals and Indicators.	Feb. 12	Feb. 16	427
35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles	Feb. 17	Feb. 20	489
36. McFADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring	Mar. 18	Mar. 22	307
37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Mar. 4	Feb. 15	399
38. KRAFFT, C. F., Coating Processes; Coating or Plastic Compositions (part)	†Dec. 10	†Nov. 10	614
39. WHITNEY, F. I., Fluid-Pressure Regulators; Valves; Water Distribution	Mar. 27	Apr. 1	387
40. DRUMMOND, E. J., Receptacles	Apr. 19	Apr. 19	404
41. HERTZ, M., Coin Handling; Recorders; Deposit Receptacles; Counters and Calculators (part); Typewriting Machines: Check-Controlled Apparatus.	Jan. 25	Jan. 7	378
42. MARANS, H., Electric Signaling	Apr. 1	Apr. 2	337
43. FEDERICO, P. J., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Fluid Treatment of Textiles; Azo Compounds.	†Sept. 20	†Sept. 22	813
44. HARVEY, L. P., Refrigeration	Jan. 30	†Nov. 16	276
45. HILL, H. D., Shafting and Flexible Shaft Couplings; Wheels and Axles; Resilient Tires and Wheels; Lubrication; Bearings and Guides; Motors; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding; Land Vehicles (part).	Jan. 30	Feb. 15	686
46. BLEECKER, V. E., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers; Heating Systems; Coating Apparatus.	†Dec. 12	Jan. 16	370
47. KANOF, WM. J., Clutches and Power Stops; Brakes; Boring and Drilling; Land Vehicles (part)	†Dec. 24	†Dec. 26	996
48. ROEPKE, O. B., Electricity, General Applications; Igniters	†Nov. 26	†Nov. 5	759
49. SHEFFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Purification.	Jan. 13	Jan. 11	588
50. LEVIN, SAMUEL, Resins; Rubber; Carbohydrates and Derivatives	†Dec. 31	Jan. 4	1171
51. BACKUS, C. D., Radiant Energy	†Dec. 28	†Dec. 30	1111
52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Pipes and Tubular Conduits.	Jan. 28	Jan. 9	647
53. PECK, M. K., Label Pasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas and Canes; Curtains, Shades and Screens; Cutlery.	Feb. 24	Mar. 9	201
54. STRACHAN, O. W., Electric Lamp and Discharge Devices (part)	†Oct. 17	†Nov. 18	534
55. BOWEN, S. T., Artificial Body Members; Dentistry; Surgery	†Oct. 7	†Oct. 10	812
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Laminated Fabrics (part); Paper Making	Jan. 14	Jan. 6	717
57. NICOLSON, G. D., Toys; Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	†Sept. 7	†Oct. 17	475
58. DOWELL, E. F., Abrading; Bottles and Jars; Stone Working	Feb. 8	Jan. 16	540
59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds; Compositions (part).	†Sept. 22	†Sept. 29	1212
60. GLASS, R. L., Electricity, Heating and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Marine Propulsion; Consumable Electrode Lamp and Discharge Devices.	†Nov. 13	†Nov. 13	512
61. YUNG KWAI, B., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery; Laminated Electrical Insulation, Belt, Hose, Tire and Ball Making; Boats and Buoys.	†Dec. 7	†Dec. 26	495
62. PUGH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors	Mar. 18	Feb. 26	460
63. WINKELSTEIN, A. H., Preserving; Poisons; Fermentation; Foods and Beverages; Proteins; Oils and Fats.	†Nov. 19	†Nov. 10	1000
64. NASH, P. M., Acetylene; Gas Mixers; Compositions (part); Distillation; Fuel	Feb. 20	Feb. 20	1073
65. McDERMOTT, F. P., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave Transmission; Telephony, Repeaters and Relays.	†Nov. 20	†Nov. 21	731
Trade-Marks: RICHMOND, F. A	June 4	June 12	954
Designs: KALUPY, H. H	June 17	June 28	302

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

In re Waugh

No. 4,697. Decided April 5, 1943. Petition for rehearing denied May 17, 1943

[— F.(2d) —]

1. Division—Waiver.

The rejection of a claim by the Primary Examiner and the Board of Appeals as unpatentable over the prior art, when the same claim was also rejected on the ground of estoppel arising from an uncontroverted requirement for division *Held* not to amount to a waiver of the requirement for division.

2. Same—Estoppel.

"Appellant admits that he elected to claim the composition and product and did not question the correctness of the action of the Examiner requiring that the method claims be divided out of the application. After having so elected, he urged the allowance of the method claim 34 in the instant application. Both tribunals held that under such circumstances he was estopped from claiming claim 34 in the instant application. Notwithstanding the fact that the Board passed upon the patentability of the claim over the prior art, we think its holding on the question of estoppel under the circumstances stated was proper, and said holding is affirmed."

3. Patentability—Res Judicata.

"It is at once apparent from appellant's contentions, that he may feel that if and when the method claims are considered by the Patent Office tribunals, they might regard their holding as to the unpatentability of claim 34 as res judicata, which would bar him from afterwards presenting the same subject-matter. On this phase of the case, it seems to us that the Patent Office passed upon the patentability of this claim merely as a matter of precaution, in view of the probability of appeal, and that it was not necessary for the Board to have passed upon the prior art status of the claim. We are of the opinion that it is not necessary for us to pass upon the correctness of the conclusion of the Board as to the unpatentability of claim 34 in view of the prior art, and that under such circumstances appellant's fears relating to the issue of res judicata are groundless."

4. Patentability—Lagging Composition.

Certain claims to a lagging composition *Held* unpatentable over the prior art.

Appeal from the Patent Office. Affirmed.

Messrs. Morrison, Kennedy & Campbell (*Mr. Donald Campbell* and *Mr. Edmund H. Parry, Jr.*, of counsel) for Waugh.

Mr. W. W. Cochran (*Mr. E. L. Reynolds* of counsel) for the Commissioner of Patents.

Bland, *J.*:

The Board of Appeals of the United States Patent Office affirmed the decision of the Primary Examiner in finally rejecting all of appellant's claims, 27 to 34 inclusive, in an application for a patent. Appeal has been taken here from the Board's decision.

While all the claims involved differ in some respects, which difference will be shown hereinafter, claims 27 and 28, we think, may be taken as fairly representative. They read:

27. A highly refractory and insulating lagging composition adapted for self-adherent coating upon high temperature apparatus, and which is potentially plastic by the addition of water, comprising a dry mixture of (*a*) a preponderating proportion of finely divided mineral grog which is carbon-free and refractory and the particles of which are minutely porous; (*b*) with a proportion of hydraulic cement, adapted to rigidify the applied mixture after its expansion but before drying; (*c*) a proportion of finely divided and dried unburned fireclay adapted to confer on the wetted mixture a degree of plastic cohesion to trap and hold generated gas bubbles and adhesion to stick to a surface to be lagged; (*d*) a strengthening proportion of an asbestos-like mineral binder in the form of fine fibers of substantial length; and (*e*) a small proportion of a dry and finely divided inorganic expanding agent which is adapted like aluminum powder to react with other ingredients when wetted, for cellular self-expansion of the mixture; such lagging mixture being adapted for use by wetting to a pasty plasticity and promptly coating as an adhering layer upon the surface to be lagged, whereupon the expanding agent generates gas bubbles to expand the coating into a cellular layer, which is then solidified by setting, and finally dries into an adhering, durable, refractory and heat-insulating lagging layer wherein the cells are separated by finely porous walls strengthened by the mineral fibers.

28. A lagging composition as in claim 27 and wherein the ingredient proportions respectively are of the order of (*a*) 130 parts, (*b*) 120 parts, (*c*) 110 parts, (*d*) 40 parts, and (*e*) between ½ and 2 parts.

Claims 27, 28, 29, 30, and 31 relate to an insulating refractory lagging composition, while claims 32 and 33 relate to an insulating refractory lagging layer. Claim 34 relates to a method of applying the composition in the lagging art.

The instant application, entitled "Insulating Refractory Plastic Composition and Method and Product," is stated by applicant to be an improvement over that which is disclosed in his co-pending application relating to a composition to be marketed in dry condition. The disclosure of the instant application is concerned with an insulating refractory plastic composition or lagging material adapted for plastic coating or jacketing of the outer surfaces of furnaces, boilers, flues, pipes, and other high temperature equipment. Its purpose is to protect the metalwork to which it is attached and to insulate against excessive conduction and waste of heat.

Appellant's instant application is particularly directed to the object of improving the expanding action of the mixture so that the wetted plastic material will have structural cells of appreciable size therein, separated by relatively thin walls that are themselves microscopically porous because of the character of the basic constituent—"grog." Appellant attains the stated end by the use of either a natural grog, such as diatomaceous earth, or an artificial or synthetic grog. The mode of production of the synthetic grog is described as that of thoroughly premixing very finely divided carbonaceous particles (such as paper) with a high quality of fireclay, also finely divided, and with any other desired ingredient, adding water before the mixing is completed. The material is then molded to the desired shape, and by drying it is "set." It is first burned in the presence of air to consume the carbon particles, leaving microscopic voids, and then it is finally burned at a high temperature in the usual manner of burning fireclay products. These products, when completed, are crushed and pulver-

ized to a fine powder and constitute the preferred grog of the present disclosure. With this grog, appellant uses hydraulic cement, a quantity of finely divided, dried, unburned fireclay, and an expanding agent, preferably aluminum powder, in small percentages. There is also included a proportion of asbestos-like mineral matter in the form of fine fibers.

[1] [2] The Examiner required division between the claims directed to the plastic composition and the layer made from such composition and the claims relating to the method of applying the coating. He stated that the applicant chose to prosecute "composition" claims without argument and is therefore estopped to claim the method (as in claim 34) in the instant application, by reason of the practice in *Ex parte Higinbotham*, 1922 C. D. 29, 304 O. G. 231.

Claim 34, the method claim, remained in the application and, according to appellant's statement, was substituted for the original method claims for the purpose of appeal. It was rejected by both tribunals below on said ground of estoppel, as well as upon the prior art. As to this claim, appellant urges here that since the tribunals passed upon the patentability of the claim, the Patent Office has thereby waived its requirement for division, and that appellant therefore may properly question here the correctness of the conclusion of the Patent Office tribunals as to the unpatentability of the claim over the prior art.

As we view the situation with respect to claim 34, the mere fact that the Patent Office tribunals rejected the same upon two grounds does not amount to a waiver of the requirement for division. Appellant admits that he elected to claim the composition and product and did not question the correctness of the action of the Examiner requiring that the method claims be divided out of the application. After having so elected, he urged the allowance of the method claim 34 in the instant application. Both tribunals held that under such circumstances he was estopped from claiming claim 34 in the instant application. Nothwithstanding the fact that the Board passed upon the patentability of the claim over the prior art, we think its holding on the question of estoppel under the circumstances stated was proper, and said holding is affirmed.

[3] It is at once apparent from appellant's contentions, that he may feel that if and when the method claims are considered by the Patent Office tribunals, they might regard their holding as to the unpatentability of claim 34 as res judicata, which would bar him from afterwards presenting the same subject-matter. On this phase of the case, it seems to us that the Patent Office passed upon the patentability of this claim merely as a matter of precaution, in view of the probability of appeal, and that it was not necessary for the Board to have passed upon the prior art status of the claim. We are of the opinion that it is not necessary for us to pass upon the correctness of the conclusion of the Board as to the unpatentability of claim 34 in view of the prior art, and that under such circumstances appellant's fears relating to the issue of res judicata are groundless.

Appellant, in his brief, makes the following statement concerning his alleged invention:

> The main element of applicant's composition and product is a fine aggregate or "grog", and with this invention its fine mineral particles are minutely porous. Other elements are hydraulic cement and a small portion of powdered aluminum. When wetted the aluminum combines chemically and disappears as such but leaves numerous bubbles, rendering cellular the mixture, by expansion, with porous grog walls between cells. The wetted cement then sets and hardens the expanded mix.

All the claims other than claim 34 stand or fall together. They were rejected by the Patent Office tribunals upon the following references: Desmarquest, 1,761,108, June 3, 1930; Collings et al., 1,770,767, July 15, 1930; Offutt, 1,961,525, June 5, 1934; Eklund, 2,081,802, May 25, 1937.

The Examiner, in rejecting the claims now under consideration, said (reference numerals omitted):

> Analysis of claim 27 shows that applicant's mixture is made of:
>
> 1. fine mineral grog.
> 2. cement.
> 3. fireclay.
> 4. mineral fibers.
> 5. inorganic expanding agent (like aluminum).
>
> Offutt shows a mix made of (1) pumice which is a lightweight mineral, porous and grog like, (2) cement, (3) clay, (4) asbestos, and (5) air mixed in in the mixing operation. No invention over Offutt is seen in providing aluminum powder instead of the air of Offutt since aluminum powder has been used in similar mixes as shown by Desmarquest. In fact Desmarquest shows a mixture similar to applicant's except for the absence of asbestos fibers. The reaction of aluminum in alkaline mixtures is well known and it is obvious and expected in providing a porous mass thereby.
>
> Eklund teaches a mix of aggregate, cement, clay and aluminum. It is obvious that a stronger structure is produced where asbestos might be introduced as in the patent to Offutt.
>
> Collings shows that a mix of aggregate of light weight material cement, clay, mineral fibers and inorganic gas expanding material is old. It is obvious that no invention would reside in substituting aluminum gas evolving agent for that of Collings et al. since the function is the same and one would be as effective as the other. It is noted here that claim 27 is not restricted to the use of aluminum though that is the only specific gas evolving agent originally disclosed. Also the claim is not restricted to asbestos though such was the only mineral fiber originally disclosed.
>
> Claim 27 is considered prolix, being nearly a page long and considerably amplified over the ingredients by their function and physical and chemical characteristics.
>
> Claim 28 is based on claim 27 but is not considered patentable over the art as applied to claim 27 because the proportions are arbitrary and not critical, the original disclosure showing broad ranges. Further like claim 27 the materials are indefinite and the giving of specific quantities for indefinite materials (which are themselves new matter) is ambiguous.
>
> Claim 29 is similar to claim 27 in material but recites Portland cement, asbestos and aluminum powder specially. These materials are all shown by the patents over which nothing patentably different is seen, particularly in view of a lack of proportions.
>
> Claim 30 is based on claim 27 but is drawn to new matter in the ranges which are not supported in the original disclosure but only in paper No. 7 where objectionable new ranges are proposed. In the absence of anything critical in these ranges the art is considered anticipatory.
>
> Claim 31 drawn substantially to the same materials and rejectable on the same ground as claim 29 is further rejectable as including process limitations in the preparation of the grog.
>
> Claim 32 is drawn to a layer of material which has set in place and is made up of grog, cement, fireclay and asbestos. No mention is made of gas agent, though the product is said to be cellularly expanded. The art is thought to show such cellular products with these materials.
>
> Claim 33 is based on claim 27 and is thought met by the art and other reasons as is claim 27. Claim 33 further has process limitations and is rejectable therefor.

The Board in affirming the decision of the Examiner, after describing the details of the alleged invention, said:

> The claims have been rejected on the art, as shown in the patents to Collings et al., Offutt, Eklund and Desmarquest. Claim 27, for example, calls for a finely divided mineral grog, a proportion of hydraulic cement, a proportion of fireclay, a proportion of an asbestos-like mineral binder in the form of fibers and a small proportion of an expanding agent which is adapted like aluminum powder to react with the other ingredients when wetted for cellular self-expansion of the mixture.
>
> The patent to Collings et al. relates to the building of floors, walls and similar elements of construction, but more particularly to a construction to prevent transmission of sound by the use of cellular mineral aggregate held together by a binder in such a way that a maximum of cells is produced. The binding agent for the mineral aggregate is a cement and it is stated that this binding material may be emulsified with air so that it presents a maximum number of air cells. This patent also discloses the use of clay and asbestos or any fibrous or cellular material. It is the Examiner's position that no invention would reside in substituting aluminum gas evolving agent for that of Collings et al. since the function is the same and one would be as effective as the other.
>
> Appellant argues as to the Collings et al. patent that it relates to a partition or wall in a building and is fabricated to render the wall proof against noise transmission or reverberation and that it is made as blocks or tiles or poured into temporary forms inconsistently with lagging.
>
> It is noted that in applicant's disclosure on page 12 it is stated that this mixture or composition comprising the grog, cement and expanding agent with both fireclay and asbestos added is adapted to the making of a product in the form of a block or blocks having dual utilities, that when wetted into plastic condition the mixture is molded for this special purpose into a slab or ingot and it is then subjected to a drying temperature and is adapted to be cut into blocks or bricks so that it appears that one of the products of applicant's composition is for bricks or blocks to be molded into shape.
>
> Other patents in this art, such as Offutt and Desmarquest, disclose an aluminum powder to be used with a mineral aggregate and Portland cement for producing a cellular structure. The Offutt patent also discloses that the aggregate used may be slag, volcanic lava and various other substances. The Eklund patent also teaches the use of an aggregate mixture with cement, clay and aluminum and it is the Examiner's position that it would be obvious that a stronger structure would be produced where asbestos is introduced, as in the Offutt disclosure. While the material of these patents may not have been used for lagging purposes, since they are usable for purposes similar to other products to be produced by applicant from his composition, it is considered that the Examiner's position with respect to claim 27 is proper and that the claim is unpatentable.
>
> Claim 28 is based on claim 27 and is limited to specific proportions. The Examiner indicates that the specific quantities for the materials are new matter, but it appears that these quantities are mentioned specifically in the example given on page 6 of the specification. It does not appear, however, that these particular proportions are critical and it is not seen that claim 28 is allowable over the references cited against claim 27.
>
> Claim 29 has been rejected on the references, which appears proper and claim 30 is said to be drawn to new matter in the ranges. The Examiner states that the ranges set out in claim 30 are not supported by the original disclosure, but only by an amended disclosure and it appears that this is true. Claim 30, in addition to being unpatentable over the art, is properly rejected on the ground of new matter.
>
> Claim 32, as pointed out by the Examiner, does not include any gas agent and is broader in that respect than the other claims. This claim appears to be unpatentable over the patent to Offutt in particular. The mere statement that it is a lagging material is not considered sufficient to distinguish in view of applicant's disclosure.
>
> Claims 33 and 34 are considered unpatentable over the references for the reasons given by the Examiner and claim 34 is also considered to have been properly rejected as directed to a non-elected subject matter.

Except in particulars hereinafter referred to, the references seem to be sufficiently described in the decisions of the Examiner and the Board. The Collings et al. patent apparently is the most pertinent and applies to certain limitations in all the claims. Appellant contends that said patent, as well as the Desmarquest patent, has no reference to refractory lagging; that the Collings et al. patent relates to building materials adapted to minimize sound transmission through floors and partitions and that Desmarquest has nothing to do with the lagging of heat apparatus but relates only to cellular building blocks. He points out that the blocks or slabs of Collings et al. are cast in temporary molds or forms. The Board, in the above quotation, called attention to the fact that the applicant's instant alleged invention is also adapted to the making of a product in the form of "a brick or block having dual utilities." The application also states:

> "It is adapted to collateral uses, such as for fireproofing as well as insulating bins, walls, columns, roofs etc. It is castable into ingots which may be cut and shaped for specific uses."

In this court appellant urges that the broad subject-matter of his invention relates to the insulation of furnaces which have temperatures up to 2,000° F. It is, however, not seen why the Collings et al. reference is not pertinent. That patent emphasizes the use of a cellular mineral aggregate so as to produce a maximum of cells, obviously, thus producing a product possessing most of the structural features found in appellant's composition. The record shows that it is old in the art of producing building materials having the characteristics emphasized by appellant to use cement as a binding material and to use clay and asbestos and other fibrous or cellular materials. It was the view of the Patent Office tribunals that there was no invention in substituting aluminum powder as the gas-generating agent for the limestone dust and phosphoric acid disclosed by Collings et al., since their functions are the same and their qualities well-known to the art.

Desmarquest discloses the use of an aluminum powder along with a mineral aggregate and cement to produce a cellular structure.

Offutt (who was interested in the acoustical properties of building materials) points out that the aggregate may be slag, volcanic lava, or other substances.

Eklund teaches the use of an aggregate mixture with cement, clay, and aluminum powder in making a "light concrete." The Examiner properly pointed out that it would not be a matter of invention to use asbestos, as in the Offutt disclosure, if a stronger structure was desirable.

With reference to the claims which set out the proportions of the components of the mixture, appellant states in his brief:

> These with a small latitude (10 to 20% is suggested) are substantially critical, at least in the sense of being essential, to afford a useful lagging, as applicant's affidavit establishes * * *.

Appellant has not otherwise in brief (and nowhere in his application) stressed the contention with reference to the said proportions being critical, and the Board of Appeals held:

> * * * It does not appear, however, that these particular proportions are critical and it is not seen that claim 28 is allowable over the references cited against claim 27.

The Examiner pointed out that the proportions, such as those that are specified in claim 28,

> "are arbitrary and not critical, the original disclosure showing broad ranges."

The application states that a

"typical embodiment may involve a mixture of the recited ingredients in the following preferred illustrative proportions, or variations therefrom to the extent of from ten to twenty per cent more or less."

In rejecting the claims on November 18, 1940, the Examiner had stated:

* * * The broad ranges expressed in some of these claims clearly shows that nothing critical resides either in the materials used or their proportions.

On May 16, 1941, appellant traversed the question of criticalness, and on May 19 (the same day that appeal was taken to the Board) appellant submitted his affidavit relating to the subject of criticalness. We quote brief excerpts from the same. Referring to the range of latitude of the components set out in the specification, appellant said:

In my original specification, knowing that some latitude was possible, although not extensive, I included a statement indicating possible proportions from 10 to 20% above and below the above stated figures. I knew that any wide change would destroy the technical and commercial value of the mixture, and the latitude was set perhaps too broadly * * *.

* * * * * * *

These ranges are substantially too wide, as I have determined by test and research. While I believe that my composition discloses novelty, even with these broad ranges, I am ready to disclaim them by narrowing them to what are found to be essential for the practical purposes of the composition. * * *

* * * * * * *

This narrowing of ranges was in part to meet the Examiner's remark in the pending rejection that the broad ranges formerly expressed in some claims tend to show that nothing critical resides in the materials or their proportions, which in fact is not the case when the ranges are properly confined, as above.

* * * * * * *

Therefore, while retaining the first-mentioned example as a sort of central or average formula, I have by this disclaimer reduced the range of variation from the central proportions to a practically small extent * * *.

[4] It seems clear from the foregoing that the application passed upon by the Examiner and presented to the Board upon appeal was not regarded as showing critical proportions of the elements of the combination, and that appellant's instant claims are nowhere shown to distinguish over the prior art by virtue of the criticalness in the range of the proportions of the various components used.

We see no merit in the contention that appellant's application emphasizes the use of his composition as a lagging material, as distinguished from similar compositions used for the purposes disclosed by the references. To lag an article to retain its heat is to heat-jacket it; for example, such an article as a steam cylinder. The definition of "lagging" includes the function of producing a non-conducting covering, as on a boiler. See Funk & Wagnalls New Standard Dictionary, 1942 Ed. Appellant's lagging of a glass, oil cracking, or steel furnace, as far as the claims here involved are concerned, consists not necessarily in the manner in which it is applied, but in the character of the composition used. In view of the prior art it is thought not to be inventive to use the composition in making blocks for insulating or refractory purposes, and for the same reason it also seems obvious that it would not be inventive to use it by spreading it on the outer walls of a furnace. A case which seems to be particularly in point here is *Atlantic Works* v. *Brady*, 107 U. S. 192, 200, 23 O. G. 1330.

In view of the fact that we are in entire harmony with the conclusion reached by the Board and its reasoning in reaching such conclusion, it follows that, without further discussion of the subject-matter, its decision should be, and it hereby is, affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE MIMS

No. 4,699. Decided February 1, 1943

[133 F.(2d) 937]

1. PATENTABILITY—NEW MATTER.

Where amendments by appellant to his parent application involved matter not described or suggested in his parent application as filed *Held* that appellant might not base amendments to his continuing application, on appeal, upon such new matter found in his amendments to his parent application.

2. SAME—SAME.

"We may assume that in this case if the amendment to his parent application did not contain new matter, appellant would have the right to incorporate in his instant application by way of amendment the subject matter of that application as amended, but we cannot agree with him that the question of whether his amendments to his parent application included new matter may not be inquired into."

3. SAME—SAME—SUPPLEMENTAL OATH.

"As to the effect of a supplementary oath filed with respect to new matter added to applications, rule 70 * * * is explicit that that may not be done where the matter added by amendment is not found in the original application and involves a departure from the original invention."

4. SAME—SAME—SAME.

"Section 4892 of the Revised Statues (title 35, sec. 35) makes no provision for a supplemental oath, and the only rule of the Patent Office permitting it is rule 48 * * * which is not applicable here for the reason that the amendments include matter not 'shown or described' in either appellant's instant application as filed or in his parent application as filed."

5. SAME—SAME—METHOD OF FORMING SHEETS FROM KAPOK.

Claims for a method of forming sheets from kapok *Held* unpatentable because drawn to new matter.

APPEAL from the Patent Office. Affirmed.

Mr. William C. Linton (*Mr. Ulle C. Linton* of counsel) for Mims.

Mr. W. W. Cochran (*Mr. R. F. Whitehead* of counsel) for the Commissioner of Patents.

LENROOT, *J.*:

Appellant has here brought before us for review a decision of the Board of Appeals of the United States Patent Office affirming a decision of the Primary Examiner rejecting claims 17, 18, and 20 of appellant's application for a patent, Serial No. 276,094. No claims were allowed.

The claims were rejected upon two grounds:

1. That they are unpatentable because they claim matter not disclosed in the original specification.

2. That they are unpatentable over the cited prior art. The claims read as follows:

17. The method of harnessing or controlling light and short staple fibrous materials such as kapok, whereby the latter may be formed into a continuous sliver, which comprises the steps of placing the light fibrous materials upon a continuously travelling conveyor, arranging the material upon said conveyor until formed into a sliver without the application of pressure that would tend to bruise or crush the fibers thereof, distributing the fibers of the material while upon said conveyor until the so formed sliver has the same consistency throughout, maintaining the thickness of the sliver while upon said conveyor and finally permanently connecting the fibers together.

18. The method of producing a sheet without the use of covering materials from a loosely agglomerated mass of fibrous material in a continuous and progressive manner, which comprises the steps of mechanically arranging said fibrous material until preformed into sheet, distributing the material of said preformed sheet until the latter has a desired density throughout, further distributing the fibers of said material until the sheet has a uniform thickness throughout and finally sewing the fibers of the material together whereby the same will be permanently retained in the sheet as preformed.

20. The method of forming kapok into a continuous blanket without the use of covering materials, which comprises the steps of placing the loosely agglomerated fibers of kapok upon a continuously travelling conveyor, distributing the fibers of the kapok upon said conveyor until a blanket is formed, further distributing the fibers of kapok until the so formed blanket has the same consistency throughout, further distributing the fibers of said preformed blanket until the latter has the same thickness throughout without the application of pressure that would tend to bruise or crush the fibers of the kapok and then sewing said fibres of kapok of the so preformed blanket together.

In view of our conclusion with respect to the first ground of rejection it is unnecessary for us to cite or discuss the references.

Appellant's application was filed on May 27, 1939, and is entitled "For Method for Forming Sheets or Fabrics from Kapok or Other Staple Fibres."

The oath of the applicant accompanying the application states that it "is a division of my application Ser. No. 107,899, filed October 27, 1936."

At the time of filing appellant's instant application, his attorney also filed certain proposed amendments thereof.

These amendments were entitled "Amendment Before Filing."

These amendments were signed by appellant's attorney, but not by appellant, nor were the amendments accompanied by a "Supplemental Oath." It appears from the record that said proposed amendments were not entered until after November 7, 1940, when a supplemental oath of appellant executed by him on September 26, 1940, was filed.

With regard to the general subject matter of appellant's alleged invention, his instant application as filed states:

This invention is concerned with the formation of sheets or fabrics of a wadding like nature produced by machining lines of stitching in a loosely agglomerated mass of kapok or other like light and delicate fibre held lightly between guide devices adapted to convey the material to the machine performing the stitching.

* * * * * * *

The present invention seeks to provide an improved method which will enable sewn sheets or fabrics of fibrous material of the kind indicated to be produced with convenience in large sizes or if desired in the form of a continuous web.

Appellant's first amendment reads as follows:

The present invention relates to a method of harnessing or controlling light and short staple fibrous materials such as kapok, whereby the latter may be formed in a continuous manner into sheets, blankets or fabrics of a wadding-like nature without the necessity of sewing the fibres between sheets of paper, woven fabrics or the like covering materials and yet the sheets so produced will be of uniform thickness and have substantially the same density throughout. The present application is a (division and) continuation in part of my copending application Serial No. 107,899, filed October 27, 1936.

Other amendments include the following addition to the specification as filed:

By depositing the loose fibres of kapok upon the table o of the machine herein described, the bands b will convey the same until it comes in contact with the bands c of the upper carrier. This loosely deposited mass of kapok will *first be distributed* over the table top until it assumes the form of a sheet or layer. As this sheet or layer of kapok is being further conveyed between the carriers, the fibres thereof are *further distributed until the layer assumes the required consistency and thickness.* This preformed sheet or layer of kapok is then fed below the thickness regulator *k* whereat this preformed sheet is retained as formed.

This thickness regulator is substituted for the standard presser foot of the sewing machine and through the adjustable supporting means provided for the presser foot, it may be moved to and from the table top and retained in the desired adjusted position.

The preformed wadding of kapok will travel *lightly* below the thickness regulator whereat its general thickness will be maintained without any marked pressure thereupon. Therefore, this thickness regulator, in addition to the foregoing, will act as an ordinary stripper of the sewing machine, that is, will limit the upward movement of the wad or fibres thereof with the needles of the sewing machine. [Italics supplied.]

Appellant's instant application as filed contained the following:

Adjustable presser feet fitted with rollers *k* adapted to engage the upper grid immediately in front and behind the sewing needles may also be provided on the machine.

Appellant's amendment changed the above quoted language so as to read as follows:

An adjustable thickness regulator fitted with rollers *k*, adapted to engage the upper bands immediately in front and behind the sewing needles, may also be provided on the machine. These rollers press but lightly upon the upper carrier and really act to determine the degree of separation between the opposed bands. They do not serve to apply any marked pressure to the material. This thickness regulator with its rollers acts to prevent any upward movement of the fibre when the needle is pulled upward.

The amendment also inserted in the application as filed the following:

It is to be understood that the element *d* with the rollers *k* does not act like the ordinary presser foot of a sewing machine but merely bears lightly against the upper flexible element *c*. If this element *d* were forced downward in the manner of the presser foot of an ordinary sewing machine, it would compress the fibres and drive out the air and form a hump in the material in advance of the element *d*. The rollers *k* simply act to hold the upper flight of the element *c* lightly against the bat of fibrous material without any compression.

Appellant's parent application, Serial No. 107,899, is for the most part identical with appellant's instant application as filed. There is found in the record immediately following Serial No. 107,899, as filed, what is entitled "Specification As Amended," which conforms in most respects to appellant's instant application as amended. However, neither in the parent application as filed nor in the "Specification As Amended" is there disclosed the second step of distributing the fibres "while upon said conveyor until the so formed sliver has the same consistency throughout." While the "Specification As Amended" states that the sheets produced will be of uniform thickness and have substantially the same density throughout, said second step is nowhere disclosed or suggested.

Appellant's parent application as filed contained the following method claim:

1. An improved method of producing sheets or fabrics of the kind herein indicated consisting in conveying the loosely agglomerated fibre to the needles of a sewing machine and holding it during the sewing operation between opposed grids, the individual bars of which are in the form of endless flexible elements associated with rotating drums or rollers.

Appellant's brief states that this claim was cancelled.

It appears that appellant's parent application was considered by us in the case *In re Mims*, 28 C. C. P. A. (Patents) 962, 118 F.(2d) 354, 529 O. G. 8, from which it appears that the only claims finally made were apparatus claims, which were rejected by the Patent Office tribunals as not patentable

over the cited prior art. We affirmed such ground of rejection. It does not appear from our opinion that any question of new matter was raised or decided in that case.

That each of the claims before us is drawn to matter not disclosed in appellant's instant application as filed we have no doubt.

Nowhere in said application is there suggested the arranging of the material while upon the conveyor so as to form slivers of the same consistency throughout as called for by claim 17, or distributing the material of the preformed sheet until the latter has a desired density throughout, and further distributing the fibres of the material until the sheet has a uniform thickness throughout as called for in claim 18, or distributing the fibers of the material until a blanket is formed and further distributing the fibres until the so formed blanket has the same consistency throughout as called for in claim 19.

Furthermore, it will be observed from the amendments above quoted that the instant application as filed disclosed "adjustable presser feet." The amendment struck out these words and substituted the words "an adjustable thickness regulator."

Appellant in his brief states:

> The appellant contends that he has not added any new substantive matter to his application, but merely an amplification of the original specification involving certain critical steps of his method and which amplification is supported by the appellant's earlier art disclosure.
>
> The applicant was certainly justified in adding the amplified description contained in his "Amendment Before Filing" as a cure to the imperfectly described invention, just as was done by amendment in the parent application. Persons competent to understand and appreciate the invention could readily state the novel steps of the method as claimed upon seeing the machine made in accordance with that disclosed in the original drawing when in operation.

The difficulty with appellant's contention is that the method here claimed is not described at all or suggested in his application as filed. Neither can we agree with appellant that one skilled in the art upon seeing a machine made in accordance with the drawings of his application could readily state the steps of the method here claimed.

In the cancelled method claim of his parent application as filed there is no suggestion of the method here claimed, and it is evident that a machine made in accordance with the drawings could be normally operated without employing all of the steps set out in the claims.

[1] [2] Appellant makes another contention that his parent application having been amended so as to include, as he claims, the steps of the method here claimed, he had the right to amend his instant application in the manner hereinbefore stated.

We may assume that in this case if the amendment to his parent application did not contain new matter, appellant would have the right to incorporate in his instant application by way of amendment the subject matter of that application as amended, but we cannot agree with him that the question of whether his amendments to his parent application included new matter may not be inquired into.

After the cancellation of his method claim in his parent application, only structure of the apparatus disclosed was involved and the method of its operation here claimed was not a necessary element of his alleged invention claimed in that application.

At any rate it does not appear that the Patent Office tribunals considered the question of new matter in his amendments to his parent application, presumably because the method of operation here claimed had no bearing upon the question of the patentability of the structure.

Under these circumstances we have no doubt that inasmuch as appellant's amendments to his parent application disclosed matter not described or suggested in his parent application as filed, he may not base amendments to his instant application upon such new matter found in his amendments to his parent application.

Rules 48 and 70, in so far as they are here pertinent, of the Rules of Practice in the United States Patent Office, read as follows:

> 48. When an applicant presents a claim for matter originally shown or described but not substantially embraced in the statement of invention or claim originally presented, he shall file a supplemental oath to the effect that the subject matter of the proposed amendment was part of his invention, was invented before he filed his original application; that he does not know and does not believe that the same was ever known or used before his invention or discovery thereof, or more than one year before his application, or in public use or on sale in the United States for more than one year before the date of his application, that said invention has not been patented in any foreign country on an application filed by himself or his legal representatives or assigns more than twelve months prior to his application in the United States, and has not been abandoned. Such supplemental oath must be attached to and properly identify the proposed amendment. • • • • • • • • •
>
> 70. In original applications all amendments of the drawings or specifications, and all additions thereto, must conform to at least one of them as it was at the time of the filing of the application. Matter not found in either, involving a departure from the original invention, can not be added to the application even though supported by a supplemental oath, and can be shown or claimed only in a separate application.

It is appellant's contention that inasmuch as supplemental oaths were filed in connection with the amendments to both the instant and parent applications, the Board of Appeals erred in holding that said amendments could not be considered.

[3] As to the effect of a supplementary oath filed with respect to new matter added to applications, rule 70, supra, is explicit that that may not be done where the matter added by amendment is not found in the original application and involves a departure from the original invention.

That the matter added by said amendments and here claimed does involve a departure from the alleged invention set forth in appellant's instant and parent applications is clear.

Appellant's brief states:

> If the new and critical steps of appelant's method as recited in these claims 17, 18, and 20, to-wit:
>
> 1. Arranging the material until formed into a sheet or sliver without the application of pressure that would tend to bruise or crush the fibers thereof.
> 2. Distributing the fibers of the material until the sliver has the required consistency or density throughout.
> 3. Maintaining the thickness of the so preformed sheet, and
> 4. Permanently connecting the fibers of the material whereby the so preformed sheet is maintained.
>
> involve new matter, and these recited steps of appellant's method cannot be considered, then, and in that event, the claims 17, 18, and 20 would not be patentable over that of Thompson, Fleckenstein, Arbin or Mims, and the sole issue therefore appears to be whether the above recited steps of appellant's method are new or disconforming matter.

It will be observed that appellant concedes that all of the steps quoted are new and critical, and inasmuch as we find that the first two steps above quoted have no basis in appellant's instant or parent application, a departure from the alleged invention disclosed in his original application is involved. Moreover, it will be observed that in the cancelled claim hereinbefore quoted only the fourth step is claimed.

Therefore, under said rule 70, the supplemental oaths above referred to cannot relieve said amendments from the inquiry of whether new matter is involved therein, and if involved, such new matter may not be considered in passing upon the claims.

[4] In this connection we would observe that section 4892 of the Revised Statutes (title 35, sec. 35) makes no provision for a supplemental oath, and the only rule of the Patent Office permitting it is rule 48 hereinbefore quoted, which is not applicable here for the reason that the amendments include matter not "shown or described" in either appellant's instant application as filed or in his parent application as filed.

Appellant's supplemental oath in connection with the amendments to his instant application was not filed until November 7, 1940, nearly a year and a half after the filing date of his application. He could have filed within that time a new application embodying all of the matter included in his instant application as amended, but in that case his constructive reduction to practice of his alleged invention would take the date of his new application. Apparently the reason this was not done was because appellant desired to secure the benefit of the filing date of his instant application, May 27, 1939, and also the date of his parent application for such constructive reduction to practice.

It is true that there are many cases in equity involving infringement of patents, holding that where a patent has been issued upon an application which has been amended, accompanied by a supplemental oath, such patent will not be declared invalid on the ground that the amendments constituted new matter added to the original application.

In the case of *Heller Bros. Co.* v. *Crucible Steel Co. of America*, 297 Fed. 39, decided by the Court of Appeals, Third Circuit, rule 48, supra, was briefly discussed as follows:

> Rule 48 of the Patent Office, which has magnified, if it has not given rise, to the confusion with respect to the question of the supplemental oath, cannot affect this conclusion. At most, as we understand it, it is but a rule of Patent Office Procedure, promulgated upon the authority of R. S. sec. 483 (Comp. St. sec. 745). If valid, and we deem it unnecessary to pass upon that, *it has no bearing upon the question of validity of a patent when issued.* It has not been here relied upon by the defendant. [Italics supplied.]

[5] There is no contention here that said rule 48 is invalid, and it is clear that it does not authorize the filing of the supplemental oaths here involved, because the claims here involved include material elements not "shown or described" in either his instant or his parent application as filed. This being a proceeding in the Patent Office prior to the issue of a patent, the cases respecting the validity of issued patents are not applicable here. Appellant concedes that the sole issue before us is whether the involved claims are drawn to "new or disconforming" matter. Inasmuch as we are convinced that the Board of Appeals did not err in holding that the claims are not patentable in this proceeding because drawn to new matter, its decision is affirmed.

Affirmed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,503,105, M. Balcker, pressure pad, D. C., N. D. Ohio, E. Div., Doc. 19704, *Marquette Tool & Mfg. Co.* v. *The Cleveland Punch & Shear Works Co.* Claims 7 and 13 held valid and infringed; referred to Special Master June 25, 1943.

1,611,012, H. F. Flowers, Three-way dump motor truck bodies; 1,972,042, same, Dump vehicle; 1,972,043, 1,785,678, 1,813,570, same, Dump vehicle with actuated doors; 1,921,917, same, Yielding door mechanism; 1,830,390, same, Lift-door dump vehicle, D. C., N. D. Ill., E. Div., Doc. 4481, *H. F. Flowers* v. *Western-Austin Co. et al.* Dismissed without prejudice June 21, 1943.

1,636,750, J. E. Miller, Manufacture of prepared roofings, D. C., N. D. Ill., E. Div., Doc. 3667, *Certain-Teed Products Corp.* v. *The Flintkote Co.* Bill dismissed with prejudice June 4, 1943.

1,773,438, F. J. Rode, Press for drawing sheet metal; 1,773,439, same, Cushioning device for drawing presses, D. C., N. D. Ohio, E. Div., Doc. 19757, *E. W. Bliss Co. et al.* v. *The Cleveland Punch & Shear Works Co.* Claims 3, 4, 9, 21, and 24 of 1,773,438 held infringed, injunction; counterclaim dismissed June 25, 1943.

1,773,439. (See 1,773,438.) 1,785,678. (See 1,611,012.)

1,793,724, L. A. Suekoff, Spring assembly for upholstery, appeal filed June 23, 1943, C. C. A., 2d Cir., Doc.—, *Nachman Spring-Filled Corp.* v. *Kay Mfg. Corp.*

1,813,570. (See 1,611,012.) 1,830,390. (See 1,611,012.)

1,834,111, F. J. Rode, Metal working press, D. C., N. D. Ohio, E. Div. Doc. E 5701, *E. W. Bliss Co. et al.* v. *The Cleveland Punch & Shear Works Co.* Claims 8, 10, 11, 13, 14, 17, and 19 held invalid, bill dismissed June 25, 1943.

1,893,809, Stone & Williamson, Manufacture of yarn; 1,973,581, same, Drawing frame, D. C. N. J., Doc. 1096, *Ludlow Mfg. & Sales Co.* v. *Dolphin Jute Mills, Inc.* Dismissed June 30, 1943.

1,918,784, F. J. Rode, Sheet metal drawing press, D. C., N. D. Ohio, E. Div., Doc. E 5703, *E. W. Bliss Co. et al.* v. *The Cleveland Punch & Shear Works Co.* Claims 2, 5, and 7 held infringed, injunction granted; counterclaim dismissed June 25, 1943.

1,921,917. (See 1,611,012.)

1,933,578, Ames & Gliddon, Eyeglasses for correcting retinal image asymmetry; Re. 19,841 (of 1,944,871), same, Clinical optical mensuration method and instrument, filed June 24, 1943, D. C., N. D. Ill., E. Div., Doc. 43c581, *Trustees of Dartmouth College et al.* v. *The House of Vision-Belgard-Spero, Inc.*

1,944,871. (See 1,933,578.) 1,972,042. (See 1,611,012.)

1,972,043. (See 1,611,012.) 1,973,581. (See 1,893,809.)

1,991,472, E. Stern, Method and apparatus for producing and projecting sound-motion pictures, filed June 28, 1943, D. C. Del., Doc. 319, *E. Stern* v. *Loew's, Inc.*

1,994,853, Cole & Hart, Gonad-stimulating substance and process of producing it, D. C. N. J., Doc. 929, *Cutter*

Laboratories et al. v. *Schering Corp.* Discontinued June 21, 1943.

1,997,959, C. W. Wood, Road material mixing machine, D. C., S. D. Calif., C. Div., Doc. E 1468Y, *Madsen Iron Works et al.* v. *Wood Roadmixer Co.* Judgment on mandate of C. C. A. reversing judgment of D. C. June 22, 1943. Doc. 1509RJ, *Wood Roadmixer Co. et al.* v. *Warren Southwest, Inc.* Dismissed with prejudice June 22, 1943. Doc. 1567Y (96), *Wood Roadmixer Co. et al.* v. *Oilfields Trucking Co. et al.* Judgment of dismissal with prejudice June 22, 1943. Doc. 1628Y (101), *Wood Roadmixer Co. et al.* v. *R. E. Hazard Contracting Co. et al.* Dismissed with prejudice June 22, 1943.

2,021,581, G. E. Pickup, Cabinet heater, D. C., E. D. Mich., S. Div., Doc. 246, *Newark Stove Co.* v. *Lonergan Mfg. Co.* Patent held invalid for want of invention, bill dismissed (notice June 23, 1943).

2,069,871, S. O. Blanc, Cutter member for cleaning drain pipes; Re. 22,113, same, Drain cleaner, D. C., S. D. Iowa (Des Moines), Doc. 219, *S. O. Blanc* v. *J. Longstaff.* Injunction June 28, 1943.

2,095,223, A. O. Samuels, Fan, D. C., S. D. N. Y., Doc. E 87/152, *Samson United Corp.* v. *Midtown Electric & Supply Co.* Judgment on consent June 24, 1943.

2,118,468, T. G. Jungersen, Method of casting articles of intricate design and a product thereof, filed July 1, 1943, D. C., S. D. N. Y., Doc. 21/478, *T. G. Jungersen* v. *H. Koppel.*

2,122,650, A. D. Keene, Electric heating pad, filed June 29, 1943, D. C. Conn. (New Haven), Doc. 1020, *Samson-United Corp.* v. *Casco Products Corp.*

2,148,997, H. Phillips, Piston ring, D. C., W. D. Mich. (Grand Rapids), Doc. 87, *Hastings Mfg. Co.* v. *C. V. Gray.* Dismissed June 22, 1943.

2,240,388, J. B. Calva, Method of treating filamentous materials, C. C. A., 2d Cir., Doc. —, *Calva Fur Patents Corp. et al.* v. *Celeste Fur Dyeing & Dressing Corp.* Decree reversed (notice June 24, 1943).

2,243,323, Walton & Glanzer, Unit filter, D. C., E. D. Wis. (Milwaukee), Doc. 778, *Air-Maze Corp.* v. *Badger Mfg. & Sales Co.* Patent held valid (notice June 24, 1943).

2,297,999, Des. 135,138, F. G. Eubanks, Compass, D. C., N. D. Ill., E. Div., Doc. 43c515, *F. E. Vaughan et al.* v. *Foster Buck et al.* Consent judgment holding patents valid and infringed, injunction June 3, 1943.

2,299,269, J. R. Gammeter, Method and apparatus for making dipped rubber articles, filed June 18, 1943, D. C. N. J., Doc. 2954, *J. R. Gammeter* v. *Allied Latex Corp.*

2,314,205, V. Forschner, Shoe, filed June 25, 1943, D. C., E. D. N. Y., Doc. 3322, *Norma Footwear Corp.* v. *Cosmos Footwear Corp. et al.*

Re. 19,841. (See 1,933,578.)

Re. 22,113. (See 2,069,871.)

Des. 129,359, L. Jiranek, Bedstead; Des. 129,483, same, Chest; Des. 129,588, same, Vanity, D. C., W. D. Ky. (Louisville), Doc. 380, *Heywood-Wakefield Co.* v. *Inman Furniture Co.* Consent judgment granting injunction Dec. 31, 1942.

Des. 129,483. (See Des. 129,359.)

Des. 129,588. (See Des. 129,359.)

Des. 132,680, J. H. Abt, Textile fabric, D. C., S. D. N. Y., Doc. 19/83, *Deering Milliken & Co., Inc.*, v. *Dexter Woolen Corp.* Judgment favor defendant July 1, 1943.

Des. 135,138. (See 2,297,999.)

T. M. 401,371, American Dental Co., Materials for repairing teeth—namely, plastic materials, filed June 3, 1943, D. C., N. D. Ill., E. Div., Doc. 43c530, *The American Dental Co.* v. *Brown Dental Mfg. Co.*

Trade-Mark Registrations Canceled

46,026. Axle grease, carriage and buggy grease, machinery oils and lubricating oils. Galena Axle Grease Co., Galena, Ill. Registered September 5, 1905. Canceled June 28, 1943.

51,465. Cup-grease and lubricating-oils. Galena Axle Grease Co., Galena, Ill. Registered April 17, 1906. Canceled June 28, 1943.

229,434. Fresh vegetables, fresh cantaloupes, and fresh deciduous fruits. Chas. H. Jandt Packing Co., Los Angeles, Calif. Registered June 28, 1927. Canceled June 14, 1943.

305,465. Malt beverages with not more than the legal alcoholic content. Jamestown Brewing Company, Jamestown, N. Y. Registered August 15, 1933. Canceled July 15, 1943.

343,513. Liquid treatment for diseases and affections of the eyes. Sylvain Rosengart, Paris, France. Registered February 23, 1937. Canceled June 28, 1943.

350,924. Tomato juice, tomato paste, etc. Hartmann Canning Co. Inc., Rochester and Macedon, N. Y. Registered October 12, 1937. Canceled July 15, 1943.

378,779. Blend of proteins, vitiamins, iodine, and minerals used in the preparation of poultry rations, etc. Lacto-Vee Products Co., Dayton and Blanchester, Ohio. Registered June 18, 1940. Canceled July 15, 1943.

386,067. Ladies' and misses' slips and camisoles, of silk, satin, rayon, and combinations thereof. Miss Susan, Inc., New York, N. Y. Registered March 25, 1941. Canceled June 14, 1943.

387,793. Industrial furnaces comprising Group A: heat treating furnaces, tempering furnaces, etc. Chicago Flexible Shaft Company, Chicago, Ill. Registered May 27, 1941. Canceled July 6, 1943.

392,873. Cornets, trumpets, trombones, etc. Scherl & Roth, Inc., Cleveland, Ohio. Registered January 13, 1942. Canceled June 14, 1943.

395,967. Ladies' underwear, slips, bed jackets, etc. United Mills, Inc., Mount Gilead, N. C. Registered June 16, 1942. Canceled June 28, 1943.

399,375. Spark plugs. Auburn Spark Plug Company, Inc., Auburn, N. Y. Registered December 29, 1942. Canceled June 14, 1943.

400,655. Printed cotton piece goods. Wm. Anderson Textile Mfg. Co. Ltd., New York, N. Y. Registered March 23, 1943. Canceled June 28, 1943.

TRADE-MARKS

OFFICIAL GAZETTE, AUGUST 3, 1943

[VOL. 553. No. 1]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 458,815. PENNSYLVANIA INDUSTRIAL CHEMICAL CORPORATION, Clairton, Pa. Filed Feb. 27, 1943.

PICCOVAR

FOR HYDROCARBON RESINS.
Claims use since Dec. 21, 1942.

Ser. No. 460,889. BOLTON LEATHERS LIMITED, Bolton, England. Filed May 25, 1943.

BOLTONIA

FOR LEATHER.
Claims use since Dec. 12, 1939.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 458,788. SALVATORE NUCCIO, doing business as Alumglow Cleansing Co., Long Island City, N. Y., assignor to Christina Catanzaro, Jackson Heights, N. Y. Filed Feb. 26, 1943.

A-Lum-Glow

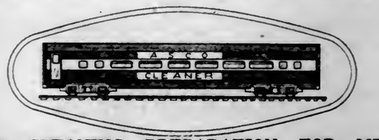
FOR ALUMINUM CLEANING PREPARATION.
Claims use since Dec. 8, 1942.

Ser. No. 459,867. GENERAL DYESTUFF CORPORATION, New York, N. Y. Filed Apr. 14, 1943.

FENOPON

FOR SYNTHETIC DETERGENTS AND SCOURING AGENTS.
Claims use since Apr. 8, 1943.

Ser. No. 460,593. ASCO CAR CLEANER COMPANY, Norfolk, Va. Filed May 13, 1943.
The word "Cleaner" is disclaimed apart from the mark.



FOR CLEANING PREPARATION FOR METAL, WOOD, GLASS, AND PAINTED SURFACES.
Claims use since Nov. 27, 1942.

CLASS 5

ADHESIVES

Ser. No. 461,147. MID-WEST SHOE SUPPLIES COMPANY, St. Louis, Mo. Filed June 4, 1943.

VANGRIP

FOR ADHESIVE CEMENT.
Claims use since Apr. 20, 1943.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 441,239. HARRY G. DOUGLAS, doing business as Belva Manufacturing Company, St. Louis, Mo. Filed Mar. 5, 1941.
No claim is made to the term "Hair" apart from the mark.

Madam Belva's

HAIR-REP

FOR HAIR POMADE.
Claims use since Jan. 23, 1941.

Ser. No. 441,829. MINE SAFETY APPLIANCES COMPANY, Pittsburgh, Pa. Filed Mar. 22, 1941.

M-S-A

FOR AIR PURIFYING COMPOSITIONS, AMMONIA INHALANTS, PREPARATIONS FOR EXTERIOR APPLICATIONS FOR TREATMENT OF BURNS, SWABS IMPREGNATED WITH ANTISEPTICS, BORIC ACID SOLUTION, HYDRO-PICRIC JELLY, FIRST AID AND SURGICAL COMPRESSES IMPREGNATED WITH ANTISEPTICS USED FOR APPLICATION TO CUTS OR BURNS, CASTOR OIL, AROMATIC SPIRITS OF AMMONIA, PICRIC ACID GAUZE, HYDRO-PICRIC ACID, CREOSOTE BURN WASH, POISON IVY WASH, CARBOLATED PETROLATUM, TINCTURE OF IODINE, AROMATIC SPIRITS OF AMMONIA AMPOULES, AND HAND CREAMS.
Claims use since Nov. 1, 1914

Ser. No. 453,425. E. R. SQUIBB & SONS, New York, N. Y. Filed June 2, 1942.

PHYKENTRONE

FOR GROWTH-PROMOTING HORMONAL PREPARATIONS.
Claims use since May 6, 1942.

Ser. No. 457,522. G. N. COUGHLAN Co., Orange, N. J. Filed Dec. 19, 1942.

Easy-Aid

FOR CHEMICAL POWDER USED AS A FIRE SCALE AND SOOT ERADICATOR.
Claims use since Aug. 7, 1941.

Ser. No. 458,750. LILLIAN ANDERSON, Manhasset, Long Island, N. Y. Filed Feb. 25, 1943.
The portrait is that of applicant.



FOR HAIR PREPARATIONS—NAMELY, MARCEL WAX, HAIR GLOSS PREPARATION AND PREPARATION FOR STIMULATING THE GROWTH OF HAIR.
Claims use since Jan. 4, 1943.

Ser. No. 459,165. CLARK & CLARK, Camden, N. J. Filed Mar. 17, 1943.

CLARKOTABS

FOR TABLETS CONTAINING THYROID FOR INTERNAL CONSUMPTION AS A CURE FOR OBESITY.
Claims use since May 1, 1942.

Ser. No. 459,166. CLARK & CLARK, Camden, N. J. Filed Mar. 17, 1943.

PROFETAMINE

FOR SULFATE-CONTAINING TABLETS FOR USE AS A STIMULANT.
Claims use since Jan. 1, 1942.

Ser. No. 459,348. J. LAWRENCE SCHAD, doing business as Pal-So-Dene Products Laboratories, Portland, Oreg. Filed Mar. 25, 1943.

PAL-SO-DENE

FOR FOOT LOTION, COUGH AND COLD PREPARATIONS.
Claims use since 1934.

Ser. No. 459,620. M. CALTHORPE & COMPANY, Leeds, England. Filed Apr. 5, 1943.

VIRONITA

FOR GENERAL TONIC.
Claims use since Dec. 9, 1940.

Ser. No. 459,633. PERFUMERIA DRYALIS S. A., Havana, Cuba. Filed Apr. 5, 1943.

DRYALIS

FOR TOILET POWDER, TOILET TALC, PERFUME ESSENCES, AND TOILET LOTIONS.
Claims use since Apr. 30, 1932.

Ser. No. 459,683. ATLANTIC CHEMICALS & METALS Co., Chicago, Ill. Filed Apr. 7, 1943.

IMMUNITAS

FOR CHEMICAL FLUXES EMPLOYED IN THE DEOXIDIZING, DEGASIFYING, DESULPHURIZING AND DEPURATING OF ALUMINUM AND ITS LIGHT ALLOYS, ALUMINUM-MAGNESIUM ALLOYS, COPPER, BRONZE, BRASS, TIN AND LEAD ALLOYS, TYPE METAL, ZINC ALLOYS, NICKEL AND NICKEL ALLOYS, MANGANESE-BRONZE, ALUMINUM-BRONZE AND SILICON-BRONZE.
Claims use since Feb. 26, 1943.

Ser. No. 459,860. GENERAL DYESTUFF CORPORATION, New York, N. Y. Filed Apr. 14, 1943.

AGUAFEN

FOR DYESTUFFS AND INDUSTRIAL CHEMICALS—NAMELY, WATERPROOFING AGENTS.
Claims use since Apr. 8, 1943.

Ser. No. 459,861. GENERAL DYESTUFF CORPORATION, New York, N. Y. Filed Apr. 14, 1943.

BLANDOFEN

FOR DYESTUFFS AND INDUSTRIAL CHEMICALS—NAMELY, TEXTILE SOFTENERS.
Claims use since Apr. 8, 1943.

Ser. No. 459,862. GENERAL DYESTUFF CORPORATION, New York, N. Y. Filed Apr. 14, 1943.

DESAFEN

FOR DYESTUFFS AND INDUSTRIAL CHEMICALS—NAMELY, DEVELOPERS OF DYEINGS.
Claims use since Apr. 8, 1943.

Ser. No. 459,868. GENERAL DYESTUFF CORPORATION, New York, N. Y. Filed Apr. 14, 1943.

HUMIFEN

FOR DYESTUFFS AND INDUSTRIAL CHEMICALS—NAMELY, TEXTILE WETTING AGENTS.
Claims use since Apr. 1, 1943.

Ser. No. 459,869. GENERAL DYESTUFF CORPORATION, New York, N. Y. Filed Apr. 14, 1943.

IGUAFEN

FOR DYESTUFFS AND INDUSTRIAL CHEMICALS—NAMELY, TEXTILE LEVELING AGENTS.
Claims use since Apr. 8, 1943.

Ser. No. 459,870. GENERAL DYESTUFF CORPORATION, New York, N. Y. Filed Apr. 14, 1943.

MULGOFEN

FOR DYESTUFFS AND INDUSTRIAL CHEMICALS—NAMELY, EMULSIFYING AGENTS.
Claims use since Apr. 8, 1943.

Ser. No. 460,026. GENERAL DYESTUFF CORPORATION, New York, N. Y. Filed Apr. 20, 1943.

PRESTOFEN

FOR DYESTUFFS AND INDUSTRIAL CHEMICALS—NAMELY, TEXTILE FINISHERS.
Claims use since Apr. 15, 1943.

Ser. No. 460,027. GENERAL DYESTUFF CORPORATION, New York, N. Y. Filed Apr. 20, 1943.

SOLVOFEN

FOR DYESTUFFS AND INDUSTRIAL CHEMICALS—NAMELY, SOLUBILIZERS.
Claims use since Apr. 15, 1943.

Ser. No. 460,038. UNION BAG & PAPER CORPORATION. New York, N. Y. Filed Apr. 20, 1943.

UNITOL

FOR TALL OIL AND PHYTOSTEROLS.
Claims use since Mar. 26, 1943.

Ser. No. 460,150. GENERAL DYESTUFF CORPORATION. New York, N. Y. Filed Apr. 24, 1943.

MORDOFEN

FOR DYESTUFFS AND INDUSTRIAL CHEMICALS—NAMELY, MORDANTS.
Claims use since Apr. 20, 1943.

Ser. No. 460,390. PINAUD, INCORPORATED, New York, N. Y. Filed May 3, 1943.

Perforette

FOR SACHET.
Claims use since Mar. 25, 1943.

Ser. No. 460,483. TONE LABORATORIES, INC., New York, N. Y. Filed May 7, 1943.

NO THREAD LEG MAKE-UP

The words "Leg Make-Up" are disclaimed apart from the mark.
FOR LEG TINTING OR MAKE-UP COSMETIC.
Claims use since Mar. 27, 1943.

Ser. No. 460,484. TONE LABORATORIES, INC., New York, N. Y. Filed May 7, 1943.
The words "Leg Make-Up" are disclaimed apart from the mark.

TWO THREAD LEG MAKE-UP

FOR LEG TINTING OR MAKE-UP COSMETIC.
Claims use since Mar. 27, 1943.

Ser. No. 460,599. GENERAL DYESTUFF CORPORATION, New York, N. Y. Filed May 13, 1943.

CURTOFEN

FOR INDUSTRIAL CHEMICALS—NAMELY, CHEMICALS FOR THE TANNERIES TO ASSOCIATE THE PROCESS OF TANNING AND DYEING LEATHERS.
Claims use since May 10, 1943.

Ser. No. 460,700. HOFFMANN-LA ROCHE, INC., Nutley, N. J. Filed May 18, 1943.

"DOSELETS"

FOR NUTRITIVE TONIC CONTAINING A MIXTURE OF VITAMINS.
Claims use since May 4, 1943.

Ser. No. 460,766. PARFUMS CORDAY, INC., New York, N. Y. Filed May 20, 1943.

#2 THREAD

FOR LEG MAKE-UP.
Claims use since Apr. 1, 1943.

Ser. No. 460,876. NATIONAL PRODUCTS CORPORATION, Orlando, Fla. Filed May 24, 1943.

MATUROX

FOR CHEMICAL COMPOUND IN THE FORM OF A SOLUTION USED FOR PLANT AND TREE GROWTH STIMULATION.
Claims use since November 1936.

Ser. No. 461,051. THE GEORGE W. LUFT COMPANY, INC., New York and Long Island City, N. Y. Filed May 31, 1943.

Applicant disclaims the term "Dri" apart from the association shown.

DRI-HESIVE

FOR FACE POWDER.

Claims use since May 18, 1943.

Ser. No. 461,142. KINETIC CHEMICALS, INC., Wilmington, Del. Filed June 4, 1943.

FREON-22

FOR MONOCHLORODIFLUOROMETHANE, BEING FLUORINATED HYDROCARBONS USED AS REFRIGERANTS, PROPELLANTS AND FIRE EXTINGUISHING PREPARATIONS.

Claims use since March 2, 1936.

Ser. No. 461,156. VAN PELT & BROWN, INC., Richmond, Va. Filed June 4, 1943.

VIAZOLE

FOR WATER DISPERSABLE OINTMENT FOR THE TREATMENT OF BURNS, WOUNDS, ULCERS, AND SKIN INFECTIONS.

Claims use since July 18, 1942.

CLASS 8

SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS

Ser. No. 461,003. H. NEGBAUR & Co., New York, N. Y. Filed May 28, 1943.

MEER-TONE

FOR SMOKERS' PIPES.

Claims use since May 14, 1943.

CLASS 15

OILS AND GREASES

Ser. No. 456,186. THE JEANITE CORPORATION, New York, N. Y. Filed Oct. 14, 1942.

JEANITE

FOR LIQUID HYDROCARBONS FOR ILLUMINATING, POWER, AND FUEL PURPOSES.

Claims use since July 14, 1942.

CLASS 16

PAINTS AND PAINTERS' MATERIALS

Ser. No. 460,457. STANDARD VARNISH WORKS, Staten Island, N. Y. Filed May 6, 1943.

RINKOLIN

FOR PAINT ENAMELS, DRY, READY-MIXED, AND PASTE PAINTS, VARNISHES, LACQUERS, STAINS, PRIMERS, SURFACERS, AND UNDERCOATINGS.

Claims use since Mar. 16, 1943.

Ser. No. 460,497. CORROSION CONTROL CORPORATION, Norwalk, Conn. Filed May 8, 1943.

CORDO



FOR LACQUER COATINGS FOR PLASTIC SHEETING, PAINT, LACQUER, AND ENAMEL COATINGS USED FOR PROTECTING STEEL AND OTHER METALS, WOOD, BRICK, AND CONCRETE.

Claims use since Feb. 27, 1943.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 454,116. NEW JERSEY MACHINE CORPORATION, Hoboken, N. J. Filed July 9, 1942.

MOTOAIR

FOR ELECTRIC MOTOR DRIVEN AIR PUMPS FOR PRODUCING VACUUM OR PRESSURE.

Claims use since Nov. 18, 1938.

Ser. No. 457,884. UNITED STATES QUARRY TILE COMPANY, Canton and East Sparta, Ohio, and Parkersburg, W. Va. Filed Jan. 12, 1943.



FOR ELECTRICAL INSULATORS—NAMELY, SPARK PLUG INSULATORS AND INSULATORS FOR OTHER AUTOMOTIVE AND AIRCRAFT IGNITION ACCESSORIES.

Claims use since Dec. 22, 1942.

Ser. No. 459,302. FEDERAL TELEPHONE AND RADIO CORPORATION, New York, N. Y. Filed Mar. 24, 1943.

No claim is made to the words "Powered By" or "Selenium Rectifier" apart from the mark. The drawing is lined for orange and blue.



FOR ELECTRICAL RECTIFYING APPARATUS.

Claims use since Jan. 30, 1943.

Ser. No. 460,992. GENERAL ELECTRIC COMPANY, Schenectady, N. Y. Filed May 28, 1943.

"Watch Dog"

FOR STARTERS FOR THERMIONIC TUBULAR ELECTRIC LAMPS.

Claims use since May 12, 1943.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 460,015. WOOD COMMODITIES CORP., New York, N. Y. Filed Apr. 19, 1943.

COMMANDO

FOR SERIES OF TOY MILITARY MINIATURES—NAMELY, AN AMERICAN JEEP, A GENERAL GRANT ARMY TANK, AN AUTOMATIC INVASION BARGE, AND A 75 MM. MOBILE ACTION GUN, BEING CONSTRUCTED OF EITHER WOOD, RANDALITE, PAPERBOARD, PLASTIC AND OTHER COMPOSITION, DESIGNED FOR AMUSEMENT AND CHILD AMUSEMENT PURPOSES.

Claims use since Jan. 20, 1943.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 452,922. EVANS PRODUCTS COMPANY, Detroit, Mich. Filed May 11, 1942.

UTILITY LOADER

The term "Loader" is disclaimed apart from the mark.

FOR UNITARY FREIGHT OR LOAD HOLDING OR BRACING EQUIPMENT FOR FREIGHT CARS OR THE LIKE, COMPRISING BRACES, BARS, FASTENING MEANS, ADJUSTING MEANS, MISCELLANEOUS FITTINGS THEREFOR, ETC.

Claims use since May 2, 1942.

Ser. No. 458,552. SPEED-JACK COMPANY, Belleville, N. J. Filed Feb. 15, 1943.

No claim is made to the word "Speed" apart from the mark.

SPEED-JACK

FOR ADJUSTABLE TRANSMISSION GEARING WHEREIN AN ENDLESS NUMBER OF REDUCED OR INCREASED SPEEDS BETWEEN A MINIMUM SPEED AND A MAXIMUM SPEED ARE OBTAINABLE FROM A PRIME MOVER HAVING A CONSTANT SPEED AND WHEREIN BELTS ENGAGE PULLEYS WHICH HAVE THEIR EFFECTIVE OR PITCH DIAMETERS VARIED.

Claims use since Mar. 3, 1942.

Ser. No. 460,860. ZARKIN MACHINE CO., INC., New York, N. Y. Filed May 22, 1943.

"Zenith"

FOR PLATE GRAINING MACHINES FOR GRAINING ZINC, ALUMINUM, AND GLASS PLATES FOR LITHOGRAPHIC AND OFFSET PRINTING AND PHOTOGRAPHIC PURPOSES.

Claims use since August 1928.

Ser. No. 460,934. MORSE BROS. MACHINERY COMPANY, Denver, Colo. Filed May 26, 1943.

"TRUELINE"

FOR ORE MILLING MACHINERY—NAMELY, CLASSIFIERS.

Claims use since July 1, 1940.

Ser. No. 461,094. THE FARVAL CORPORATION, Cleveland, Ohio. Filed June 2, 1943.

MULTIVAL

FOR LUBRICATING SYSTEMS AND PARTS THEREOF.

Claims use since Apr. 17, 1943.

Ser. No. 461,181. UNITED STATES INDUSTRIAL DIAMOND CORPORATION, New York, N. Y. Filed June 5, 1943.

DIATIPT

FOR TOOLS WITH PRESHAPED DIAMOND CUTTING POINTS OR EDGES USED FOR MARKING, CUTTING, SHAPING, AND FORMING VARIOUS MATERIALS.

Claims use since July 11, 1942.

Ser. No. 461,315. GALLOWHUR CHEMICAL CORPORATION, Windsor, Vt. Filed June 11, 1943.

SUNSTILL

FOR DISTILLATION APPARATUS.

Claims use since May 28, 1943.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 461,050. THE KALART COMPANY, INC., Stamford, Conn. Filed May 31, 1943.

ORATONE

FOR TRANSPARENT MIRRORS FOR ATTACHMENTS FOR CAMERAS.
Claims use since January 1942.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 460,443. CREST SPECIALTY COMPANY, Chicago, Ill. Filed May 6, 1943.

Spiffy

FOR COLLAR STAYS MADE OF SEMI-PRECIOUS METAL.
Claims use since Oct. 5, 1932.

Ser. No. 460,567. FIDEA WATCH CO., New York, N. Y. Filed May 12, 1943.

FIDEA

FOR WATCHES.
Claims use since 1927.

Ser. No. 460,799. THERESA GREENBERG, Brooklyn, N. Y. Filed May 21, 1943.

PLATINEX

FOR ORNAMENTAL JEWELRY FOR PERSONAL ADORNMENT NOT INCLUDING WATCHES.
Claims use since Apr. 8, 1943.

Ser. No. 461,066. STANDARD MERCHANDISING CORPORATION, New York, N. Y. Filed May 31, 1943.

Stamcor

FOR JEWELRY—NAMELY, NECKLACES, BRACELETS (NOT INCLUDING WATCHES), FINGER RINGS, EARRINGS, JEWELRY CLIPS, BROOCHES, LOCKETS, TIE HOLDERS, AND COLLAR PINS ALL MADE OF OR PLATED WITH PRECIOUS METAL.
Claims use since 1940.

CLASS 37

PAPER AND STATIONERY

Ser. No. 451,946. TRAVER CORPORATION, Chicago, Ill. Filed Mar. 27, 1942.

Traversheen

FOR DECORATIVE PAPER WRAPPERS.
Claims use since Jan. 20, 1942.

Ser. No. 455,798. CROSSETT PAPER MILLS, Crossett, Ark. Filed Sept. 26, 1942.

LEATHERNECK

FOR SULPHATE PAPER FOR USE IN THE MANUFACTURE OF WRAPPING PAPER, BOTH BLEACHED AND UNBLEACHED, KRAFT BUTCHER'S WRAPPING PAPER, BOTH BLEACHED AND UNBLEACHED, KRAFT BOARDS FOR USE IN MAKING CARTONS, KRAFT BAG PAPER, TAG AND FILE FOLDER STOCK, ICE CREAM CARTONS, AND BUTTER AND SHORTENING CARTONS.
Claims use since July 1941.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 460,296. THE JOHN A. HERTEL CO., Chicago, Ill. Filed Apr. 30, 1943.

BLUE RIBBON

FOR BIBLES.
Claims use since Feb. 15, 1943.

Ser. No. 461,078. DELL PUBLISHING COMPANY, INC., New York, N. Y. Filed June 1, 1943.

"HOOK-UP"

FOR COOK BOOKS ISSUED FROM TIME TO TIME.
Claims use since May 1, 1943.

Ser. No. 461,230. SOUTHERN AIRWAYS, INC., Atlanta, Ga. Filed June 8, 1943.

The Southernaire

FOR PUBLICATION OR BULLETIN ISSUED FROM TIME TO TIME.
Claims use since Mar. 23, 1943.

CLASS 39

CLOTHING

Ser. No. 430,226. ELLIOTT H. FEINBERG, New York, N. Y. Filed Apr. 1, 1940.

EARLY MORN GOLFA

FOR SHOES AND OVERSHOES MADE OF CANVAS, LEATHER, AND/OR RUBBER.
Claims use since Mar. 22, 1940.

Ser. No. 454,798. CASUALS, INC., Los Angeles, Calif. Filed Aug. 8, 1942.

RELAXABLES

FOR MEN'S SHOES MADE OF LEATHER, FABRIC, AND COMBINATIONS OF LEATHER AND FABRIC.
Claims use since July 30, 1942.

Ser. No. 455,420. BAXTER, WOODHOUSE & TAYLOR LIMITED, Stockport, England. Filed Sept. 9, 1942.

Aerocord

FOR MEN'S AND BOYS' SUITS, COATS, RAINCOATS, JACKETS, OVERALLS, PULLOVERS, TROUSERS, VESTS, OUTER-PANTS, HATS, AND CAPS; WOMEN'S AND GIRLS' OUTER-SKIRTS, TROUSERS, OUTER-SHORTS, JUMPERS, PULLOVERS, SUITS, FROCKS, BLOUSES, COATS, RAINCOATS, AND HATS; MEN'S AND WOMEN'S FLYING SUITS.
Claims use since October 1941.

Ser. No. 455,422. BAXTER, WOODHOUSE & TAYLOR LIMITED, Stockport, England. Filed Sept. 9, 1942.

PYRAK

FOR MEN'S AND BOYS' SUITS, COATS, RAINCOATS, JACKETS, OVERALLS, PULLOVERS, TROUSERS, VESTS, PANTS, UNDER-SHIRTS, OUTER-SHIRTS, HATS, AND CAPS; WOMEN'S AND GIRLS' OUTER-SKIRTS, UNDER-SKIRTS, TROUSERS, OUTER-SHORTS, UNDER-SHORTS, JUMPERS, PULLOVERS, SUITS, FROCKS, BLOUSES, COATS, RAINCOATS, UNDER-SHIRTS, OUTER-SHIRTS, AND HATS; MEN'S AND WOMEN'S FLYING SUITS.
Claims use since Apr. 24, 1942.

Ser. No. 458,524. THE CAIN-SLOAN COMPANY, Nashville, Tenn. Filed Feb. 15, 1943.

Nashwood

FOR CHILDREN'S COATS AND SUITS, WOMEN'S, MISSES' AND CHILDREN'S DRESSES, AND WOMEN'S AND CHILDREN'S SHOES MADE OF LEATHER, FABRIC, RUBBER, OR COMBINATIONS THEREOF.
Claims use since July 29, 1939.

Ser. No. 458,796. STEIN UNIFORM COMPANY, Baltimore, Md. Filed Feb. 26, 1943.

SERVING THOSE WHO SERVE HUMANITY
STEIN UNIFORM COMPANY

Applicant disclaims the phrase "Serving Those Who Serve Humanity" and "Stein Uniform Company."
FOR NURSES' UNIFORMS AND CAPES.
Claims use since Feb. 1, 1943.

Ser. No. 460,017. EDDIE BAUER, Seattle, Wash. Filed Apr. 20, 1943.
Applicant disclaims the wording "Lightest, Warmest Thing on Earth," "Down," and "Blizzard Proof" except as shown. The lining indicates the colors red, blue, and gold.

LIGHTEST, WARMEST THING ON EARTH
BAUER DOWN
Blizzard Proof

FOR MEN'S AND WOMEN'S SHOOTING AND FISHING WEAR—NAMELY, COATS, OUTER AND UNDER SHIRTS, TROUSERS, SOX, PARKAS AND SHAWLS; AND FOR QUILTED GARMENTS FOR USE BY MEN AND WOMEN—NAMELY, HOODS, HOODED COATS, TROUSERS, AND PADDED BOOTS, AND FOR SLEEPING BAGS.
Claims use since May 1, 1940.

Ser. No. 460,171. BETMAR HATS INC., New York, N. Y. Filed Apr. 26, 1943.
The word "Swiss" is disclaimed apart from the mark.

Swiss Criss

FOR LADIES' AND CHILDREN'S HATS.
Claims use since Mar. 22, 1943.

Ser. No. 460,173. DAVIS & CATTERALL, New York, N. Y. Filed Apr. 26, 1943.

Kerban

FOR CAPS AND HEAD COVERINGS FOR WEAR BY WOMEN INDUSTRIAL WORKERS.
Claims use since Apr. 16, 1943.

Ser. No. 460,198. ROYAL WORCESTER CORSET CO., Worcester, Mass. Filed Apr. 26, 1943.

WILLOWAY

FOR CORSETS, GIRDLES, BRASSIÈRES, BANDEAUX, PANTIE GIRDLES AND VARIOUS COMBINATIONS OF SAID GARMENTS; WOMEN'S, MISSES', AND CHILDREN'S WEARING APPAREL—NAMELY, UNDERWEAR, CLOAKS, CAPES, WRAPS, DRESSES, HATS, GLOVES OF FABRIC OR LEATHER, AND SLIPS.
Claims use since Dec. 10, 1921.

Ser. No. 460,508. PICARDY MILLS, INC., Brooklyn, N. Y. Filed May 8, 1943.

Elvelle

FOR GLOVES OF LEATHER, FABRIC OR A COMBINATION THEREOF.
Claims use since May 3, 1943.

Ser. No. 460,767. SAMUEL R. PENNEYS, doing business as Sa-Ro Hosiery Company, Philadelphia, Pa. Filed May 20, 1943.
No claim is made to the word "West" apart from the mark.

West Park

FOR HOSIERY.
Claims use since Mar. 20, 1942.

Ser. No. 460,797. NACHMAN FRIEDMAN, Brooklyn, N. Y. Filed May 21, 1943.

LUCIE NICOT

FOR LADIES' AND MISSES' BLOUSES, DRESSES, VESTEES, GILETS, COLLAR AND CUFF SETS, AND COATS.
Claims use since Dec. 1, 1942.

Ser. No. 460,899. LA FRANCE UNDERGARMENTS, New York, N. Y. Filed May 25, 1943.

LaLourelle

FOR NIGHTGOWNS, SLIPS, PANTIES, HOUSECOATS, CHEMISES, AND PAJAMAS FOR WOMEN, MISSES, AND GIRLS.
Claims use since May 17, 1943.

Ser. No. 461,111. EMANUEL J. GERLI, New York, N. Y. Filed June 3, 1943.

MEXAMIGA

FOR LADIES', MISSES', AND CHILDREN'S SKIRTS, BOLEROS, WRAP AROUND SKIRTS.
Claims use since January 1943.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 450,333. GODETTE PRODUCTS CORPORATION, Newark, N. J. Filed Jan. 20, 1942.

SLIM-JANE

FOR ORNAMENTAL HAIR, SHOE, AND DRESS BOWS MADE OF FABRICS AND COMPOSITIONS; RIBBONS SOLD IN SHORT CUT LENGTHS SUCH AS WRIST WATCH RIBBONS AND SHOULDER STRAPS; SHOE AND DRESS BUCKLES, SHOELACES, AND DRESS SHIELDS.
Claims use since October 1941.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS

Ser. No. 457,518. EDWARD M. TOOHILL, Brooklyn, N. Y. Filed Dec. 18, 1942.
The surname "Toohill" and the wording "Water Repellent" and "Laboratory Tested" are disclaimed apart from the mark.



FOR RAYON AND COTTON MIXTURES AND ACETATE RAYON MIXTURES PIECE GOODS.
Claims use since Jan. 1, 1939.

Ser. No. 458,344. SOUTHERN MILLS, INCORPORATED, Atlanta, Ga. Filed Feb. 4, 1943.

Col.
COTTONBLOSSOM

FOR COTTON COVER CLOTH IN THE FORM OF WIDE SHEETING, DUCK, AND APRON DUCK, ALL IN THE PIECE, ROLL, OR BOLT.
Claims use since January 1930.

Ser. No. 458,453. C. W. ATTENBOROUGH & CO. LIMITED, Leicester, England. Filed Feb. 10, 1943.

TENBRA

FOR KNITTED AND WOVEN FABRICS IN THE NATURE OF PIECE GOODS COMPOSED WHOLLY OF COTTON, WOOL, SILK, ARTIFICIAL SILK, OR OF MIXTURES OF ANY TWO OR MORE OF SUCH MATERIALS.
Claims use since August 1941.

Ser. No. 459,912. SELDEN WORSTED MILLS, Methuen, Mass. Filed Apr. 15, 1943.

MORAER

FOR PIECE GOODS MADE FROM WOOL, MOHAIR, CAMEL'S HAIR, ALPACA, SILK, COTTON, LINEN, RAYON, AND NYLON AND COMBINATIONS THEREOF.
Claims use since Nov. 15, 1919.

Ser. No. 460,166. AIREDALE WORSTED MILLS, INC., Boston, Mass. Filed Apr. 26, 1943.

Airedale



FOR PIECE GOODS OF WORSTED, COTTON, AND/OR RAYON, AND MIXTURES THEREOF.
Claims use since January 1923.

Ser. No. 460,721. L. & E. STIRN INC., New York, N. Y. Filed May 18, 1943.

SUN LIFE

FOR DRESS FABRICS IN THE PIECE MADE OF SILK, RAYON AND A MIXTURE THEREOF.
Claims use since March 9, 1942.

Ser. No. 460,793. EXPERT BEDDING CO., Chicago, Ill. Filed May 21, 1943.

ALTEX

FOR PILLOW CASINGS, MATTRESS COVERS, MATTRESS PADS, SPRING COVERS, COMFORTERS, AND COMFORTER COVERS.
Claims use since December 1937.

Ser. No. 461,038. BULKLEY, WEINBERG & TORMEY, INCORPORATED, New York, N. Y. Filed May 31, 1943.
The word "Plaids" is disclaimed apart from the mark.

Harvest Plaids

FOR WOOLEN AND WORSTED FABRICS IN THE PIECE.
Claims use since Apr. 22, 1942.

CLASS 43

THREAD AND YARN

Ser. No. 460,248. AMERICAN ENKA CORPORATION, Enka, N. C. Filed Apr. 29, 1943.
No claim is made for "AM." apart from the mark.

AM. ENKA
VITALA

FOR RAYON YARNS.
Claims use since June 16, 1942.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 444,510. MINE SAFETY APPLIANCES COMPANY, Pittsburgh, Pa. Filed June 13, 1941.
Applicant disclaims the words "Self Rescuer" apart from the mark.

MSA SELF RESCUER

FOR BREATHING APPARATUS FOR AFFORDING RESPIRATORY PROTECTION IN UNBREATHABLE ATMOSPHERES.
Claims use since Apr. 1, 1923.

Ser. No. 461,259. FRANCIS H. MONTMARQUET, doing business as The O-C Manufacturing Co., Little Falls, N. J. Filed June 9, 1943.

APEX

FOR JOCK STRAPS, SUSPENSORIES, AND ATHLETIC SUPPORTERS.
Claims use since June 8, 1942.

CLASS 45

BEVERAGES, NONALCOHOLIC

Ser. No. 460,523. JOHN GRAF COMPANY, Milwaukee, Wis. Filed May 10, 1943.
Applicant disclaims the name "Graf's" apart from the mark.

Grafs

FOR ROOT BEER AND NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS.
Claims use since Sept. 6, 1940.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 457,318. SAFEWAY STORES, INC., OF NEVADA, also doing business as Table Products Company, Reno, Nev., and Oakland, Calif. Filed Dec. 10, 1942.

WESTAG

FOR FOOD FLAVORING EXTRACTS.
Claims use since Feb. 9, 1938.

Ser. No. 458,397. INTER-STATE FRUIT & VEGETABLE CO., La Feria, Tex. Filed Feb. 8, 1943.

PATRIOTIC



FOR FRESH CITRUS FRUITS.
Claims use since Oct. 6, 1940.

Ser. No. 458,894. RAFAEL MARTINEZ MALLEA, Havana, Cuba. Filed Mar. 4, 1943.

BIJOL

FOR SAFFRON, PAPRIKA, ANNATTO, ANNATTO POWDER, ANISE, CINNAMON, WILD MARJORAM, CLOVE, CUMIN, AMARANTH, MUSTARD, LAUREL LEAVES, PEPPER, SPICES IN NATURAL STATE OR REDUCED TO POWDER, AND COMBINATIONS OF SPICES FOR FLAVORING AND SEASONING FOODS.
Claims use since November 1942.

Ser. No. 461,032. MAX AMS, INC., New York, N. Y. Filed May 31, 1943.

"1868"

FOR FRUIT PRESERVES, JELLIES, HONEY, FRUIT BUTTER, MARMALADE, PRUNE JUICE, CAKE AND DOUGHNUT FLOUR, BAKING CHOCOLATE, GELATINE DESSERT POWDERS, BAKING POWDER, FLAVORING EXTRACTS FOR FOOD PURPOSES, VINEGAR, MAYONNAISE, MUSTARD, PEPPER, OLIVES, NOODLES, SPAGHETTI, AND MACARONI.
Claims use since May 18, 1943.

Ser. No. 461,216. MAX AMS, INC., New York, N. Y. Filed June 8, 1943.
Applicant disclaims the notation "Meringue" separately from the mark.

AIRLITE-MERINGUE

FOR PIE FILLING IN POWDERED FORM.
Claims use since Apr. 23, 1943.

Ser. No. 461,270. SOUZA BROS. PACKING CO., Santa Maria, Calif. Filed June 9, 1943.
No claim is made to the representation of the label apart from the mark.



FOR FRESH VEGETABLES.
Claims use since May 10, 1943.

CLASS 47

WINES

Ser. No. 459,078. ITALIAN VINEYARD COMPANY, and also trading as San Secondo Winery, Los Angeles, Calif. Filed Mar. 13, 1943.



FOR WINES.
Claims use since Dec. 30, 1942.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 453,082. G. HIRSCH SONS, INCORPORATED, New York, N. Y. Filed May 18, 1942.

LOCAIDS

FOR LUMINESCENT SURFACES COMPRISED OF GUMMED PAPER OR FABRIC COATED WITH LUMINANT PAINT.
Claims use since Apr. 24, 1942.

Ser. No. 455,428. MAX L. FINKELSTEIN, Trustee in Reorganization of the Estate of F. A. Ringler Company, Debtor, New York, N. Y. Filed Sept. 9, 1942.
No claim is made to the word "Ringler" apart from the mark.

RINGLER RONCLADS

FOR PHOTO-ENGRAVING, ELECTRO-TYPING AND EMBOSSING PLATES.
Claims use since July 1, 1942.

Ser. No. 460,463. THE INERTO COMPANY, San Francisco, Calif. Filed May 6, 1943.

INERTO

FOR PROCESSED MINERAL USED AS A STABILIZER, CLARIFIER, OR CHILL PROOFER FOR BEER AND LIKE PRODUCTS.
Claims use since Mar. 24, 1943.

Ser. No. 460,969. SHOE FORM CO., INC., Auburn, N. Y. Filed May 27, 1943.

Twinkle Toe

FOR SHOE FORMS.
Claims use since December 1933.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

AUGUST 3, 1943

402,550. ARTICLES AND MOLDED PLASTIC PARTS FOR USE IN ELECTRICAL APPARATUS. THE RICHARDSON COMPANY, Lockland, Ohio.
Filed October 16, 1940. Serial No. 437,014. PUBLISHED MAY 25, 1943. Class 21.

402,551. CANNED MUSHROOMS. MID-WEST MUSHROOM COMPANY, Kansas City, Mo.
Filed March 19, 1941. Serial No. 441,708. PUBLISHED MAY 25, 1943. Class 46.

402,552. PREPARATIONS CONTAINING SULFUR IN A DISSOLVED FORM TO BE TAKEN INTERNALLY AS A MEDICINE OR USED EXTERNALLY AS A SULFUR BATH IN THE TREATMENT OF RHEUMATISM, OBESITY, SCIATICA, LUMBAGO, ACNE, SKIN ERUPTIONS, ETC. SIGMUND POLLACK, Washington, D. C.
Filed August 28, 1941. Serial No. 446,632. PUBLISHED OCTOBER 14, 1941. Class 6.

402,553. SEED CORN. PFISTER HYBRID CORN COMPANY, El Paso, Ill.
Filed September 18, 1941. Serial No. 447,146. PUBLISHED MAY 25, 1943. Class 1.

402,554. SEED CORN. PFISTER HYBRID CORN COMPANY, El Paso, Ill.
Filed September 18, 1941. Serial No. 447,147. PUBLISHED MAY 25, 1943. Class 1.

402,555. SEED CORN. PFISTER HYBRID CORN COMPANY, El Paso, Ill.
Filed September 18, 1941. Serial No. 447,148. PUBLISHED MAY 25, 1943. Class 1.

402,556. SEED CORN. PFISTER HYBRID CORN COMPANY, El Paso, Ill.
Filed September 18, 1941. Serial No. 447,152. PUBLISHED MAY 25, 1943. Class 1.

402,557. SEED CORN. LESTER PFISTER, El Paso, Ill.
Filed September 18, 1941. Serial No. 447,154. PUBLISHED MAY 25, 1943. Class 1.

402,558. SEED CORN. LESTER PFISTER, El Paso, Ill.
Filed September 18, 1941. Serial No. 447,155. PUBLISHED MAY 25, 1943. Class 1.

402,559. SEED CORN. LESTER PFISTER, El Paso, Ill.
Filed September 18, 1941. Serial No. 447,156. PUBLISHED MAY 25, 1943. Class 1.

402,560. SEED CORN. LESTER PFISTER, El Paso, Ill.
Filed September 18, 1941. Serial No. 447,159. PUBLISHED MAY 25, 1943. Class 1.

402,561. SEED CORN. LESTER PFISTER, El Paso, Ill.
Filed September 18, 1941. Serial No. 447,161. PUBLISHED MAY 25, 1943. Class 1.

402,562. SEED CORN. LESTER PFISTER, El Paso, Ill.
Filed September 18, 1941. Serial No. 447,162. PUBLISHED MAY 25, 1943. Class 1.

402,563. SIZING PREPARATION FOR USE IN THE TREATMENT OF PAPER AND PAPER PULP. AMERICAN CYANAMID & CHEMICAL CORPORATION, New York, N. Y.
Filed November 19, 1941. Serial No. 448,749. PUBLISHED DECEMBER 8, 1942. Class 6.

402,564. BUILDING BLOCKS COMPRISING AGGREGATE AND CEMENTITIOUS BINDER. THE CELOTEX CORPORATION, Chicago, Ill.
Filed December 20, 1941. Serial No. 449,639. PUBLISHED MAY 25, 1943. Class 12.

402,565. COSMETIC APPLICATORS AND ROUGE APPLICATORS OR PUFFS HAVING A FABRIC PORTION IMPREGNATED WITH POWDER AND ROUGE TO BE RUBBED OR PATTED ON THE SKIN. DERMETICS, INC., Seattle, Wash.
Filed January 13, 1942. Serial No. 450,177. PUBLISHED MAY 18, 1943. Class 6.

402,566. ICE CREAM. ESKIMO PIE CORPORATION, Bloomfield, N. J.
Filed February 20, 1942. Under the act of February 20, 1905, as amended June 10, 1938. Serial No. 451,105. PUBLISHED MAY 25, 1943. Class 46.

402,567. HAND OPERATED TOOLS FOR STAPLING PAPER AND SIMILAR MATERIALS. FASTENER CORPORATION, Chicago, Ill.
Filed February 26, 1942. Serial No. 451,230. PUBLISHED MAY 25, 1943. Class 37.

402,568. ELECTRICALLY OPERATED TIME CONTROLLED INDICATOR FOR CORRECTLY WARNING FIGHT PERIODS, REST PERIODS, AND THE LIKE. LEE ANDREW DUROCHER, doing business as Norco Refrigerator & Radio Sales, Norco, La.
Filed March 9, 1942. Serial No. 451,490. PUBLISHED MAY 25, 1943. Class 26.

402,569. CANNED FRUITS. MARKETS, INC., Oakland, Calif.
Filed March 25, 1942. Serial No. 451,900. PUBLISHED MAY 25, 1943. Class 46.

402,570. VENTILATING PREFABRICATED DUCT SECTIONS, STRUCTURAL PANELS FOR VENTILATING DUCTS, CONNECTORS FOR JOINING VENTILATING DUCT SECTIONS TO EACH OTHER, VENTILATING DUCT FITTINGS, AND VENTILATING DUCT REGISTERS. CHRYSLER CORPORATION, Highland Park, Mich., and Dayton, Ohio.
Filed June 26, 1942. Serial No. 453,888. PUBLISHED MAY 25, 1943. Class 34.

402,571. MEN'S, BOYS', WOMEN'S, AND GIRLS' OVERCOATS AND TOPCOATS. C. B. SHANE CORPORATION, Chicago, Ill.
Filed August 24, 1942. Serial No. 455,089. PUBLISHED OCTOBER 20, 1942. Class 39.

402,572. ELECTRICAL EQUIPMENT — NAMELY, ELECTRICALLY INSULATING PANELS, ELECTRICALLY INSULATING WASHERS AND BUSHINGS, ETC. EVANS-WINTER-HEBB, INC., Detroit, Mich.
Filed August 31, 1942. Serial No. 455,204. PUBLISHED MAY 25, 1943. Class 21.

402,573. AIRPLANES AND STRUCTURAL PARTS. VEGA AIRCRAFT CORPORATION, Burbank, Calif.
Filed September 26, 1942. Serial No. 455,808. PUBLISHED MAY 25, 1943. Class 19.

402,574. AIRPLANES AND STRUCTURAL PARTS. VEGA AIRCRAFT CORPORATION, Burbank, Calif.
Filed September 26, 1942. Serial No. 455,809. PUBLISHED MAY 25, 1943. Class 19.

402,575. BRILLIANTINE. THE COUNTY PERFUMERY COMPANY, INC., Bloomfield, N. J.
Filed October 2, 1942. Serial No. 455,908. PUBLISHED MAY 18, 1943. Class 6.

402,576. ACETOPHENETIDIN; ACETYLCHOLINE BROMIDE; ACETYLSALICYLIC ACID; METHANOL, PURE METHYL, ALCOHOL; ALOIN; ETC. BURROUGHS WELLCOME & CO. (U. S. A.) INC., New York, N. Y.
Filed October 21, 1942. Serial No. 456,303. PUBLISHED MAY 25, 1943. Class 6.

402,577. PLASTIC COMPOSITION IN SHEET FORM. PLAX CORPORATION, Hartford, Conn.
Filed October 26, 1942. Serial No. 456,431. PUBLISHED FEBRUARY 2, 1943. Class 50.

402,578. TOBACCO PIPES, CIGAR HOLDERS, AND CIGARETTE HOLDERS. ALFRED DUNHILL LIMITED, London, England.
Filed November 17, 1942. Serial No. 456,866. PUBLISHED MAY 25, 1943. Class 8.

402,579. TOBACCO, MANUFACTURED OR UNMANUFACTURED, CIGARS AND CIGARETTES. ALFRED DUNHILL LIMITED, London, England.
Filed November 17, 1942. Serial No. 456,867. PUBLISHED MAY 25, 1943. Class 17.

402,580. ELECTRIC APPARATUS FOR VARYING THE CURRENT INTENSITY IN A CONTROLLED CIRCUIT DEPENDENT UPON VARIATIONS OF RADIANT ENERGY AFFECTING A CONTROLLED CIRCUIT, SAID APPARATUS ADAPTED FOR USE WITH INDUSTRIAL EQUIPMENT INCLUDING SIGNALS, SAFETY APPLIANCES, COUNTERS, COMBUSTION SUPERVISORS. COMBUSTION CONTROL CORPORATION, Cambridge, Mass.
Filed December 4, 1942. Serial No. 457,198. PUBLISHED MAY 25, 1943. Class 21.

402,581. DISHES, CUPS, SAUCERS, PLATES, PLATTERS, SERVING BOWLS, MADE OF PORCELAIN STETSON CHINA COMPANY, Chicago, Ill.
Filed December 7, 1942. Serial No. 457,258. PUBLISHED MAY 25, 1943. Class 30.

402,582. PRODUCT USED TO RELIEVE TRANSIENT NASAL CONGESTION THROUGH LOCAL APPLICATION. THE WM. S. MERRELL COMPANY, Cincinnati, Ohio.
Filed December 14, 1942. Serial No. 457,398. PUBLISHED MARCH 23, 1943. Class 6.

402,583. FLOWER POTS OF CONCRETE AND FLOWER BASKETS OF WOOD AND FIBROUS MATERIAL. GEORGE KOCH SONS, INC., Evansville, Ind.
Filed December 16, 1942. Serial No. 457,439. PUBLISHED MAY 25, 1943. Class 2.

402,584. METAL, PLASTIC, AND COMPOSITION NAME, NUMBER AND LETTER PLATES, SEALS, AND TAGS OTHER THAN THOSE MADE OF OR WITH SPRAY METAL. METAL DECORATING & MFG. CO., Chicago, Ill.
Filed December 26, 1942. Serial No. 457,610. PUBLISHED MARCH 30, 1943. Class 50.

402,585. COMPOSITION OF CHEMICALS FOR TREATING BATTERIES. V. H. ROWLETT, doing business as Battery Life-O-Matic Products, Kansas City, Mo.
Filed January 11, 1943. Serial No. 457,864. PUBLISHED MAY 25, 1943. Class 6.

402,586. REENFORCING BACKS FOR BRAKE SHOES. THE AMERICAN BRAKE SHOE AND FOUNDRY COMPANY, New York, N. Y., now by change of name American Brake Shoe Company.
Filed January 18, 1943. Serial No. 457,964. PUBLISHED MAY 25, 1943. Class 19.

402,587. REENFORCING BACKS FOR BRAKE SHOES. THE AMERICAN BRAKE SHOE AND FOUNDRY COMPANY, New York, N. Y., now by change of name American Brake Shoe Company.
Filed January 18, 1943. Serial No. 457,965. PUBLISHED MAY 25, 1943. Class 19.

402,588. LATEX CUPS, PICNIC JUGS, VACUUM BOTTLES AND METALLIC BARRELS. THE FIRESTONE TIRE & RUBBER COMPANY, Akron, Ohio.
Filed January 21, 1943. Serial No. 458,068. PUBLISHED MAY 25, 1943. Class 2.

402,589. WATERPROOFING AND PROTECTIVE PAINT OR ENAMEL COATING FOR CONCRETE, STEEL, WOOD, PLASTER, MASONRY AND METAL SURFACES IN GENERAL. INERTOL COMPANY, INC., Newark, N. J.
Filed January 21, 1943. Serial No. 458,071. PUBLISHED MAY 25, 1943. Class 16.

402,590. ELECTRIC GENERATORS AND SWITCHBOARDS. ROGERS DIESEL AND AIRCRAFT CORPORATION, New York, N. Y.
Filed January 23, 1943. Serial No. 458,120. PUBLISHED MAY 25, 1943. Class 21.

402,591. TABLE HOLLOW WARE MADE OF NONPRECIOUS METAL. AMERICAN ART ALLOYS, INC., Kokomo, Ind.
Filed January 25, 1943. Serial No. 458,136. PUBLISHED MAY 25, 1943. Class 13.

402,592. BOATS FOR ROWING, PADDLING AND OUTBOARD MOTOR USE. PENN YAN BOATS, INCORPORATED, Penn Yan, N. Y.
Filed February 10, 1943. Serial No. 458,465. PUBLISHED MAY 25, 1943. Class 19.

402,593. LADIES' HANDBAGS. COLONY BAGS, INC., New York, N. Y.
Filed February 15, 1943. Serial No. 458,527. PUBLISHED MAY 25, 1943. Class 3.

402,594. SHOE POLISHES AND CLEANERS FOR WHITE SHOES. GEM PRODUCTS, INC., Milwaukee, Wis.
Filed February 15, 1943. Serial No. 458,534. PUBLISHED MAY 25, 1943. Class 4.

402,595. VAGINAL JELLY. JULIUS SCHMID, INC., New York, N. Y.
Filed February 18, 1943. Serial No. 458,617. PUBLISHED MAY 4, 1943. Class 6.

402,596. MEDICINAL TABLET FOR THE RELIEF OF COLDS, SIMPLE HEADACHES, AND NEURALGIA, AND VITAMIN CAPSULES. THE GROVE LABORATORIES, INC., Wilmington, Del., and St. Louis, Mo.
Filed February 22, 1943. Serial No. 458,685. PUBLISHED MAY 18, 1943. Class 6.

402,597. METALLIC SHEETS HAVING A LIGHT SENSITIVE COATING THEREON. DI-NOC-CRAMER CORPORATION, Cleveland, Ohio.
Filed February 25, 1943. Serial No. 458,752. PUBLISHED MAY 25, 1943. Class 26.

402,598. METALLIC SHEETS HAVING A LIGHT SENSITIVE COATING THEREON. DI-NOC-CRAMER CORPORATION, Cleveland, Ohio.
Filed February 25, 1943. Serial No. 458,753. PUBLISHED MAY 25, 1943. Class 26.

402,599. METALLIC SHEETS HAVING A LIGHT SENSITIVE COATING THEREON. DI-NOC-CRAMER CORPORATION, Cleveland, Ohio.
Filed February 25, 1943. Serial No. 458,754. PUBLISHED MAY 25, 1943. Class 26.

402,600. POTTERY CANDY BOXES, POTTERY FERN DISHES, POTTERY FLOWER BOWLS, POTTERY FLOWER HOLDERS, AND POTTERY FLOWER POTS, POTTERY COOKIE JARS, POTTERY VASES, POTTERY GINGER JARS, AND POTTERY BOWLS. IGNAZ STRAUSS CO., INC., New York, N. Y.
Filed February 26, 1943. Serial No. 458,797. PUBLISHED MAY 25, 1943. Class 30.

402,601. AQUEOUS AND NONAQUEOUS WAX EMULSIONS WHICH MAKE ABSORBATIVE FIBROUS AND NONFIBROUS MATERIALS WATERPROOF AND WATER REPELLENT—NAMELY, LEATHER AND THE LIKE. S. C. JOHNSON & SON, INC., Racine, Wis.
Filed February 27, 1943. Serial No. 458,811. PUBLISHED MAY 25, 1943. Class 4.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

AUGUST 3, 1943

402,550. ARTICLES AND MOLDED PLASTIC PARTS FOR USE IN ELECTRICAL APPARATUS. THE RICHARDSON COMPANY, Lockland, Ohio.
Filed October 16, 1940. Serial No. 437,014. PUBLISHED MAY 25, 1943. Class 21.

402,551. CANNED MUSHROOMS. MID-WEST MUSHROOM COMPANY, Kansas City, Mo.
Filed March 19, 1941. Serial No. 441,708. PUBLISHED MAY 25, 1943. Class 46.

402,552. PREPARATIONS CONTAINING SULFUR IN A DISSOLVED FORM TO BE TAKEN INTERNALLY AS A MEDICINE OR USED EXTERNALLY AS A SULFUR BATH IN THE TREATMENT OF RHEUMATISM, OBESITY, SCIATICA, LUMBAGO, ACNE, SKIN ERUPTIONS, ETC. SIGMUND POLLACK, Washington, D. C.
Filed August 28, 1941. Serial No. 446,632. PUBLISHED OCTOBER 14, 1941. Class 6.

402,553. SEED CORN. PFISTER HYBRID CORN COMPANY, El Paso, Ill.
Filed September 18, 1941. Serial No. 447,146. PUBLISHED MAY 25, 1943. Class 1.

402,554. SEED CORN. PFISTER HYBRID CORN COMPANY, El Paso, Ill.
Filed September 18, 1941. Serial No. 447,147. PUBLISHED MAY 25, 1943. Class 1.

402,555. SEED CORN. PFISTER HYBRID CORN COMPANY, El Paso, Ill.
Filed September 18, 1941. Serial No. 447,148. PUBLISHED MAY 25, 1943. Class 1.

402,556. SEED CORN. PFISTER HYBRID CORN COMPANY, El Paso, Ill.
Filed September 18, 1941. Serial No. 447,152. PUBLISHED MAY 25, 1943. Class 1.

402,557. SEED CORN. LESTER PFISTER, El Paso, Ill.
Filed September 18, 1941. Serial No. 447,154. PUBLISHED MAY 25, 1943. Class 1.

402,558. SEED CORN. LESTER PFISTER, El Paso, Ill.
Filed September 18, 1941. Serial No. 447,155. PUBLISHED MAY 25, 1943. Class 1.

402,559. SEED CORN. LESTER PFISTER, El Paso, Ill.
Filed September 18, 1941. Serial No. 447,156. PUBLISHED MAY 25, 1943. Class 1.

402,560. SEED CORN. LESTER PFISTER, El Paso, Ill.
Filed September 18, 1941. Serial No. 447,159. PUBLISHED MAY 25, 1943. Class 1.

402,561. SEED CORN. LESTER PFISTER, El Paso, Ill.
Filed September 18, 1941. Serial No. 447,161. PUBLISHED MAY 25, 1943. Class 1.

402,562. SEED CORN. LESTER PFISTER, El Paso, Ill.
Filed September 18, 1941. Serial No. 447,162. PUBLISHED MAY 25, 1943. Class 1.

402,563. SIZING PREPARATION FOR USE IN THE TREATMENT OF PAPER AND PAPER PULP. AMERICAN CYANAMID & CHEMICAL CORPORATION, New York, N. Y.
Filed November 19, 1941. Serial No. 448,749. PUBLISHED DECEMBER 8, 1942. Class 6.

402,564. BUILDING BLOCKS COMPRISING AGGREGATE AND CEMENTITIOUS BINDER. THE CELOTEX CORPORATION, Chicago, Ill.
Filed December 20, 1941. Serial No. 449,639. PUBLISHED MAY 25, 1943. Class 12.

402,565. COSMETIC APPLICATORS AND ROUGE APPLICATORS OR PUFFS HAVING A FABRIC PORTION IMPREGNATED WITH POWDER AND ROUGE TO BE RUBBED OR PATTED ON THE SKIN. DERMETICS, INC., Seattle, Wash.
Filed January 13, 1942. Serial No. 450,177. PUBLISHED MAY 18, 1943. Class 6.

402,566. ICE CREAM. ESKIMO PIE CORPORATION, Bloomfield, N. J.
Filed February 20, 1942. Under the act of February 20, 1905, as amended June 10, 1938. Serial No. 451,105. PUBLISHED MAY 25, 1943. Class 46.

402,567. HAND OPERATED TOOLS FOR STAPLING PAPER AND SIMILAR MATERIALS. FASTENER CORPORATION, Chicago, Ill.
Filed February 26, 1942. Serial No. 451,230. PUBLISHED MAY 25, 1943. Class 37.

402,568. ELECTRICALLY OPERATED TIME CONTROLLED INDICATOR FOR CORRECTLY WARNING FIGHT PERIODS, REST PERIODS, AND THE LIKE. LEE ANDREW DUROCHER, doing business as Norco Refrigerator & Radio Sales, Norco, La.
Filed March 9, 1942. Serial No. 451,490. PUBLISHED MAY 25, 1943. Class 26.

402,569. CANNED FRUITS. MARKETS, INC., Oakland, Calif.
Filed March 25, 1942. Serial No. 451,900. PUBLISHED MAY 25, 1943. Class 46.

402,570. VENTILATING PREFABRICATED DUCT SECTIONS, STRUCTURAL PANELS FOR VENTILATING DUCTS, CONNECTORS FOR JOINING VENTILATING DUCT SECTIONS TO EACH OTHER, VENTILATING DUCT FITTINGS, AND VENTILATING DUCT REGISTERS. CHRYSLER CORPORATION, Highland Park, Mich., and Dayton, Ohio.
Filed June 26, 1942. Serial No. 453,888. PUBLISHED MAY 25, 1943. Class 34.

402,571. MEN'S, BOYS', WOMEN'S, AND GIRLS' OVERCOATS AND TOPCOATS. C. B. SHANE CORPORATION, Chicago, Ill.
Filed August 24, 1942. Serial No. 455,089. PUBLISHED OCTOBER 20, 1942. Class 39.

402,572. ELECTRICAL EQUIPMENT — NAMELY, ELECTRICALLY INSULATING PANELS, ELECTRICALLY INSULATING WASHERS AND BUSHINGS, ETC. EVANS-WINTER-HEBB, INC., Detroit, Mich.
Filed August 31, 1942. Serial No. 455,204. PUBLISHED MAY 25, 1943. Class 21.

402,573. AIRPLANES AND STRUCTURAL PARTS. VEGA AIRCRAFT CORPORATION, Burbank, Calif.
Filed September 26, 1942. Serial No. 455,808. PUBLISHED MAY 25, 1943. Class 19.

402,574. AIRPLANES AND STRUCTURAL PARTS. VEGA AIRCRAFT CORPORATION, Burbank, Calif.
Filed September 26, 1942. Serial No. 455,809. PUBLISHED MAY 25, 1943. Class 19.

402,575. BRILLIANTINE. THE COUNTY PERFUMERY COMPANY, INC., Bloomfield, N. J.
Filed October 2, 1942. Serial No. 455,908. PUBLISHED MAY 18, 1943. Class 6.

402,576. ACETOPHENETIDIN; ACETYLCHOLINE BROMIDE; ACETYLSALICYLIC ACID; METHANOL, PURE METHYL, ALCOHOL; ALOIN; ETC. BURROUGHS WELLCOME & Co. (U. S. A.) INC., New York, N. Y.
Filed October 21, 1942. Serial No. 456,303. PUBLISHED MAY 25, 1943. Class 6.

402,577. PLASTIC COMPOSITION IN SHEET FORM. PLAX CORPORATION, Hartford, Conn.
Filed October 26, 1942. Serial No. 456,431. PUBLISHED FEBRUARY 2, 1943. Class 50.

402,578. TOBACCO PIPES, CIGAR HOLDERS, AND CIGARETTE HOLDERS. ALFRED DUNHILL LIMITED, London, England.
Filed November 17, 1942. Serial No. 456,866. PUBLISHED MAY 25, 1943. Class 8.

402,579. TOBACCO, MANUFACTURED OR UNMANUFACTURED, CIGARS AND CIGARETTES. ALFRED DUNHILL LIMITED, London, England.
Filed November 17, 1942. Serial No. 456,867. PUBLISHED MAY 25, 1943. Class 17.

402,580. ELECTRIC APPARATUS FOR VARYING THE CURRENT INTENSITY IN A CONTROLLED CIRCUIT DEPENDENT UPON VARIATIONS OF RADIANT ENERGY AFFECTING A CONTROLLED CIRCUIT, SAID APPARATUS ADAPTED FOR USE WITH INDUSTRIAL EQUIPMENT INCLUDING SIGNALS, SAFETY APPLIANCES, COUNTERS, COMBUSTION SUPERVISORS. COMBUSTION CONTROL CORPORATION, Cambridge, Mass.
Filed December 4, 1942. Serial No. 457,198. PUBLISHED MAY 25, 1943. Class 21.

402,581. DISHES, CUPS, SAUCERS, PLATES, PLATTERS, SERVING BOWLS, MADE OF PORCELAIN STETSON CHINA COMPANY, Chicago, Ill.
Filed December 7, 1942. Serial No. 457,258. PUBLISHED MAY 25, 1943. Class 30.

402,582. PRODUCT USED TO RELIEVE TRANSIENT NASAL CONGESTION THROUGH LOCAL APPLICATION. THE WM. S. MERRELL COMPANY, Cincinnati, Ohio.
Filed December 14, 1942. Serial No. 457,398. PUBLISHED MARCH 23, 1943. Class 6.

402,583. FLOWER POTS OF CONCRETE AND FLOWER BASKETS OF WOOD AND FIBROUS MATERIAL. GEORGE KOCH SONS, INC., Evansville, Ind.
Filed December 16, 1942. Serial No. 457,439. PUBLISHED MAY 25, 1943. Class 2.

402,584. METAL, PLASTIC, AND COMPOSITION NAME, NUMBER AND LETTER PLATES, SEALS, AND TAGS OTHER THAN THOSE MADE OF OR WITH SPRAY METAL. METAL DECORATING & MFG. Co., Chicago, Ill.
Filed December 26, 1942. Serial No. 457,610. PUBLISHED MARCH 30, 1943. Class 50.

402,585. COMPOSITION OF CHEMICALS FOR TREATING BATTERIES. V. H. ROWLETT, doing business as Battery Life-O-Matic Products, Kansas City, Mo.
Filed January 11, 1943. Serial No. 457,864. PUBLISHED MAY 25, 1943. Class 6.

402,586. REENFORCING BACKS FOR BRAKE SHOES. THE AMERICAN BRAKE SHOE AND FOUNDRY COMPANY, New York, N. Y., now by change of name American Brake Shoe Company.
Filed January 18, 1943. Serial No. 457,964. PUBLISHED MAY 25, 1943. Class 19.

402,587. REENFORCING BACKS FOR BRAKE SHOES. THE AMERICAN BRAKE SHOE AND FOUNDRY COMPANY, New York, N. Y., now by change of name American Brake Shoe Company.
Filed January 18, 1943. Serial No. 457,965. PUBLISHED MAY 25, 1943. Class 19.

402,588. LATEX CUPS, PICNIC JUGS, VACUUM BOTTLES AND METALLIC BARRELS. THE FIRESTONE TIRE & RUBBER COMPANY, Akron, Ohio.
Filed January 21, 1943. Serial No. 458,068. PUBLISHED MAY 25, 1943. Class 2.

402,589. WATERPROOFING AND PROTECTIVE PAINT OR ENAMEL COATING FOR CONCRETE, STEEL, WOOD, PLASTER, MASONRY AND METAL SURFACES IN GENERAL. INERTOL COMPANY, INC., Newark, N. J.
Filed January 21, 1943. Serial No. 458,071. PUBLISHED MAY 25, 1943. Class 16.

402,590. ELECTRIC GENERATORS AND SWITCHBOARDS. ROGERS DIESEL AND AIRCRAFT CORPORATION, New York, N. Y.
Filed January 23, 1943. Serial No. 458,120, PUBLISHED MAY 25, 1943. Class 21.

402,591. TABLE HOLLOW WARE MADE OF NONPRECIOUS METAL. AMERICAN ART ALLOYS, INC., Kokomo, Ind.
Filed January 25, 1943. Serial No. 458,136. PUBLISHED MAY 25, 1943. Class 13.

402,592. BOATS FOR ROWING, PADDLING AND OUTBOARD MOTOR USE. PENN YAN BOATS, INCORPORATED, Penn Yan, N. Y.
Filed February 10, 1943. Serial No. 458,465. PUBLISHED MAY 25, 1943. Class 19.

402,593. LADIES' HANDBAGS. COLONY BAGS, INC., New York, N. Y.
Filed February 15, 1943. Serial No. 458,527. PUBLISHED MAY 25, 1943. Class 3.

402,594. SHOE POLISHES AND CLEANERS FOR WHITE SHOES. GEM PRODUCTS, INC., Milwaukee, Wis.
Filed February 15, 1943. Serial No. 458,534. PUBLISHED MAY 25, 1943. Class 4.

402,595. VAGINAL JELLY. JULIUS SCHMID, INC., New York, N. Y.
Filed February 18, 1943. Serial No. 458,617. PUBLISHED MAY 4, 1943. Class 6.

402,596. MEDICINAL TABLET FOR THE RELIEF OF COLDS, SIMPLE HEADACHES, AND NEURALGIA, AND VITAMIN CAPSULES. THE GROVE LABORATORIES, INC., Wilmington, Del., and St. Louis, Mo.
Filed February 22, 1943. Serial No. 458,685. PUBLISHED MAY 18, 1943. Class 6.

402,597. METALLIC SHEETS HAVING A LIGHT SENSITIVE COATING THEREON. DI-NOC-CRAMER CORPORATION, Cleveland, Ohio.
Filed February 25, 1943. Serial No. 458,752. PUBLISHED MAY 25, 1943. Class 26.

402,598. METALLIC SHEETS HAVING A LIGHT SENSITIVE COATING THEREON. DI-NOC-CRAMER CORPORATION, Cleveland, Ohio.
Filed February 25, 1943. Serial No. 458,753. PUBLISHED MAY 25, 1943. Class 26.

402,599. METALLIC SHEETS HAVING A LIGHT SENSITIVE COATING THEREON. DI-NOC-CRAMER CORPORATION, Cleveland, Ohio.
Filed February 25, 1943. Serial No. 458,754. PUBLISHED MAY 25, 1943. Class 26.

402,600. POTTERY CANDY BOXES, POTTERY FERN DISHES, POTTERY FLOWER BOWLS, POTTERY FLOWER HOLDERS, AND POTTERY FLOWER POTS, POTTERY COOKIE JARS, POTTERY VASES, POTTERY GINGER JARS, AND POTTERY BOWLS. IGNAZ STRAUSS CO., INC., New York, N. Y.
Filed February 26, 1943. Serial No. 458,797. PUBLISHED MAY 25, 1943. Class 30.

402,601. AQUEOUS AND NONAQUEOUS WAX EMULSIONS WHICH MAKE ABSORBATIVE FIBROUS AND NONFIBROUS MATERIALS WATERPROOF AND WATER REPELLENT—NAMELY, LEATHER AND THE LIKE. S. C. JOHNSON & SON, INC., Racine, Wis.
Filed February 27, 1943. Serial No. 458,811. PUBLISHED MAY 25, 1943. Class 4.

402,602. RETREADS FOR PNEUMATIC TIRES. THE GENERAL TIRE & RUBBER COMPANY, Akron, Ohio.
Filed March 1, 1943. Serial No. 458,838. PUBLISHED MAY 25, 1943. Class 35.

402,603. ELECTRIC LAUNDRY DRIER FOR HOUSEHOLD USE. AUGUST C. PURPURA, doing business as The Automatic Electric Appliance Co., Chicago, Ill.
Filed March 2, 1943. Serial No. 458,869. PUBLISHED MAY 25, 1943. Class 24.

402,604. OPHTHALMIC MOUNTINGS AND LENSES AND PARTS THEREOF. THE HARLEQUIN CORPORATION, New York, N. Y.
Filed March 3, 1943. Serial No. 458,878. PUBLISHED MAY 25, 1943. Class 26.

402,605. PYROPHORIC, CATALYTIC, AND PILOT CIGARETTE LIGHTERS. BEATTIE PRODUCTS, INC., New York, N. Y.
Filed March 6, 1943. Serial No. 458,929. PUBLISHED MAY 25, 1943. Class 34.

402,606. PAPER WEIGHT SOUVENIR IN THE NATURE OF A BIRD EGG. CONLEY & STONE, Atlanta, Ga.
Filed March 6, 1943. Serial No. 458,933. PUBLISHED MAY 25, 1943. Class 50.

402,607. CANNED TOMATO JUICE. EDGAR F. HURFF COMPANY, Swedesboro, N. J.
Filed March 8, 1943. Serial No. 458,965. PUBLISHED MAY 25, 1943. Class 46.

402,608. VULCANIZING CEMENT. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio.
Filed March 9, 1943. Serial No. 458,983. PUBLISHED MAY 25, 1943. Class 5.

402,609. LINIMENT USED FOR THE RELIEF OF SWELLING AND STIFFNESS OF THE JOINTS, BURNS AND SCALDS. S. W. MILLS, doing business as S. W. Mills Liniment Co., Omaha, Nebr.
Filed March 9, 1943. Serial No. 458,989. PUBLISHED MAY 25, 1943. Class 6.

402,610. PACKAGE CONSISTING OF V-MAIL STATIONERY, WRITING FLUID, AND LEADS FOR A MECHANICAL PENCIL. W. A. SHEAFFER PEN COMPANY, Fort Madison, Iowa.
Filed March 13, 1943. Serial No. 459,087. PUBLISHED MAY 25, 1943. Class 50.

402,611. LUNCH KITS, PICNIC BASKETS, MOTHPROOF BAGS, COAL HODS, AND FIREPLACE BASKETS. L. BAMBERGER & CO., Newark, N. J.
Filed March 16, 1943. Serial No. 459,145. PUBLISHED MAY 25, 1943. Class 2.

402,612. MIXTURE COMPRISING DEXTROSE, LACTOSE, CAROTENE, CALCIUM OXIDE, MAGNESIUM OXIDE, COMPOUNDS OF SODIUM AND POTASSIUM, AND OTHER CHEMICAL INGREDIENTS, WHICH MIXTURE IS USED TO INCREASE THE MINERAL CONTENT IN THE PROCESSING OF MILK AND IN THE CONFECTION OF ICE CREAM. ERNEST D. FEAR, Kansas City, Mo.
Filed March 17, 1943. Serial No. 459,171. PUBLISHED MAY 18, 1943. Class 6.

402,613. TRAVELING BAGS. CHAS. T. WILT COMPANY, Chicago, Ill.
Filed March 17, 1943. Serial No. 459,184. PUBLISHED MAY 25, 1943. Class 3.

402,614. ELECTRICAL CONDENSERS. SPRAGUE SPECIALTIES COMPANY, North Adams, Mass.
Filed March 18, 1943. Serial No. 459,209. PUBLISHED MAY 25, 1943. Class 21.

402,615. GRASS SEEDS. EDGEWOOD FARMS, INC., Ridgefield, N. J.
Filed March 19, 1943. Serial No. 459,217. PUBLISHED MAY 25, 1943. Class 1.

402,616. MOTHPROOFING PAINTS. THE MOTHTONE COMPANY, Needham, Mass.
Filed March 19, 1943. Serial No. 459,227. PUBLISHED MAY 25, 1943. Class 16.

402,617. FRESH CITRUS FRUITS. ALLEN & SANDILANDS, Porterville, Calif.
Filed March 22, 1943. Serial No. 459,250. PUBLISHED MAY 25, 1943. Class 46.

402,618. PREPARATION FOR THE TREATMENT FOR LOOSE DANDRUFF. VIRGIL E. BEASLEY, doing business as The V. E. Beasley Mfg. Co., San Antonio, Tex.
Filed March 22, 1943. Serial No. 459,253. PUBLISHED MAY 25, 1943. Class 6.

402,619. CALIPERS, COMPASSES, DIVIDERS, BEVELS, GAUGES, AND PLUMB BOBS. DURKEE MARINE PRODUCTS CORPORATION, New York and Grasmere, Staten Island, N. Y.
Filed March 22, 1943. Serial No. 459,262. PUBLISHED MAY 25, 1943. Class 26.

402,620. COMBINATION VENTILATORS AND DECK PLATES, HOOD VENTILATORS, MUSHROOM, ADJUSTABLE CAP AND SHUTTER VENTILATORS, PORTHOLE AIR SCOOPS, LIVERPOOL HEADS, WIND SCOOPS, PILOT HEADS AND OIL, WAX, VAPOR AND GAS MARINE LAMPS. DURKEE MARINE PRODUCTS CORPORATION, New York and Grasmere, Staten Island, N. Y.
Filed March 22, 1943. Serial No. 459,263. PUBLISHED MAY 25, 1943. Class 34.

402,621. COFFEE SUBSTITUTE. HOUSEHOLD PRODUCTS CO., Chicago, Ill.
Filed March 22, 1943. Serial No. 459,267. PUBLISHED MAY 25, 1943. Class 46.

402,622. PREPARATION OF FLOUR (WHEAT AND/OR TAPIOCA), SALT, BURNT SUGAR, WHEAT PROTEIN DERIVATIVE (ARTIFICIAL SEASONING), DEHYDRATED VEGETABLES, AND SPICES FOR THE MAKING OF GRAVY. SERVAGEN CORP., Philadelphia, Pa.
Filed March 22, 1943. Serial No. 459,273. PUBLISHED MAY 25, 1943. Class 46.

402,623. TRANSPARENT PLASTIC BOXES. FISHER SCIENTIFIC COMPANY, Pittsburgh, Pa.
Filed March 23, 1943. Serial No. 459,284. PUBLISHED MAY 25, 1943. Class 2.

402,624. BEER. CAMDEN COUNTY BEVERAGE COMPANY, Camden, N. J.
Filed March 24, 1943. Serial No. 459,296. PUBLISHED MAY 11, 1943. Class 48.

402,625. MULTIPLE VITAMIN PRODUCT. MCKESSON & ROBBINS, INCORPORATED, New York, N. Y.
Filed March 25, 1943. Serial No. 459,343. PUBLISHED MAY 18, 1943. Class 6.

402,627. CHEMICAL DRAIN PIPE SOLVENT. UNITED GILSONITE LABORATORIES, Scranton, Pa.
Filed March 27, 1943. Serial No. 459,446. PUBLISHED MAY 18, 1943. Class 6.

402,628. WATER REPELLENT COMPOUNDS FOR TEXTILES AND OTHER FIBROUS MATERIALS. WARWICK CHEMICAL COMPANY, West Warwick, R. I.
Filed March 27, 1943. Serial No. 459,455. PUBLISHED MAY 18, 1943. Class 6.

402,629. PLANT GROWTH PROMOTING SUBSTANCES HAVING CHARACTERISTICS OF WHAT ARE COMMONLY KNOWN AS CHEMICAL HORMONES. A. E. STALEY MANUFACTURING COMPANY, Decatur, Ill.
Filed March 29, 1943. Serial No. 459,500. PUBLISHED MAY 18, 1943. Class 6.

402,630. TOY DISHES. GEO. BORGFELDT CORPORATION, New York, N. Y.
Filed March 30, 1943. Serial No. 459,506. PUBLISHED MAY 25, 1943. Class 22.

402,631. CANNED VEGETABLES—NAMELY, HOMINY AND LIMA BEANS. MCKEON CANNING CO., INC. Burbank, Calif.
Filed March 30, 1943. Serial No. 459,524. PUBLISHED MAY 25, 1943. Class 46.

402,632. COUNTER ETCH USED IN REMOVING OXIDES AND FOREIGN MATTER FROM THE GRAINED SURFACES OF LITHOGRAPHIC PLATES. DAVIDSON MANUFACTURING CORPORATION, Chicago, Ill.
Filed April 9, 1943. Serial No. 459,730. PUBLISHED MAY 25, 1943. Class 6.

402,633. SOLUTION USED FOR MAKING A LITHOGRAPHIC PLATE PHOTO-SENSITIVE. DAVIDSON MANUFACTURING CORPORATION, Chicago, Ill.
Filed April 9, 1943. Serial No. 459,731. PUBLISHED MAY 25, 1943. Class 6.

402,634. SOLUTION USED TO CLEAN BLANKETS AND ROLLERS USED IN PRINTING MACHINES. DAVIDSON MANUFACTURING CORPORATION, Chicago, Ill.
Filed April 9, 1943. Serial No. 459,732. PUBLISHED MAY 25, 1943. Class 6.

402,635. PREPARATION USED TO PRESERVE LITHOGRAPHIC PLATES WHEN THEY ARE TO BE STORED FOR LONG PERIODS OF TIME. DAVIDSON MANUFACTURING CORPORATION, Chicago, Ill.
Filed April 9, 1943. Serial No. 459,733. PUBLISHED MAY 25, 1943. Class 6.

402,636. FOUNTAIN ETCHES EMPLOYED IN THE LITHOGRAPHIC PROCESS. DAVIDSON MANUFACTURING CORPORATION, Chicago, Ill.
Filed April 9, 1943. Serial No. 459,734. PUBLISHED MAY 25, 1943. Class 6.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

402,637. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VICTOR E. WIKSTRAND, doing business as Golden West Milling Co., Longmont, Colo. Filed Mar. 21, 1940. Serial No. 429,835.

Wikstrand's

FOR PRE-MIXED FLOUR FOR BISCUITS AND PRE-MIXED FLOUR FOR CAKES.
Claims use since Mar. 5, 1940.

402,638. (CLASS 2. RECEPTACLES.) SCHEFFER & ROSSUM CO., St. Paul, Minn. Filed May 19, 1941. Serial No. 443,705.

WENATCHEE

FOR FRUIT PICKING BAGS.
Claims use since Jan. 1, 1916.

402,639. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) L. S. BRIGGS INC., Washington, D. C. Filed Jan. 13, 1942. Serial No. 450,175.

Briggs

FOR SAUSAGE.
Claims use since 1932.

402,640. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WALTER C. COWLEY, doing business as Cowley Products, Marlow, Okla. Filed Mar. 7, 1942. Serial No. 451,462.

RAT SNAK

FOR PREPARATION FOR THE EXTERMINATION OF RATS.
Claims use since December 1938.

402,641. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL TOILET COMPANY, doing business as Merrit Laboratories, Paris, Tenn. Filed Apr. 7, 1942. Serial No. 452,198.

MERRIT

FOR YEAST AND IRON TABLETS, TABLETS FOR RELIEF OF SIMPLE HEADACHE, NEURALGIA, AND MUSCULAR ACHES AND PAINS, ANTACID TABLETS, ASPIRIN TABLETS, LAXATIVE HERB TABLETS, POWDER FOR HOLDING DENTAL PLATES FAST, LAXATIVE TABLETS, LAXATIVE CHEWING GUM TABLETS, PREPARATION USED IN THE TREATMENT OF CORNS, CAMPHORATED OIL, LINIMENT AND CARMINATIVE FOR INTERNAL AND EXTERNAL USE, MILK OF MAGNESIA IN LIQUID AND TABLET FORMS, COUGH SYRUP, LINIMENT FOR EXTERNAL USE FOR ACHING MUSCLES, MINERAL OIL, AFTER-SHAVING LOTION, NOSE AND THROAT DROPS, PERFUME, TOOTH PASTE, WATER SOFTENER, LAUNDRY STARCH, AND FLY SPRAY.
Claims use since Jan. 30, 1942.

402,642. (CLASS 31. FILTERS AND REFRIGERATORS.) AMERICAN SEITZ FILTER CORPORATION, Paterson, N. J. Filed May 12, 1942. Serial No. 452,947.

SEITZ

FOR FILTER SHEETS FOR FILTERING APPARATUS FOR BEVERAGES AND FOR CLARIFICATION AND STERILIZATION OF INDUSTRIAL LIQUIDS.
Claims use since Sept. 10, 1939.

402,643. (CLASS 48. MALT BEVERAGES AND LIQUORS.) DREWRYS LIMITED U. S. A., INC., South Bend, Ind. Filed May 16, 1942. Serial No. 453,051.

JEEP

FOR BEER, ALE, AND PACKAGES OF BOTTLED BEER AND ALE.
Claims use since Apr. 25, 1942.

402,644. (CLASS 39. CLOTHING.) KATZENBERG & RIVKIN, INC., Chicago, Ill. Filed May 25, 1942. Serial No. 453,243.

K&R Sandy Kay
EXCLUSIVE CREATION
★ TRADE MARK

FOR WOMEN'S SPORTS APPAREL—NAMELY, SLACK SUITS, SLACKS, SKIRTS, BLOUSES, HOUSE COATS, HOUSE DRESSES AND ROBES.
Claims use since May 8, 1942.

402,645. (CLASS 39. CLOTHING.) RAPHAEL CAMHI, South Norwalk, Conn. Filed May 28, 1942. Serial No 453,321.



FOR WOMEN'S AND CHILDREN'S SKIRTS.
Claims use since Apr. 17, 1942.

402,646. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SCHAPIRO & SONS, New York, N. Y. Filed May 28, 1942. Serial No. 453,342.

Schapiro's
TEMPLE BRAND

FOR MATZOS.
Claims use since Apr. 9, 1942.

402,647. (CLASS 39. CLOTHING.) PHILIP SHLANSKY & BRO. INC., New York, N. Y. Filed May 28, 1942. Serial No. 453,344.

"THE BUTT'N IN"

FOR WOMEN'S, MISSES' AND GIRLS' COATS.
Claims use since Apr. 9, 1942.

402,648. (CLASS 39. CLOTHING.) SAMUEL CHAPMAN INC., New York, N. Y. Filed June 16, 1942. Serial No. 453,691.



FOR LADIES' AND MISSES' WRAPS, COATS, SUITS, AND DRESSES.
Claims use since April 1942.

402,649. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BUFFETT & SON, Omaha, Nebr. Filed July 1, 1942. Serial No. 453,977.

THERE IS
Pleasure
IN THE FLAVOR

FOR COFFEE.
Claims use since June 4, 1942.

402,650. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE HUBINGER CO., Keokuk, Iowa. Filed July 17, 1942. Serial No. 454,291.

HI SWEET

FOR CORN SYRUP.
Claims use since June 15, 1942.

402,651. (CLASS 31. FILTERS AND REFRIGERATORS.) AMERICAN SEITZ FILTER CORPORATION, Paterson, N. J. Filed Aug. 8, 1942. Serial No. 454,791.

SEITZ

FOR FILTERING APPARATUS FOR BEVERAGES AND FOR CLARIFICATION AND STERILIZATION OF INDUSTRIAL LIQUIDS.
Claims use since Sept. 10, 1939.

402,652. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EARL ARONBERG, doing business as Ironited Vitamins Products, Chicago, Ill. Filed Aug. 8, 1942. Serial No. 454,792.

Ironited

FOR VITAMIN AND IRON TABLETS.
Claims use since June 1, 1942.

402,653. (CLASS 2. RECEPTACLES.) THE SEAMLESS RUBBER COMPANY, New Haven, Conn. Filed Aug. 22, 1942. Serial No. 455,054.

CUT-RAK

FOR DEVICES USED IN DISPENSING ADHESIVE TAPES OR PLASTERS.
Claims use since Apr. 10, 1942.

402,654. (CLASS 1. RAW OR PARTLY PREPARED MATERIALS.) JACQUES SEED COMPANY, Prescott, Wis. Filed Oct. 27, 1942. Serial No. 456,466.

"WEATHER PRUF"

FOR BLEND OF SEED CORN.
Claims use since October 1940.

402,655. (CLASS 3. BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) KATE MEYERS CO., New York, N. Y. Filed Feb. 1, 1943. Serial No. 458,271.

TERRY

FOR PORTFOLIOS AND POCKETBOOKS.
Claims use since April 1939.

402,656. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SARASOTA CELERY COMPANY, Sarasota, Fla. Filed Feb. 1, 1943. Serial No. 458,288.

SARA
BLUE

FOR CELERY.
Claims use since Apr. 7, 1942.

402,657. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) C. G. WOODS CHEMICAL CO., INC., Glendale, Calif. Filed Mar. 22, 1943. Serial No. 459,281.

GOPHER-SCENT

FOR POISON FOR GOPHERS AND RODENTS, BEING A SPECIALLY PREPARED, SUN-DRIED, SCENTED POISONED GRAIN.
Claims use since Apr. 1, 1920.

402,658. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MINER'S, INC., New York, N. Y. Filed Apr. 7, 1943. Serial No. 459,693.

MINER'S

FOR FACE POWDER, CAKE MAKE-UP, EYE SHADOW, ROUGE, CLEANSING CREAM, COLD CREAM, THEATRICAL LIP ROUGE, LIPSTICK, MASCARA, FOUNDATION CREAM, BLEMISH CREAM, THEATRICAL NOSE PUTTY, LIQUID MAKE-UP, LIQUID MAKE-UP FOR THE LEGS, DEODORANT PADS, THEATRICAL CLOWN WHITE, LIQUID ENAMEL, BLACK WAX, SPIRIT GUM, GREASE PAINT, AND AMATEUR MAKE-UP KIT INCORPORATING EYE SHADOW, THEATRICAL LIP ROUGE, MASCARA, THEATRICAL NOSE PUTTY, THEATRICAL CLOWN WHITE, BLACK WAX, AND GREASE PAINT.
Claims use since 1920.

402,659. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GENERAL DIE STAMPING TOOL COMPANY, New York, N. Y. Filed Apr. 19, 1943. Serial No. 459,992.

Precision Collets and Drawbars

FOR COLLETS AND DRAWBARS.
Claims use since Apr. 2, 1942.

402,660. (CLASS 39. CLOTHING.) HUDSON HOSIERY COMPANY, Charlotte, N. C Filed Apr. 21, 1943. Serial No. 460,052.

OAKHURST

FOR HOSIERY.
Claims use since Jan. 1, 1941.

402,661. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ELISABETH RAE LAMONT, doing business as Elisabeth Rae, New York and Mount Vernon, N. Y. Filed Apr. 26, 1943. Serial No. 460,187.

Elisabeth Rae

ER

FOR COSMETIC PREPARATION FOR THE LEGS TO SIMULATE STOCKINGS, SKIN CREAM CLEANSER, CITRUS CREAM REMOVER, FACE PACKS, DRY SKIN FOUNDATION, FACE CREAM, MAKE-UP FOUNDATION, FACE POWDER, BODY POWDER, EYE SHADOW, EYE LASH AND BROW PREPARATION, ROUGE, LIPSTICK, SUN TAN LOTION, SKIN LOTION, FACE BLEACHES, HAIR SHAMPOO, HAIR-WAVING LOTIONS, HAIR TONIC, HAIR DYE, HAND LOTIONS AND CREAMS, HAIR LOTIONS, SACHETS, FOAM BATH, COLOGNE, BATH SALTS, PERFUMED TOILET WATER, BATH OIL, NAIL CREAM PREPARATION, DEODORANT, FOOT PREPARATIONS—NAMELY, FOOT CREAM, LOTION AND FOOT PACK, DEPILATORIES.

Claims use since October 1940.

402,662. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) BEAUTY AIDS, INC., Chicago, Ill. Filed May 3, 1943. Serial No. 460,360.

ROTO

FOR HAIR REMOVERS, EACH CONSISTING OF A PADDLE-LIKE DEVICE INCLUDING A SLEEVE, COATED WITH FINE ABRASIVE MATERIAL, ON THE HEAD OF THE PADDLE FOR REMOVING HAIR BY MASSAGING THE SKIN WITH SUCH DEVICE.

Claims use since June 14, 1942.

402,663. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALKEN-MURRAY CORPORATION, New York, N.Y. Filed May 12, 1943. Serial No. 460,561.

ALKEN CERTIFIED SOOTOFF

FOR CHEMICAL MIXTURE FOR LOWERING THE BURNING TEMPERATURE OF SOOT DEPOSITS.

Claims use since 1934.

402,664. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) AVON PRODUCTS, INC., New York, N. Y. Filed May 14, 1943. Serial No. 460,608.

AVON

FOR PERFUME, TOILET WATER, POWDER AND ROUGE COMPACTS, LIPSTICK, ROUGE, FACE POWDER, TALCUM POWDER, DUSTING POWDER, COLOGNE, SACHET, FACE AND SKIN CREAMS INCLUDING CLEANSING CREAM, VANISHING CREAM, COLD CREAM, SPECIAL FORMULA CREAM, COMPLEXION CREAM, STYPTIC CREAM, HAND CREAM, SKIN LOTIONS, BATH SALTS, BATH OIL, DEODORANTS, DEPILATORY CREAM, BLACKHEAD REMOVER IN PASTE OR LIQUID FORM, WITCH HAZEL EXTRACT AND CREAM, ASTRINGENTS, SKIN FRESHENER AND TONIC, ANTISEPTIC SOLUTION, AFTER SHAVING LOTION, SHAMPOO PREPARATIONS, HAIR LOTION, HAIR DRESS, HAIR OIL, BRILLIANTINE, BAY RUM, WAVE SET PREPARATION, NAIL POLISH, NAIL POLISH REMOVER, NAIL WHITE PENCIL, CUTICLE OIL AND SOFTENER, NAIL AND CUTICLE CREAM, TOOTH POWDER, TOOTHPASTE, DENTAL CREAM, MASCARA, EYEBROW PENCIL, EYELASH CREAM.

Claims use since September 1929.

402,665. (CLASS 48. MALT BEVERAGES AND LIQUORS.) LIEBMANN BREWERIES, INC., Brooklyn, N. Y. Filed May 19, 1943. Serial No. 460,740.

McSORLEY'S

FOR ALE.

Claims use since Sept. 25, 1935.

TRADE-MARK REGISTRATIONS RENEWED

23,886. **"FAVORITE" AND DRAWING.** COAL, GAS, WOOD AND OIL COOKING AND HEATING STOVES AND RANGES. Registered November 28, 1893. THE FAVORITE STOVE AND RANGE COMPANY. Re-renewed November 28, 1943, to Favorite Stove Company, Piqua, Ohio, a corporation of Ohio, successor.

169,179. **REPRESENTATION OF AN ARROW.** RUBBER VEHICLE TIRES AND TUBES. Registered June 12, 1923. HOOD RUBBER COMPANY, Watertown, Mass. Renewed June 12, 1943, to The B. F. Goodrich Company, New York, N. Y., a corporation of New York, assignee by mesne assignments.

169,287. **"C. O. ÖBERG & CO." AND DRAWING.** FILES AND RASPS. Registered June 12, 1923. C. O. OBERG & CO:S AKTIEBOLAG, Eskilstuna, Sweden, a corporation of Sweden. Renewed June 12, 1943.

169,364. **REPRESENTATION OF A MAN AND LION.** CRAFT PAPER. Registered June 12, 1923. AKTIEBOLAGET MÖLNBACKA-TRYSIL, Forshaga, Sweden, a corporation of Sweden. Renewed June 12, 1943.

169,483. **"HOOD" AND DRAWING.** BATTERY BOXES, BATTERY JARS, AND OTHER BATTERY PARTS MADE OF RUBBER. Registered June 19, 1923. HOOD RUBBER COMPANY, Watertown, Mass. Renewed June 19, 1943, to The B. F. Goodrich Company, New York, N. Y., a corporation of New York, assignee by mesne assignments.

169,669. **"SICHEL" AND DRAWING.** COTTON GOODS AND LINENS IN THE PIECE. Registered June 26, 1923. FERDINAND SICHEL, New York, N. Y. Renewed June 26, 1943.

170,193. **FIX-A-GLOSS.** HAIR DRESSING AND DANDRUFF REMEDY. Registered July 10, 1923. ALFRED J. KRANK, St. Paul, Minn. Renewed July 10, 1943, to Consolidated Royal Chemical Corporation, Chicago, Ill., a corporation of Delaware, assignee by mesne assignments.

170,278. **CHRISTMAS-EVE.** PERFUME, TOILET WATER, ROUGES, FACE POWDER, TALCUM POWDER, BRILLIANTINE, SACHET POWDER, AND DENTIFRICES. Registered July 10, 1923. E. DALTROFF & CIE. doing business as Parfumerie Caron, Paris, France, assignor to Caron Corporation. Renewed July 10, 1943, to Caron Corporation, New York, N. Y., a corporation of New York, assignee.

170,629. **RELLIM.** SOLID AND PNEUMATIC RUBBER AND FABRIC TIRES. Registered July 17, 1923. THE MILLER RUBBER COMPANY, Akron, Ohio. Renewed July 17, 1943, to The B. F. Goodrich Company, New York, N. Y., a corporation of New York, assignee by mesne assignments.

170,645. **T. B. C.** ART NEEDLEWORK—VIZ, EMBROIDERY PATTERNS, NOVELTY CROCHET AND FEATHEREDGE BRAIDS, AND FRINGES. Registered July 17, 1923. T. BUETTNER & CO., Chicago, Ill., a corporation of Illinois. Renewed July 17, 1943.

170,663. **O-SUCH-A.** BISCUITS. Registered July 17, 1923. BISHOP & COMPANY, Los Angeles, Calif. Renewed July 17, 1943, to National Biscuit Company, New York, N. Y., a corporation of New Jersey, assignee.

170,745. **PINK BLUSH.** VANISHING AND MASSAGE CREAM. Registered July 24, 1923. A. J. KRANK MFG. CO., St. Paul, Minn. Renewed July 24, 1943, to Consolidated Royal Chemical Corporation, Chicago, Ill., a corporation of Delaware, assignee by mesne assignments.

170,759. **LASTIC.** RUBBER BOOTS AND SHOES, RUBBER OVERSHOES, AND RUBBER-SOLED CANVAS SHOES. Registered July 24, 1923. HOOD RUBBER COMPANY, Watertown, Mass. Renewed July 24, 1943, to The B. F. Goodrich Company, New York, N. Y., a corporation of New York, assignee by mesne assignments.

171,100. **CHRISTMAS NIGHT.** PERFUME, TOILET WATER, ROUGES, FACE POWDER, TALCUM POWDER, BRILLIANTINE, SACHET POWDER, AND DENTIFRICES. Registered July 31, 1923. E. DALTROFF & CIE, doing business as Parfumerie Caron, Paris, France, assignor to Caron Corporation. Renewed July 31, 1943, to Caron Corporation, New York, N. Y., a corporation of New York, assignee.

171,265. **PRIMROSE WHEAT.** BREAKFAST CEREAL FOOD. Registered July 31, 1923. ALBERS BROS. MILLING CO., Seattle, Wash. Renewed July 31, 1943, to Albers Milling Company, Milwaukee, Wis., a corporation of Oregon, by change of name.

171,320. **THIS AND THAT IN CHOCOLATES.** CANDY. Registered August 7, 1923. BUNTE BROTHERS, Chicago, Ill., a corporation of Illinois. Renewed August 7, 1943.

171,370. **"NIGHTINGALE" AND DRAWING.** CANDY. Registered August 7, 1923. C. EDWIN GHEENS. Renewed August 7, 1943, to Bradas & Gheens, Incorporated, Louisville, Ky., a corporation of Kentucky, successor.

171,457. **ISLE O'DREAMS.** CANDY. Registered August 7, 1923. BUNTE BROTHERS, Chicago, Ill., a corporation of Illinois. Renewed August 7, 1943.

171,461. **PARKDALE.** COTTON, BRAIDED COTTON, AND CABLED ROPE; SASH, WRAPPING, BRAIDED, AND CABLED CORD; SEINE, POLISHED, AND WRAPPING TWINE; TWISTER BANDS, TWISTED COTTON ROPING, AND NAUTICAL LOG LINES. Registered August 7, 1923. WM. E. HOOPER & SONS CO., Woodberry, Baltimore, Md., a corporation of Maryland. Renewed August 7, 1943.

171,482. **T. B. C.** PURE LINEN IN THE PIECE AND LINEN TABLE COVERS AND NAPKINS. Registered August 7, 1923. T. BUETTNER & CO., Chicago, Ill., a corporation of Illinois. Renewed August 7, 1943.

172,002. **SILVERTONE.** SOUND BOXES FOR PHONOGRAPHS. Registered August 21, 1923. SEARS, ROEBUCK AND COMPANY, New York, N. Y., and Chicago, Ill. Renewed August 21, 1943, to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York.

172,238. **"MY BABY'S."** TALCUM POWDER. Registered August 28, 1923. SEARS, ROEBUCK AND CO., Chicago, Ill., a corporation of New York. Renewed August 28, 1943.

172,247. **NITROSE.** READY-MIXED OR PASTE PAINT. Registered August 28, 1923. THE NITROSE CO., INC., Peoria, Ill., a corporation of Illinois. Renewed August 28, 1943.

172,285. **PARKDALE.** WOVEN BELTING, HOSE, FIRE HOSE, FILTER TUBING, VALVE PACKING, BRAIDED PACKING, WOVEN PACKING AND BRAKE BANDING ALL MADE OF COTTON; ASBESTOS BRAKE BANDING, AND COTTON STITCHED BELTING FOR CERTAIN NAMED USES. Registered August 28, 1923. WM. E. HOOPER & SONS CO., Woodberry, Md., a corporation of Maryland. Renewed August 28, 1943.

172,411. **"HERCULES" AND DRAWING.** RECEPTACLES FOR CARBOYS. Registered August 28, 1923. HERCULES CARBOY BOX CO., Newark, N. J., a corporation of New Jersey. Renewed August 28, 1943.

172,470. **DOWN EAST.** BAKERY PRODUCTS SPECIFICALLY COOKIES AND CONFECTIONERY. Registered August 28, 1923. T. A. HUSTON & Co., Portland, Maine. Renewed August 28, 1943, to National Biscuit Company, New York, N. Y., a corporation of New Jersey, assignee by mesne assignments.

172,474. **"SLIM JIM" AND DRAWING.** PRETZELS. Registered August 28, 1923. YORK PRETZEL BAKERY, York, Pa. Renewed August 28, 1943, to National Biscuit Company, New York, N. Y., a corporation of New Jersey, assignee.

172,475. **SLIM JIM.** PRETZELS. Registered August 28, 1923. YORK PRETZEL BAKERY, York, Pa. Renewed August 28, 1943, to National Biscuit Company, New York, N. Y., a corporation of New Jersey, assignee.

172,534. **"E-Z" AND DRAWING.** CHEESE. Registered September 4, 1923. C. E. ZUERCHER & Co., Chicago, Ill., a firm. Renewed September 4, 1943.

172,679. **VICTORY.** REPEATING CAP PISTOLS AND CANARY SONGSTERS. Registered September 11, 1923. VICTORY SPARKLER & SPECIALTY CO. Renewed September 11, 1943, to Victory Fireworks & Specialty Company, Elkton, Md., a corporation of Maryland, assignee.

173,119. **CLARION.** BOOK PAPER IN SHEETS AND ROLLS, ALKALIPROOF PAPER, AND CERTAIN OTHER NAMED PAPERS. Registered September 18, 1923. NEW YORK & PENNSYLVANIA COMPANY, Castanea Township, Clinton County, Pa., and New York, N. Y. Renewed September 18, 1943, to New York & Pennsylvania Company, Inc., New York, N. Y., a corporation of Delaware, assignee.

173,121. **"GAIETY" AND DRAWING.** BISCUIT. Registered September 18, 1923. NATIONAL BISCUIT COMPANY, Jersey City, N. J., and New York, N. Y. Renewed September 18, 1943, to National Biscuit Company, New York, N. Y., a corporation of New Jersey

173,433. **"KNOX-ALL" AND DRAWING.** SHOVELS, SPADES, SCOOPS, POSTHOLE DIGGERS, AND WOODEN HANDLES. Registered September 25, 1923. BALDWIN TOOL WORKS. Renewed September 25, 1943, to Ames Baldwin Wyoming Co., Parkersburg, W. Va., a corporation of Delaware, assignee by mesne assignments.

173,489. **REPRESENTATION OF A YELLOW STRIPE.** CHEWING GUM. Registered September 25, 1923. AMERICAN CHICLE COMPANY, Long Island City, N. Y., a corporation of New Jersey. Renewed September 25, 1943.

173,762. **"TROPICAL BRAND" AND DRAWING.** PINEAPPLE GLACÉ, GLACÉ ASSORTED FRUITS AND CRYSTALLIZED GINGER. Registered October 2, 1923. CAUSSE MANUFACTURING & IMPORTING CO., Bound Brook, N. J., and New York, N. Y. Renewed October 2, 1943, to Causse Manufacturing & Importing Co., Bound Brook and Jersey City, N. J., a corporation of New Jersey.

173,884. **VEGETOL.** TOILET SOAP. Registered October 2, 1923. FLASH CHEMICAL COMPANY, Cambridge, Mass., a corporation of Maine. Renewed October 2, 1943.

174,026. **HONEYDEW.** PILE FABRIC IN THE PIECE, SUCH FABRIC BEING COMPOSED ENTIRELY OF WOOL OR WOOL MIXED WITH MOHAIR OR CAMEL'S HAIR EITHER ALONE OR COMBINED. Registered October 2, 1923. S. STROOCK & COMPANY, INC., New York, N. Y., a corporation of New York. Renewed October 2, 1943.

174,203. **ROYELLA.** WOOLEN PIECE GOODS. Registered October 9, 1923. THE FARNSWORTH MILLS INC., Central Village, Conn. Renewed October 9, 1943, to The Farnsworth Mills, Inc., New York, N. Y., a corporation of Connecticut.

174,625. **SANTARA.** DRIED FRUITS AND CANNED FRUITS AND VEGETABLES. Registered October 23, 1923. O. A. HARLAN & Co. Renewed October 23, 1943, to California Prune and Apricot Growers Association, San Jose, Calif., a corporation of California, assignee.

174,900. **EXPOSITION.** PRINTING INKS. Registered October 23, 1923. LEWIS ROBERTS, INC., Newark, N. J., a corporation of New York. Renewed October 23, 1943.

175,009. **EMERALD GEMS.** CANDY. Registered October 30, 1923. HAWLEY & HOOPS, New York, N. Y., a copartnership. Renewed October 30, 1943.

175,077. **"GROPPER KNIT" AND DRAWING.** DRESS GOODS, AND ALL KNIT FABRICS—NAMELY, FABRICS MADE OF WOOL, SILK, COTTON, AND MIXTURES OF THE SAME. Registered October 30, 1923. GROPPER KNITTING MILLS, INC. Renewed October 30, 1943, to Harry Gropper, New York, N. Y., assignee by mesne assignments.

175,771. **"APRL" AND DRAWING.** BOOKLETS OR PAMPHLETS. Registered November 13, 1923. THE AMERICAN RADIO RELAY LEAGUE, INC., Hartford, Conn. Renewed November 13, 1943, to The American Radio Relay League, Inc., West Hartford, Conn., a corporation of Connecticut.

176,070. **PLIBRICO.** FIRE-RESISTING CEMENT FOR FORMING FURNACE LININGS. Registered November 13, 1923. JOINTLESS FIRE-BRICK CO. Renewed November 13, 1943, to Plibrico Jointless Firebrick Company, Chicago, Ill., a corporation of Illinois, by change of name.

176,079. **CARUM.** LUBRICATING OILS. Registered November 13, 1923. STANDARD OIL COMPANY (INCORPORATED IN NEW JERSEY), Bayonne, N. J. Renewed November 13, 1943, to Standard Oil Company of New Jersey, Wilmington, Del., a corporation of Delaware, assignee.

176,179. **"PERFEXUN" AND DRAWING.** HORSE AND MULE FEED. Registered November 20, 1923. JOSEY-MILLER COMPANY. Renewed November 20, 1943, to Josey-Miller Company, Inc., Beaumont, Tex., a corporation of Texas, assignee.

176,267. **"SMILAX" AND DRAWING.** CERTAIN NAMED FOOD PRODUCTS. Registered November 20, 1923. LIBBY, MCNEILL & LIBBY, Chicago, Ill., a corporation of Maine. Renewed November 20, 1943.

176,399. **DAVEYLAC.** WOOD PRESERVING PAINTS AND SHELLAC. Registered November 27, 1923. THE DAVEY TREE EXPERT COMPANY, Kent, Ohio, a corporation of Ohio. Renewed November 27, 1943.

176,407. **"KAYSO" AND DRAWING.** COMPOUND IN POWDER FORM WHICH IN USE IS ADDED TO A SPRAY LIQUID AND WHEN DISSOLVED THEREIN GIVES THE LIQUID ADHESIVE QUALITIES WHICH IT WOULD NOT OTHERWISE HAVE. Registered November 27, 1923. CALIFORNIA CENTRAL CREAMERIES. Renewed November 27, 1943, to Golden State Company, Ltd., San Francisco, Calif., a corporation of Delaware, assignee.

176,503. **"LIBBY" AND DRAWING.** CERTAIN NAMED FOOD PRODUCTS. Registered November 27, 1923. LIBBY, MCNEILL & LIBBY, Chicago, Ill., a corporation of Maine. Renewed November 27, 1943.

176,505. **"ANGEL FOOD" AND DRAWING.** WHEAT FLOUR. Registered November 27, 1923. TRENTON MILLING COMPANY, Trenton, Ill., a corporation of Illinois. Renewed November 27, 1943.

176,546. **GREEN LABEL.** READY-MIXED PAINTS. Registered November 27, 1923. REGULATION PAINT CO., Louisville, Ky., a corporation of Kentucky. Renewed November 27, 1943.

176,548. **CAMP.** READY-MIXED PAINTS. Registered November 27, 1923. REGULATION PAINT CO., Louisville, Ky., a corporation of Kentucky. Renewed November 27, 1943.

176,549. **PORTRAIT OF JOHN DAVEY.** WOOD-PRESERVING PAINTS AND SHELLAC. Registered November 27, 1923. THE DAVEY TREE EXPERT COMPANY, Kent, Ohio, a corporation of Ohio. Renewed November 27, 1943.

176,653. **JEWEL.** AX, ADZ, PICK, SLEDGE, MAUL, HAMMER AND HATCHET, AND RAILROAD AND MINING TOOL HANDLES. Registered November 27, 1923. HARTWELL BROTHERS, Memphis, Tenn., a corporation of Illinois. Renewed November 27, 1943.

176,655. **BUCKEYE.** AX, ADZ, PICK, SLEDGE, MAUL, HAMMER, AND HATCHET, AND RAILROAD AND MINING TOOL HANDLES. Registered November 27, 1923. HARTWELL BROTHERS, Memphis, Tenn., a corporation of Illinois. Renewed November 27, 1943.

176,657. **OLD HICKORY.** AX, ADZ, PICK, SLEDGE, MAUL, HAMMER, AND HATCHET, AND RAILROAD AND MINING TOOL HANDLES. Registered November 27, 1923. HARTWELL BROTHERS, Memphis, Tenn., a corporation of Illinois. Renewed November 27, 1943.

176,663. **GEM.** AX, ADZ, PICK, SLEDGE, MAUL, HAMMER, AND HATCHET, AND RAILROAD AND MINING TOOL HANDLES. Registered November 27, 1923. HARTWELL BROTHERS, Memphis, Tenn., a corporation of Illinois. Renewed November 27, 1943.

176,674. **HUMPHREY.** ELEVATORS. Registered November 27, 1923. HUMPHREY ELEVATOR CO., Faribault, Minn., a corporation of Minnesota. Renewed November 27, 1943.

176,675. **HARTWELL.** AX, ADZ, PICK, SLEDGE, MAUL, HAMMER AND HATCHET, AND RAILROAD AND MINING TOOL HANDLES. Registered November 27, 1923. HARTWELL BROTHERS, Memphis, Tenn., a corporation of Illinois. Renewed November 27, 1943.

176,676. **THE CHIEFTAIN.** AX, ADZ, PICK, SLEDGE, MAUL, HAMMER AND HATCHET, AND RAILROAD AND MINING TOOL HANDLES. Registered November 27, 1923. HARTWELL BROTHERS, Memphis, Tenn., a corporation of Illinois. Renewed November 27, 1943.

176,677. **NABOB.** AX, ADZ, PICK, SLEDGE, MAUL, HAMMER AND HATCHET, AND RAILROAD AND MINING TOOL HANDLES. Registered November 27, 1923. HARTWELL BROTHERS, Memphis, Tenn., a corporation of Illinois. Renewed November 27, 1943.

176,678. **HONEST ABE.** AX, ADZ, PICK, SLEDGE, MAUL, HAMMER AND HATCHET, AND RAILROAD AND MINING TOOL HANDLES. Registered November 27, 1923. HARTWELL BROTHERS, Memphis, Tenn., a corporation of Illinois. Renewed November 27, 1943.

176,679. **MELT AWAY.** COOKIES. Registered November 27, 1923. BISHOP & COMPANY, Los Angeles, Calif. Renewed November 27, 1943, to National Biscuit Company, New York, N. Y., a corporation of New Jersey, assignee.

176,698. **POPPY.** COOKIES. Registered November 27, 1923. BISHOP & COMPANY, Los Angeles, Calif. Renewed November 27, 1943, to National Biscuit Company, New York, N. Y., a corporation of New Jersey, assignee.

176,834. **WANDERER.** HATS FOR MEN, WOMEN, AND CHILDREN. Registered December 4, 1923. DUNLAP & Co., New York, N. Y. Renewed December 4, 1943, to Hat Corporation of America, Norwalk, Conn., a corporation of Delaware, assignee by mesne assignments.

176,852. **SUPER-FOOD.** BREAD, ROLLS, BISCUITS, CAKES, AND CEREAL BREAKFAST FOODS. Registered December 4, 1923. WARD BAKING COMPANY, New York, N. Y., a corporation of New York. Renewed December 4, 1943.

177,022. **UBIKO.** STOCK AND POULTRY FOODS. Registered December 11, 1923. THE UBIKO MILLING COMPANY, Cincinnati, Ohio. Renewed December 11, 1943, to The Ubiko Milling Company, St. Bernard, Ohio, a corporation of Ohio.

177,049. **"ALBERTA" AND DRAWING.** PURGATIVE TEA IN DRY FORM. Registered December 11, 1923. ALBERT W. NIEDZIELSKI, Chicago, Ill. Renewed December 11, 1943.

177,087. **SEALITE.** CHEMICAL LIQUID FOR CERTAIN NAMED PURPOSES. Registered December 11, 1923. STANDARD OIL COMPANY (INCORPORATED IN NEW JERSEY), Bayonne, N. J., assignor to Standard Development Company. Renewed December 11, 1943, to Standard Oil Company of New Jersey, Wilmington, Del., a corporation of Delaware, assignee by mesne assignments.

177,112. **ZANOL.** CERTAIN NAMED FOOD PRODUCTS AND INGREDIENTS OF FOODS. Registered December 11, 1923. THE MILLS BROTHERS COMPANY, doing business as The American Products Company. Renewed December 11, 1943, to The Zanol Products Company, Cincinnati, Ohio, a corporation of Ohio, assignee by mesne assignments.

177,138. **WHITE LILY.** BUTTER, OLEOMARGARINE, EGGS IN THE SHELL, LARD, AND FRESH, COOKED, CURED, DRIED, SALTED AND SMOKED MEATS AND SAUSAGE. Registered December 11, 1923. DUNLEVY PACKING COMPANY, Pittsburgh, Pa., assignor to Dunlevy-Franklin Company. Renewed December 11, 1943, to Hygrade Food Products Corporation, New York, N. Y., a corporation of New York, assignee by mesne assignments.

177,143. **"WHITE LILY" AND DRAWING.** BUTTER, OLEOMARGARINE, EGGS IN THE SHELL, LARD, AND FRESH, COOKED, CURED, DRIED, SALTED, SMOKED, AND PRESERVED BOVINE AND SWINISH MEATS, AND MEAT PRODUCTS. Registered December 11, 1923. DUNLEVY PACKING COMPANY, Pittsburgh, Pa., assignor to Dunlevy-Franklin Company. Renewed December 11, 1943, to Hygrade Food Products Corporation, New York, N. Y., a corporation of New York, assignee by mesne assignments.

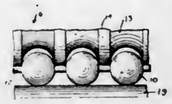
177,152. **"BLACKBOARD" AND DRAWING.** SILK AND COTTON RIBBONS IN THE PIECE. Registered December 11, 1923. OSCAR LION, New York, N. Y. Renewed December 11, 1943.

177,158. **POPLAR.** SAUSAGE AND CERTAIN NAMED SAUSAGE, BREAKFAST BACON, PURE LARD WITH BEEF FAT ADDED, AND LARD COMPOUND MADE FROM PURE LARD AND PURE BEEF FAT. Registered December 11, 1923. THE E. KAHN'S SONS COMPANY, Cincinnati, Ohio, a corporation of Ohio. Renewed December 11, 1943.

177,175. **IDECO.** CERTAIN NAMED MEDICINAL AND TOILET PREPARATIONS. Registered December 11, 1923. INDEPENDENT DRUG COMPANY, INC., Jacksonville, Fla., a corporation of Florida. Renewed December 11, 1943.

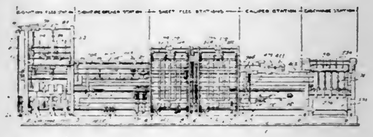
177,189. **REPRESENTATION OF MOON AND STARS.** CERTAIN NAMED OILS FOR COOKING AND FOOD PURPOSES, AND OLEOMARGARINE AND COOKING FATS. Registered December 11, 1923. THE PROCTER & GAMBLE COMPANY, Cincinnati, Ohio, a corporation of Ohio. Renewed December 11, 1943.

22,358
METHOD OF PRODUCING BEADS
Leonard G. Arpin, Montclair, N. J.
Original No. 2,231,556, dated February 11, 1941, Serial No. 350,550, August 3, 1940. Application for reissue April 16, 1941, Serial No. 388,875
5 Claims. (Cl. 18—47.5)



5. A method of making beads which comprises molding an elongated member having a series of spaced bead holes formed transversely thereof by said mold and applying said elongated member to a grinder for separating said elongated member into individual beads, each of said beads having one of said bead holes formed diametrically therethrough.

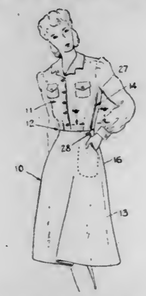
22,359
SIGNATURE HANDLING MACHINE
Martin Christensen, Milwaukee, Wis.
Original No. 2,253,556, dated August 26, 1941, Serial No. 291,662, August 24, 1939. Application for reissue August 24, 1942, Serial No. 455,962
80 Claims. (Cl. 270—55)



1. A signature handling machine comprising a conveyor, means for automatically performing all operations essential to the feeding of a closed signature onto said conveyor, opening the signature on said conveyor, insetting a sheet into the opening formed in the signature, calipering and discharging the signature in a continuous automatic cycle of operation, said conveyor means adapted to receive said closed signature and advance it through said machine, a plurality of mechanisms for performing the several operations on the signature, and means for controlling the synchronized advance of the signature conveyor and the operation of said mechanisms.

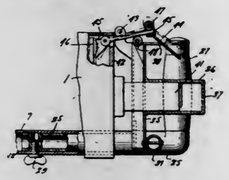
22,360
GARMENT CONSTRUCTION
Rudolf Hirschfeld, New York, N. Y.
Original No. 2,309,955, dated February 2, 1943, Serial No. 447,509, June 18, 1942. Application for reissue April 13 1943, Serial No. 482,948
3 Claims. (Cl. 2—74)

1. In a unitary garment having a waist portion narrower than the bust and the hip portions, a placket opening in the waist band region extending both above and below the waist of the garment and a seal for said opening comprising a pocket the edges of the mouth of which are secured respectively to the opposed edges of said opening, the bottom edge of which lies substantially below the lower end of said placket opening, and which extends upwardly at least as far as, substantially, the top of said placket opening and is fastened to the garment at least as high up on the garment as, substantially, the top



of said placket opening, said pocket thus defining an expansible interior pleat which closes said placket opening but which nevertheless allows the waistband portion to expand during the passage of the garment over the bust or hips of the wearer when the garment is put on or taken off.

22,361
ADAPTER FOR MOUNTING MACHINE GUNS
Frank M. Salisbury, Kenmore, N. Y., assignor to Bell Aircraft Corp., Buffalo, N. Y., a corporation of New York
Original No. 2,261,526, dated November 4, 1941, Serial No. 185,974, January 20, 1938. Application for reissue February 19, 1942, Serial No. 431,606
9 Claims. (Cl. 89—37)



1. A supporting structure for machine guns having a buffer extension, comprising a cradle in which the machine gun is adapted to be mounted for forward and rearward movement, the cradle comprising a pair of parallel hollow tubular members, shock dampeners carried by the forward ends of each tube member and adapted to be operatively connected to the machine gun whereby the recoil of the gun during firing will be absorbed, a pair of operating handles removably secured to the rearward ends of the hollow tubular members, a transversely extending tubular member connecting said handles, a back plate attached to the transversely extending tubular member and a guard cooperating with the gun buffer extension provided in the back plate.

PLANT PATENTS

GRANTED AUGUST 3, 1943

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

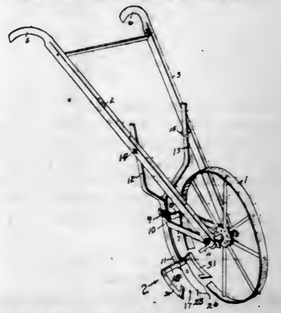
597
AFRICAN VIOLET
Peter Ruggeri, San Francisco, Calif.
Application June 29, 1942, Serial No. 448,915
1 Claim. (Cl. 47—60)

A variety of African violet plant substantially as shown and described, characterized particularly by its white flower.

PATENTS

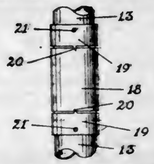
GRANTED AUGUST 3, 1943

2,325,579
GROUND WORKING TOOL FOR AGRICULTURAL IMPLEMENTS
Perle Jay Anderson, Portland, N. Y.
Application August 28, 1940, Serial No. 354,546
5 Claims. (Cl. 97—201)



1. In an agricultural soil working tool, a transverse head comprising side blade supports and a middle blade support; forwardly downwardly inclined elongated side blades and a middle blade dependingly secured to the side and middle blade supports respectively; the side blade supports being inclined forwardly in the direction of motion of the tool when in use and the side blades having forward longitudinally concave faces inclined transversely rearwardly, whereby to elevate longitudinally of the side blades the soil through which they are propelled and to deflect and tumble it with a mold board turning action; and means to attach the tool to an implement to support it in the position described herein.

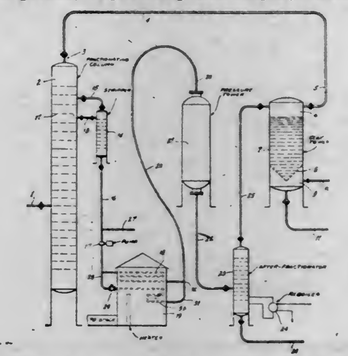
2,325,580
PIPE LOCK AND THE LIKE
Laurie Clarke Badgley, Springfield, Ill.
Application September 11, 1941, Serial No. 410,451
5 Claims. (Cl. 285—146)



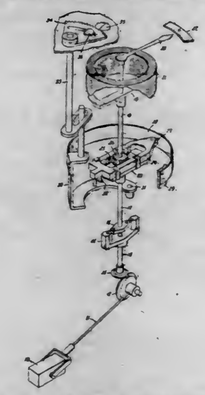
5. A pipe lock comprising a ring adapted to fit over a pipe, said ring having a sharpened tooth extending therefrom longitudinally with respect to the axis of the ring and being adapted to being forcibly driven into a member forming a shoulder on said pipe, and releasable means for positively securing said ring to said pipe.

2,325,581
METHOD FOR TREATING GASOLINE
John J. Allinson, John W. Poole, and Francis R. Grant, El Dorado, Ark., assignors to Lion Oil Refining Company, El Dorado, Ark., a corporation of Delaware
Application April 4, 1940, Serial No. 327,790
9 Claims. (Cl. 196—96)

1. The method of treating cracked gasoline which comprises dividing the raw cracked gasoline into a first fraction of relatively high volatility and a second fraction of relatively low volatility, clay-treating said second fraction in liquid phase, vaporizing the unpolymerized portion of said second fraction, combining the resulting vapors with the vapors of said first fraction, and clay-treating said combined fractions in the vapor phase.

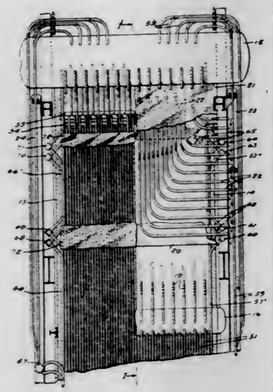


2,325,582
INSTRUMENT DEFLECTION MODIFIER
Henry A. Andersen, Swampscott, Mass., assignor to General Electric Company, a corporation of New York
Application July 11, 1941, Serial No. 401,979
5 Claims. (Cl. 73—317)



2. A variable ratio transmission comprising two axially aligned shafts, a member rotated by one shaft and radially movable with respect thereto, a driving connection between said member and other shaft effective to transmit rotary motion between said shafts and also to rotate the other shaft with variable transmission ratio by radial movement of said member, a stationary circular guide for said member for determining its radial movement as the one shaft is rotated, and means for varying the shape of said guide to vary the transmission ratio between said shafts.

2,325,583
VAPOR GENERATOR
Nicholas C. Artsay, Valhalla, N. Y., assignor to Foster Wheeler Corporation, New York, N. Y., a corporation of New York
Application May 2, 1939, Serial No. 271,292
14 Claims. (Cl. 122—235)



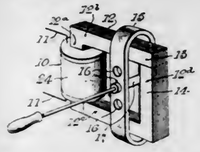
1. A vapor generator comprising a setting, a furnace, a drum in the upper part of the setting, vapor generating tubes in the setting and connected in the generator circulatory system with the drum, means providing a chamber in the setting below the drum and outside the path of the gases produced in the furnace in their flow through the setting, downcomers connected to the bottom portion of the drum and along a substantial portion of the length thereof and disposed in said chamber, and a manifold header outside the setting, the downcomers extending from said chamber through the wall of the setting and connecting with the manifold header at one end portion thereof, the other end portion of the manifold header being connected with the lower portion of the circulating system of the generator.

2,325,584
METHOD OF MAKING COATED LAMINATED PAPER
Philip S. Barnhart, Westfield, Mass., assignor to Westfield River Paper Company, Inc., Russell, Mass., a corporation of Massachusetts
Original application February 1, 1937, Serial No. 123,334. Divided and this application February 2, 1940. Serial No. 316,909
4 Claims. (Cl. 154—40)



2. A method of making a substantially transparent coated laminated product, comprising uniting sheets of glassine paper with a binder comprising at least 40% wax which binder is fused and rendered effective by heat at an elevated temperature, thereafter applying an outer coating of thermoplastic composition containing a volatile solvent to the laminated paper, and then drying the coated paper at a temperature lower than that which previously fused the binder and which will cause no separation of the laminated sheets of paper.

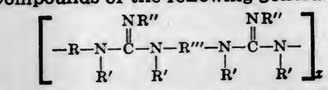
2,325,585
ELECTRICAL HEATING DEVICE
Lawrence F. Black, United States Army, and Clarence H. Mellor, United States Army, Denver, Colo.
Application September 25, 1942, Serial No. 459,617
13 Claims. (Cl. 219—13)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. An electrical heating device comprising a closed magnetic core, a primary winding surrounding a portion of said core, and a closed secondary winding entirely encircling said core, the axis of said secondary winding being substantially at right angles to the axis of said primary winding and lying in the medial plane of the core of said closed magnetic core.

2,325,586
POLYMERIC GUANIDINES AND PROCESS FOR PREPARING THE SAME
Elmer K. Bolton and Donald D. Coffman, Wilmington, and Lucius Gilman, Arden, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 21, 1940, Serial No. 325,232
15 Claims. (Cl. 260—2)

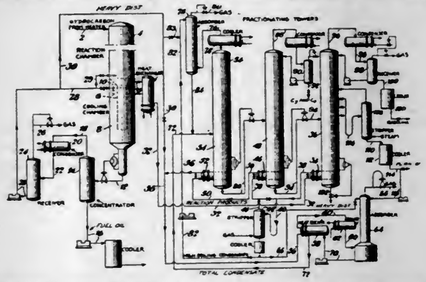
1. Compounds of the following general formula



wherein R and R''' are divalent hydrocarbon radicals comprising at least four carbon atoms in a straight chain separating the nitrogen atoms, and R''' may differ from R, R' is a member of the group consisting of hydrogen, and aliphatic hydrocarbon radicals, R'' is a member of the group consisting of hydrogen and hydrocarbon radical, and x is an integer greater than 1, said compound yielding on hydrolysis carbon dioxide, a nitrogen-containing compound of the group consisting of diamines of the formulae NHR'—R—NHR', NHR'—R'''—NHR' and amino acids, and monoamines of the formula R''NH_2; and the acid salts of these compounds.

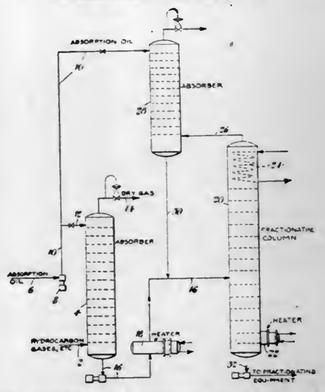
2,325,587
CONVERSION OF MINERAL OILS
David G. Brandt, Westfield, N. J., assignor to Cities Service Oil Company, New York, N. Y., a corporation of Pennsylvania
Application August 16, 1938, Serial No. 225,079
10 Claims. (Cl. 196—11)

8. In the conversion of hydrocarbons into antiknock gasoline in which a vapor mixture comprising the conversion products is produced in the conversion operation, said mixture containing the constituents of the desired gasoline product as well as higher and lower boiling readily condensable constituents and light hydrocarbon gases, the improvement which comprises subjecting the vapor mixture to cooling and condensing conditions to condense all of the readily condensable constituents, passing the resulting condensate including retained light hydrocarbon gases into the mid-portion of a high pressure fractionating tower in which the condensate is subjected to rectification under conditions adapted to produce a liquid bottoms product substantially free of C_2 and lower boiling hydrocarbon gases, cooling the vapors at the top of the fractionating tower to provide a low boiling reflux liquid for the top of the tower, passing the said reflux liquid counter-current to the vapors and gases in the upper portion of the tower in the absence of introduced high boiling constituents to aid in the rectification in the tower above the point of introduction of said condensate, passing a vapor



fraction discharged from the upper part of the tower and comprising C_2 and lower boiling hydrocarbon gases as well as some C_3 hydrocarbon into an absorber separate from said tower, passing the said vapor fraction in said absorber in intimate contact with an absorption medium adapted to recover substantially all of the C_3 hydrocarbon introduced into the absorber, and passing the rich absorption medium from said absorber into the mid-portion of said high pressure fractionating tower and subjecting it to rectification therein along with said condensate introduced into said tower.

2,325,588
RECOVERY AND FRACTIONATION OF LIGHT HYDROCARBONS
David G. Brandt, Westfield, N. J., assignor to Cities Service Oil Company, New York, N. Y., a corporation of Pennsylvania
Application December 27, 1940, Serial No. 371,929
4 Claims. (Cl. 196—8)



1. The process of recovering desirable hydrocarbon constituents from mixtures of hydrocarbons containing hydrocarbons normally within the gasoline range as well as higher boiling constituents and constituents of lower molecular weight such as C_3 and C_2, which comprises passing the hydrocarbon mixture to be treated containing said constituents into the lower portion of an absorption tower in which the gaseous constituents are brought in intimate contact with an absorbing medium which is introduced into the upper portion of the tower, effecting the intimate contact under conditions adapted to retain in the tower substantially all of the C_3 and higher molecular weight hydrocarbons, discharging unabsorbed C_2 and lower molecular weight hydrocarbons from the upper part of the absorption tower, passing the rich absorption medium and recovered hydrocarbons of the hydrocarbon mixture introduced into the tower from the base of the absorption tower into a factionating column at a point below the mid-point thereof and rectifying the hydrocarbon mixture under refluxing conditions produced by the cooling of vapors at the top of the column, maintaining a bottom temperature in the fractionating column adapted to produce a bottoms product containing C_3 hydrocarbon but which is substantially free of C_2 hydrocarbon, discharging the bottoms product containing C_3 hydrocarbon from the bottom of the column, passing a vapor fraction discharged from the top of the fractionating column and comprising C_3 and lower molecular weight hydrocarbons but which is substantially free of higher molecular weight hydrocarbons into the lower portion of a second absorption tower separate from said column and passing said vapor fraction in intimate contact with an absorption medium adapted to absorb substantially all of the C_3 hydrocarbon of the vapor fraction introduced into said second absorption tower, maintaining a high pressure in said second absorption tower substantially equal to that maintained in said fractionating column, discharging C_2 hydrocarbon in vapor form from the top of said second absorption tower, and passing the rich absorption medium from said second absorption tower into said fractionating column at an intermediate point to return C_3 hydrocarbon thereto.

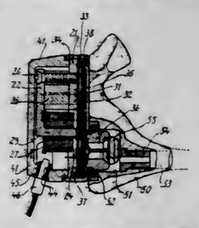
2,325,589
ACETALDEHYDE-FORMALDEHYDE CONDENSATION PRODUCT
Edward A. Bried, Elsmere, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 8, 1941, Serial No. 382,341
5 Claims. (Cl. 260—615)

1. A process of preparing pentaerythritol and dipentaerythritol which consists in commingling 88 parts by weight of acetaldehyde and 514 parts by weight of about 35% by weight aqueous formaldehyde at a temperature not above 20° C., slowly introducing a slurry of 74 parts by weight of calcium hydroxide in about 182 parts by weight of water while preventing the temperature from rising above 20° C., maintaining the mixture at not above 20° C. for several hours, acidifying the reaction mixture with less than the theoretical amount of sulfuric acid and completing neutralization with oxalic acid, filtering, and recovering pentaerythritol and dipentaerythritol from the filtrate.

2,325,590
EARPHONE
Richard W. Carlisle, Elmsford, and Alfred J. Mastropole, New York, N. Y., assignors to Sonotone Corporation, Elmsford, N. Y., a corporation of New York
Application May 11, 1940, Serial No. 334,678
8 Claims. (Cl. 179—107)

2. In an earphone designed to be small enough

for carrying in the ear of the user, an electromagnetic vibrating structure comprising a substantially rigid plate-like aligning member having a circular periphery and an opening in the interior thereof; a magnetic core structure clamped in a predetermined aligned position to one side of said aligning member and having a pole projection extending into said opening; a vibratory diaphragm having a periphery supported in a predeterminedly aligned position by the periphery of the other side of said aligning member, said diaphragm having a magnetic armature portion driven by said core structure and held in a vibratory condition opposite said pole projection at a predetermined small gap spacing therefrom; and cap means having a cap wall including a cap outlet duct overlying said diaphragm to confine therebetween an acoustic chamber, and a cap rim held in detachable inter-



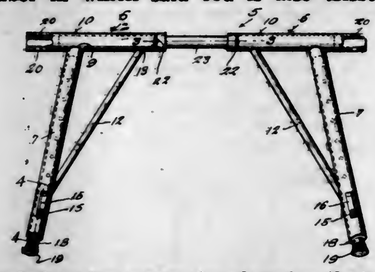
locking engagement with the periphery of said aligning member and holding clamped thereto said diaphragm and said cap wall; and a casing portion held in a position in which it encloses said core structure and is prevented from affecting the adjusted relation of the elements of the magnetic structure secured to said aligning member; and locking means including a locking screw mounted in a part of the earphone structure surrounding the pole projection and having an outer surface shaped so that upon turning it on its threads it will interlockingly engage or release an interior edge portion of said cap rim projecting beyond the periphery of said aligning member.

2,325,591
PROCESS FOR PREPARING CYCLOPROPANE
Walter G. Christiansen, Glen Ridge, N. J., and John M. Ort, Rockville Centre, N. Y., assignors to E. R. Squibb & Sons, New York, N. Y., a corporation of New York
No Drawing. Application October 9, 1941, Serial No. 414,354
7 Claims. (Cl. 260—666)

1. The process of preparing cyclopropane which comprises passing the vapor of a trimethylene dihalide through a reactor charged with a metal reduction agent.

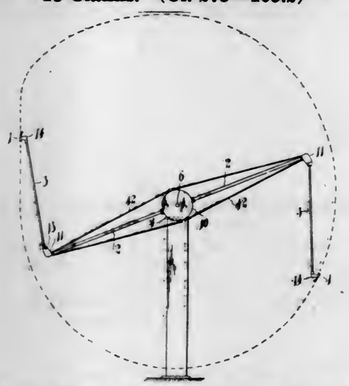
2,325,592
TRESTLE
Edward T. Degler, Elkins, W. Va.
Application September 19, 1941, Serial No. 411,571
3 Claims. (Cl. 304—6)

1. A trestle or the like comprising at least one section consisting of a pair of tubular upwardly converging substantially full-length legs, vertically adjustable cushion feet telescoped in the lower ends of said legs, locking means at the lower ends of said legs for holding the cushion feet in vertically adjusted position, a horizontal tubular member secured to the upper ends of the converging legs, and a horizontal support member telescoped in said horizontal tubular member, clamping means for securing said support member in adjusted extension from said horizontal tubular element, said horizontal support member comprising a rod, a second tubular horizontal member in which said rod is also telescoped,



second clamping means for clamping the rod in a selected position in said second tubular horizontal member, and diverging ground engaging legs secured to depend from said second tubular horizontal member.

2,325,593
TARGET APPARATUS
Rudolf D. Delamere, Victor G. Williams, Edward R. Grange, and Hugh Heaton, Toronto, Ontario, Canada
Application September 22, 1941, Serial No. 411,854
13 Claims. (Cl. 273—105.2)

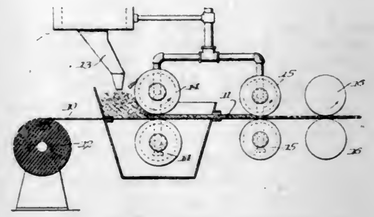


1. Apparatus of the class described comprising a rotatable inner arm; an outer arm pivotally carried by said inner arm for carrying a target, the pivot of the outer arm being substantially parallel to the axis of rotation of the inner arm; and means for actuating the outer arm to swing relative to the inner arm during the rotation of said arms.

2,325,594
SHEET METAL SOUND DAMPING MATERIAL
Harry B. Denman, Detroit, Mich., assignor to Detroit Gasket & Mfg. Co., Detroit, Mich., a corporation of Michigan
Application December 14, 1937, Serial No. 179,799
2 Claims. (Cl. 154—44)

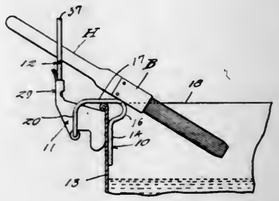
2. Sound damping and sound absorbing material for adhesive connection to bodies of automotive vehicles, said material forming a permanent union therewith unaffected by temperature and climatic conditions to which said bodies are subjected, said material comprising a self-sustaining fabricated layer and a thermoplastic

asphaltic adhesive porous layer superimposed thereon and rendered tacky and adherent upon application of heat, said thermoplastic adhesive having a melting point between substantially 180° and 250° F. and being unaffected or softened by temperatures incidental to the use of an auto-



mobile, the porous layer essentially including the adhesive and a filler selected from the group consisting of fibers and clay with the adhesive present in substantially greater volume than the filler and the latter present in amount sufficient to render the layer porous.

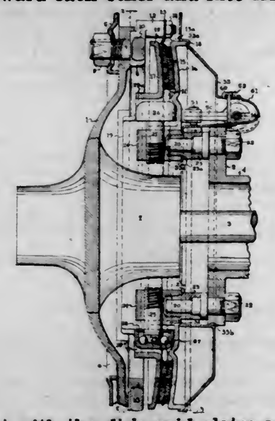
2,325,595
BRUSH HOLDER
Frederick G. Dicke, St. Petersburg, Fla.
Application September 4, 1942, Serial No. 457,371
2 Claims. (Cl. 248—113)



1. A brush holder comprising a stationary jaw for disposing interiorly of a receptacle, a movable jaw for engagement with the exterior of the receptacle, means carried by said stationary jaw pivotally supporting said movable jaw, an upwardly opening socket carried by said movable jaw, means formed integral with said movable jaw and said socket for bracing the latter, a resilient gripper member engageable in said socket, and an upwardly and outwardly directed guide element carried by said socket for guiding said gripper member during the insertion of the latter into said socket.

2,325,596
DISK BRAKE
Edwin R. Evans, Orchard Lake, Mich.
Application July 25, 1938, Serial No. 221,132
26 Claims. (Cl. 188—72)

1. A brake comprising a pair of spaced, substantially rigid non-revoluble plates, an annular disk revoluble between such plates and flexible to conform itself to the plates, positioning elements for the disk engaging its outer periphery and flexible transversely of the disk to afford it axial movement, and means for actuating the plates toward each other and into frictional en-

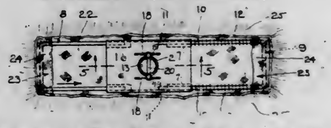


gagement with the disk, said plates and disk being correspondingly disked.

2,325,597
COMPOUNDED MINERAL OIL
Bruce B. Farrington, James O. Clayton, and John T. Rutherford, Berkeley, Calif., assignors to Standard Oil Company of California, San Francisco, Calif., a corporation of Delaware
No Drawing. Application January 13, 1941, Serial No. 374,243
14 Claims. (Cl. 252—32)

1. A lubricating composition containing a metal salt of an acid of phosphorus having a halogenated organic substituent.

2,325,598
DUST MOP
Conrad Fatland, Chicago, Ill.
Application March 26, 1942, Serial No. 436,358
4 Claims. (Cl. 15—147)

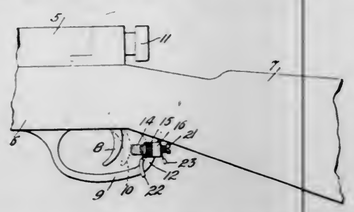


3. In a mop, a head comprising a central portion and end portions adapted to engage the ends of a mop of predetermined shape and size, the outer edges of one of said end portions and the outer edges of one end of said central portion being associated operatively so that one of said portions is slidable over the other, and spring means whereby said end portion is urged outward from said central portion.

2,325,599
DEVICE FOR INDICATING IMPROPER TRIGGER PULLING
Paul Fidelman, New York, N. Y., assignor of one-half to Nathan P. Zablow, New York, N. Y.
Application August 3, 1940, Serial No. 351,002
3 Claims. (Cl. 42—1)

3. In firearms of the character described including a hammer and a trigger movable to a firing position at which the hammer is actuated and capable of movement beyond the firing position, a device operative only when the trigger has been moved beyond the firing position at

which the hammer is actuated for indicating when the trigger has been moved beyond such position at which the hammer is actuated, said device comprising a signal, and means for actuating the signal when the trigger has been moved beyond the firing position at which the hammer is actuated consisting of a movable member



mounted on the firearm and located beyond the firing position of the trigger and in the path of the trigger as it travels beyond the firing position at which the hammer is actuated and means connecting the signal with the movable member when the latter is moved by the trigger for operating the signal.

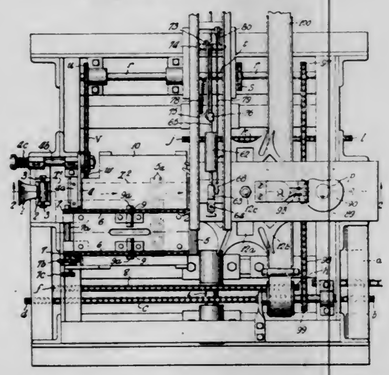
2,325,600

APPARATUS FOR FORMING AND IMPREGNATING FIBROUS PADS

Crosby Field, Brooklyn, and Gerald C. Toole, St. Albans, N. Y., assignors to Brillo Manufacturing Company, Inc., a corporation of New York

Original application December 27, 1938, Serial No. 247,762, now Patent No. 2,240,135, dated April 29, 1941. Divided and this application August 2, 1940, Serial No. 349,730

37 Claims. (Cl. 29—1)



1. Apparatus for making fluffy metal wool into relatively dense pads containing soap, said apparatus including a compressor having an upright compression chamber, a piston reciprocated through the lower end thereof and a pad shaping mold at the upper end into which the piston compresses the wool, the end wall of said mold being a stationary plate designed for discharge downward therethrough of soap at fluid temperature; means for supplying the compressor with enough fluffy metal wool for a pad; means for ejecting said soap downward through said stationary end plate onto the wool while it remains in relatively fluffy condition; and means for actuating the piston to apply high pressure to force the thus soaped fluffy metal wool into the forming mold, to distribute the fluid soap therein and form a relatively dense pad of predetermined shape; the frame walls of said shaping mold being laterally slidable beneath said stationary end plate to permit removal of the pad from said frame walls.

2,325,601

CAN-OPENING KEY

Thomas L. Gats, Villa Park, Ill., assignor of one-half to Wilfred S. Stone, Glen Ellyn, Ill.

Application August 23, 1939, Serial No. 291,465

3 Claims. (Cl. 220—52)



1. The combination of a can having a tear strip and for use with said tear strip a key of high sulphur steel having a limited portion thereof fused to the can, said fused limited portion of the key being formed of a material substantially weaker than the material of the can to which said limited portion is fused and substantially weaker than the material of the balance of the key, whereby forceable separation of the key and the can will cause a breaking in said limited portion.

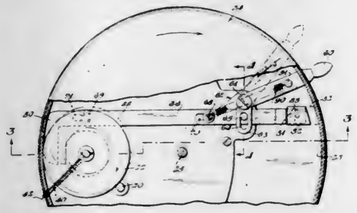
2,325,602

POWER AND BRAKE CONTROL FOR RECORDING APPARATUS

Paul Stead Gay, Charlotte, Mich., assignor to Wilcox-Gay Corporation, Charlotte, Mich., a corporation of Michigan

Application May 15, 1941, Serial No. 393,563

9 Claims. (Cl. 192—4)



1. In sound apparatus, a motor having a shaft, and a turntable having a flange, an idler between said shaft and said flange; said idler being mounted on a sliding mount, means biassing said mount to a position where said idler is in power transmitting position between said flange and said shaft, and a member selectively engageable with said mount and movable to a position where it moves said mount and said idler out of power transmitting engagement with said flange and shaft, and a brake mounted on said member and movable thereby into engagement with said flange.

2,325,603

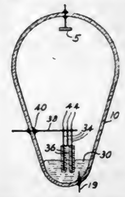
IGNITER FOR MERCURY-POOL TUBES

Kenneth Joseph Germeshausen, Cambridge, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware

Application November 23, 1938, Serial No. 241,888

4 Claims. (Cl. 250—27.5)

1. A tube having a mercury-pool cathode, and a plurality of starting electrodes disposed in the mercury each provided with an insulating layer separating it from the mercury, the distance between adjacent electrodes being small



enough to prevent the formation of a normal meniscus about each electrode.

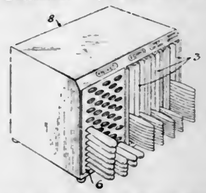
2,325,604

DISPENSER FOR TABLEWARE

William J. Gibbs and Ernest F. Smith, Brooklyn, N. Y.

Application December 28, 1939, Serial No. 311,232

6 Claims. (Cl. 312—42)



1. In a storage and dispensing device for tableware such as knives, forks and spoons, a housing support, a plurality of containers for tableware detachably mounted in said support, each of said containers being so constructed and arranged as to receive the operative ends of tableware with the handle portions thereof projecting through the front of the container in position to be manipulated by the hand of a user for removal of the articles of tableware from the containers without contacting the operative parts thereof, and means associated with each container for preventing reinsertion of an article manually removed from a container.

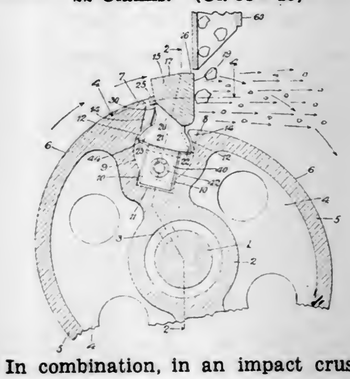
2,325,605

IMPACT MEMBER FOR IMPACT CRUSHERS AND SECURING MEANS THEREFOR

Oscar C. Gruender and Ewald Werner, Milwaukee, Wis., assignors to Nordberg Manufacturing Co., Milwaukee, Wis., a corporation of Wisconsin

Application June 14, 1941, Serial No. 398,056

22 Claims. (Cl. 83—46)



1. In combination, in an impact crusher, an impeller, and means for rotating it, said impeller having an axially extending socket open at its ends and bounded by spaced overhanging walls which define a space which decreases outwardly in width between such walls, an impact member including an axially extending bar located exteriorly to the impeller, a plurality of lugs extending inwardly from the bar and having faces conforming to the opposed faces of said overhanging walls and normally centrifugally thrust into contact therewith, and additional means for urging said lugs against the opposed faces of the overhanging walls, including spring wedge means interposed between the bottom of said socket and the lower edges of said lugs.

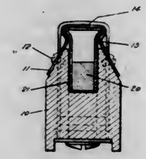
2,325,606

SHAVING IMPLEMENT

John A. Hanley, Noroton, Conn., assignor to Gillette Safety Razor Company, Boston, Mass., a corporation of Delaware

Application July 26, 1940, Serial No. 347,811

7 Claims. (Cl. 30—43)



1. A shaving implement comprising a head having upwardly converging side faces, a stationary sheet metal cutter conformed thereto with side walls converging and then flaring outwardly above said converging faces in reentrant angles and having a central face with transverse shearing teeth therein, and a movable cutter contained within the stationary cutter and having side walls carrying a slotted outwardly flaring portion conforming to the flaring portion of the stationary cutter.

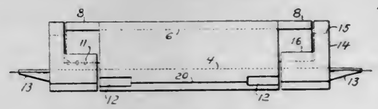
2,325,607

FLOATING DRY DOCK

Frederic R. Harris, New York, N. Y.

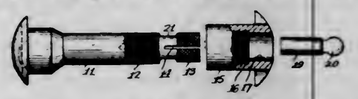
Application August 21, 1940, Serial No. 353,439

5 Claims. (Cl. 114—46)



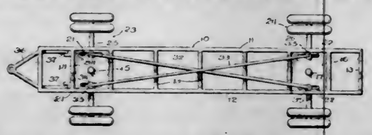
2. A floating dry dock including a relatively long center section having side walls, two end sections shorter than the center section, and disengageable fastening means for rigidly securing one of said end sections to each end of the center section when docking a vessel, each of said end sections having a portion that extends under a part of the end of the center section for docking the center section between the end sections, and each of said end sections having at its end remote from the fastening means an extension portion that is hinged to the remainder of the end section for angular movement about a transverse axis into a position that shortens the length of the end section to a dimension small enough to fit between the side walls of the center section so that the end sections when turned sideways can be docked in the center section.

2,325,608
NUT AND BOLT LOCK
Robert Hofstetter, Alexandria, Va.
Application April 13, 1940, Serial No. 329,561
3 Claims. (Cl. 151—31)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



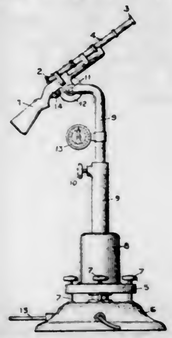
1. In a nut and bolt lock, the combination comprising: a bolt having an end section with a peripheral surface, a male threaded section inwardly on the bolt of said end section, the root diameter of the threads of said threaded section being at least as great as the diameter of said end section, and a longitudinal, smooth-surfaced bore having a substantially uniform cross section and a depth extending at least through said end section, said end section being cross-slotted to provide spreadable segments; a nut having a female threaded interior section and a second interior section in the form of a generally cylindrical surface, said nut threads being of a pitch and diameter adapted to be cooperatively journaled with the threaded bolt section, and said cylindrical surface being of a diameter substantially that of the crest diameter of the nut threaded section; one of said bolt and nut surfaces being knurled and the other surface being unthreaded; and a pin having a leading guiding portion of substantially uniform diameter adapted to freely pass into said bore and having a following end portion of a width greater than the diameter of said guiding portion; whereby said pin is adapted to be driven by a sharp blow into said bore with said pin end portion guided into a wedging effect upon the segmented bolt end portion by said pin guiding portion sliding within said bore to force said segmented bolt end portion into engagement with said second interior section of the nut, and thereby to provide an interlocking relation of said knurled surface and said unthreaded surface for locking said bolt and nut into non-reciprocative and non-rotative relation.

2,325,609
TRAILER
Gladstone A. Johnson, United States Army, Tuolumne, Calif.
Application October 2, 1942, Serial No. 460,473
4 Claims. (Cl. 280—91)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



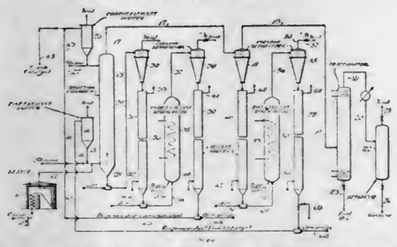
1. In a trailer, in combination, a frame including longitudinal beams and transverse beams, together with a forward truck bearing plate supporting a vertical kingpin, and a rear truck bearing plate supporting a vertical kingpin; a front steering truck and a rear steering truck, each of said trucks including a straight rigid transverse axle having wheels rotatably mounted on each of its ends; a pair of cross reach links extending from one side of the forward truck to the opposite side of the rear truck; bearing surfaces connecting the cross reach links with the forward and rear trucks, respectively; the structure being characterized by reach link bearings shiftable in a straight line path of movement extending longitudinally on each side of the kingpins of said frame and provided with straight longitudinal guide members associated with the frame, the bearings also being shiftable with respect to the trucks in a direction radial of the kingpins, and provided with front and rear radial guides.

2,325,610
FIRE CONTROL INSTRUMENT
Joseph F. Joy, Claremont, N. H.
Application July 8, 1942, Serial No. 450,181
1 Claim. (Cl. 33—69)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



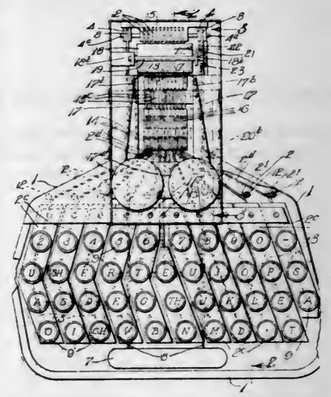
A fire control instrument comprising a base, an azimuth transmitter having a stator and a rotor having a protruding shaft, the stator of said transmitter being secured to said base and the rotor shaft of said transmitter being extended upwardly normal to said base, an elevation transmitter having a stator and a rotor having a protruding shaft, the stator of said elevation transmitter being secured to the upper end of said extended shaft with the rotor shaft of said elevation transmitter normal to said extended shaft, and a sighting telescope having open sights thereon mounted on the rotor shaft of said elevation transmitter for rotation therewith through a plane normal thereto, and a shoulder stock also mounted on said rotor shaft and secured to the rear portion of the telescope for the direction thereof.

2,325,611
CATALYTIC TREATMENT OF HYDROCARBON OILS
George M. Keranen, Homewood, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application December 23, 1940, Serial No. 371,221
10 Claims. (Cl. 196—52)



1. The process of treating hydrocarbon oils with a powdered catalyst, comprising employing a catalyst having a wide range of particle size, contacting hydrocarbon vapors at conversion temperatures with said catalyst in a vertical, elongated reaction zone, introducing the finder constituents of said catalyst with said vapors near the bottom of said reaction zone, introducing the coarser constituents of said catalyst near the top of said reaction zone, flowing said hydrocarbon vapors upwardly through said reaction zone, regulating the velocity of said vapor flow to permit settling said coarse catalyst countercurrent to said vapors, withdrawing said vapors and fine catalyst dispersed therein from the top of said reaction zone, withdrawing coarse catalyst from the bottom of said reaction zone, separating the catalyst from treated hydrocarbon vapors, regenerating said coarse and fine catalyst by controlled combustion with oxygen-containing gas to remove carbonaceous deposists, recycling coarse catalyst to the top of said reaction zone and recycling said fine catalyst to the hydrocarbon vapors near the bottom of said reaction zone.

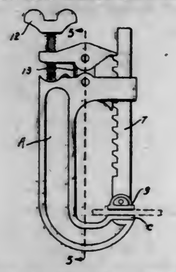
2,325,612
MECHANICAL SHORTHAND WRITING MEANS
Wendell V. Kirkpatrick, San Diego, Calif.
Application January 21, 1941, Serial No. 375,273
12 Claims. (Cl. 197—9)



1. In a mechanical shorthand writing means of the class described, the combination with a platen roller adapted to position a paper strip thereon, and a ribbon in spaced relation therewith, of a plurality of shiftable type supporting members provided with type thereon arranged in separate single consecutive rows parallel with said roller and facing the same, the normal upright disposed relation of said type arranged in parallel longtudinal relation with said roller whereby typed character impressions printed by said type on said paper strip are disposed in upright relation one above the other readable in single rows in continuity transversely of said paper strip.

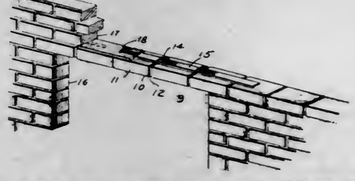
2,325,613
TOGGLE C CLAMP
Otis M. Kirlin, Detroit, Mich.
Application March 5, 1941, Serial No. 381,894
3 Claims. (Cl. 144—305)

1. In a clamp, the combination with a C-shaped frame, the inner end thereof terminating in a fixed work engaging jaw, the outer opposite end being provided with an opening, a rack bar freely slidable through said opening, a coacting work engaging jaw mounted on the inner end of the slidable rack bar, an arm disposed adjacent the outer end portion of the frame, a link pivotally connecting the intermediate portion of the arm to the outer end portion of the frame, a locking dog formed on the inner end of the arm, and



means for normally holding the dog in locking engagement with the teeth of the rack bar for locking the latter and its jaw against sliding movement in one direction, said means comprising a leaf spring secured at one end on the frame, the free end of said leaf spring bearing against the outer side edge of the link.

2,325,614
LINTEL
John J. Klaber, New York, N. Y.
Application January 6, 1942, Serial No. 425,721
4 Claims. (Cl. 72—59)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

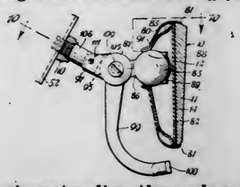


1. A lintel for openings of a building formed of spaced superimposed layers of preformed building blocks, including a course of building blocks spaced in end to end relation spanning the side walls of said opening, and bonding material between and securing said blocks together, said lintel comprising a metallic reinforcing member superimposed upon said course spanningly of said opening and having over all cross sectional dimensions less than those of the normal space between said layers, and ties formed in endless loops supported by said metallic reinforcing member for securing said spanning course of blocks to said reinforcing member.

2,325,615
MOUNTING FOR REAR VISION MIRRORS
William La Hodny and Paul Bertell, Buffalo, N. Y., assignors to Standard Mirror Company, Buffalo, N. Y., a corporation of New York
Application May 23, 1940, Serial No. 336,738
3 Claims. (Cl. 88—98)

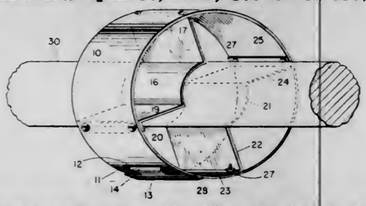
1. A rear vision mirror, comprising a transparent panel having a reflective coating on its rear face, a supporting stud adapted to be secured to a rigid part of an automobile adjacent the windshield and having an extension extending lengthwise of the automobile, a holder for

said mirror panel and provided with an annular seat, a ball, means for frictionally holding said ball in engagement with said seat, a stem projecting rearwardly from said ball and formed to provide an extension, one of said extensions being formed to provide a pair of vertical jaws and the other extension being formed to provide a vertical tang fitted between said jaws, a hori-



zontal pivot pin extending through said jaws and tang whereby said stem can oscillate about the axis of said pivot pin, means providing frictional engagement between said jaws and tang to resist such oscillation, and means mounted on said extensions for limiting said oscillating movement of said stem about the axis of said pivot pin.

2,325,616
SHROUD RING
Louis Landweber, Bethesda, Md.
Application November 30, 1942, Serial No. 467,477
6 Claims. (Cl. 114—235)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



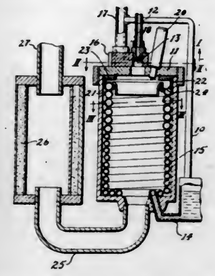
1. A shroud ring or the like adapted to be applied to a cylindrical body, comprising means for clasping said body, radial fins extending outwardly from said means, a split shroud ring proper surrounding said means and said fins and supported by the latter and adapted when closed to compress said means.

2,325,617
ROTOR
Alf Lysholm, Stockholm, and Gustav Karl William Boestad, Lidingo, Sweden, assignors, by mesne assignments, to Jarvis C. Marble, Leslie M. Merrill, and Percy H. Batten, as trustees
Application January 12, 1939, Serial No. 250,626
In Germany January 13, 1938
11 Claims. (Cl. 74—466)



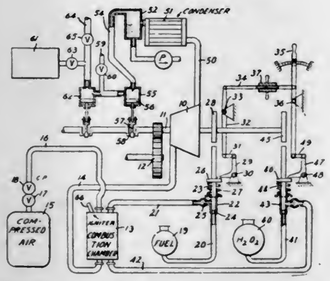
1. A rotor for compressors and the like comprising a hollow body portion of generally cylindrical form having a peripherally continuous wall and a plurality of hollow helical tooth portions carried by said body portion, said tooth portions being formed by a plurality of sections of like profile arranged in axially abutting relation and peripherally displaced with respect to each other to provide continuous tooth portions of helical form.

2,325,618
MOTIVE FLUID FOR PRIME MOVERS
Alf Lysholm, Stockholm, Sweden
Application October 1, 1940, Serial No. 359,204
In Sweden October 3, 1939
13 Claims. (Cl. 60—45)



1. A method of producing motive fluid for prime movers, particularly adapted for use with prime movers of torpedoes, which includes the steps of heating an oxygen carrying liquid to vaporize a portion thereof and to produce an oxygen containing gas, separating the gas thus produced from the remaining liquid, burning fuel by means of said gas and directly utilizing a portion of the heat produced by said burning to heat said oxygen carrying liquid.

2,325,619
POWER PLANT FOR SUBMARINES AND THE LIKE
Alf Lysholm, Stockholm, Sweden
Application October 1, 1940, Serial No. 359,205
In Sweden October 3, 1939
11 Claims. (Cl. 60—45)

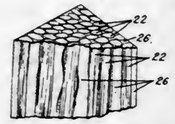


1. A power plant intended particularly for submarines, torpedoes and the like comprising a prime mover, a combustion chamber for producing motive fluid for said prime mover, means for supplying fuel, air and a liquid oxygen-carrier to said chamber, and means to vary the proportion between the air and the liquid oxygen-carrier, said means being operable to increase the liquid oxygen-carrier supply and the fuel supply after starting the plant while reducing the air supply.

2,325,620
CUTTING BLOCK
Mieth Maeser, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application November 21, 1941, Serial No. 419,971
4 Claims. (Cl. 164—58)

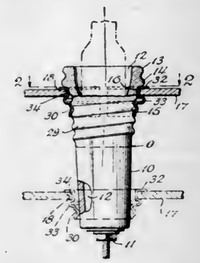
1. A cutting block comprising a body portion

terminating in a flat cutting surface, said body portion being composed of plastic material hav-



ing embedded therein sisal hemp fibers extending perpendicular to the cutting surface.

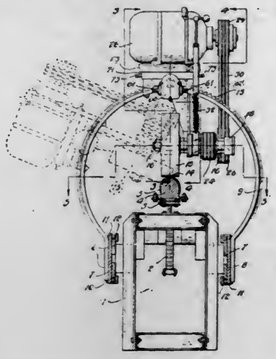
2,325,621
HIGH TENSION SIGN INSULATOR AND ATTACHING MEANS THEREFOR
Samuel C. Miller, New York, N. Y.
Original application October 5, 1936, Serial No. 103,964. Divided and this application October 25, 1940, Serial No. 362,709
10 Claims. (Cl. 173—339)



1. A high voltage electrode readily removable insulator assembly for combination with a plate and insertable from the front face thereof through an orifice in said plate, said plate forming one element of the combination, an insulator forming another element, said insulator being formed adjacent one end with a flange larger than said orifice and with the other end thereof generally cylindrical and arranged to pass through said orifice, a second flanged portion formed on said insulator, the space therebetween forming an engageable seat, and attaching means thereon insertable from the front face of said plate through said orifice and having a portion larger than said orifice and arranged to lie on the exterior of said insulator and substantially encircle the same, said attaching means having a portion for engaging one of the elements and a portion for engaging the other element, to hold said elements in engagement with each other and entering said seat, said insulator having an additional portion which, upon rotation of said insulator, is operative for directing a portion of said attaching means into engagement with one of the elements and into the engageable seat.

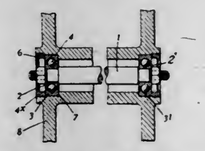
2,325,622
BUFFING MACHINE
Ernest E. Murray, Detroit, Mich.
Application July 3, 1939, Serial No. 282,585
8 Claims. (Cl. 51—76)

8. The combination of an arm mounted for oscillation about a fixed axis, a tool holding spindle mounted in said arm parallel to said axis, a pulley concentric with said axis, a stationary motor support having a motor mounted thereon, means driving said pulley from said motor, means driving said spindle from said pulley, springing means supporting said arm against gravity at an angle with respect to the vertical, and springing means including the first named springing means



opposing oscillation of said arm out of its selected position.

2,325,623
LOCATING BEARING FOR HORIZONTAL SHAFTS
Hugh Murtagh, Laleham - on - Thames, and William George Harding, Whitton, England, assignors to Sperry Gyroscope Company Incorporated, Brooklyn, N. Y., a company of New York
Application June 5, 1940, Serial No. 338,842
In Great Britain June 14, 1939
4 Claims. (Cl. 308—191)

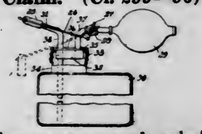


1. A mounting for a substantially horizontal shaft in gyroscopic apparatus comprising spaced ball bearings for said shaft; one of said bearings including a fixedly mounted, grooved, outer ball race; an axially movable, grooved, inner ball race and four point contacting ball bearings between said races by which the shaft is normally positioned axially to accurately locate the gyroscopic parts solely by means of the force of gravity thereon; the other of said bearings of the mounting being of the non-locating type and including a fixedly mounted, grooved, outer ball race; an axially movable, grooved, inner ball race and contacting ball bearings therebetween.

2,325,624
TREATMENT OF PAPER AND PAPERBOARD
Sidney Musher, New York, N. Y., assignor to Musher Foundation, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application March 11, 1940, Serial No. 323,298
6 Claims. (Cl. 8—115.5)

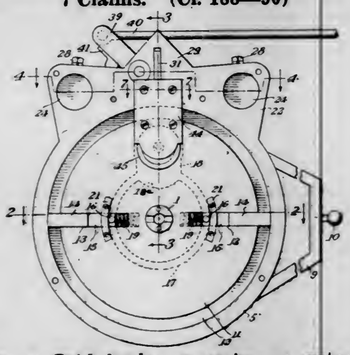
2. Antioxygenic paper and paperboard containing incorporated with the surface thereof between about 0.2% and 5% of deoiled spice residue, said deoiled spice residue having been reacted with the surface of the paper and paperboard by heating the same to at least about 220° F., said paper and paperboard having a pH of between about 4 and 6.9.

2,325,625
FIRE EXTINGUISHER MEANS
David Moffat Myers, Larchmont, N. Y.
Application December 12, 1940, Serial No. 369,795
1 Claim. (Cl. 299—96)



Liquid-ejecting means and substitute closure member for the sealing cap of a container, adapted for dispensing a fire-extinguishing liquid from the said container through the neck thereof, comprising a cap member designed to fit over the said neck and including a head portion, an air pipe extending through said head portion having means external the container for introducing air under pressure therein, and an ejector pipe extending through the head portion substantially to the bottom of the container and terminating externally thereof in a nozzle for discharging the contents of the container when air is introduced through the air pipe, a cap member normally sealing the nozzle and a valve element normally sealing the air pipe, together with means connecting the cap and valve element for removing simultaneously the cap with the opening of the valve.

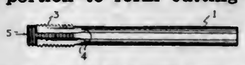
2,325,626
FLUID BRAKE
Lafayette M. Nay, Placentia, Calif.
Application April 3, 1942, Serial No. 437,578
7 Claims. (Cl. 188—90)



1. In a fluid brake, a casing, a rotor concentrically mounted in the casing and spaced therefrom to provide an annular fluid receiving chamber, spring pressed slidably mounted vanes carried by the rotor and normally held in wiping engagement with said casing for circulating the fluid about the chamber, means mounted in the casing for movement into the chamber to cooperate with the vanes for retarding the circulation of the fluid to set up a braking action, means for moving the retarding means into and out of the chamber, and means for diverting the vanes about the retarding means and carried by the latter.

2,325,627
THREAD CUTTING TOOL
David Neilsen, Detroit, Mich., assignor of seventy per cent to John E. Castle, Detroit, Mich.
Application October 2, 1941, Serial No. 413,332
8 Claims. (Cl. 10—141)

1. A finish thread cutting tool comprising a cutting portion and a pilot portion and formed with a thread continuously extending on both said portions, said thread being interrupted on the cutting portion to form cutting edges, and

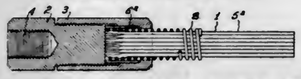


extending uninterruptedly on the pilot portion to the leading end of the tool, the root diameter of the thread being substantially constant on both said portions.

2,325,628
PROCESS FOR PREPARING CYCLOPROPANE
John M. Ort, Rockville Centre, N. Y., assignor to E. R. Squibb & Sons, New York, N. Y., a corporation of New York
No Drawing. Application October 9, 1941, Serial No. 414,355
9 Claims. (Cl. 260—666)

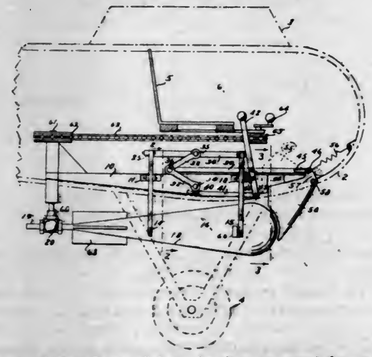
1. The process of preparing cyclopropane which comprises intimately contacting a trimethylene dihalide with a liquid amalgam of a metal reduction agent.

2,325,629
END BRUSH
Ruben O. Peterson, South Euclid, Ohio, assignor to The Osborn Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application August 3, 1940, Serial No. 350,607
5 Claims. (Cl. 300—21)



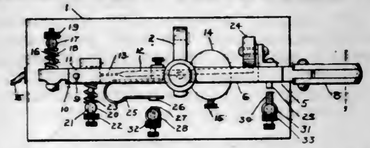
1. The method of making a wire brush unit which comprises providing a bundle of brush wires, placing a closely fitting coil spring about such bundle adjacent one end, placing an annulus about such bundle and spring a short distance from such end, applying a bonding medium to such end to combine such wires and spring into a unit, and relatively moving such annulus and unit to press fit such bonded end in such annulus with the remainder of such bundle and a portion of such encircling spring protruding therefrom.

2,325,630
GLIDER LAUNCHING DEVICE
James N. Petty, Maricopa County, Ariz.
Application September 1, 1942, Serial No. 456,908
4 Claims. (Cl. 244—73)



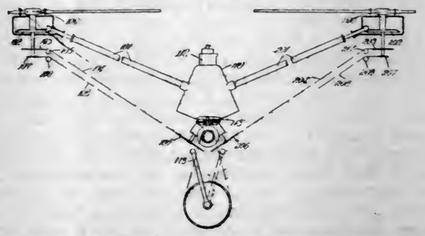
1. A glider launching device comprising a pressure vessel having a rearwardly extending jet nozzle, and a pressure control valve, pivotally supported hooks positioned within the glider body adapted to engage the sides of said pressure vessel, a nose piece extending downward from the underside of the glider body adapted to engage the forward end of said pressure vessel, and mechanism operative within the glider body adapted to control said pressure release valve, and mechanism positioned within the glider body adapted to release said hooks from said pressure vessel.

2,325,631
RADIO SPEED KEY
John R. Pinelli, United States Navy
Application May 27, 1942, Serial No. 444,748
11 Claims. (Cl. 178—82)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



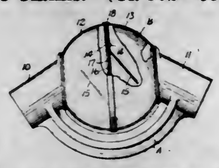
1. A code transmitting instrument of the automatic dot type comprising, a horizontal base plate, a key lever, pivot means engaging a medial portion of said key lever for mounting said key lever on said base plate for horizontal swinging movement, a vibrator lever pivotally mounted on the said key lever for horizontal movement by a vertically disposed floating pin joint common to both levers, said pin joint being disposed at one end of said key lever, and a pair of adjustable stops, said stops being disposed on opposite sides of the said pin joint and on the same side of the said vibrator lever, whereby one coacts with said vibrator lever on one side of said pin joint to thereby impart a flexing couple to the said vibrator lever and the other limits the resulting motion.

2,325,632
ROTARY WING AIRCRAFT
Cyril George Pullin, Genista, Newton Mearns, Scotland, assignor to Autogiro Company of America, Willow Grove, Pa., a corporation of Delaware
Application January 30, 1940, Serial No. 316,330
In Great Britain January 27, 1939
12 Claims. (Cl. 244—17)



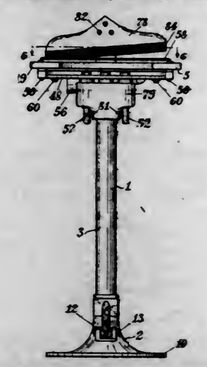
1. In an aircraft having a pair of sustaining rotors disposed on either side of the centre line, an engine, transmission shafts, each including a freewheel clutch, between the common engine shaft and each of the rotors, a centrifugal governor driven from the engine shaft, a pitch change control unit comprising a cylinder, a piston slidable in the cylinder connected to a sleeve having two opposite handed external screw threads each engaged by a rack member which engages a pinion on a shaft, a blade pitch angle control element for each rotor coupled to one of the last mentioned shafts, a valve actuated by the centrifugal governor, controlling the admission of pressure fluid to the control cylinder to move the piston against the action of a spring which, when the pressure is released, tends to move the piston into a position corresponding to gyroplane incidence of the rotor blades, a sprocket mounted on the sleeve to rotate same whereby to cause movement of the rack members in opposite directions to produce differential incidence change of the rotors.

2,325,633
INDICATOR FOR SUCTION CLEANING SYSTEMS
Daniel Benson Replogle, Berkeley, Calif., assignor to The Ohio Citizens Trust Company, Toledo, Ohio, a corporation of Ohio, as trustee
Application December 5, 1941, Serial No. 421,853
5 Claims. (Cl. 302—65)



1. A suction cleaning system including a plurality of tubular suction elements, a dust indicator interposed between a pair of successive tubular elements, comprising a rotatably mounted transparent globular element, composed of a pair of concave members united together, each having a diaphragm portion at the meeting portions of the concave members, openings in said diaphragms, a screen between said diaphragms, and deflecting tabs carried by said globular elements for deflecting entering dust laden air to the periphery of said globular element.

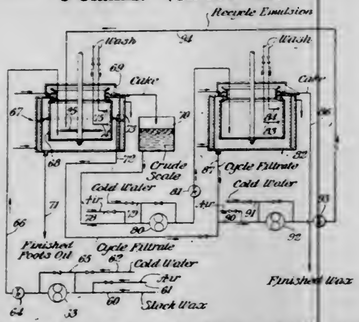
2,325,634
PINKING MACHINE
Lester S. Rod, Dublin, Pa.
Application August 3, 1940, Serial No. 350,706
3 Claims. (Cl. 164—50)



1. In a pinking machine comprising a base member and a platform movable relatively to said base member from a non-shearing to a shearing position—a pair of shear elements, one carried by said base member and the other by said platform; each of said shear elements comprising a fixed member, guide pins carried by said

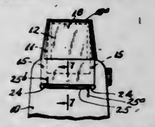
fixed member, a toothed cutting member mounted on said pins at an angle to said fixed member for movement relatively to said fixed member during the shearing operation, and means for normally urging one of the ends of said toothed cutting member away from said fixed member thereby causing said toothed cutting member to form an angle with said fixed member when the shearing elements of said pinking machine are in the non-shearing position.

2,325,635
CONTINUOUS FILTER
August Henry Schutte, Tuckahoe, N. Y.
Original application February 25, 1939, Serial No. 258,527. Divided and this application January 12, 1940, Serial No. 313,494
8 Claims. (Cl. 196—19)



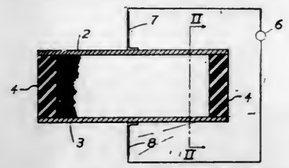
1. Apparatus for separating a high melting point wax from "foots" oil in slack wax which comprises means to form an emulsion of the slack wax, centrifugal filter means to separate a crude scale wax as filter cake from the "foots" oil, means to wash the cake to form a waxeous cut as a cycle filtrate, means to separately collect the crude scale wax and "foots" oil, means to collect the cycle filtrate, means to emulsify the crude scale wax, centrifugal filter means to filter said emulsion and to separate a finished high melting point wax from a second cycle filtrate, means to emulsify the cycle filtrate from both filters, and means to introduce said recycled emulsion to a zone in the first filter spaced from the feed of the slack wax emulsion, and at a zone of comparative equality of composition of the filtrable liquid in the recycle emulsion and in the filter cake present on the filter.

2,325,636
SHAVER
Samuel Solomon, Union City, N. J.
Application July 25, 1940, Serial No. 347,394
4 Claims. (Cl. 30—41)



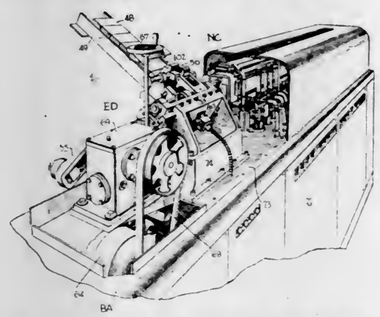
1. In combination with an electric razor having a pair of interengaged hollow cutting members with open ends, means for temporarily closing each end, comprising a frame mounted on the razor and across the open end, a plate removably mounted in said frame and across said end, and clips mounted upon said frame and engaging portions of said razor for mounting the frame upon the razor.

2,325,637
FORMATION OF POROUS RUBBER PRODUCTS
William E. Stewart, Cuyahoga Falls, Ohio, assignor of one-half to Theodore A. Te Grotenhuis, Olmstead Falls, Ohio
Application June 23, 1938, Serial No. 215,419
15 Claims. (Cl. 260—723)



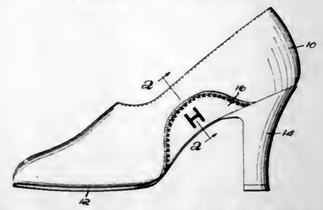
1. In a process for producing porous rubber articles wherein a liquid containing a rubber latex and suitable compounding ingredients is formed into a froth and the froth gelled and vulcanized in a mold, the step which comprises passing an electric current through the froth in sufficient quantity to gel and cure it in cellular form having the shape of the mold.

2,325,638
BILLET HEATING APPARATUS
Harold A. Strickland, Jr., Detroit, Mich., assignor to Budd Wheel Company, Philadelphia, Pa., a corporation of Pennsylvania
Application September 19, 1941, Serial No. 411,452
12 Claims. (Cl. 219—13)



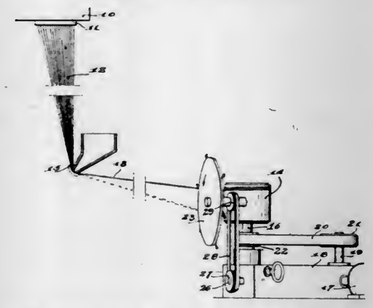
1. An apparatus for heating workpieces comprising, in combination, an elongated, open-ended heating chamber capable of containing a plurality of workpieces in aligned end-to-end relation at one time, a heat retaining delivery chamber associated with one end of said heating chamber in closed relation for receiving heated workpieces therefrom and having a normally closed delivery port, latching means for holding said port in closed position, intermittently operable means for disposing a workpiece adjacent the opposite end of said heating chamber in aligned end-to-end engagement with the endmost workpiece at said opposite end and for propelling said workpieces through said heating chamber a sufficient distance to dispose one of the heated workpieces in said delivery chamber, said delivery chamber being of such length as to receive at least two of the workpieces whereby at the end of each propelling movement the endmost workpiece may actuate said port latch and discharge through said normally closed delivery port and the penultimate workpiece may remain in said delivery chamber pending the next succeeding propelling movement.

2,325,639
SHOEMAKING
Karl A. Stritter, Nahant, Mass.
Application January 21, 1942, Serial No. 427,605
2 Claims. (Cl. 12—142)



1. The process of shoemaking which includes the steps of preparing an outsole for incorporation in a shoe, reducing the shank of the outsole along its upper edge portion, attaching an edge of an arch-supporting plaque to the reduced margin of the outsole shank, then fastening the outsole with its attached plaque to a lasted upper and insole, and subsequently securing the plaque on the outside of the upper above the sole.

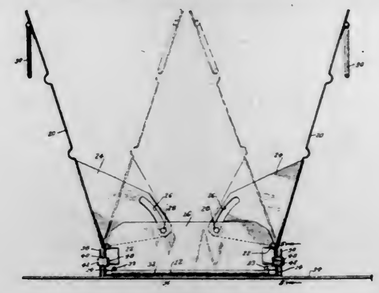
2,325,640
TRAVERSING MEANS FOR HIGH SPEED WINDING
John H. Thomas and Ed Fletcher, Newark, Ohio, assignors, by mesne assignments, to Owens-Corning Fiberglas Corporation, a corporation of Delaware
Application August 28, 1937, Serial No. 161,476
Renewed October 13, 1939
8 Claims. (Cl. 242—43)



1. The combination of a winding spool, means for rotating it, means for guiding a strand to the spool and causing it to be wound thereon, traversing mechanism comprising a pair of parallel disks, means for rotating said disks about a common axis in opposite directions, and a series of fingers mounted on each disk and projecting therefrom into the path of the strand as the latter is fed to the spool, said fingers being so arranged that the fingers on one disk engage the strand in alternation with the fingers on the other disk and thereby move the strand back and forth along the spool while being wound thereon.

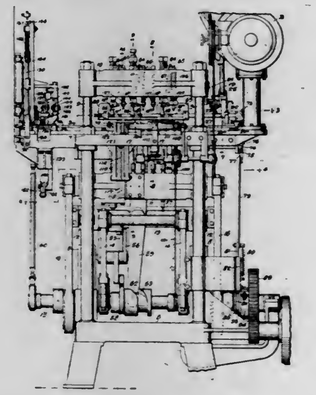
2,325,641
ACCOUNTING AND FILING SYSTEM
Patrick E. M. Thomson, West Brighton, Staten Island, N. Y., assignor to Visible Index Corp., New York, N. Y., a corporation of New York
Application May 15, 1942, Serial No. 443,147
17 Claims. (Cl. 129—16)

12. In card indexing devices, the combination with a portable tray whereof the base is elongated, of a stabilizing member comprising a transversely disposed plate-like member of a length greater than the transverse dimension of the tray base, said base being formed with at least



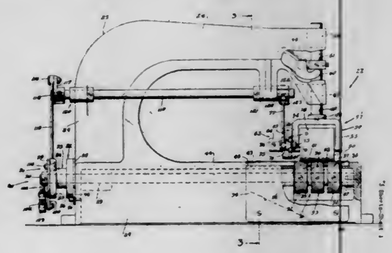
one slot and latching means carried by the stabilizing member and entering a slot to removably secure the stabilizing device on the base of the tray.

2,325,642
MACHINE FOR ACTING ON CARTRIDGE CASES
Joseph E. Turnock, Riverton, N. J., and Gerard D. Noble, Philadelphia, Pa.
Application March 27, 1940, Serial No. 326,208
1 Claim. (Cl. 86—23)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



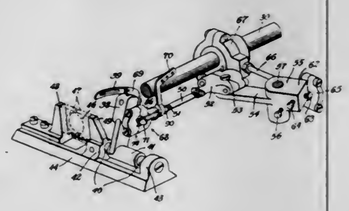
In a machine of the character described, a bed plate, means for supplying cartridge cases to the bed plate, open end down, means for moving the cases step by step across the plate, an elongated perforated plate engaged by the open ends of the cases in their lineal movement across the bed plate, jointly reciprocable tools above the bed plate for acting on the bases of the cases and longitudinally arranged with respect to the path of movement of said cases, jointly reciprocable stems below the bed plate and positioned to extend through the perforations in the elongated plate and into the cases to assist in locking them in true vertical position and means for simultaneously reciprocating the tools and stems in opposite directions.

2,325,643
FEEDING MECHANISM
Albert H. Weis, Nyack, N. Y., assignor to Willcox & Gibbs Sewing Machine Company, New York, N. Y., a corporation of New York
Application May 17, 1940, Serial No. 335,713
17 Claims. (Cl. 112—214)



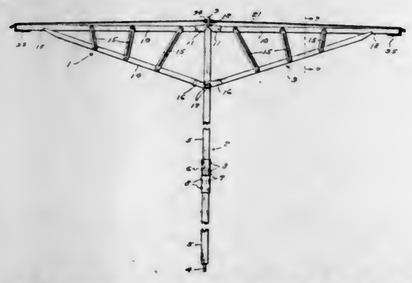
1. In a device of the character described, the combination of a first roller feeding means; a second roller feeding means; means for supporting said first and second roller feeding means in vertically opposed relation for cooperative feeding movement; means for operating said second feeding means; and means for connecting said operating means with said first roller feeding means for conjoint operation with said second roller feeding means, said connecting means including as a part thereof relatively movable elements relatively movable into divers positions of adjustment relative to each other for varying the relative rate of feed of said first and second roller feeding means.

2,325,644
SEWING MACHINE
Albert H. Weis, Nyack, N. Y., assignor to Willcox & Gibbs Sewing Machine Company, New York, N. Y., a corporation of New York
Application December 4, 1940, Serial No. 368,423
9 Claims. (Cl. 112—200)



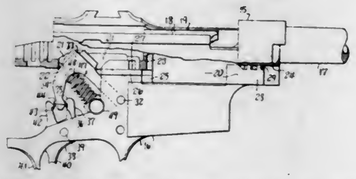
1. In a sewing machine having a looper carrier member with a looper and mounted for rocking movement, the combination of a connecting rod member for rocking said looper carrier member and looper; a ball and socket means carried by one of said members; connecting means on the other of said members, slidable relative to and in and out of operative association with said ball and socket means; and yielding means carried by said one of said members and movable therewith and with said ball and socket means relative to said connecting means for releasably locking said connecting means and said ball and socket means in operative association.

2,325,645
TENT
John Livingston White, Chattanooga, Tenn.
Application December 11, 1941, Serial No. 422,566
3 Claims. (Cl. 135—3)



1. A support of the character described comprising a pole, arms removably mounted on the upper end portion of said pole, braces engageable at one end with the pole and at their other ends with the arms, and elements connecting the braces to the arms for swinging movement into parallelism therewith.

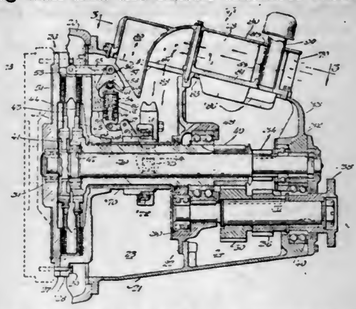
2,325,646
RECEIVER AND TRIGGER-PLATE CONSTRUCTION FOR FIREARMS
David M. Williams, New Haven, Conn., assignor to Western Cartridge Company, New Haven, Conn., a corporation of Delaware
Application February 4, 1942, Serial No. 429,449
7 Claims. (Cl. 42—75)



1. A firearm-structure including in combination: a receiver-unit; a trigger-plate unit located adjacent the said receiver-unit; first coupling-means carried by the said receiver-unit; second coupling-means carried by the said trigger-plate unit and releasably engageable with the said first coupling-means; a locking-abutment carried by one of the said units in position for engagement by a firing-member carried by the other of said units; and a firing-member carried by the other of said units and constructed and arranged when in its cocked position to engage the locking-abutment of the said unit so provided to prevent the disengagement of the two said coupling-means from each other, the said firing-member being also constructed and arranged to move clear of the said locking-abutment when moved into its uncocked position.

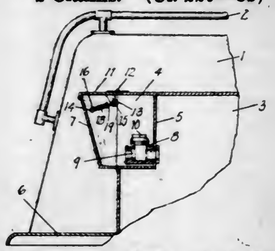
2,325,647
AIR-COOLED TRANSMISSION
Nicholas F. Adamson, Racine, Wis., assignor to Twin Disc Clutch Company, Racine, Wis., a corporation of Wisconsin
Application September 15, 1942, Serial No. 458,380
27 Claims. (Cl. 74—606)

1. An air cooled transmission comprising oil bathed gearing, a clutch connected to the gearing, the gearing and clutch being enclosed in separate chambers having a common heat conducting wall and the clutch chamber having an



air inlet and outlet, and fan elements carried by the clutch for establishing a flow of air across the wall.

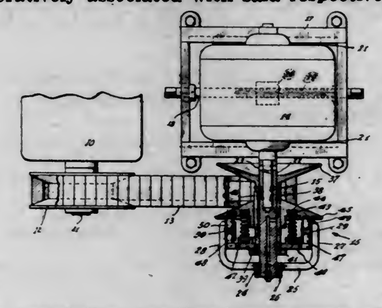
2,325,648
TANK FOR VEHICLES
Benjamin D. Barton, Battle Creek, Mich., assignor to American-Marsh Pumps, Inc., Battle Creek, Mich.
Application January 10, 1942, Serial No. 426,297
2 Claims. (Cl. 220—86)



1. In a structure of the class described, the combination with a tank of a filling chamber at one end of said tank, certain walls of said filling chamber being partly within the tank, a T-shaped valve casing mounted on the inner wall of said filling chamber to deliver to said tank and provided with an outwardly closing check valve and having a filling opening at the rear of the check valve provided with a closure plug whereby the tank may be filled with a hose or through the said filling chamber, a pivoted cover for said filling chamber adapted when open to provide a splash wall, and a toggle device for holding said cover in open or closed position comprising an arm on said cover, a link pivotally connected to said arm and slidably engaged with a bracket within said filling chamber, and a spring arranged on said link under compression and acting to hold the cover in either its open or closed position.

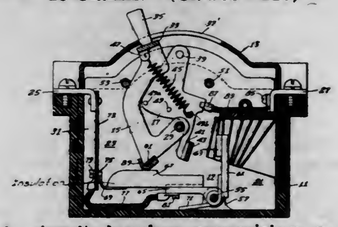
2,325,649
CONSTANT BELT POSITION RESILIENTLY EXPANSIBLE PULLEY
Dwight C. Batterson, Hinsdale, Ill., assignor to Reeves Pulley Company, Columbus, Ind., a corporation of Indiana
Application September 22, 1941, Serial No. 411,820
13 Claims. (Cl. 74—230.17)

1. An expansible V-pulley comprising a rotatable supporting element, a coned disc loosely mounted on said element, a mating coned disc mounted in facing relation to said first-named disc and movable axially and rotationally with respect to said element, said discs being fixed against relatively rotational movement, and means associated with said supporting element and positioned between elements respectively operatively associated with said respective discs



for translating rotational movements of said discs with respect to said supporting element into equal and opposite axial movements of said discs with respect to said supporting element, whereby the position of the median plane between said discs is maintained substantially constant during expansion and contraction of said pulley.

2,325,650
CIRCUIT BREAKER
Harold G. Baxter, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 2, 1941, Serial No. 421,301
19 Claims. (Cl. 200—116)

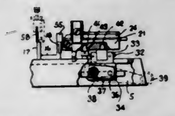


10. A circuit breaker comprising a contact member having a normally closed position, an operating member for manually moving said contact member to open position, means biasing the contact member and said operating member to closed position, said biasing means being effective upon release of the operating member to move both of said members to their closed positions, a second contact member engageable by said first mentioned contact member in the closed position thereof, said second contact member being biased to open position away from said first contact member, and a thermal element for releasably restraining said second contact member in closed position and operable when heated a predetermined amount to release said second contact member.

2,325,651
FILM SPLICING MACHINE
Jacob Bazell, Stapleton, Staten Island, N. Y., assignor to International Projector Corporation, New York, N. Y., a corporation of Delaware
Application May 4, 1938, Serial No. 205,895
13 Claims. (Cl. 154—42)

2. In a film splicer, a fixed bed and a movable

bed on which torn film may be inserted, means to cut out a precise amount of the torn film adjacent the tear, means to move the movable bed



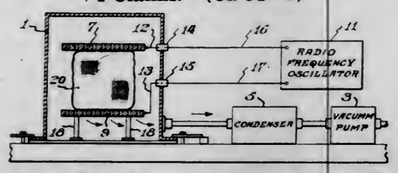
toward or away from the fixed bed and cam means to position the movable bed in either of its extreme positions.

2,325,652

DRYING METHOD

Rudolph A. Bierwirth, Haddon Heights, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application August 20, 1941, Serial No. 407,619
4 Claims. (Cl. 34—1)



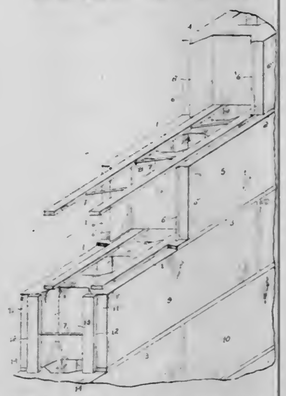
1. In the art of manufacturing rayon thread, the method of drying a moisture-laden rayon thread cake constituted by a thread wound on itself in a plurality of rows which comprises subjecting the cake to a partial vacuum such that water will evaporate therein at a temperature not exceeding 140° F., and, while said cake is under the influence of said vacuum, simultaneously subjecting all parts thereof to a high frequency electric field whereby all parts of said cake are heated as a result of the dielectirc losses therein to thereby expel the moisture therefrom.

2,325,653

WALL CONSTRUCTION

William A. Bingham, Euclid, Ohio

Application February 8, 1941, Serial No. 378,079
3 Claims. (Cl. 72—107)



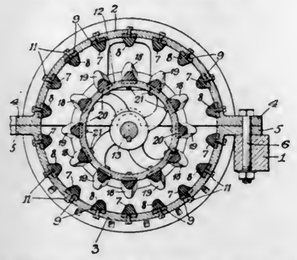
2. A spacing and sealing device for wall constructions comprising a pair of substantially parallel strips of water repellent material, and bendable means connecting said strips laterally whereby upon relative movement of said strips longitudinally lateral spacing thereof may be altered.

2,325,654

CORN SHELLER

Irvin E. Borchers, La Fayette, Ind., assignor to De Kalb Agricultural Association, Inc., De Kalb, Ill., a corporation of Delaware

Application December 23, 1939, Serial No. 310,842
1 Claim. (Cl. 130—6)



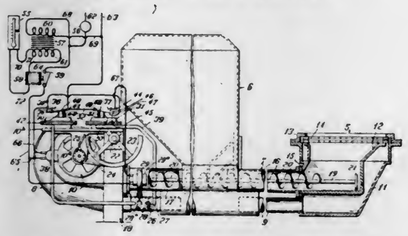
A corn sheller comprising two horizontally extending relatively movable hollow cone-shaped members, one within the other with a space between them, into which the ears of corn are received, a closing end wall at one end of said cone-shaped members for closing the end of the space between them, a side feed opening in said wall for feeding the ears of corn into the space between said cone-shaped members, a horizontal shaft to which the inner member is connected, continuous non-metallic flexible projections on said members extending longitudinally therealong and converging toward said shaft and projecting into the space between said members, the outer cone-shaped member being of metal, a portion of the inner metal face of which is exposed between the non-metallic flexible projections extending therealong, said projections elastically engaging the grains of corn while on the cob and rubbing them off the cob without any substantial damage to the grains of corn.

2,325,655

APPARATUS FOR BURNING FUEL

Robert E. Bressler, Oregon, Ill., assignor to Kol-Master Corporation, Oregon, Ill., a corporation of Illinois

Application June 21, 1941, Serial No. 399,111
11 Claims. (Cl. 110—101)



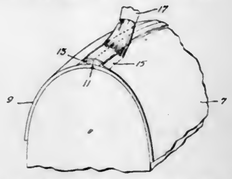
1. Apparatus for substantially continuously power burning solid fuel in cycles each having a plurality of fixed rates, one faster than the feeding rate and another slower than the feeding rate during a burning period of the apparatus and embodying therein a retort for supporting a fuel bed, means for feeding fuel to the retort, an air duct leading to the retort, means for moving air through the air duct, means for driving said fuel feeding means and said air moving means, a damper associated with the air duct and having relatively heavy and relatively light air resistance positions, said driving means being adapted to drive said fuel feeding means to feed fuel to the retort at a rate faster than the burning rate of the fuel bed when the damper is in its relatively heavy air resistance position, means operative upon a predetermined increase in air pressure in said duct to move the damper to a relatively light air resistance position whereby the fuel bed is burned at a rate faster than the feeding rate, and means operative when the pressure of the air in the air duct reaches a predetermined lower pressure condition to deenergize said driving means so that it slows down and so drives the air moving means as to produce a still lower pressure in said duct to return the damper to said relatively heavy air resistance position and thereby reenergize said driving means to initiate another burning cycle.

2,325,656

REINFORCING SHOE PARTS

John J. Brophy, Salem, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Application November 28, 1940, Serial No. 367,493
1 Claim. (Cl. 12—146)



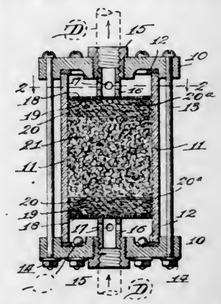
The method of reinforcing the back seam joining the quarters which form the rear portion of the upper of a shoe prior to incorporating the rear portion in a shoe, the back seam having a seam ridge which projects from the unfinished side of the upper, said method comprising turning the said rear portion of the upper wrong side out to give easy access to the seam ridge, applying over the seam ridge and the closely adjacent portions of the quarters only a reinforcing material in flowable form, and causing the material to solidify into a tough, flexible reinforcement which adheres to the seam ridge and to the adjacent portions of the quarters on each side of said ridge.

2,325,657

COMBINED FILTER, DEHYDRATOR, AND INDICATOR

Neal B. Burkness, Los Angeles, Calif.

Application May 13, 1940, Serial No. 334,839
6 Claims. (Cl. 210—134)



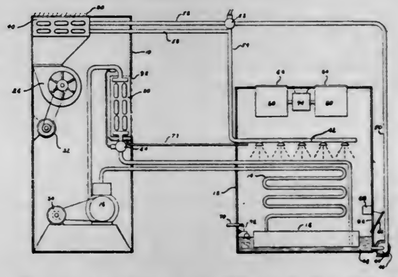
1. In a combined filter, dehydrator and indicator, a pair of heads, each having an opening, a transparent wall between said heads, perforated tubes seated in said heads around the openings therein and projecting into the chamber formed by said heads and transparent wall, interchangeable perforated plates removably positioned against the inner ends of said perforated tubes and interchangeable filtering bodies supported by said perforated plates.

2,325,658

REFRIGERATING APPARATUS

Robert R. Candor, Oakwood, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware

Application December 30, 1940, Serial No. 372,226
6 Claims. (Cl. 62—6)



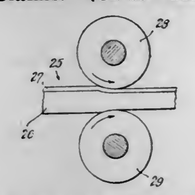
1. In combination an evaporator, means for circulating air to be conditioned in thermal exchange with said evaporator, means for reheating said air, refrigerant liquefying means for supplying liquid refrigerant to said evaporator, said refrigerant liquefying means comprising a compressor and a condenser, means for spraying cooling water over said condenser, means for circulating air in thermal exchange with said condenser and said spray water, means for circulating a portion of said water through said reheat means, and humidity responsive means for controlling the flow of air over said condenser.

2,325,659

COMPOSITE METAL STOCK

Thomas B. Chace, Winnetka, Ill., assignor to Clad Metals Industries, Inc., Chicago, Ill., a corporation of Illinois

Application October 30, 1939, Serial No. 301,978
2 Claims. (Cl. 29—181)



1. Composite metal stock comprising a layer of high conductivity copper fusion bonded to a layer of chromium ferrite and characterized by the thickness of the layer of alloy comprising 5% to 20% of the thickness of the stock, said chromium ferrite consisting of from 5% to 22% chromium, not to exceed 0.12% carbon and the remainder iron with any other ingredients not to exceed 1.0%, said stock having the ability to withstand severe reductions by hot rolling within the range of approximately 1600° F. to 1100° F. and to anneal for cold rolling within the range of approximately 1400° F. to 1450° F.

2,325,660
ELECTRODEPOSITION OF MANGANESE AND CATHODE THEREFOR
Harold L. Chamberlain, Knoxville, Tenn., assignor to Electro Manganese Corporation, Minneapolis, Minn., a corporation of Delaware
No Drawing. Application January 2, 1941, Serial No. 372,827
5 Claims. (Cl. 204—12)

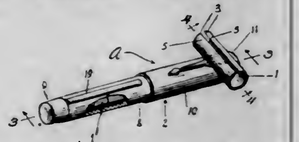
1. A cathode adapted for the electrolytic deposition of a brittle metal thereon and the ready removal of said deposit therefrom, said cathode being in sheet form, having a substantially planar surface, sufficiently free from stresses to prevent warping, sufficiently resilient to permit flexing without permanent deformation, sufficiently inert to prevent substantial contamination of the electrolyte and manganese deposit, said cathode being an annealed, surface ground, cold rolled and surface polished alloy having the composition; chromium 17 to 19 per cent, nickel 11 to 13 per cent, molybdenum 2 to 4 per cent and the balance iron.

2,325,661
FILTER FOR INVERTED PUMPS
Roy L. Chenault, Oakmont, Pa., assignor to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware
Application December 10, 1942, Serial No. 468,583
5 Claims. (Cl. 103—180)



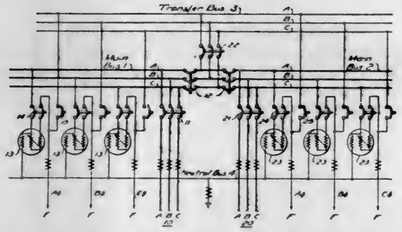
1. In an inverted deep well pump, a valved plunger and a barrel reciprocable thereon, packing in the clearance space between said plunger and barrel, sand scraper means in advance of said packing, a duct opening into the clearance space above and below said sand scraper means, and a filter in said duct.

2,325,662
RAZOR
Oliver H. Clarke, Washington, D. C.
Application June 27, 1942, Serial No. 448,791
9 Claims. (Cl. 30—35)



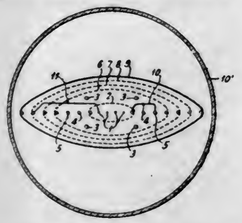
3. A safety razor blade formed from a single piece of blade material rolled to form a tube having a slot extending longitudinally thereof, and defined by the opposing edges of said material, said opposing edges having their under surfaces beveled and being arranged with respect to each other in such a manner that said blade will cut in either direction with the non-cutting edge serving as a guard for the cutting edge.

2,325,663
SYSTEM OF ELECTRIC POWER DISTRIBUTION
Glen L. Claybourn, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application February 13, 1942, Serial No. 430,704
8 Claims. (Cl. 171—97)



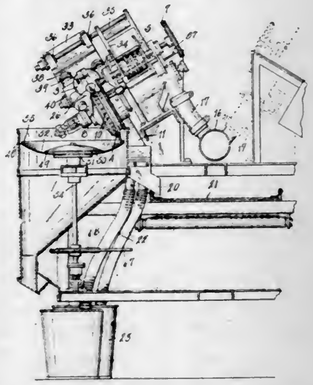
8. In a system of distribution, in combination, a main bus, a transfer bus, a feeder circuit, a regulator for the feeder circuit, a two-pole circuit breaker unit for connecting the feeder circuit to the main bus in series-circuit relation with the regulator, and a single-pole circuit breaker unit for connecting the feeder circuit to the transfer bus, said regulator being connected to the main bus through one pole of the two-pole breaker unit and to the feeder circuit through the other pole of the two-pole breaker unit, thereby isolating said regulator from the main bus and the feeder circuit when the two-pole breaker is open, the two poles of the two-pole breaker unit being operable simultaneously and the single-pole breaker unit being operable independently of the two-pole breaker unit.

2,325,664
ELECTRON DISCHARGE DEVICE
Henny Cohn, Eindhoven, Netherlands; vested in the Alien Property Custodian
Application December 2, 1941, Serial No. 421,287
In the Netherlands April 9, 1940
5 Claims. (Cl. 250—27.5)



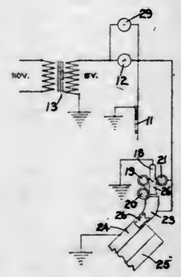
1. An electron discharge device having a cathode surrounded by a first control grid and an anode, oppositely disposed electrodes positioned on opposite sides of the cathode and between the control grid and anode and a second control electrode surrounding said cathode, first control grid and oppositely disposed electrodes, and auxiliary electrodes positioned between the oppositely disposed electrodes and the second control electrode and adapted to be maintained at a potential not greater than that of the first control electrode during operation of the electron discharge device.

2,325,665
SORTING MACHINE
David C. Cox, Grand Rapids, Mich., assignor to Electric Sorting Machine Company, Grand Rapids, Mich., a corporation of Michigan
Application January 13, 1941, Serial No. 374,224
32 Claims. (Cl. 209—73)



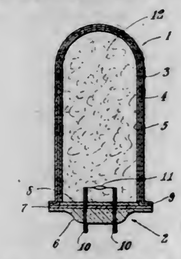
30. In a sorting machine, the combination of a rotary conveyor provided with a series of spaced suction orifices, light sensitive means operatively associated with said conveyor and operative to classify articles conveyed thereby, and a feed means operatively associated with said conveyor to present articles to the point of pick-up of the conveyor in a substantially continuous layer traveling tangentially of said point of pick-up of the suction orifices of the conveyor and with the articles of said layer contacting one another in the direction of tangential travel adjacent said pick-up point.

2,325,666
SIGNALING DEVICE
Robert S. Czachorski, Grand Rapids, Mich.
Application March 13, 1942, Serial No. 434,465
2 Claims. (Cl. 199—43)



1. A typographical machine having a plurality of magazines each adapted to receive matrices of like character, a matrix distributor comprising a distributor box for receiving matrix lines, a matrix receiving chute disposed above each magazine in electrically insulated relation with respect to its magazine, a distributor bar for distributing the matrices to their proper magazines, a member movable from a normal position to a position for advancing the matrices from the distributor box to the distributor bar, a signal, and controlling circuits therefor, one of said circuits having a switch therein normally maintained in open position by said matrix advancing member but adapted to close upon movement of said member from normal position and during the matrix advancing operation of said member, another of said circuits being connected to the several chutes and normally open but rendered closed by a matrix when in contact with a magazine and its chute.

2,325,667
FLASH LAMP
Jan Hendrik de Boer, London, England, assignor to The Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application February 15, 1943, Serial No. 475,952
In Great Britain May 15, 1941
7 Claims. (Cl. 67—31)



1. A flash lamp comprising a container, combustible material within said container, a combustion-supporting gas within said container, and means for igniting said material, said container comprising a layer of a transparent organic material, and a sealing layer of regenerated cellulose covering said first layer.

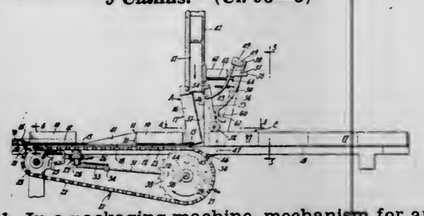
2,325,668
COMPOSITE MATERIAL
Camille Dreyfus, New York, N. Y.
No Drawing. Application November 8, 1940, Serial No. 364,887
6 Claims. (Cl. 154—45.9)

1. A composite material for use in the manufacture of vehicle bodies comprising at least one layer of plastic material each having a thickness of from 0.1 to 0.5 inch laminated in alternation with at least an equal number of layers of metal each having a thickness of from 0.015 to 0.05 inch, to provide at least one external protective layer of metal.

2,325,669
LAMINATED WOOD PRODUCT
Camille Dreyfus, New York, N. Y.
No Drawing. Application November 9, 1940, Serial No. 365,042
3 Claims. (Cl. 154—45.9)

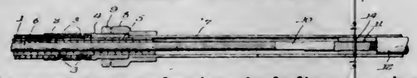
1. A composite material for use in the manufacture of furniture and the like comprising at least one layer of wood laminated with at least one layer of an organic plastic material of a thickness of 0.1 to 2 inches, the thickness of the plastic material being greater than that of the wood.

2,325,670
PACKAGING APPARATUS
Arthur B. Erekson, Plymouth, Wis., assignor to The Borden Company, New York, N. Y., a corporation of New Jersey
Application July 26, 1941, Serial No. 404,175
9 Claims. (Cl. 93—3)



1. In a packaging machine, mechanism for applying a telescopic cover to a container, said mechanism comprising means for advancing the container, means for holding a cover in position at substantially right angles to the container to receive the leading side of the container during its advancing movement, means for moving the cover into telescopic relationship to the container by a tilting action, said last-named means comprising a yieldable element arranged to bear lightly against the top of the cover while the cover is carried forward by the container and a second yieldable element arranged to bear against the first yieldable element to apply increased pressure against the top of the cover at the end of its movement into telescopic engagement with the container.

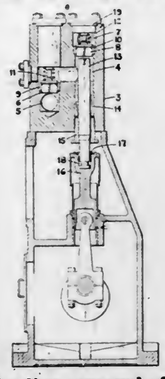
2,325,671
CONTROL MECHANISM
William R. Gerry, Kalamazoo, Mich., assignor to Shakespeare Products Company, Kalamazoo, Mich., a corporation of Michigan
Application November 18, 1941, Serial No. 419,606
4 Claims. (Cl. 74—501)



1. A control mechanism, including a casing, a flexible movable member received therein, an inflexible shank connected to one end of said movable member having a cross-sectional size passable through said casing, a sleeve removably engaged with one end of the casing and normally over a portion of said movable member and said shank, the inner diameter of the sleeve being greater than that of the casing, and a rod snugly and slidably received in said sleeve detachably connected to said shank.

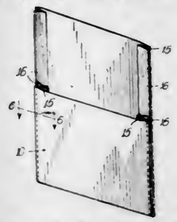
2,325,672
RECIPROCATING PLUNGER PUMP
Joseph C. Groff, Allentown, Pa.
Application February 8, 1941, Serial No. 378,000
2 Claims. (Cl. 103—153)

1. In a vertical reciprocating plunger pump having a reciprocating driving member, and including in combination a fluid-end construction having a substantially vertically extending bored out portion, a vertically acting plunger working within said bored out portion and disconnectably attached to said reciprocating driving member, a stuffing box including compressible packing in the lower portion of said bore through which the lower end of the plunger works, a removable discharge valve near the upper end of said bore and above the top of the plunger, said valve having valve seating portions having an inner bore laterally guiding the discharge valve and of a diameter exceeding the diameter of the portion of the plunger which slides through the stuffing box, said valve seating portions comprising a valve seat insert in said fluid end, a removable retaining cover for said discharge valve, the aforesaid



construction affording removal of the plunger upwards and out through the inner bore of the valve-seat portions of the discharge valve with said seat insert in place in the fluid end following removal of the valve and valve cover and following the disconnection of the plunger from the reciprocating driving member.

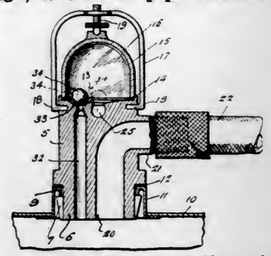
2,325,673
TOBACCO POUCH AND METHOD OF MAKING SAME
Irving Gurwick, Mount Vernon, Ohio, assignor to Shellmar Products Company, Mount Vernon, Ohio, a corporation of Delaware
Application June 27, 1940, Serial No. 342,643
2 Claims. (Cl. 229—87.5)



1. A container of the type described, comprising a body portion composed of an outer protective layer and an inner layer of thermoplastic rubber hydrochloride folded into pouch formation along an intermediate transverse line, the outer portions of each side of said pouch being folded inwardly and then outwardly to provide three outwardly extending portions, and the edges of said portions being thermally sealed.

2,325,674
SUCTION CONTROLLED FILLING ATTACHMENT FOR TRACTOR FUEL TANKS
August W. Gustafson, Hutto, Tex., assignor, by direct and mesne assignments, of one-half to Gus R. Lundelius, Round Rock, and one-fourth to Charles V. Lansberry, Round Tree, Tex.
Application May 23, 1940, Serial No. 336,862
5 Claims. (Cl. 226—116)

5. A filler connector for fuel tanks of motor vehicles comprising a body member having a concaved upper surface and adapted for air tight engagement with the tank, a member mounted on the body having a concaved underside providing a chamber on top of the body, said body having a passage communicating with the chamber at the lowermost point of the concaved surface of the body, said body having a second passage providing communication between the tank and the chamber at a point in the upper surface of the body above the horizontal plane of said first passage, a suction pipe connected to the

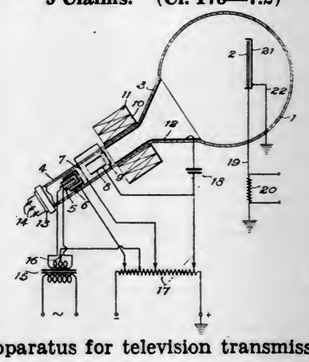


first-named passage for evacuating air from the tank and from the chamber, said body also having a fuel passage, a pipe connecting said fuel passage with a source of supply for feeding fuel to the tank by the suction created in the chamber and a captive valve in the chamber normally closing the second passage in the body and adapted to be unseated from said second passage for gravitating into position for closing said first named passage by fuel rising in the second named passage.

2,325,675
LIQUID TREATMENT
Hilding B. Gustafson, Chicago, Ill., assignor to Infilco Incorporated, Chicago, Ill., a corporation of Delaware
No Drawing. Application February 10, 1941, Serial No. 378,251
10 Claims. (Cl. 210—24)

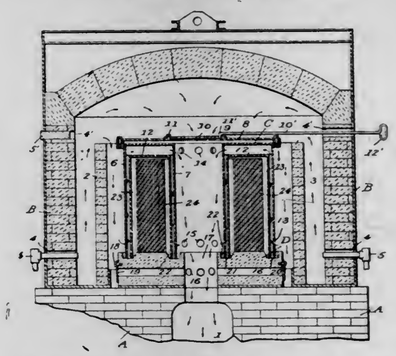
1. The method of treating alkaline water comprising first treating the raw water with a hydrogen zeolite, subsequently adding a coagulant, and thereafter separating the water and coagulated solids.

2,325,676
CATHODE RAY TUBE DEVICE
Gerard Hepp and Jan van der Mark, Eindhoven, Netherlands; vested in the Alien Property Custodian
Application February 2, 1942, Serial No. 429,226
In the Netherlands September 22, 1939
5 Claims. (Cl. 178—7.2)



1. Apparatus for television transmission comprising an evacuated envelope, electron gun means within said envelope to develop an electron beam, a target electrode positioned and adapted to develop secondary electrons when scanned by said beam, an electrode exposed to said target between said target and said electron gun electrically disconnected over a direct current conducting path with other structure within and without said envelope, and means enclosing the surface of said target electrode not directly exposed to said beam to collect secondary electrons liberated by said target and prevent such collection by the said surface of said target.

2,325,677
ANNEALING FURNACE
Clarence B. Hoak, Steubenville, Ohio
Application January 23, 1940, Serial No. 315,234
2 Claims. (Cl. 266—5)

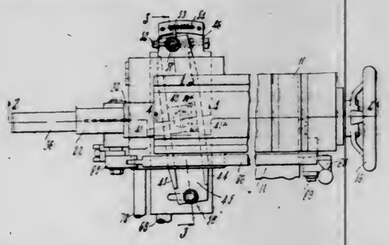


1. In an annealing furnace having a base and a removable insulating cover, a muffle supported on the furnace base and within the insulating cover, the muffle including a base and a removable cover, the muffle base having a vertical opening and horizontal passages leading therefrom to the margin of the base and the removable cover having a passage therethrough and a surrounding chamber to receive and enclose the material to be operated upon, the cover passage being arranged for communication with the interior of the furnace, to receive heating or cooling currents therefrom, and with the vertical opening in the base, a member operable relative to the end of the passage in the cover for forming or cutting off communication with the interior of the furnace and controlling the flow of currents from the interior of the furnace to and through the passage, and members mounted on the margin of the base and operable to open or close the ends of the horizontal passages at the margin of the base.

2,325,678
BACKLASH TAKE-UP FOR CROSS FEED SCREW AND TAPER ATTACHMENTS
Morris P. Holmes, Claremont, N. H., assignor to Jones & Lamson Machine Company, Springfield, Vt., a corporation of Vermont
Application August 18, 1942, Serial No. 455,210
4 Claims. (Cl. 82—17)

1. In a lathe having a bed, a traversing carriage movable along said bed, a cross slide supported on said carriage, means comprising a feed screw and cooperating nut for feeding said cross slide independently of the motion of said carriage, means comprising a former cam and follower for

feeding said cross slide as said carriage traverses, means for selecting which of said feeding means comprising a former cam and follower for at any one time, means for taking up back-lash



between said cam and follower, and operative connections causing taking up of back-lash between said cam and follower to also take up backlash between said screw and nut.

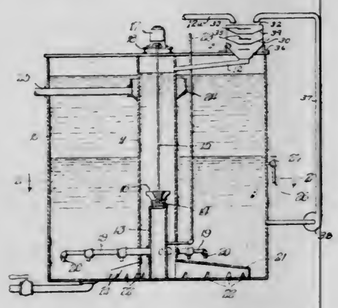
2,325,679

STABILIZATION OF LIQUIDS

Walter J. Hughes, Chicago, Ill., assignor to Infilco Incorporated, a corporation of Delaware

Original application June 5, 1936, Serial No. 83,662, now Patent No. 2,245,587, dated June 17, 1941. Divided and this application August 22, 1940, Serial No. 353,637

8 Claims. (Cl. 210—16)



1. The process of stabilizing water containing calcium bicarbonate, which comprises establishing a zone of slurry containing water and suspended particles of calcium carbonate collected from a relatively large volume of previously treated water, passing slurry from said zone through a turbulent mixing zone, producing a condition of supersaturation of the incoming unstabilized water with respect to dissolved calcium carbonate by removing therefrom dissolved carbon dioxide, passing said supersaturated water through said mixing zone with said slurry to effect precipitation of calcium carbonate in the presence of said particles of calcium carbonate in said slurry, passing the resulting mixture back into said zone of slurry, displacing clarified water upwardly out of said zone of slurry, withdrawing such clarified water from above said body of slurry, and imparting substantial energy to said slurry in addition to any energy imparted thereto by the incoming water to produce turbulence in said mixing zone, to maintain the particles in said slurry in suspension, and to recirculate substantial quantities of slurry through said mixing zone.

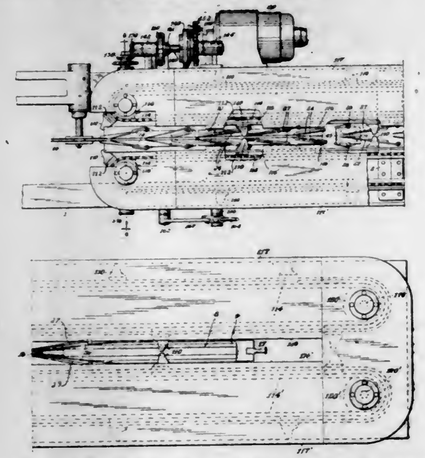
2,325,680

FILLETING MACHINE

William H. Hunt, National City, Calif., assignor to The Atlantic Coast Fisheries Company, New York, N. Y., a corporation of Maine

Application January 21, 1942, Serial No. 427,549

16 Claims. (Cl. 17—4)



1. In a fish filleting machine having means to form an incision in the back of the fish on each side of and adjacent the backbone thereof, means to push a fish, tail leading and back downward, to said incision-making means, and a centering trough through which the fish is pushed and wherein the fish is centered so that it is fed to the incision-making means in proper position, said centering trough having a channel to guide the tail feather of the fish, means to position the fish in a vertical direction, means to engage the fish on opposite sides thereof to maintain the fish substantially vertically, and means to guide the tail feather and dorsal fin thereof.

2,325,681

PROCESS FOR PRODUCING CONDENSATION PRODUCTS OF 1,4-NAPHTHOHYDROQUINONES

Otto Isler, Basel, Switzerland, assignor to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey

No Drawing. Application August 12, 1940, Serial No. 352,336. In Switzerland August 31, 1939

1 Claim. (Cl. 260—479)

Process for the manufacture of a condensation product, comprising condensing 2-methyl-1,4-napthohydroquinone with acetyl-phytol in presence of an acid condensing agent.

2,325,682

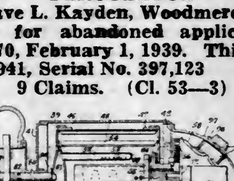
METHOD OF MAKING PREWELT SHOES

Adrien L. Jalbert, Haverhill, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Original application June 16, 1941, Serial No. 398,291. Divided and this application November 28, 1941, Serial No. 420,835

12 Claims. (Cl. 12—142)

1. That improvement in methods of making prewelt shoes which consists in assembling a sole with a prewelt shoe upper off a last by bending the sole lengthwise to shorten it, inserting the upper and welt into a channel in the edge face of the sole, releasing the sole to permit it to straighten and to assume its full length, attaching the sole to the upper by fastening means including stitches which pass through the sole and



the welt, thereby completing the assembly and attachment of the shoe parts while off a last, and utilizing an expansible member for shaping the upper as desired around the entire shoe.

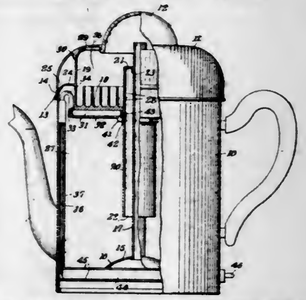
2,325,683

COFFEE ROASTER AND PERCOLATOR

Gustave L. Kayden, Woodmere, N. Y.

Application June 9, 1939, Serial No. 278,259

12 Claims. (Cl. 53—3)



1. In a coffee roasting and brewing apparatus, a water compartment, a cup for receiving a quantity of raw ground coffee adjacent said compartment, means within the cup providing a substantial heat-distributing area in the interior of the cup to aid in roasting the coffee which is out of contact with the walls of the cup, a tube communicating with the water compartment and with the cup, and heat responsive means for controlling the communication of said tube with said compartment.

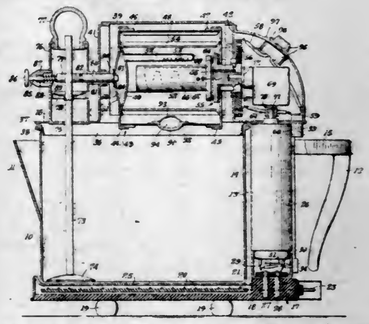
2,325,684

COMBINED COFFEE ROASTER AND PERCOLATOR

Gustave L. Kayden, Woodmere, N. Y.

Substituted for abandoned application Serial No. 253,970, February 1, 1939. This application June 7, 1941, Serial No. 397,123

9 Claims. (Cl. 53—3)



1. In apparatus of the character described,

container means for agitating and roasting raw ground coffee including heating means, a water container below the container means, means for heating the water container, means for adjusting one of said heating means relatively to the other heating means so that the water in the container begins to boil at the same time that the roasting of the coffee in the container means is completed, and means communicating with the container means and the water container for percolating the roasted coffee in the container means.

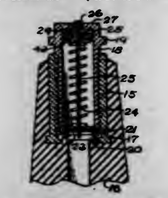
2,325,685

AIR VALVE

Arthur Keefe, Akron, Ohio

Application February 20, 1940, Serial No. 319,939

10 Claims. (Cl. 277—42)



3. A capless air valve, comprising in combination, an internally threaded tubular member, an externally threaded thimble removably disposed in said member and radially constricted at its upper end to provide an air conducting aperture therein, packing interposed between said thimble and said member and providing an air seal therebetween, a valve pin mounted for axial movement in said thimble, a valve on the upper end of said valve pin and having a portion normally substantially closing said aperture against the objectionable entrance of dust and water into said thimble, and means in and supported by said thimble for yieldingly supporting and maintaining said valve in its closed position.

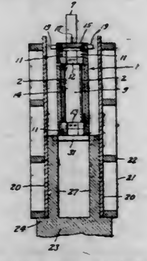
2,325,686

CORE FOR CONCRETE MOLDS

Clarence A. Kerr, Kent, Wash.

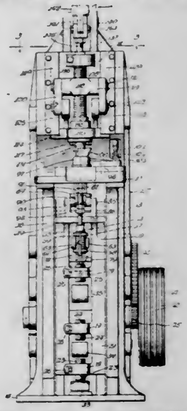
Application December 14, 1942, Serial No. 468,967

4 Claims. (Cl. 25—128)



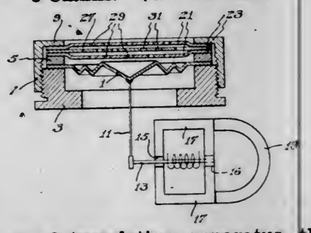
1. A core for use in upright position between side forms comprising a pair of opposed rectangular side wall members spaced apart laterally, and having upright ends, transverse cleats on the inner faces of said members extending along each end of the members and providing opposed pairs at each end of the core, a pair of flat spacer bars interposed between the pairs of cleats, respectively, parallel therewith and extending above the upper edges of said members to provide handles, and means intermediate the side members for detachably connecting the same to said spacer bars.

2,325,687
PRESS FOR FORMING TABLETS AND THE LIKE
Albert S. Kux, Chicago, Ill.
Application October 3, 1940, Serial No. 359,581
11 Claims. (Cl. 18—16)



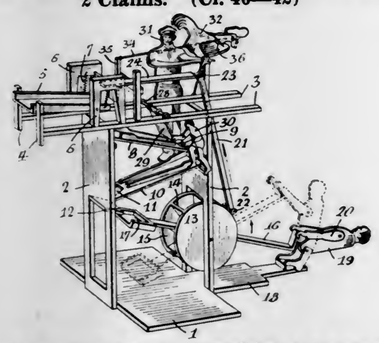
1. In a machine for compressing material into tablet form having a boss or projection of substantial length on both sides thereof providing a tablet having portions of varying thickness, a forming chamber, compression elements having sections movable relatively to one another, means for moving said elements in said chamber toward each other to effect compression, and away from each other, means for delivering into said chamber and between said compression elements material in excess of the volume of material contained in the finished product, means for causing one of said elements to eject the material before compression thereof, additional means for further actuating a section of one of said elements to exert an additional pressure upon the tablet to further compress it in the zone of its greatest thickness, after the compression elements have reached the limit of their initial compression movement in said zone and while the remaining portion of the tablet is maintained under a constant and unyielding pressure.

2,325,688
SOUND TRANSLATING APPARATUS
Daniel O. Landis, Upper Darby, Pa., assignor to Radio Corporation of America, a corporation of Delaware
Application May 31, 1940, Serial No. 338,071
3 Claims. (Cl. 179—184)



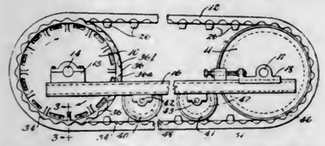
2. In sound translating apparatus, the combination of an acoustic diaphragm, means vibratively supporting said diaphragm adjacent its periphery for relatively small displacements thereof in response to acoustical energy, a cover structure carried by said means in spaced relation to said diaphragm, said cover structure comprising a pair of dished, oppositely disposed plates having their marginal portions in adjacent relation and their central portions substantially spaced from each other, said central portions each having a plurality of openings therein constituting ports for passage of air waves between the atmosphere and said diaphragm, and a double acting flap valve clamped between the marginal portions of said plates, said valve also having a plurality of openings therein in staggered relation to the openings of said plates, said valve being made of a resilient material and being effective to cooperate with either one or the other of said plates upon an excessive change in pressure in front of said apparatus to close off the openings therein and thereby to shut off the flow of air between the exterior of said apparatus and said diaphragm whereby to protect said diaphragm against relatively large displacements.

2,325,689
ANIMATED TOY
Edmond Le Blanc, Montreal, Quebec, Canada
Application December 17, 1942, Serial No. 469,283
2 Claims. (Cl. 46—42)



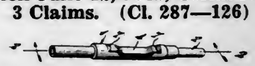
1. An animated toy comprising a frame structure, a series of intercommunicating chutes supported thereby and sloping downwardly from each other in downward succession, a balanced beam journalled in said structure and having one end beneath the lower end of the lowest chute, a receptacle on said end of said beam and adapted to receive a member rolling off the lowest chute, a selective release and stop member at the lower end of the uppermost chute, and a link connecting said beam to said stop member and adapted to operate said stop member, a flexible animal figure carried by said link, strings connecting parts of said figure to said structure, whereby motion of the link imparts movement to the said figure.

2,325,690
DRIVING APPARATUS FOR CRAWLER TYPE VEHICLES
Charles W. Leguillon, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application May 31, 1941, Serial No. 395,951
5 Claims. (Cl. 305—10)



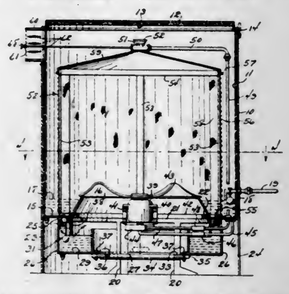
1. Driving apparatus for a self-laying track-type vehicle, said apparatus comprising a driving wheel and a flexible endless track comprising an extensive flexible tension-resisting element extending along said track, said track being trained about said wheel, said wheel and track each having a plurality of surface portions cooperable in pairs, one of the pair being on the wheel and the other on the track and the surface portions of the pair being inclined obliquely to a plane tangential to the wheel at the surface portions during engagement in a manner to drive the track and also to support the track upon the wheel both through the engagement of the same pair of surface portions and to provide engagement of such surface portions by a wedging action tending to urge the track outwardly from the wheel and thereby tending to impose increased tension in the track under the driving force.

2,325,691
PIN AND SOCKET CONNECTION
Max Litwin and Bertram Milner, Cincinnati, Ohio, assignors to Litwin & Sons, Cincinnati, Ohio, a corporation of Ohio
Application June 12, 1942, Serial No. 446,782
3 Claims. (Cl. 287—126)



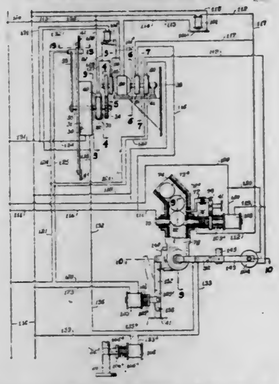
1. In a pin and socket connection, a socket of generally tubular configuration having a longitudinal slot in the outer casing thereof, a resilient strip spring element suspended across said slot and depending into the interior of the socket and tangs positioned on the outer surface of the casing at both ends of the slot, said tangs engaging the ends of the spring element and maintaining the same securely in position against movement in any direction.

2,325,692
AIR CONDITIONER
Guy R. Maddox, Borger, Tex.
Application September 19, 1941, Serial No. 411,562
4 Claims. (Cl. 261—29)



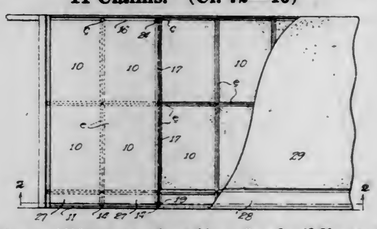
1. An air conditioner, comprising a shell having an air outlet at its upper end, an inlet disposed co-axial with the shell at the bottom and forming a water tank therearound, an electric fan in the inlet, means for maintaining a predetermined water level in the tank, an evaporating cylinder in the shell and extending into the tank, means for supplying water to the upper end of the evaporating cylinder, a water pan below the bottom of the shell, a screen between the top of the pan and the bottom of the shell through which air is drawn by the fan, and a baffle wall extending downwardly from the bottom of the shell into said pan to cause the air to travel downwardly and then upwardly through the air inlet of the shell.

2,325,693
GAME DEVICE
Meyer M. Marcus, Cleveland Heights, Ohio
Application April 11, 1941, Serial No. 388,116
2 Claims. (Cl. 194—6)



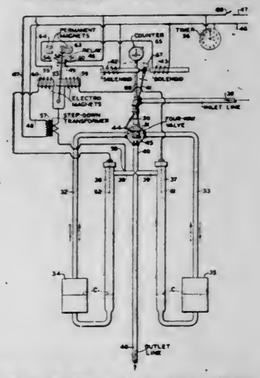
1. In an amusement game device, a coin operated lock and playing period timer therefor, comprising in combination, a major electric circuit having a coin operated switch member therein and including an electric motor controlled by a relay operated by the said member; and minor electric circuits each having an electric switch therefor operated by the said motor, the first of the said minor circuits operating a means for removing a coin from the said coin operated switch member, the second of the said minor circuits short-circuiting the aforesaid member in a manner whereby the said relay will continue to control the said electric motor after a coin is removed from the said member, and the third of the said minor circuits opening the aforesaid lock and simultaneously operating a meter for measuring a playing period of the game.

2,325,694
WALL AND PARTITION CONSTRUCTION
Allen F. Marshall, Dallas, Tex.
Application September 25, 1941, Serial No. 412,261
11 Claims. (Cl. 72—46)



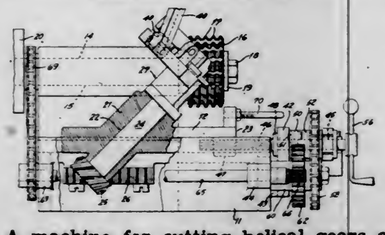
4. A partition construction for buildings, floor and ceiling rails having substantially V-shaped and longitudinally extending ribs provided with spaced apertures, extensible studs vertically disposed between said rails having means entering the apertures of the latter to hold the same against displacement, said studs likewise having V-shaped ribs, means carried by an end of each stud to forcibly effect elongation thereof and to impose longitudinal compression therein whereby to sustain the said rails by frictional contact with the floor and ceiling, and wall units having V-shaped edges corresponding with the ribs of said rails and studs to hold the same in position therebetween and to complete the body of said partition.

2,325,695
FLUID METER
Jerry McAfee, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application August 22, 1941, Serial No. 407,948
6 Claims. (Cl. 73—219)



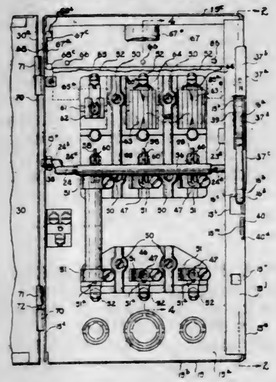
1. A device of the class described comprising, an inlet conduit and an outlet conduit for fluid the flow of which is to be measured, a valve disposed between and connected to said conduits which is operative to block the flow of fluid from the inlet to the outlet conduit, a U-tube containing heavy liquid and having one leg in communication with said outlet conduit at all times during operation of said device, means including said valve for directing fluid from the inlet conduit into the other leg of the U-tube to decrease the liquid level in said other leg and increase the liquid level in said one leg and for directing fluid back from said other leg into the outlet conduit under pressure due to the difference in liquid level in said legs, and means responsive to changes in the level of said heavy liquid in the U-tube for operating said valve to alternate the flow of said fluid into and from the U-tube.

2,325,696
GEAR CUTTING MACHINE
Julian C. Meier, Detroit, Mich.
Application August 20, 1940, Serial No. 353,404
7 Claims. (Cl. 90—9)



1. A machine for cutting helical gears comprising a base, a support mounted on said base for rectilinear movement, a milling cutter arranged to rotate about a fixed axis parallel with the direction of movement of said support, a rotatable support for a gear blank and rotatable about an axis disposed at an oblique angle diagonally to the axis of rotation of the cutter equal to the helix angle of the gear to be cut, means operatively responsive to movement of said first-named support to rotate said second-named support, and drive means for moving said first-named support intermittently.

2,325,697
ELECTRIC SWITCH
Ralph A. Millermaster and Alex A. Writzmann, Milwaukee, Wis., assignors to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application October 30, 1941, Serial No. 417,106
8 Claims. (Cl. 200—50)

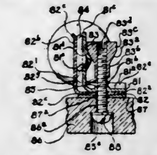


1. A front-side operated safety switch comprising a sheet metal housing having bottom, side and end walls and a hinged cover, quick make and break mechanism comprising elements supported upon the inner surface of one side wall of said housing and including a pivoted handle projecting upwardly beyond the upper edge of said side wall, a bail member having a straight end portion insertable outwardly a substantial distance beyond the opposite side wall of said housing through a bearing opening in the latter, the opposite end portion of said bail member having a bearing opening formed therein and one element of said quick make and break mechanism having a stud for cooperation with said last mentioned bearing opening upon endwise bodily movement of said bail member in a reverse direction, associated means to retain said bail member in assembled position, a switch unit comprising an insulating base having at least one set of stationary and movable contacts attached thereto, each movable contact being pivotally supported upon said base, and the same having a notched insulating plate attached thereto for hooked engagement with the intermediate portion of said bail member for operation by the latter into and out of engagement with its associated stationary contact, said insulating base with its attached switch contacts being insertable into and removable from said housing independently of said bail member.

2,325,698
FUSE CLAMP
Ralph A. Millermaster, Whitefish Bay, and Alex A. Writzmann, Milwaukee, Wis., assignors to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Original application October 30, 1941, Serial No. 417,106. Divided and this application December 11, 1942, Serial No. 468,616
15 Claims. (Cl. 200—134)

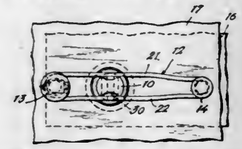
1. In a support for blade-type fuse terminals, in combination, a pair of elements formed of strip sheet metal and bent to substantially L-shape in vertical cross section, the base portion of one element being positioned upon the base portion of the other and rigidly connected thereto, the vertical portions of said elements being normally

spaced apart to accommodate a fuse blade terminal therebetween, the vertical portion of the upper element being bent to provide an integral cam surface projecting downwardly and laterally over the base portion thereof, a bolt having its threaded shank projecting upwardly through the base portions of said elements to rigidly attach



the same to a suitable support, and a nut having threaded engagement with said shank for vertical adjustment relatively thereto, said nut having a peripheral cam surface for cooperation with the cam surface first mentioned to provide for movement of one of said vertical portions toward and from the other.

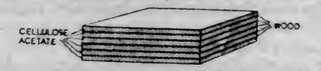
2,325,699
COWL FASTENER
Terence J. Moran, Freeport, N. Y.
Application October 12, 1942, Serial No. 461,812
2 Claims. (Cl. 24—221)



2. The combination with a member and a structure to which said member is adapted to be fastened, said structure having formed therein an opening; of a fastening means for said member comprising an elongated spring having yieldingly spreadable normally parallel spaced spring arms adapted to extend crosswise said opening, said spring being formed from a single length of wire, a coil at one end of said spring tending to resist spreading of said arms, said coil being formed by bending said length of wire intermediately of its ends, loops at the opposite end of said spring adapted to confine the spread of said arms within prescribed limits, said loops being formed by bending the wire length at its opposite ends, rivets fastened to said structure and extended one through said coil and the other through said loops to fasten said spring to said structure, the difference in diameter of the loops on the one hand and the shank of the rivet passing therethrough on the other hand determining the extent of spread accorded said arms, and a locking stud carried by and rotatable to lock and release said member, said stud having a shank portion tapered toward one end and insertible through said opening to engage between and yieldingly spread said arms due to said taper, said shank portion being provided on its nontapered sides with transversely extending grooves within which said spring arms are adapted to engage as said stud is rotated to lock said stud to said structure.

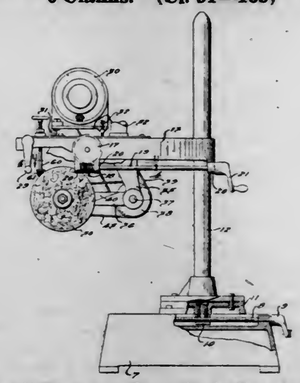
2,325,700
COMPOSITE MATERIAL
William Henry Moss, London, England, assignor to Celanese Corporation of America, a corporation of Delaware
Application April 25, 1939, Serial No. 269,867
In Great Britain May 10, 1938
3 Claims. (Cl. 154—45.9)

1. Reinforced thermoplastic material composed of layers of a thermoplastic composition, said composition having a basis of cellulose acetate, alternating with layers of wood of thick-



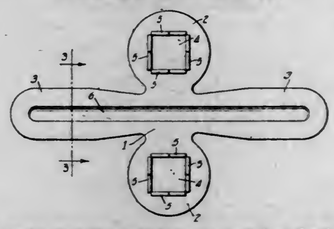
ness between 0.001 inch and 0.04 inch, the layers of wood being thinner than the layers of thermoplastic composition.

2,325,701
POLISHING MACHINE
Ernest E. Murray, Detroit, Mich.
Application July 22, 1940, Serial No. 346,730
6 Claims. (Cl. 51—166)



1. A polishing machine including in combination, a universally adjustable plate, a motor mounted on one side of said plate, means on the opposite side of said plate for supporting a polishing wheel, means drivingly interconnecting said motor and said polishing wheel, an adjusting screw for varying the distance of said polishing wheel from said plate, and means for releasing said adjusting screw to permit rapid bodily movement of said polishing wheel with respect to the work, said last named means including a split nut adapted to be positioned in embracing relationship to said screw, one of the split sections of the nut being pivotally mounted with respect to the other section.

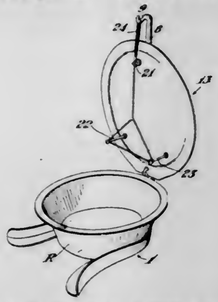
2,325,702
CLASP FASTENER
Abraham Novick, Flushing, N. Y., assignor to F. L. Smithe Machine Co., Inc., New York, N. Y., a corporation of New York
Application November 5, 1940, Serial No. 364,367
5 Claims. (Cl. 24—153)



1. A thin sheet metal arm and leg fastener for envelopes comprising a central body portion, a pair of attaching legs extending in opposite directions from the central body portion, each of said legs being provided with a plurality of attaching

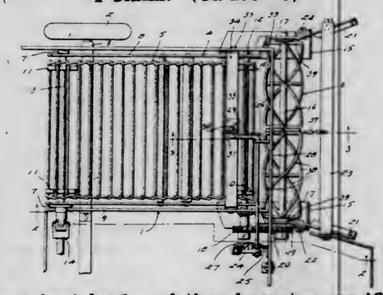
prongs, a pair of bendable arms also extending in opposite directions from the central body portion and at substantially right angles to the legs, the central part of said arms and body portion being bent downwardly to form an arm reinforcing ridge adapted to obviate undesired bending of the arms out of alignment with the central body portion.

2,325,703
RECEPTACLE FOR INFLAMMABLE FLUIDS
Edwin L. Nute, Wakefield, and Edward A. Willey, Malden, Mass., assignors to Converse Rubber Company, Malden, Mass., a corporation of Massachusetts
Application December 24, 1941, Serial No. 424,376
5 Claims. (Cl. 220—89)



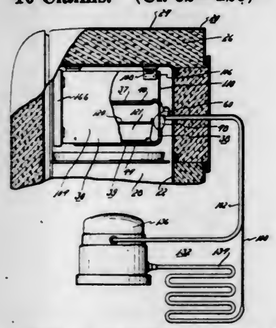
1. In combination with a receptacle for inflammable fluid, a base constituting a support for the receptacle, a mast rising from the base, a cover for the receptacle, hinge means for the cover permitting the latter to move from a receptacle-closing position to an upright open position, and a thin strand of rubber elastic, easily deteriorated by heat, having one end attached to the upper part of the mast, the cover having a pair of transversely spaced posts projecting outwardly to a substantial distancef rom its inner surface, the opposite end portion of the strand having a loop therein which embraces the posts, the strand normally holding the cover in upright open position, the parts being so constructed and arranged that when the strand is holding the cover open that portion of the loop which extends between the posts forms a transverse tensioned run which is held away from the inner surface of the cover and in the direct path of flames rising from the receptacle.

2,325,704
BEET LOADER
John F. Passa, Oslo, Minn., assignor to Edward P. Passa, Oslo, Minn.
Application October 17, 1941, Serial No. 415,473
1 Claim. (Cl. 198—9)



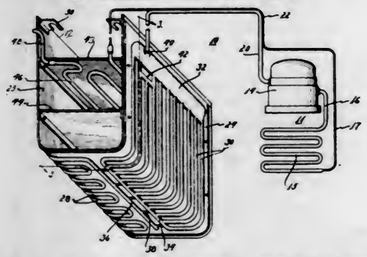
In a beet loader of the character specified, a main frame, supporting wheels for said frame, a carrier frame hinged at its rear end to said main frame and extending forwardly and downwardly at an inclination, an endless carrier mounted in the carrier frame, means for driving the endless carrier, runners fastened to the front end of the carrier frame, a spiral gatherer rotatably mounted on the carrier frame in front of the carrier, means for driving the gatherer from the front shaft of the carrier, adjustable shields hinged to the front end of the carrier frame and serving to guide and direct the beets toward the gatherer, and means for raising or lowering the front end of the carrier frame, the carrier and gatherer at will, the spiral gatherer, runners and front end of the carrier adapted to follow the surface of the ground under all conditions.

2,325,705
REFRIGERATING APPARATUS
Lawrence A. Philipp, Detroit, Mich., assignor to Nash-Kelvinator Corporation, Detroit, Mich., a corporation of Maryland
Application August 23, 1940, Serial No. 353,925
10 Claims. (Cl. 62—126)



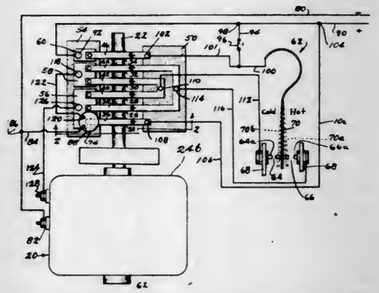
1. A refrigerant evaporating unit for refrigerating systems comprising sheet metal material united together to provide upper, rear and bottom walls and formed to provide a serpentine passage for refrigerant in the upper wall, parallel passages in the bottom wall and a header in the rear wall communicating with said parallel passages.

2,325,706
REFRIGERATING APPARATUS
Lawrence A. Philipp, Detroit, Mich., assignor to Nash-Kelvinator Corporation, Detroit, Mich., a corporation of Maryland
Application April 12, 1941, Serial No. 388,253
3 Claims. (Cl. 62—126)



1. A U-shaped refrigerant evaporator comprising two sheets of metal formed to provide a serpentine refrigerant conduit in one side and a portion of the bottom thereof, a plurality of refrigerant passages extending up the other side and across the remaining portion of the bottom, said refrigerant passages being provided at their upper ends with an outlet header and at their lower ends with an inlet manifold, and restricted passages for injecting refrigerant from said serpentine conduit into said inlet manifold.

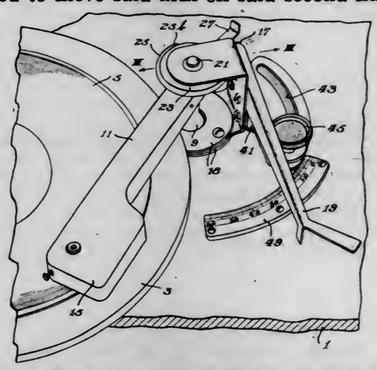
2,325,707
MEANS AND METHOD FOR CONTROLLING MOTIVE FORCES
Robert A. Preston, Pasadena, Calif.
Application March 4, 1940, Serial No. 322,259
6 Claims. (Cl. 172—239)



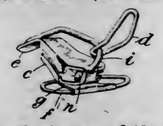
6. In an electrical system including a motor in combination, means to direct intermittent electrical impulses whereby said motor may be actuated in a constant direction, said means including a condition responsive switch connected with a power source and having two parallel circuits extending therefrom, a cam shaft, said cam shaft being actuated by said motor, a pair of contact fingers connected with each of said parallel circuits, said fingers being moved to open circuit position by certain of the cams on said cam shaft in response to motor operation, one of the fingers of each of said pair of fingers being in circuit with said motor, a solenoid, said solenoid being in circuit with one finger of each of said pairs of fingers, a single finger, said single finger being connected with a power source and in parallel with said switch to form a third parallel circuit to said motor, all of said fingers being intermittently actuated in sequence by said cams, said solenoid being functionally cooperable with one of said cams to move said single finger out of circuit to said motor, said system being energized upon closure of said condition responsive switch whereby energy flows through one of said parallel circuits to said motor and to said solenoid to lift said single finger and de-energize said third parallel circuit, said cams being so positioned upon the cam shaft that their sequence of rotation breaks the said energized parallel circuit after a predetermined period of motor rotation, said single finger actuating cam being non-functional at the termination of said period of rotation to release said single finger upon de-energization of said solenoid to close said third parallel circuit whereby the motor is again moved through the remainder of its predetermined range of rotation in response to initial closure of said condition responsive switch.

2,325,708
PHONOGRAPH
Frank E. Runge, Oaklyn, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application February 14, 1941, Serial No. 378,853
8 Claims. (Cl. 274—14)

4. In a phonograph, the combination of a supporting arm pivotally mounted on one axis for movement across a record and on another axis for movement normal to said record, a record scanning element carried thereby, a stop member adjustably associated with said supporting arm and also mounted on an axis for movement across said record, means for releasably locking said stop member in any predetermined position related to some predetermined point on said record, a cam associated with said arm and arranged to move said arm on said second named axis for either raising said scanning element from or lowering said scanning element onto said record, manually operable means associated with said cam for actuating said cam to raise said scanning element from said record, and means associated with said arm for moving said arm on said first named axis when said scanning element has been raised from said record to bring said arm into engagement with said stop member whereby to set said scanning element for subsequent engagement with said record at said predetermined record point.



2,325,709
SLIDING CLASP FASTENER
Ewel Samstegman, London, England
Application March 5, 1942, Serial No. 433,497
In Great Britain March 6, 1941
15 Claims. (Cl. 24—205)



1. In or for a fastener of the kind specified, a slider having a throughway passage for the interlocking clasp elements, and guard members engaging said elements and extending beyond the entrances of the throughway to press or move the contents to a position clear of the entrances to the throughway, the guard member for that entrance of the throughway which is the leading entrance during opening of the fastener being inclined obliquely across and outwardly from said entrance thereby to depress the clasp elements and also the contents to a position removed from the level of that entrance.

2,325,710
ADVERTISING NOVELTY
Samuel Schweitzer, Shaker Heights, Ohio
Application December 12, 1941, Serial No. 422,685
3 Claims. (Cl. 40—126)

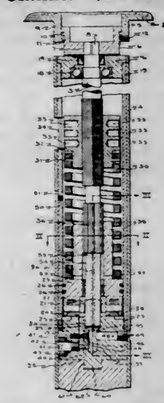
1. In combination with a glass and a liquid

therein, an animated advertising novelty, comprising, a sheet member including diverging arms substantially tangential to the said glass and in spaced relation therewith, a tab member integral with the sheet member depending therefrom and engageable with the said glass, and a capillary stem portion on the said sheet mem-



ber immersed in the said liquid and capable of being saturated thereby, the said tab and sheet members having a center of gravity in the stem portion causing the said arms to assume a horizontal position when the stem portion is unsaturated and to assume a vertical position when the stem portion is saturated with the said liquid.

2,325,711
HYDRAULIC DOOR CHECK
David J. Seaman, Battle Creek, Mich.
Application August 2, 1940, Serial No. 349,408
6 Claims. (Cl. 16—54)



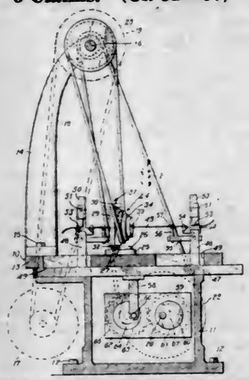
1. A door check for controlling the movement of a door in a frame comprising a cylinder adapted to be supported by said door, a pivot pin for said door adapted to be fixed with respect to said frame and projecting into said cylinder, a cap for one end of said cylinder, said cap supporting said pin, a cam in said cylinder and supported by said cap, a follower in said cylinder, slidable on said pin and being splined thereto, a spring in said cylinder having one end supported with respect to said door, urging said follower into engagement with said cam, a piston comprising a portion of said follower dividing said cylinder into two chambers, one housing the spring and the other housing said cam and follower, said cam being active upon opening of the door to move said follower axially of said pin in said cylinder against the action of said spring, said spring upon removal of the opening force being active to force said follower against said cam to close the door, a hydraulic fluid in said chambers, and port means for controlling the flow of fluid between said chambers during opening and closing movement of said door to control the rate of opening and closing thereof.

2,325,712
CONTAINER HOLDER
Leonard G. Shurmur, Wyandotte, Mich.
Application February 6, 1943, Serial No. 475,022
1 Claim. (Cl. 248—313)



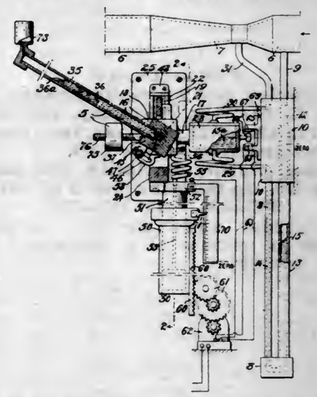
A container holder comprising a longitudinally curved, resilient bar, means for securing said bar, at an intermediate point, on a support, the end portions of the bar being free of the support and curving away therefrom, forwardly projecting, transversely elongated, tubular jaws integral with the ends of the bar for the reception of a container therebetween, and a substantially U-shaped abutment mounted on the bar and engageable with the container at an intermediate point when said container is engaged between the jaws.

2,325,713
APPARATUS FOR SHAPING AND POLISHING DIAMOND DIES
Aaron Simons, Bronx, N. Y.
Application August 2, 1941, Serial No. 405,272
5 Claims. (Cl. 51—67)



4. An apparatus for shaping drawing dies, said apparatus comprising a frame having coupled high and low speed shafts, a plurality of die supporting units arranged longitudinally of said frame, a corresponding number of abrasive strands arranged transversely of said frame and extending through said units and dies supported thereon, independent yoke means slidable in said frame for supporting and reciprocating said strands in substantially straight lines parallel to each other, said units being arranged angularly and offset radially with respect to said strands to provide substantially continuous contact between said strand and inner surfaces of said dies, the dies being arranged on rotatable members in said units, means independently coupling said members with said high speed shaft and means independently coupling the yoke means with said low speed shaft thereby to simultaneously rotate said dies and reciprocate said strand in providing abrasive action on said dies.

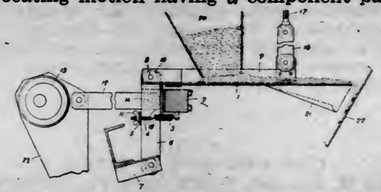
2,325,714
FLOWMETER
Emory Frank Stover, Wynnewood, Pa.
Application November 1, 1941, Serial No. 417,487
13 Claims. (Cl. 73—205)



1. A meter for measuring the flow of fluid in a conduit comprising a balanced lever having cantilever arms, means for loading a first arm of said lever with a concentrated load having a constant moment arm, a primary metering device for producing a differential pressure proportional to the square of the rate of flow through the conduit, a pressure responsive device responsive to said differential pressure cooperating with said first mentioned means and arranged for varying said concentrated load to the response of said differential pressure, means for loading a second arm of said lever with a uniform load having a length measured from the origin of the second arm which will form a moment proportional to the square of the length of said uniform load, a head securing said arms together at their origin, a support forming a pivot axis for said head with said arms extending in different directions from said axis, said head having an axial passage extending transversely to the length of said second arm through which passage said uniform load is adapted to be moved to and from said second arm directly at said pivot axis, and means actuated by the unbalancing of said arms for varying said uniform load upon the second arm for maintaining equilibrium of moments of the loads upon said arms and establishing a length of said uniform load which is a measurement of the rate of flow.

2,325,715
APPARATUS FOR CONVEYING PULVERULENT, BROKEN, OR LIKE MATERIALS
George Harry Strain, Seaford, England
Application July 9, 1940, Serial No. 344,598
In Great Britain August 8, 1939
13 Claims. (Cl. 198—220)

1. Apparatus for conveying pulverulent or broken material, which comprises a rigid member, a tray mounted alongside the rigid member in such a manner that the tray or a member attached thereto is normally held in, or nearly in, contact with the rigid member by the force of an elastic member, but is free to move against such force away from the position of contact, and means for imparting to the rigid member a reciprocating motion having a component parallel



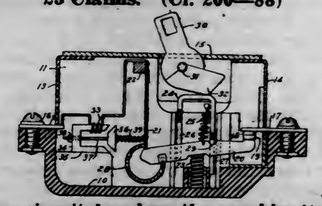
to the direction in which the material is to be conveyed, said arrangement enabling the momenta of the apparatus to be substantially equal to the momenta of the impact.

2,325,716
CHAIR
Carlyle F. Streit, Cincinnati, Ohio
Application July 10, 1940, Serial No. 344,762
3 Claims. (Cl. 155—73)



2. A chair comprising a unitary seat, back, and front leg structure, a rear leg unit pivoted to the seat at the rear thereof, the legs of said unit respectively having flat surfaces angularly related to each other and at different distances from the pivot of the unit so as to provide alternative rear legs of different heights, and stop means on said structure at the rear of the pivot, said stop means adapted to be engaged by the legs of said unit for limiting rearward swinging movement of the rear leg unit and for supporting the rear legs by engagement therewith when said rear legs have been swung to rearward position.

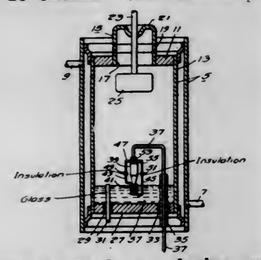
2,325,717
CIRCUIT BREAKER
Ralph H. Swingle, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 4, 1940, Serial No. 368,470
23 Claims. (Cl. 200—88)



1. In a circuit breaker, the combination of an operating mechanism for the breaker, a thermal latch operable when heated a predetermined amount to initiate movement of the operating mechanism, electromagnetic means including an armature operable in response to overload currents above a predetermined value for operating

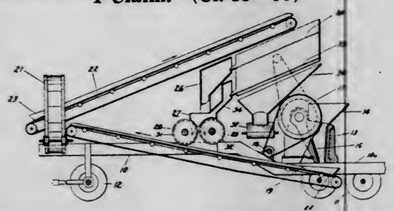
said thermal latch to initiate movement of the operating mechanism, said armature and said thermal latch being mounted to permit relative movement therebetween, and a spring other than said thermal latch opposing said operation of the electromagnetic means, said thermal latch being cooperatively connected to said electromagnetic means to vary its operating point upon movement of the thermal latch.

2,325,718
LOW CURRENT IGNITER
Adolph H. Toepfer, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 15, 1941, Serial No. 402,461
18 Claims. (Cl. 250—27.5)



1. An electric discharge device comprising a cathode of the pool type, an ignition electrode in contact with said cathode, and a coil, formed of a plurality of spaced turns of a strip of a material which is wetted by said cathode, encircling said electrode and at least partially immersed in said cathode.

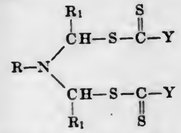
2,325,719
REDUCTION CRUSHER
Herbert Turner, Jr., Boscobel, Wis.
Application March 29, 1940, Serial No. 326,636
1 Claim. (Cl. 83—93)



In a portable rock crushing plant, a mobile base structure including side members, a primary jaw crusher disposed adjacent the forward end thereof, a screen having at least two superimposed decks disposed adjacent and substantially above the primary jaw crusher, a rotary wheel lift disposed at the end of the base opposite the primary jaw crusher, a lower conveyor having one end disposed below the jaw crusher for receiving material discharged therefrom, extending inwardly between the side members of the base and with the other end of the conveyor positioned to discharge into the rotary wheel lift, a second conveyor having its receiving end disposed within the rotary wheel lift directly above and at an angle to the lower conveyor and extending forwardly and upwardly to a position above the top deck of the screen, a roll crusher disposed above and discharging onto said lower conveyor, the roll crusher having pairs of primary and secondary rolls, the pairs of primary rolls being of smaller diameter than the secondary rolls, one roll of each pair of rolls being mounted on one of a pair of parallel crusher shafts, means for directing material, rejected by one deck of the screen, between the primary rolls of the roll crusher, means for directing material rejected by the other deck of the screen between the secondary rolls of the roll crusher, and discharge conveyor means extending transversely of the base between the jaw and roll crushers for receiving and discharging material passed through both decks of the screen.

2,325,720
PARASITICIDE
Ewald Urbschat and Franz Heckmanns, Leverkusen I. G.-Werk, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York
No Drawing. Application April 6, 1940, Serial No. 328,376. In Germany March 16, 1939
9 Claims. (Cl. 167—22)

8. Insecticidal and fungicidal preparation comprising a mixture of a compound of the probable formula



wherein Y is selected from the class consisting of

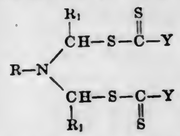


and



R is an aliphatic radical linked by one carbon atom to the nitrogen atom, R_2 represents the atoms necessary to complete a heterocyclic nitrogenous ring system, R_1 is a radical selected from the group consisting of the hydrogen atom and an aliphatic radical, a product which is obtainable by reacting 1 mol of a primary aliphatic amine with 2 mols of an aliphatic aldehyde and 2 mols of an aliphatic dithiocarbamic acid, and an inert diluent.

9. A compound of the probable formula



wherein Y is selected from the class consisting of

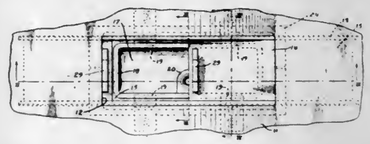


and



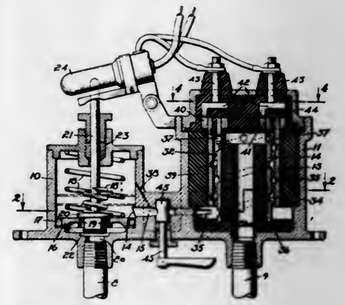
R is an aliphatic radical linked by one carbon atom to the nitrogen atom, R_2 represents the atoms necessary to complete a heterocyclic nitrogenous ring system, R_1 is a radical selected from the group consisting of the hydrogen atom and an aliphatic radical, a product which is obtainable by reacting 1 mol of a primary aliphatic amine with 2 mols of an aliphatic aldehyde and 2 mols of an aliphatic dithiocarbamic acid.

2,325,721
ASH RECEIVER
John Visser, Grand Rapids, Mich., assignor to F. L. Jacobs Co., Detroit, Mich., a corporation of Michigan
Application May 15, 1940, Serial No. 335,215
6 Claims. (Cl. 206—19.5)



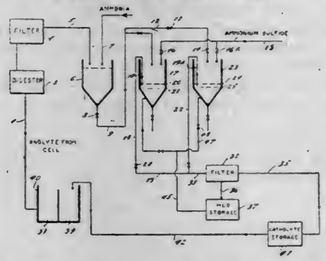
2. In an ash receiver, a mounting member comprising a pair of spaced channels having opposed open faces connected by a web offset below said channels and having an aperture centrally located therein, an ash receptacle mounted in said aperture and depending below said web, cover means located above said web and said receptacle and having edges thereof slidably mounted in said channels, and resilient means in said channels extending between said edges and the lower side of said channels for holding said edges in frictional engagement with the upper sides of said channels.

2,325,722
ELECTRIC WATER HEATER
Lucian E. Walther, Del Mar, Calif., assignor of one-half to Albert Crane, Hollywood, Calif.
Application June 9, 1941, Serial No. 397,267
11 Claims. (Cl. 219—39)



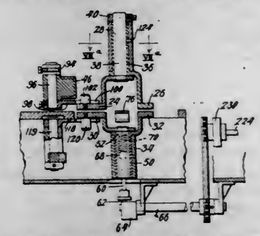
1. A control device responsive to the flow of fluid therethrough comprising, a chamber having an inlet and an outlet therein; a piston in said chamber movable from a position on one side of said outlet between the inlet and outlet to a position on the other side of the outlet, in which latter position fluid can flow from the inlet through the chamber to the outlet; a port through the piston; a valve for closing the port in the piston, operative to open upon decrease in flow through said chamber; and control means responsive to the position of the piston.

2,325,723
PURIFICATION IN ELECTROWINNING OF MANGANESE
Elmer M. Wanamaker and William D. Morgan, Jr., Knoxville, Tenn., assignors to Electro Manganese Corporation, Minneapolis, Minn., a corporation of Delaware
Application February 27, 1942, Serial No. 432,692
2 Claims. (Cl. 204—105)



1. In a cyclical process for the purification of catholyte in the electrowinning of manganese in which ore is extracted with anolyte and the extract is treated to remove iron and then with ammonium sulfide to precipitate nickel and cobalt as sulfides, whereby a sulfide mud is obtained containing nickel sulfide, cobalt sulfide and manganese sulfide, the mud is separated from the solution and the latter is used as catholyte, the improvement which comprises precipitating cobalt and nickel sulfides by adding ammonium sulfide in the presence of sulfide mud obtained in a previous cycle, and thereby forming an additional quantity of mud, the proportion of said mud obtained in a previous cycle being in excess of said additional quantity.

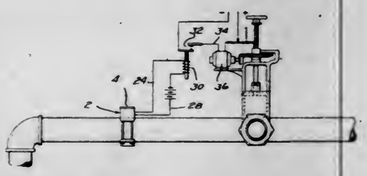
2,325,724
LEATHER MANUFACTURING MACHINE
Erastus E. Winkley, Lynn, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application July 23, 1941, Serial No. 403,595
27 Claims. (Cl. 69—46)



21. In a machine for operating upon sheet material having a tool movable over the surface of a work piece, the combination of a work support, a work engaging device movable to shift the work piece on the work support between successive operating movements of the tool, fluid-operated means for operating the work engaging device to effect movement of the work piece in directly lateral directions, a second fluid-operated means to effect rotative movement of the work engaging device to feed the work piece step by step about a center therein, and a control member having surfaces constructed and arranged to determine the time of operating of the two fluid-operated means, said control member having on its opposite surfaces operating devices to effect control of the fluid-operated means together with means

to effect a dwell in the operation of one of the fluid-operated means while the other is operating, whereby the work engaging device is caused to move the work piece successively in directly lateral steps and then in rotative steps.

2,325,725
EMERGENCY SHUTOFF FOR STEAM LINES AND THE LIKE
Joseph Kaye Wood, New York, N. Y., assignor to General Spring Corporation, New York, N. Y., a corporation of New York
Application June 21, 1941, Serial No. 399,068
1 Claim. (Cl. 137—139)



An automatically protected distributing system for dangerous fluids which comprises, in combination with a reservoir of dangerous fluid and a distribution pipe line extended so as to be subject to shock of such force as may cause breakage of the line, an inertia member, a guide for said member so mounted upon the pipe line for protection of which said device is intended as to partake of the same movements as the part of said pipe-line which is subject to destructive shock, an electrically operated shut-off adapted to control the admission of the dangerous fluid to said pipe line and positioned at a point remote from the inertia member, an actuating circuit for said shut-off including a switch arranged to be operated by movement of said inertia member in its guide, and means for securing said inertia member to said guide so that said member also partakes of the same movements as said pipe line up to a predetermined dynamic limit, but said securing means being yieldable to a force encountered when said dynamic limit is passed, whereby said inertia member is moved by such force to operate said switch and thereby to actuate said shut-off.

2,325,726
CALKING COMPOUND
Harold L. Acker, Hollywood, Calif., assignor to W. P. Fuller & Co., San Francisco, Calif., a corporation of California
No Drawing. Application October 9, 1940, Serial No. 360,446
5 Claims. (Cl. 260—40)

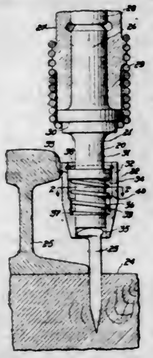
3. A permanently plastic, non-shrinking, non-hygroscopic calking compound comprising a mixture containing an unmodified hydrocarbon-insoluble alkyd resin derived from a polyhydric alcohol and an aliphatic di-carboxylic acid containing at least six carbon atoms and an inert filler selected from a group consisting of asbestos fibre and ground mica as major constituents, the latter being mixed in proportions substantially within the limits of two pounds of resin to one pound of filler and one pound of resin to one and one-half pounds of filler, and zinc chromate in the proportion of approximately .83 to 1.64% by weight of the entire mixture, the resin, the filler and the zinc chromate being mixed to form a homogeneous mass.

2,325,727
DIHYDROISOBENZOFURANS AND PROCESS OF PREPARING THEM
Roger Adams, Urbana, Ill., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application July 27, 1940, Serial No. 348,072
10 Claims. (Cl. 260—346)

1. The process for preparing 1,3-diaryl-4,7-dihydroisobenzofurans which comprises condensing a butadiene-1,4 with a symmetrical diaroylethylene and subjecting the resulting 4,5-diaroylcyclohexene-1,2 to the action of an acid dehydrating agent to convert it to the 1,3-diaryl-4,7-dihydroisobenzofuran.

7. 1,3-diaryl-4,7-dihydroisobenzofurans.

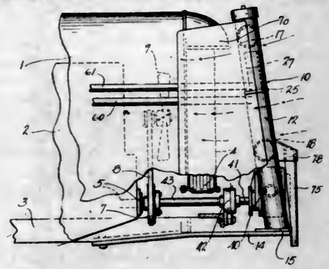
2,325,728
DRIVING DEVICE
Roy O. Allen, Athens, Pa., assignor to Ingersoll-Rand Company, New York, N. Y., a corporation of New Jersey
Application May 6, 1942, Serial No. 441,986
2 Claims. (Cl. 1—46.1)



1. A driving device for use with a percussive tool having a casing and a reciprocatory hammer therein, comprising a driving member extending into the casing to receive the blows of the hammer, a sleeve member slidable on the driving member to maintain the driving member in driving relation with an element intended to be driven, a shoulder on the driving member, a shoulder on the sleeve member, a compression spring in the sleeve member to seat against the shoulders for holding the sleeve member in a limiting position upon the driving member, and an abutment on one of said members for the shoulder on the other said member to limit slidable movement of the sleeve member in one direction on the driving member and thereby prevent the forcing of the coils of the spring against each other.

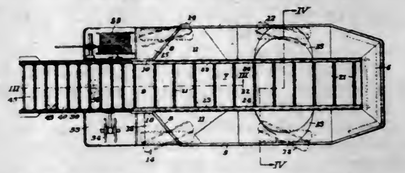
2,325,729
HYDRAULIC POWER SYSTEM FOR TRACTORS
George S. Allin, Seattle, Wash., assignor to Isaacson Iron Works, Seattle, Wash., a corporation of Washington
Application June 20, 1941, Serial No. 398,871
7 Claims. (Cl. 180—53)

1. In a tractor, a hydraulic power system comprising a unitary storage tank for a hydraulic pressure medium having a division wall setting off a pressure chamber and a cooling chamber within the tank adapted for connection respectively with opposite sides of a hydraulic power device, a pressure relief valve mechanism providing for by-passing of pressure medium from the pressure chamber into the cooling chamber



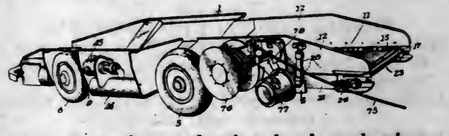
and a pressure pump having an intake connection for reception of pressure medium from the cooling chamber and having a delivery connection leading into the said pressure chamber.

2,325,730
MINE HAULAGE VEHICLE
Einar M. Arentzen, Charleroi, and Arthur L. Lee, Oakmont, Pa., assignors, by mesne assignments, to Joy Manufacturing Company, Franklin, Pa., a corporation
Application November 6, 1941, Serial No. 418,028
5 Claims. (Cl. 214—83)



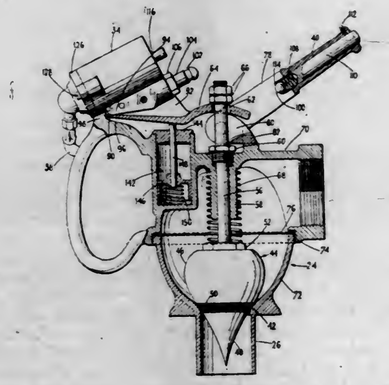
1. A self-unloading mine-haulage vehicle comprising a wheel-mounted body enclosing a cargo space and having such arrangement with respect to the vehicle wheels as to support a capacity cargo in the cargo space with its center of gravity between the wheels, the said body having an open discharge end and a bottom-forming conveyor arranged to convey material in the cargo space through the said discharge end, a delivery conveyor projecting longitudinally from the said body, the said delivery conveyor being arranged to receive material from the said discharge opening and to deliver it at a level higher than the top of the vehicle body, and means for driving the delivery conveyor faster than said bottom-forming conveyor whereby the depth of material traveling on the delivery conveyor is less than the material on the other conveyor.

2,325,731
MINE HAULAGE VEHICLE
Einar M. Arentzen, Charleroi, and Arthur L. Lee, Oakmont, Pa., assignors to Joy Manufacturing Company, Franklin, Pa., a corporation of Pennsylvania
Application December 31, 1941, Serial No. 425,114
2 Claims. (Cl. 214—83)



1. In a car for coal mine haulage having a wheel-mounted body, a continuous conveyor forming the bottom of the body, and a transverse member supporting the body and arranged below the center of the wheels; a forward conveyor-supporting frame extended over the cross member, a rear conveyor-supporting frame located to the rear of the cross member, the said rear frame being rigidly mounted in the car structure in a substantially horizontal position and at a low level relative to the car, the forward frame being movable about a horizontal pivot point located to the rear of the cross member from a lower position in approximate planar extension of the rear frame to a raised position extended angularly upward from the plane of the rear frame, the said forward frame having in the region of its crossing of the transverse member a longitudinally bent configuration to provide clearance for the cross member when the forward frame is in its lower position.

2,325,732
REPEATING MECHANICAL VALVE SHUTOFF SYSTEM
Charles P. Bergman, San Francisco, Calif., and Mead Cornell, Cleveland, Ohio, assignors, by mesne assignments, to Pittsburgh Equitable Meter Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application February 2, 1940, Serial No. 316,888
3 Claims. (Cl. 137—139)

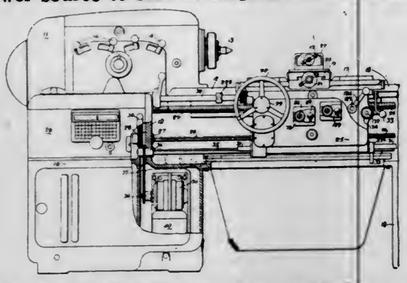


1. A valve comprising a valve chamber and valve seat, a valve member movable therein, a valve rod extending from said valve member, an oscillatable handle at the top of the valve, cams at each side of the valve rod rotated by said handle to lift the rod and open the valve, resilient means normally tending to close the valve, and friction detent means to hold the handle with the valve open and fluid pressure operated means for freeing said handle from said friction detent to allow the valve to close.

2,325,733
RAPID TRAVERSE MECHANISM FOR LATHES
Clifford A. Bickel, Sidney, Ohio, assignor to The Monarch Machine Tool Co., Sidney, Ohio, a corporation of Ohio
Application August 15, 1940, Serial No. 352,767
19 Claims. (Cl. 82—22)

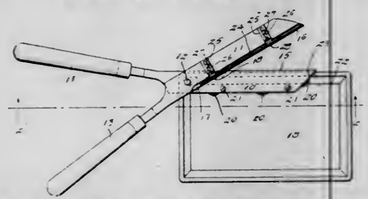
1. In a lathe, a power source, a carriage, a cross slide, an apron mechanism for said carriage comprising gear trains for drivingly connecting

said power source to said carriage feed or said cross slide feed, means for driving said gear trains at a selected speed, clutch means interposed in the gear trains, a second clutch means in said gear trains for drivingly connecting said power source to said carriage feed or cross slide



feed at a different speed from said first mentioned means, and a common actuating means for disengaging said first mentioned clutch means when said second mentioned clutch means is engaged.

2,325,734
LYCOPODIUM HARVESTER OR CLIPPER
Robert H. Bishop, Jr., Readfield, Maine
Application November 19, 1942, Serial No. 466,233
3 Claims. (Cl. 30—131)



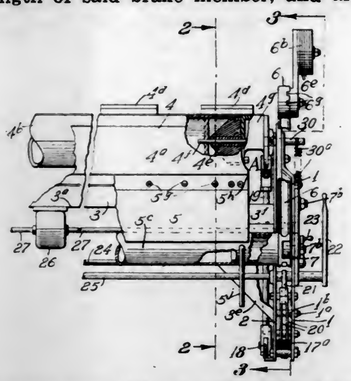
1. Apparatus of the class described having a receptacle provided with an open top, a shearing blade rigid on said receptacle disposed in the plane of and across said top with its cutting edge outwardly of the receptacle and its opposite edge inwardly of the margin of the receptacle, a shearing blade pivoted to and movable across the first-mentioned shearing blade, and deflector means carried by the second-mentioned blade operative to dislodge cut material from the first-mentioned blade and discharge it over said opposite edge into the receptacle, the free end of the first-mentioned blade being spaced from a wall of the receptacle and extending inwardly away from the shearing edge and away from said wall.

2,325,735
VULCANIZATION OF RUBBER
Edward S. Blake, Nitro, W. Va., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application April 5, 1940, Serial No. 328,085
20 Claims. (Cl. 260—775)

1. The process of vulcanizing rubber which comprises heating rubber in the presence of a dimorpholyl sulfide.

2,325,736
SHEET METAL BRAKE
Samuel Bowman, Hollywood, Calif.
Application May 28, 1940, Serial No. 337,652
13 Claims. (Cl. 153—16)

1. In a sheet metal brake of the class described, the combination of a brake member, a circular in cross section tubular member connected longitudinally therewith substantially the full length of said brake member, and arcuate

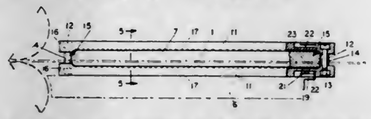


rocker arms secured to opposite ends of said tubular member outwardly of the ends of said brake member.

2,325,737
RUBBER COMPOUNDING
Clyde H. Boys, Drexel Hill, Pa., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 15, 1940, Serial No. 340,638
3 Claims. (Cl. 260—755)

1. A vulcanized product of a composition comprising rubber, an accelerator, and from about 1% to about 3% hydrogenated rosin based on the weight of the rubber employed, the hydrogenated rosin acting as an activator for the accelerator.

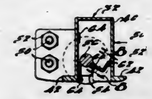
2,325,738
TRAVELING STRIP GUIDE
Edward M. Brangle, Newburgh Heights, and Vincent W. Kolasinski, Garfield Heights, Ohio
Application May 31, 1941, Serial No. 395,960
3 Claims. (Cl. 80—51)



1. A guide for traveling strips, comprising an elongated wear member of square, cross-sectional shape, a pair of holding members adapted to be mounted on opposite sides of said wear member, means for clamping said holding members against said opposite sides, said holding members being of substantially rectangular cross-section of less width than that of said wear member and having longitudinal, marginal bearing surfaces forming the sole contact with the flat side surfaces of said wear member and a longitudinal recess between said surfaces to provide a clearance space between a portion of said opposite sides of said wear member and said marginal bearing surfaces.

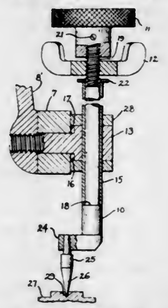
2,325,739
NOZZLE FOR VACUUM CLEANERS
Clarence A. Brock, Detroit, Mich., assignor to Rexair, Inc., Detroit, Mich., a corporation of Delaware
Application February 21, 1941, Serial No. 379,920
6 Claims. (Cl. 15—157)

1. In combination, a hollow vacuum cleaner nozzle having an open side adapted for contact with a floor, a comb element positioned within said nozzle and mounted therein for rotatable movement about a line adjacent the rear wall thereof, said comb element when in normal operative position for forward movement including a forwardly projecting portion terminating in a serrated free edge disposed in said opening in a position to engage the surface of a floor, movable floor engaging means carried by said nozzle and adapted for frictional engagement with the surface of a floor, means interconnecting said floor engaging means and said comb element for interrelated movements, said comb element being of such radial dimension that the serrated edge



thereof passes into close proximity to the forward wall of said nozzle during movement of said element between its opposite limits of movement, whereby to momentarily decrease the effective cross-sectional area of said nozzle to the serrated edge of said comb element and increase the velocity of air flow over said edge, means limiting rotation of said comb element in one direction to a position in which said serrated edge thereof is disposed below but in close proximity to the plane of said open side, and means limiting rotation of said comb element in the opposite direction to a position in which said serrated edge is disposed a material distance above said plane of said open side.

2,325,740
LENS SURFACING DEVICE
William P. Canning, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application May 10, 1941, Serial No. 392,930
5 Claims. (Cl. 51—131)



1. A surfacing machine of the class described a member having a bearing pivotally connected therewith, a sleeve in said bearing, means for clamping said sleeve in said bearing and for simultaneously locking said bearing against pivotal movement, a spindle rotatably mounted in said sleeve and having an offset work holding engaging portion and means for locking said spindle against rotation relative to said sleeve.

2,325,741
SHOE TIP PROTECTOR
Oscar J. Chertok, Brooklyn, N. Y.
Application April 5, 1941, Serial No. 386,974
4 Claims. (Cl. 36—72)

1. A shoe tip protector comprising: a tip covering portion; a sole periphery engaging rim, associated with the lower part of the tip covering portion; and a plurality of prongs normally



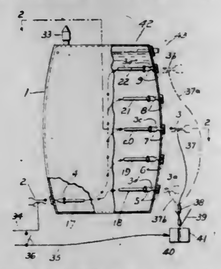
disposed outwardly of the inner wall of the said sole periphery engaging rim and bendable inwardly through said rim to engage said sole edge.

2,325,742
INITIATOR AND CAP
Le Roy V. Clark, Latrobe, Pa., assignor to American Cyanamid and Chemical Corporation, New York, N. Y., a corporation of Delaware
Application March 20, 1940, Serial No. 324,906
4 Claims. (Cl. 52—4)



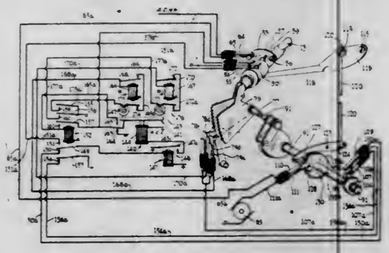
1. An initiator charge for detonating purposes including a heavy metal salt of nitroaminoguanidine.

2,325,743
DEVICE FOR ELECTRIC WELDING
Gilbert L. Collins, Birmingham, Ala.
Application April 23, 1941, Serial No. 389,831
3 Claims. (Cl. 201—57)



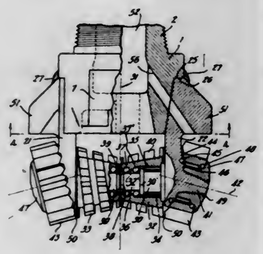
1. An electric arc welding device comprising; a water tank made of electrical insulating material, water tight electric connecting sockets in two opposite walls of said tank, each of said sockets connected to a copper segment positioned inside of said tank, electric plug openings in each said sockets to accommodate electric plugs, said tank having a plurality of horizontal insulating partitions dividing the tank into a plurality of horizontal compartments, each partition having a small aperture positioned the maximum distance out of line with apertures through other partitions to allow flow of water therethrough.

2,325,744
MOTOR OPERATED KEY IDENTIFIER
Benjamin Cooper, Jersey City, N. J.
Application April 8, 1940, Serial No. 328,534
16 Claims. (Cl. 177—380)



1. In combination, a key having a base part and another part, means for identifying the position of the other part of the key relative to the base part of the key, means to receive the key and position said base part of the key in a predetermined position, said key being rotatable in said key receiving means, a movable member, means for moving said movable member from an initial position into engagement with said other part of said key after the key has been positioned within said key receiving means and rotated therein, and means to pulse a number of pulsations corresponding to the extent of movement of said movable member.

2,325,745
ROTARY DRILLING BIT
Roland R. Crum, Whittier, Calif.
Application June 20, 1939, Serial No. 280,100
6 Claims. (Cl. 255—71)



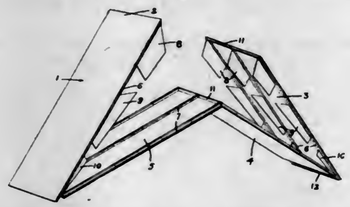
6. In a rotary drill bit, a body, two pairs of arms attached to the body, the arms of each pair being oppositely disposed about the axis of said body, each arm of one pair having an inwardly and downwardly extending pin, a roller cutter on each of said pins, said cutters being arranged to operate over the outer zone of the well bore, each arm of the other pair having a pin extending outwardly and obliquely to the axis of said body, a roller cutter on each of the last mentioned pins, said cutters being arranged to operate over an intermediate zone adjoining said outer zone, said last mentioned arms also each having an inwardly extending pin, and a roller cutter on the last mentioned pin arranged to operate from the center of the well bore to said intermediate zone, the obliquity of said outwardly extending pins being such that the inner edges of the cutters supported thereon are at the bottom close to the outer edges of the respective inside cutters at the bottom.

2,325,746
METAL CUTTING TOOL WITH INSERTED TEETH
Frank W. Curtis, Springfield, Mass., assignor to Van Norman Machine Tool Company, Springfield, Mass., a corporation of Massachusetts
Application December 21, 1942, Serial No. 469,659
17 Claims. (Cl. 29—105)



1. A cutting tool formed with a central metallic hub portion, a body bonded to the hub portion and composed of a molded organic plastic, a plurality of metallic sockets arranged in a circumferential series about and embedded in the molded body portion and each shaped to anchor said socket against movement in the molded body, a cutter blade received in each socket, and means for securing each blade in its socket.

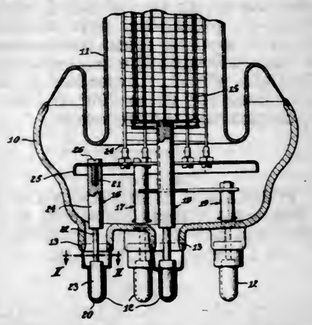
2,325,747
DEMOUNTABLE ROOF
Gardner A. Dailey, San Francisco, Calif.
Application October 3, 1941, Serial No. 413,422
10 Claims. (Cl. 108—1)



1. Roof structure for a building comprising; a pair of gable-like roof coverings of relatively rigid sheet material having their ridges parallel and disposed one over the other in spaced relationship, the eaves of said coverings being secured together and the pitch of the uppermost of said coverings being greater than the pitch of the one therebelow whereby each of said roof coverings will be held together as a unit under compressive stress thereof when they are supported at points adjacent their eaves with their ridges generally horizontal.

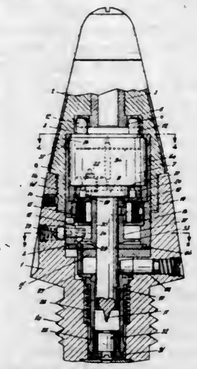
2,325,748
SUPPORTING PIN
Hampton Jennings Dailey, Bloomfield, and William John Knochel, Irvington, N. J., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 30, 1941, Serial No. 424,862
9 Claims. (Cl. 250—27.5)

1. In an electronic device having an electrode, a supporting pin for said electrode, said pin having rigid portions and having a flexible portion, all of said portions being self-sustaining and



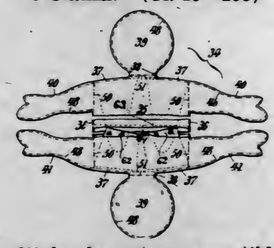
capable of sustaining other portions, said pin as a whole constituting a support for said electrode.

2,325,749
TIME FUSE FOR PROJECTILES
Fernand Delay, Geneva, Switzerland, assignor of one-half to Cesar Adolphe Schmitt, Geneva, Switzerland
Application February 26, 1940, Serial No. 320,911
In Switzerland August 18, 1939
3 Claims. (Cl. 102—84)



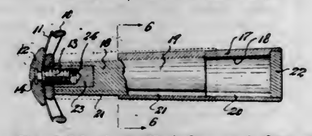
1. Time-fuse for rotational projectiles of the spring driven clockwork type in which the regulation of the time of ignition takes place simultaneously with the winding of the driving spring and wherein self rotation of the clockwork is arrested by centrifugal means so long as the projectile is not fired off, said fuse having in combination a hollow fuse body adapted to be threaded to the projectile, a cap turnable on said body and carrying a winding key, a case fixedly mounted in said body, a clockwork, an axial frame carrying the clockwork, said frame being rotatably mounted in said case and engaged by said key so as to entrain the arrested clockwork in a rotatory movement about the axis of the projectile upon turning said cap, an axially disposed central guide shaft formed integral with said frame and terminating in a percussion point, a driving spring, an annular barrel surrounding said shaft and housing the driving spring, said barrel being secured to said case and having attached thereto one end of the driving spring, a spring pressed primer slidable on said shaft towards said percussion point, means actuatable by centrifugal force for normally holding said primer away from said percussion point, a bung for the driving spring rotatably mounted on said shaft and having fixed thereto the other end of said spring, said bung being, on the one hand, connected to said clockwork for effecting simultaneously the winding of said spring and the regulation of the ignition time by means of said turnable cap, winding key and rotatable frame and for driving afterwards said clockwork under the action of the driving force stored in said spring when said clockwork has been released for self rotation to control the angular displacement of said bung during the flight of the projectile, said bung being also adapted to cooperate with the primer to allow a sudden advancing of said primer towards the percussion point during self rotation of the clockwork, and means on the case and frame, respectively, for limiting the angular displacement of the frame, in either direction thereby protecting the clockwork against deterioration during assembling of the fuse.

2,325,750
CONVERTIBLE DOLL
Margaret De Vries, Roslyn Heights, N. Y.
Application February 6, 1942, Serial No. 429,713
9 Claims. (Cl. 46—153)



1. A multiple-character convertible toy comprising a flexible hollow structure having an access-slit within its planar confines to define opposing sections; means forming sets of body simulating members extending outwards from the hollow structure; and means for closing the access-slit, when one set or sets of the body simulating members are folded into the hollow structure, to complete representation of the selected character.

2,325,751
COLLAPSIBLE SAFETY RAZOR
Daniel C. Dillon, Jr., East Orange, N. J., assignor to Dillon-Beck Manufacturing Co., Irvington, N. J., a corporation of New Jersey
Application October 6, 1942, Serial No. 460,951
2 Claims. (Cl. 30—85)



1. A collapsible handle element for safety razors, comprising an inner member of circular cross section externally tapered toward its inner end and an outer member having a correspondingly tapered bore of circular cross section to telescopically receive said inner member, the minor and major diameters of said tapered inner member being somewhat less than the minor and major diameters of the tapered bore of said outer member, whereby said members may be relatively telescopically extended from an initially collapsed condition until their tapered surfaces meet

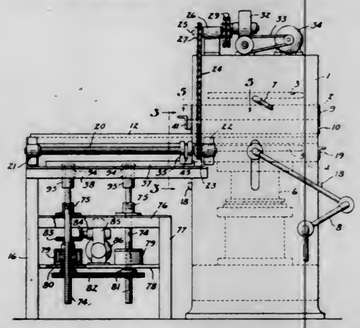
and bind together, said members being made of molded plastic material, said outer and inner members having cooperative means to retain the same against relative rotation, the inner end portion of said inner member having an axially disposed metallic coupling bushing imbeddedly molded therein substantially flush with its extremity, said bushing having an outwardly open internally screw-threaded socket to engage the coupling stud of a razor guard and cap assembly, whereby to attach said handle element operatively thereto, and an end wall closing the outer end of said outer member to retain said inner member against outward escape therefrom.

2,325,752

MOLDING APPARATUS FOR MAKING THIN WALLED HOLLOW ARTICLES

Howard M. Dodge, Wabash, Ind., assignor to The General Tire & Rubber Company, Akron, Ohio, a corporation of Ohio

Application April 25, 1941, Serial No. 390,276
8 Claims. (Cl. 18—19)



7. Molding apparatus comprising a press having a supporting structure and a vertically movable ram, a mold section and track means carried by the ram supporting the mold section for horizontal movement into and out of the press, a pair of spaced threaded rods mounted in fixed positions on the supporting structure, said rods being individually journaled for rotation about their longitudinal axes and disposed in parallelism with the track means outside of the supporting structure and laterally beyond the track means, reversible means for synchronously rotating the rods, saddled nuts on the rods and means preventing rotation of the nuts as they are moved along the rods by rotation of the latter, and means on the mold section adapted to move into interfitting engagement with the saddles of the nuts upon lowering the ram whereby rotation of the rods in one direction operates to withdraw the mold section from the press and reverse rotation of the rods moves the mold section into the press.

2,325,753

METHOD OF MAKING DINITRO CRESOL

Maurice L. Dolt, Plainfield, and Alfred G. Hill, North Branch, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application January 2, 1941, Serial No. 372,834
3 Claims. (Cl. 260—622)

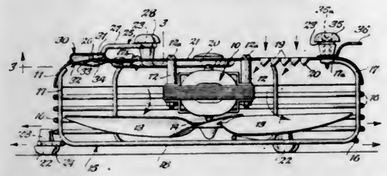
1. A method of preparing a compound selected from the group consisting of dinitro-o-cresol and dinitro-p-cresol, which includes the following steps, forming a cresol sulfonation mixture from concentrated sulfuric acid and a compound selected from the group consisting of ortho cresol and para cresol, adding the sulfonation mixture to dilute nitric acid at room temperature with agitation while allowing the temperature to rise to substantially 40° C., thereafter heating the mixture to from 80° C. to 100° C., and subsequently isolating the dinitro cresol.

2,325,754

PORTABLE ELECTRIC FAN

Edward A. Ebert, Buffalo, N. Y.

Application January 31, 1941, Serial No. 376,801
10 Claims. (Cl. 230—273)



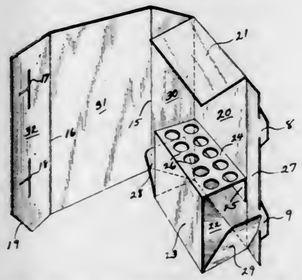
1. A fan of the character described including a shallow cover member formed with an air inlet opening, fan blades, said cover member having a radius which is at least as large as the radius of the fan blades and being located substantially wholly beyond one side of the plane occupied by said blades, an electric motor for driving said blades, said motor being mounted upon the inner side of said cover member between the latter and said blades, a guard for the blades secured to said cover member and feet carried by said guard for supporting said fan so that the blades thereof face and are in relatively close proximity to the supporting surface whereby said cover member and supporting surface serve as cooperating deflectors to direct the air radially outwardly through said guard and along said surface in a stream of predetermined depth.

2,325,755

SHELL CARTON

Oscar Eggebrecht, Wausau, Wis., assignor to Marathon Paper Mills Company, Rothschild, Wis., a corporation of Wisconsin

Application October 19, 1942, Serial No. 462,601
2 Claims. (Cl. 229—27)



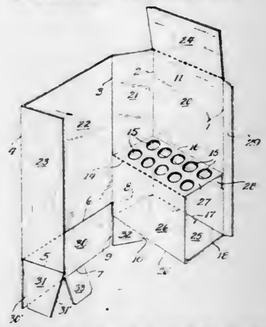
1. A collapsible carton formed from a single blank comprising a rear panel, a side panel hingedly connected to one longitudinal side edge of said rear panel, a front panel hingedly connected to said side panel, a second side panel hingedly connected to said front panel, a retaining panel hingedly connected to the second longitudinal side edge of said rear panel adapted to be engaged with said second side panel, a cover hingedly connected to the upper edge of said rear panel, a bottom panel hingedly connected to the lower edge of said rear panel, end flaps hingedly connected to said bottom panel extending in operative position as a strut across the entire width of the carton in contact with the said front and rear panels, and an article retaining extension hingedly connected to the bottom panel consisting of in succession a front auxiliary panel adapted to engage the inner face of the front panel, an article-retaining panel extending from the front to rear panel having the same dimensions as the bottom panel, and a sustaining panel adhered to the rear panel, all said panels being integrally hinged along suitably spaced fold lines.

2,325,756

CARTRIDGE CARTON

Oscar Eggebrecht, Wausau, Karl Koehler, Neenah, and Frank J. Gruper, Jr., Menasha, Wis., assignors to Marathon Paper Mills Company, Rothschild, Wis., a corporation of Wisconsin

Application November 27, 1942, Serial No. 467,090
5 Claims. (Cl. 229—27)



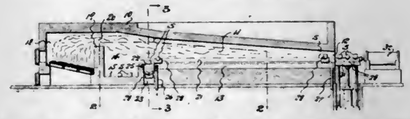
1. A collapsible carton made from a single blank comprising a front, rear, bottom, and side panels, and an article supporting extension integrally hinged to the bottom edge of the rear panel consisting of a bottom auxiliary panel having dimensions substantially that of the horizontal cross-sectional dimensions of the carton, a front auxiliary panel, an article-retaining panel having the same dimensions as the bottom panel extending from the front to the rear panel and a sustaining panel adhered to the rear panel, all said panels being integrally hinged along suitably spaced fold lines, said bottom auxiliary panel being adapted to be positioned in face contact with the inner face of the said bottom panel, said front auxiliary panel being adapted to be positioned in face contact with the inner face of the said front wall, said carton being adapted to be set up for use by folding said bottom auxiliary panel at right angles to the said rear panel.

2,325,757

HEATING FURNACE

Edward Ehlers, Montclair, N. J.

Application June 9, 1942, Serial No. 446,346
5 Claims. (Cl. 263—6)



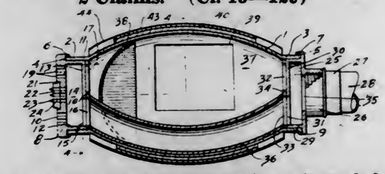
1. A heating furnace having a heating chamber, a series of laterally spaced parallel skids, more than two in number, extending along the heating chamber hearth from its receiving toward its discharge end, stock carriage elements adapted to be slidably mounted on said skids and selectively laterally grouped on two or more of the latter according to a length of stock piece to be supported and carried thereby, at least some of the thus grouped carriage elements longitudinally abutting those of adjacent groups whereby to form trains adapted to be pushed with the carried stock through said heating chamber, and means adapted to separate said carriage elements from a stock piece carried thereby and to discharge the same exteriorly of the furnace when said stock piece reaches the end of the heating chamber hearth subject to discharge therefrom.

2,325,758

WATERHEAD DEVICE

Selma O. Ferguson, Los Angeles, Calif.

Application August 18, 1941, Serial No. 407,279
2 Claims. (Cl. 15—129)



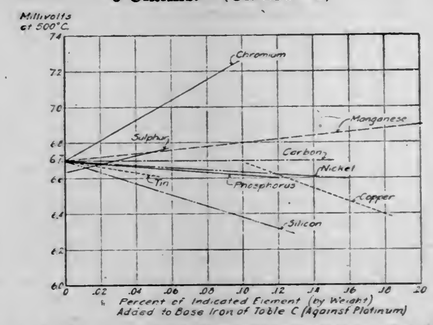
1. A washing device comprising a barrel shaped container having a soap compartment and a water duct passing therethrough, valve means at both ends of the container, said means having exterior operating annular rings so that the valves can be rotarily shifted to open or close their ports, coupling means attached to one valve means for connection to a supply of water, and a hollow spray head attached to and integral with the other valve means, said valves allowing water to pass through either the duct or the soap compartment.

2,325,759

FERROUS ALLOY THERMOCOUPLE ELEMENT

Donald I. Finch, Philadelphia, Pa., assignor to Leeds & Northrup Company, Philadelphia, Pa., a corporation of Pennsylvania

Application December 28, 1939, Serial No. 311,258
6 Claims. (Cl. 136—4)

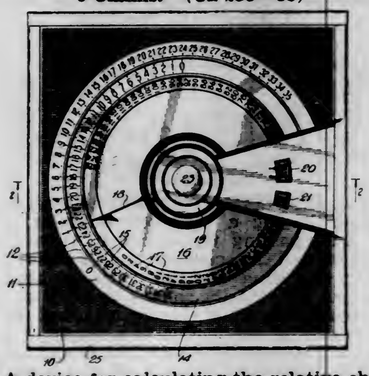


1. A thermocouple element consisting of a ferrous alloy having a composition comprising, among its non-ferrous components, of manganese, nickel and copper in substantially the percentages by weight of .22 to .24, .04 to .05 and .115 to .125, respectively.

2,325,760
CYCLIC ACETALS OF FORMALDEHYDE AND A PROCESS OF PREPARING THEM
Wilhelm Fitzky, Frankfort-on-the-Main-Hochst, Germany, assignor, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application December 7, 1938, Serial No. 244,391. In Germany December 8, 1937
7 Claims. (Cl. 260—338)

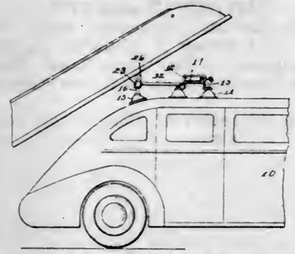
1. The process of preparing cyclic acetals of formaldehyde which comprises reacting paraformaldehyde with propylene in the presence of an aqueous solution of zinc chloride and of methylene chloride at a temperature of about 120° C.

2,325,761
CALCULATOR
Max Fleischer, Miami Beach, Fla.
Application August 8, 1941, Serial No. 405,977
6 Claims. (Cl. 235—88)



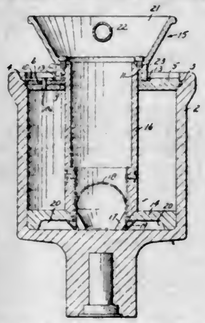
1. A device for calculating the relative chances of contestants in a race comprising a base plate having imprinted thereon an annular dial divided into a plurality of equally spaced index points consecutively numbered in one direction and indicating the number of races won by a selected contestant, a post extending through the center of said dial, a second dial of a smaller diameter than said first dial rotatably mounted on said post in superposed relation to said first dial and provided along its circumference with equally spaced index points adapted for visual radial alignment with said first mentioned index points and consecutively numbered with the same numbers as on said first dial but in the opposite direction and indicating the number of races run by said selected contestant, so that rotation of said second dial from a position where a numbered point thereon is in alignment with the same numbered point on said first dial to a position where the next adjacent numbered point on said second dial is in alignment with a similarly numbered point on the first dial will effect a displacement of said second dial equal to the space of two index points, a third dial of a smaller diameter than said second dial rotatably mounted on said post in superposed relation to said second dial and provided along its circumference with a series of consecutive even numbers indicating the relative chances of the contestants, arranged consecutively in the same direction as the numbers on the said second dial and adapted for visual radial alignment therewith, pointer means radially disposed on said third dial between the highest and lowest numbers of said series of even numbers and adapted for visual radial alignment with the spaced index points on said second dial, a bridging member extending from said post over said dials and rigidly fastened to said base plate and a window in said bridging member adapted to disclose one of said even numbers on said third dial as determined by the simultaneous alignment of a selected numbered index point on said second dial with a similarly numbered index point on said first dial and of said pointer means with a selected numbered index point on said second dial.

2,325,762
BOAT LOADING ATTACHMENT FOR AUTOMOBILES
Carl F. Ford, Sigourney, Iowa
Application October 1, 1941, Serial No. 413,225
1 Claim. (Cl. 224—29)



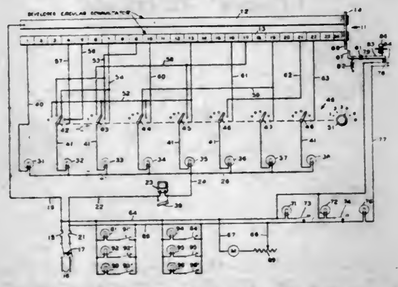
In a device of the class described, a pair of substantially U-shaped members supported in an upright plane, an upright supporting each of said U-shaped members, a vacuum cup supporting each of said uprights, with each of said U-shaped members having a threaded opening in one leg and a second opening in the other leg thereof, a shaft corresponding to each of said U-shaped members adapted to be passed through a second opening and having a threaded portion for threaded engagement with a threaded opening, a roller rotatably mounted on each of said shafts, a shaft connecting said two U-shaped members in a common plane and with said rollers in alignment, said connecting shaft including a coupling means whereby the two units may be separated, a member extended laterally in the same direction from each of said upright members, and a clamp supported on the outer end of each of said extended members.

2,325,763
SPINNING BUCKET
Horace Pugh Fry, Jr., Swarthmore, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application March 20, 1942, Serial No. 435,462
9 Claims. (Cl. 57—76)



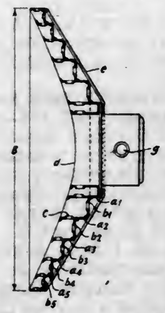
1. A spinning bucket cover having a plurality of radially slidable cover-locking members arranged to be thrown centrifugally into engagement with a spinning bucket upon rotation therewith, said members having bucket engaging portions at their outer ends and upwardly and inwardly sloped portions arranged at their inner ends and adapted to be embraced and to be moved inwardly by a common encircling device whereby release of said cover-locking means from said bucket is effected.

2,325,764
MUSICAL DIRECTING DEVICE
Charles C. Gall, Richmond Hill, N. Y.
Application September 30, 1939, Serial No. 297,207
2 Claims. (Cl. 177—311)



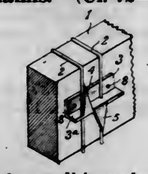
1. In a musical tempo indicating device of the type described, a plurality of visual beat indicating devices, a cyclically operable distributor mechanism adapted to make one cycle of operation in each musical measure, a multiple level switch having a movable contacting arm for each level interposed between said distributor mechanism and predetermined ones of said visual indicating devices, means including said switch for selecting as many consecutive ones of said visual indicating devices for operation as there are beats in the musical measures the tempos of which are to be indicated, and means including said distributor mechanism for operating said selected visual indicating devices one at a time and in consecutive order to indicate the beats of said measures.

2,325,765
ROTATION-SYMMETRIC REFLECTOR
Walter Gartenmeister, Bergfeld, Germany; vested in the Alien Property Custodian
Application December 13, 1940, Serial No. 369,948
In Germany March 16, 1939
6 Claims. (Cl. 250—11)



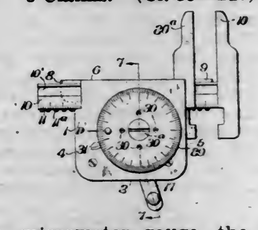
4. A short wave electro-magnetic rotation symmetric reflector comprising a plurality of cylindrical rings of increasing diameter coaxially arranged with respect to one another, a plurality of flat rings of increasing diameter each one of which is interposed between the adjacent cylindrical rings, a metallic curved reflecting surface located at the frontal portion of said rings, and arranged with said rings to change its curvature by changing the number of rings secured thereto.

2,325,766
NAIL AND FASTENER
Emanuel Gisondi, Scarsdale, N. Y.
Application July 24, 1941, Serial No. 403,871
8 Claims. (Cl. 72—118)



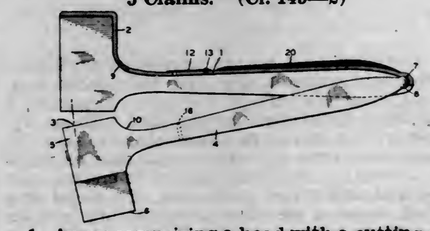
8. A fastener for wall board comprising, a wire clip extending at least partly around a beam and capable of shifting movement thereon under expansion and contraction of the beam, and prongs carried by said clip for engagement and support of wall board.

2,325,767
MICROMETER GAUGE
Paul Glouton, Philadelphia, Pa.
Application April 9, 1941, Serial No. 387,641
5 Claims. (Cl. 33—147)



1. In a micrometer gauge, the combination with a housing, a pair of cooperatively connected slides movable in said housing and having caliper elements connected therewith, means including a cam in said housing and rotatable about its axis for shifting one of said slides longitudinally of the other, and means comprising a slide movable transversely to said last named slide and a lever rocking about the axis of said cam for securing it in various positions relatively to said axis.

2,325,768
AX
Fred C. Greene, Freeport, Maine
Application October 25, 1940, Serial No. 362,715
5 Claims. (Cl. 145—2)



1. An ax comprising a head with a cutting edge,

a haft attached to the head, a casing for said head having an opening, a slotted handle attached to the casing, a portion of said handle having a contour suitable to render it usable as a grip, a socket at one end of said handle and a ball at one end of said haft fitted within said socket whereby the ax head may be rotated and inserted in the opening in said casing in a shielded position or a cutting position and means for securing the haft within the handle.

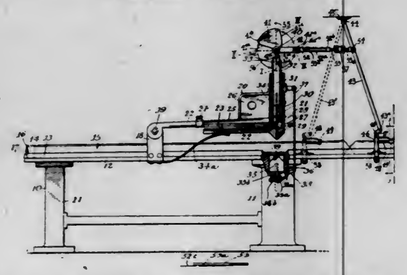
2,325,769

MACHINE FOR MANUFACTURING LINKED SAUSAGES

Joseph Haag, New York, N. Y., assignor of sixty-six and two-thirds per cent to Julian J. Wittal, New York, N. Y.

Application November 3, 1937, Serial No. 172,520

8 Claims. (Cl. 17—34)



1. In a device for sub-dividing a long "primary" sausage into links, means to shape and constrict portions of the sausage at pre-determined distances from one another, and means to apply securing elements to keep said constricted portions in such condition, said shaping and constricting means comprising heads adapted to approach one another for such constricting operation, and separate thereafter, said heads when they are closed upon the sausage co-acting in the application of said securing elements.

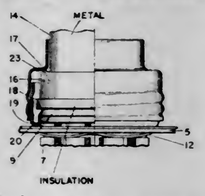
2,325,770

ELECTRICAL SHIELDING AND LOCKING MEANS FOR THERMIONIC TUBES

Kenneth L. Henderson, Irondequoit, N. Y., assignor to Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y., a corporation of New York

Application February 18, 1943, Serial No. 476,360

2 Claims. (Cl. 250—27.5)



1. The combination with a metal support having thereon a socket provided with contactors, and a thermionic tube of the type comprising a cup-shaped metal envelope provided with an offset rim portion as well as a base joined to said rim portion, said base including insulating material with contactors mounted thereon to engage said socket and said socket contactors, of a metal ring secured at one of its edges in contacting relation with said support to project from a position on said support where it encircles the base of said tube mounted in said socket, and an annular metal member having an inwardly offset portion conforming to the offset rim portion of said envelope, said member being provided with means interlocking it in telescopic relation with said ring and with said tube rim portion firmly engaged by said inwardly offset portion of said member whereby said tube is retained in said socket and whereby electrical leakage at the juncture of said tube base with said support, is obviated.

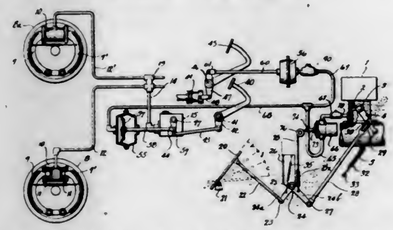
2,325,771

THROTTLE BRAKE CONTROL MECHANISM

Stanley R. Hemphill, Seattle, Wash.

Application December 16, 1940, Serial No. 370,380

3 Claims. (Cl. 192—3)



1. In a vehicle of the character described, a suction energized braking system, a suction manifold, a pipe connecting the suction manifold with the braking system, a valve interposed in said pipe and adjustable for a controlled application of suction to the braking system, an engine throttle valve lever, means yieldably retaining the said throttle valve lever at its closed position, a foot pedal, a pivotally mounted bell crank lever, a link connecting the pedal and one arm of the bell crank, an operating connection between the bell crank and valve including a yieldable member, a link connecting the other arm of the bell crank and throttle valve lever, and including a lost motion connection and a spring connected with the bell crank to yieldingly urge the foot pedal to its fully lifted position; said pedal being adapted to be depressed through an initial interval of travel for actuation of the pipe valve progressively from a full open to closed position without actuation of the throttle lever due to said lost motion connection, and adapted to be actuated through an additional interval due to said yieldable member for functional actuation of the throttle control lever while the brake control valve remains closed.

2,325,772

KITCHEN HEATING GAS RANGE

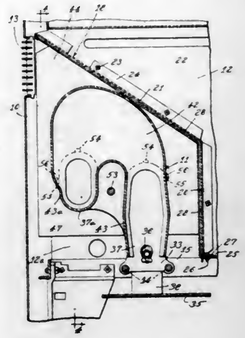
John F. Hennessy, Rockford, Ill., assignor to Geo. D. Roper Corporation, Rockford, Ill., a corporation of Illinois

Application September 5, 1939, Serial No. 293,388

7 Claims. (Cl. 126—90)

1. A heater of the class described, comprising a housing defining an air heating compartment and including a substantially vertical back wall and an end wall having an upper warm air discharge opening provided therein, said air heating compartment being open at the bottom for intake of air to be heated, a gas heated radiator supported substantially vertically in said compartment, the radiator being of inverted J-shape and including a burner in the lower end which is in the bottom of said compartment, the upper crook end of said radiator having an outlet for the discharge of products of combustion

from said burner, a radiator enclosing hood for conducting air from the open bottom of the compartment upwardly around the radiator and directing the heated air laterally from the upper portion of said compartment through the air discharge opening in the aforesaid end wall, and a sheet metal combination heat radiating and expansion box disposed between the back wall of



said compartment and said radiator and having an inlet opening provided in one side thereof communicating with the radiator for discharge of products from the radiator into said box, and said box having another opening provided in the opposite side thereof for discharge of products therefrom.

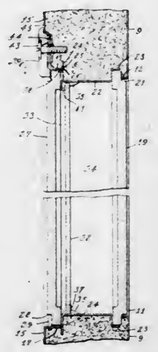
2,325,773

OVEN OBSERVATION WINDOW CONSTRUCTION

John F. Hennessy, Rockford, Ill., assignor to Geo. D. Roper Corporation, Rockford, Ill., a corporation of Illinois

Application July 18, 1940, Serial No. 346,122

13 Claims. (Cl. 126—200)



1. A structure of the character described comprising, in combination, a unitary body member formed by an inner or rear sheet metal panel having an opening defined by a forwardly extending flange, and an outer or front sheet metal panel having an opening defined by a rearwardly extending flange, a separate unitary spacer frame located between the said front and rear panels and adapted to be assembled in said body through the opening in one of said panels, the said spacer frame having an outwardly extending peripheral flange on its rear edge and a rabbet portion formed on its front edge, a front glass pane having a shouldered peripheral edge portion, the said pane being positioned within the rabbeted edge of said spacer frame with its shoulder disposed in engagement with the edge of the rearwardly extending flange of the front panel, a rear glass pane fitting within the forwardly extending flange of said rear panel in abutment with the outwardly extending flange on the rear edge of the spacer frame, means for holding said rear pane in place in the rear panel at two of its adjacent corners, a demountable clamp bearing against a diametrically opposite edge of said pane, and means for detachably securing said clamp on said rear panel.

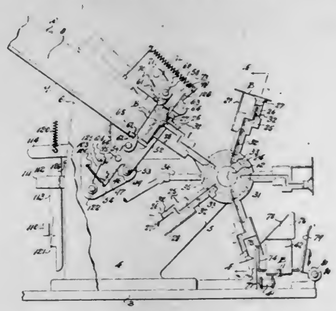
2,325,774

PACKAGING MACHINERY FOR RAZOR BLADES AND LIKE ARTICLES

George I. Hohl, East Orange, N. J.

Application July 28, 1942, Serial No. 452,590

15 Claims. (Cl. 271—12)



1. In a machine of the kind described, a revolved pick-up wheel having blade gripping means spaced around the periphery thereof, a fixed blade supply stack magazine inclining downwardly toward said pick-up wheel with its discharge end aligned substantially in the path of movement of said blade gripping means, upper and lower lift dogs movable into and out of said magazine, and means to produce timed actuation of said lift dogs, whereby inward movement of said lift dogs operates to lift and support a major portion of the blade supply stack and separate the same from a lower free minor portion thereof located at the discharge end of the magazine, while outward movement of said lift dogs operates to release said major portion so as to effect replenishment of the minor portion after the latter has been diminished by the blade withdrawing action of said pick-up wheel.

2,325,775

WINDOW OPERATOR

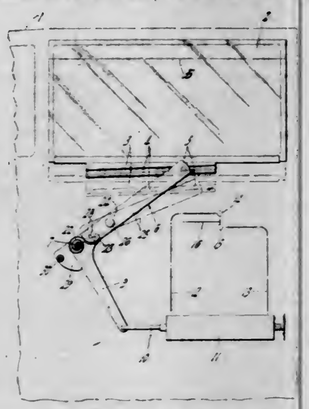
Erwin C. Horton, Hamburg, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.

Application June 30, 1941, Serial No. 400,522

10 Claims. (Cl. 268—125)

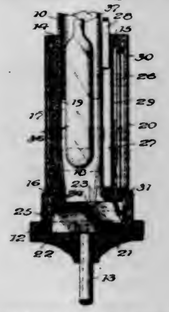
1. A window operating mechanism for an automobile window comprising a lever having a work arm connectible to the window and a power arm connectible to a motor one arm comprising inner and outer sections pivotally connected together with means for locking the sections together to operate as a unit, a spring acting on the outer arm section to urge the lever to a window closing position and adapted upon

disconnection of the arm sections to reverse the urge on the outer section toward a window open-



ing position, and means for rendering the locking means inoperative.

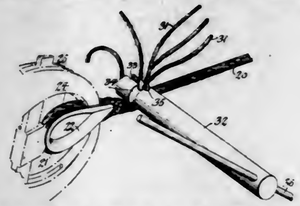
2,325,776
HYDROMETER
Arnold Hoyer, Conshohocken, Pa., assignor to Kimble Glass Company, Vineland, N. J., a corporation of Illinois
Application March 26, 1940, Serial No. 326,086
2 Claims. (Cl. 265—46)



1. In combination with a hydrometer having a transparent barrel, a flexible sleeve mounted on said barrel and having radial flanges at the ends thereof, a transparent cylinder fitting closely over said flanges to form a space between the cylinder and the barrel, said space being sealed off from the barrel, a suction nozzle on said cylinder, a plug in said cylinder, said plug having two communicating pockets, one in communication with the barrel, the other communicating with said nozzle, a thermometer disposed in the space between said sleeve and said barrel, said thermometer passing through one of said flanges and having its bulb portion disposed in said one pocket, and a transparent cursor mounted on said cylinder for movement relative thereto, said cursor having thereon indicia selectively superposable over the thermometer for determining the freezing temperature of liquid in the hydrometer.

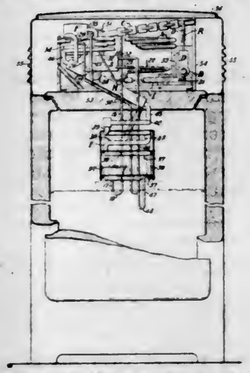
2,325,777
TOOL FOR SPLICING CABLES
Isidore Jacoel, Buffalo, N. Y.
Application December 12, 1942, Serial No. 468,796
6 Claims. (Cl. 57—23)

1. A tool for tightening the strands of a cable for splicing the same, comprising a rod provided in its front part with a longitudinal slot opening at the front end of the rod and adapted to re-



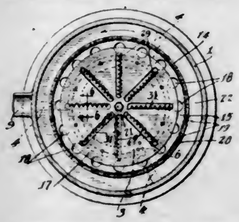
ceive a strand of the cable which is to be tightened.

2,325,778
REFRIGERATION
William H. Kitto, Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application September 8, 1941, Serial No. 409,924
19 Claims. (Cl. 62—119.5)



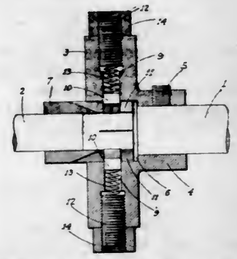
4. An absorption refrigerating apparatus comprising a condenser, an absorber, a vertically extending evaporator below said condenser and absorber, an inert gas circuit including said absorber and evaporator, means for placing inert gas in said circuit under a raised pressure and means for utilizing a portion of said gas at its raised pressure for purging said evaporator of unevaporated liquid.

2,325,779
JUICE EXTRACTOR
Frank J. Kraber, Los Angeles, Calif.
Application July 28, 1941, Serial No. 404,341
5 Claims. (Cl. 146—76)



1. In a juice extractor, a rotary shredding knife having a plurality of upstruck teeth, a passage through said knife adjacent to said teeth, a centrifugal strainer, a spiral feed for feeding vegetables to said knife, said spiral feed having an exterior surface adjacent to said knife and positioned with a minimum of clearance between it and said shredding knife whereby said upstruck teeth and said surface cooperate with each other to shred said vegetables and hurl said shredded vegetables through said knife against said centrifugal strainer.

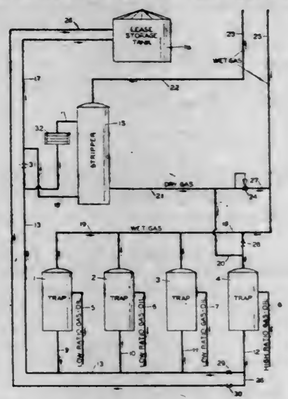
2,325,780
YIELDABLE COUPLING
Le Roy Langford, Toccoa, Ga., assignor to R. G. Le Tourneau, Inc., Stockton, Calif., a corporation
Application July 25, 1942, Serial No. 452,257
2 Claims. (Cl. 64—29)



1. A yieldable drive coupling adapted for connection between adjacent ends of alined shafts, comprising a radially disposed disc of substantial thickness, an axial hub projecting from the disc adapted to be secured on the adjacent end of one shaft, the disc having an axial bore open to the side of the disc opposite the hub, a rotary sleeve engaged at one end in said bore with a running fit, the other end of the sleeve being adapted to receive and be secured to the adjacent end of the other shaft, a plurality of circumferentially and symmetrically spaced radial passages in the disc open to said bore, and spring pressed dogs slidable in said passages and engaging the sleeve, the latter having corresponding recesses in which said dogs normally but releasably seat, whereby the disc and sleeve are normally in driving relation; said sleeve being adjustable axially for a limited extent and relative to the disc, said recesses being longitudinal grooves.

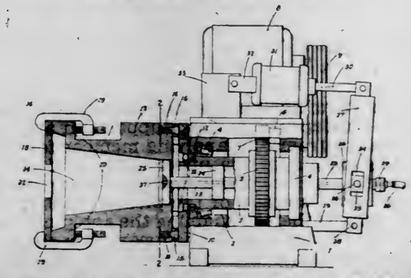
2,325,781
GAS SEPARATION SYSTEM
Harold R. Legatski, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application March 3, 1941, Serial No. 381,563
1 Claim. (Cl. 183—114.5)

In a process for recovering volatile condensable hydrocarbons from the liquids produced from oil wells producing fluids having relatively low gas-oil ratios and from the gas produced from oil wells producing fluids having relatively high gas-oil ratios, the steps comprising separating a liquid component and a gaseous component from the fluids produced at low gas-oil ratios, said gas being a wet gas containing a relatively high percentage of condensable hydrocarbons, separating a liquid component and a gaseous component from the fluid produced at high gas-oil ratios, said gas being a dry gas containing a relatively low percentage of condensable hydrocarbons, contacting the liquid component of the fluid produced at low gas-oil ratios with the gaseous component of the fluid produced at high gas-oil ratios, whereby volatile condensable hydrocarbons are transferred from the liquid component to the gaseous component forming a second stream of wet gas, and sepa-



rating the second stream of wet gas from the liquid component.

2,325,782
ROTARY DIE CASTER
Robert G. Le Tourneau, Peoria, Ill., assignor to R. G. Le Tourneau, Inc., Stockton, Calif., a corporation
Application May 1, 1942, Serial No. 441,290
5 Claims. (Cl. 22—65)



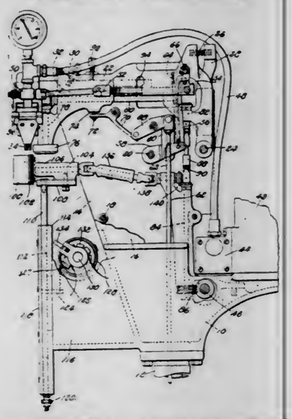
1. In rotary die casting apparatus, a driven face plate, a rotary die projecting axially and concentrically from said face plate, and means mounting said die in connection with the face plate so as to automatically compensate for heat expansion of the die while maintaining the concentricity thereof; said means comprising drive links pivotally connected between the face plate and the adjacent portion of the die for swinging movement about axes parallel to the axis of the face plate.

2,325,783
SEPARATION OF LOWER POLYHYDRIC ALCOHOLS FROM POLYHYDRIC ALCOHOL MIXTURES
Eugene J. Lorand, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 7, 1940, Serial No. 355,807
6 Claims. (Cl. 260—637)

4. A process for separating polyhydric alcohols containing from 2 to 4 carbon atoms from a mixture containing such polyhydric alcohols in admixture with polyhydric alcohols of more than 4 carbon atoms which comprises the steps of

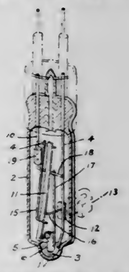
bringing the mixture into contact with a ketone which is a solvent for the 2 to 4 carbon atom polyhydric alcohols but which has no substantial solvency power on the polyhydric alcohols of more than 4 carbon atoms, agitating the liquids, allowing a separation into two phases, removing the resultant phase containing the major proportion of the solvent and recovering the 2 to 4 carbon atom polyhydric alcohols."

2,325,784
CEMENTER FOR PLATFORM SOLE AND WEDGE HEEL UNITS
Wilbur L. MacKenzie, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application August 14, 1941, Serial No. 406,763
6 Claims. (Cl. 12—80)



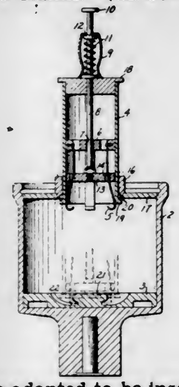
1. In a machine for coating sole-like shoe parts, a frame, a depressible work support, an arm pivoted on the frame, an applying member for coating the margin of the upper surface of such a shoe part, said applying member being carried by said arm laterally of the pivot and above the work support thereby enabling the applying member to be moved toward and away from the work support and coacting with the work support to provide a space into which a work piece may be moved laterally, and a gage carried on said pivoted arm beside said applying member and extending below it for contact with the periphery of said shoe part moved laterally thereagainst.

2,325,785
ENCLOSED MERCURY SWITCH
Ira E. McCabe, Chicago, Ill.
Application April 27, 1942, Serial No. 440,685
4 Claims. (Cl. 200—112)



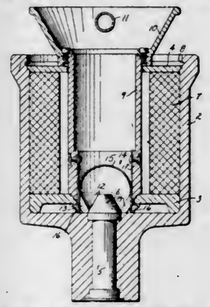
4. A tiltable magnetically actuated electric switch including a sealed container, a well formed of the walls of the container, a pool of mercury contained in the well, a fixed electrode extending into the well, a magnetically attractable movable electrode, means for maintaining a portion of the mercury in positive fixed contact relation with the movable electrode throughout various tilted positions of the switch comprising a capillary tube supported from the fixed electrode having its lower end submerged in the well and presenting a meniscus of mercury drawn from the pool at contact level with the movable electrode and magnetic means to actuate the movable electrode to engage and disengage the meniscus of mercury.

2,325,786
SPINNING BOX
Henry J. McDermott, Prospect Park, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application February 27, 1942, Serial No. 432,707
9 Claims. (Cl. 57—76)



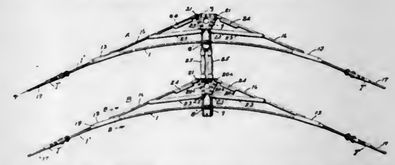
1. A device adapted to be inserted into a spinning bucket for removing a cake-supporting member therefrom comprising means for gripping said member, and a guiding surface on said device extending substantially the entire length of that portion of the device to be inserted into said bucket.

2,325,787
CENTRIFUGAL SPINNING BUCKET
Henry J. McDermott, Prospect Park, and Richard W. Stanley, Drexel Hill, Pa., assignors to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application February 27, 1942, Serial No. 432,708
20 Claims. (Cl. 57—76)



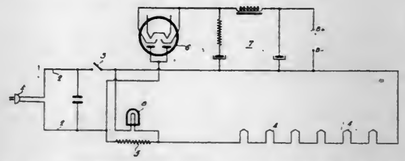
1. In combination, a spinning bucket having a removable cake-supporting element provided with a seat facing at least partially away from the bottom of the bucket, means for removing said element comprising a substantially rigid member terminating in a portion adapted to seat itself firmly upon the seat portion of said element, and means for securing said removing means to said element with the member firmly seated upon the element.

2,325,788
TROLLEY WIRE SUPPORT
Samuel S. Matthes, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a corporation of New Jersey
Application January 16, 1940, Serial No. 314,117
24 Claims. (Cl. 191—40)



1. A trolley wire support for use on a curve in an overhead system comprising, a curved bar of metal having one edge adapted to guide a current collector, the bar being yieldable in the direction of its curvature whereby the radius of curvature may be changed to meet requirements, means at each end of the bar to hold the trolley wire in predetermined position relative to the bar, a strain plate positioned transversely of and attached to the bar adjacent its longitudinal center and projecting to opposite sides of the bar, the projecting portions having means to attach supporting means thereto and being depressed to bring the supporting means in substantial lateral alignment with said guide edge of the bar, tension rods extending from the end portions of the bar to the strain plate and means on the plate to attach the free end of the rods thereto to maintain the curvature of the bar, and other means on the plate to which the free ends of the rods may be attached in order to change the curvature of the bar and maintain such changed curvature.

2,325,789
PILOT LIGHT CIRCUIT FOR RADIO RECEIVERS AND THE LIKE
Ambrose C. Miller, Glenside, Pa., assignor to Philco Radio and Television Corporation, Philadelphia, Pa., a corporation of Delaware
Application November 22, 1941, Serial No. 420,124
6 Claims. (Cl. 250—27)



5. In a radio receiver, a plurality of tube heater elements connected to a power supply line, a pilot lamp connected across said supply line and adapted to receive substantially the full line voltage, and means for materially reducing the voltage across said lamp during initial operation and for increasing the voltage across said lamp during subsequent operation.

2,325,790
DIALLYL MALEATE AS AN INSECTICIDE
William Moore, Stamford, and Richard O. Roblin, Jr., Old Greenwich, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application August 30, 1941, Serial No. 408,996
2 Claims. (Cl. 167—22)

1. A method of combating sucking, soft-bodied and scale insects and their eggs which include applying thereto a toxic quantity of diallyl maleate.

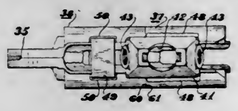
2. An insecticidal composition containing a toxic quantity of diallyl maleate.

2,325,791
DIAMYL MALEATE AS AN INSECTICIDE
William Moore, Stamford, and Richard O. Roblin, Jr., Old Greenwich, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application August 30, 1941, Serial No. 408,997
2 Claims. (Cl. 167—22)

1. A method of combating sucking, soft-bodied and scale insects and their eggs which includes applying thereto a toxic quantity of diamyl maleate.

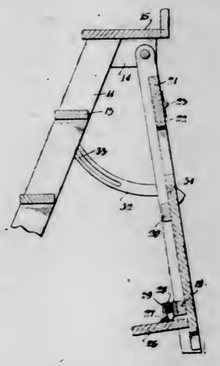
2. An insecticidal composition containing a toxic quantity of diamyl maleate.

2,325,792
METHOD OF MAKING MINING MACHINE CHAIN LUGS
Harry M. Morrow, Canton, Ohio, assignor to The Bowdil Company
Application January 15, 1941, Serial No. 374,521
4 Claims. (Cl. 29—148)



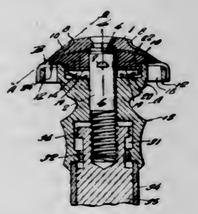
1. The method of constructing a mining machine chain lug having a link portion and a bit carrying body portion mounted on the top of the link portion, said link portion having at one end thereof an eye connection portion and having at the other end thereof a yoke connection portion, said method comprising the steps of making the link portion by constructing two substantially allochiral link members, the steps of making each link member including forming on one end thereof an eye connection portion with substantially flat inner and outer surfaces and on the other end thereof a yoke connection portion with substantially flat inner and outer surfaces, and laterally offsetting the inner and outer surfaces of the yoke connection portion relative to the inner and outer surfaces, respectively, of the eye connection portion, fastening the two substantially allochiral link members together to form the completed link portion by placing the two inner surfaces of the eye connection portions against each other and then welding the two eye connection portions together with the yoke connection portions spaced apart to receive the eye connection portion of an adjacent chain lug, making a bit carrying body portion and welding the bit carrying body portion to the top of the two link members to make the finished chain lug.

2,325,793
STEPLADDER
William Mumbrauer, New York, N. Y.
Application February 12, 1942, Serial No. 430,545
3 Claims. (Cl. 228—67)



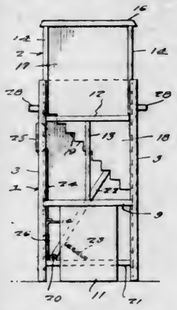
1. In a stepladder as described a flat member hingedly secured at one end to one of the stepladder members, a platform at the opposite end of said flat member constituting part of a locking means, inwardly extending in the inoperative position of the said member, and outwardly extending from said flat member in its operative guard position to act as a support for working implements, a spring controlled latch co-operating with the said platform to lock the flat member in its inoperative position, and a loop pivoted to the sides of said flat member and a recessed member on top of said stepladder, said recessed member co-operating with said loop to act as a locking member for the guard in its upwardly extended position, the recess in said member presenting a fingerhold for engaging said loop to turn the same about its pivots for releasing the locking position of the loop and allowing a return of the flat member into its inoperative position.

2,325,794
SAFETY RAZOR
John Warren O'Mealey, Boston, Mass.
Application January 2, 1940, Serial No. 312,120
3 Claims. (Cl. 30—71)



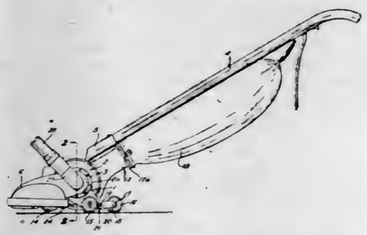
1. In a safety razor including upper and lower head parts and means for holding a blade between the said parts in an upwardly bowed position with its cutting edge bowed downwardly, a guard bar at one side edge of the lower head part and spaced therefrom, the adjacent side edge of the upper head part having a thin edge which curves upwardly from its center toward each end, the upper edge of the guard bar being correspondingly curved to align therewith.

2,325,795
COMBINED KITCHEN STOOL AND STEPLADDER
Percy L. Pace, Mount Shasta, Calif.
Application May 13, 1942, Serial No. 442,800
2 Claims. (Cl. 155—42)



2. A combined kitchen stool and step ladder comprising a stationary lower unit open at its top and including a plurality of vertical walls, an upper unit, including a seat, telescopically mounted in said lower unit for vertical sliding adjustment, said upper unit further including side and back members, said back member comprising a depending extension having an inclined series of notches therein, a prop pivotally mounted in the lower unit and engageable selectively in the notches for releasably securing the upper unit in adjusted position, and means for actuating said prop, said means including a spring connected to the prop for swinging said prop in one direction for engagement in the notches, and a manually operable flexible element connected to the prop for swinging said prop in the opposite direction and out of engagement with the notches.

2,325,796
SUCTION CLEANER
Frank L. Pierce, Garden City, N. Y., Harry B. White, North Canton, Ohio, and Uncas A. Whitaker, New York, N. Y., assignors to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application January 29, 1940, Serial No. 316,092
10 Claims. (Cl. 15—9)

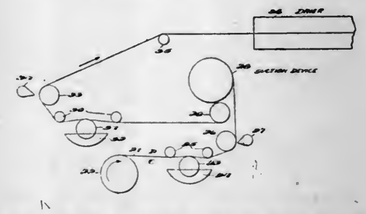


1. In a suction cleaner, the combination of a body, front and rear supporting wheels mounted on said body with the center of mass of said body substantially nearer said rear wheels than said front wheels, a handle pivotally mounted on said body to swing in a vertical plane from front to rear, means for limiting the rearward swinging movement of said handle to a lowered position short of contact with the floor, and an auxiliary wheel mounted on said body rearwardly beyond the rearmost supporting wheels and adapted to limit the backward tilting of said body under the weight of said handle when released in its lowered position.

2,325,797
MANUFACTURE OF 3-NITRO-4-AMINO ANISOL
Roy A. Pizzarello, Mount Vernon, N. Y., assignor to Interchemical Corporation, New York, N. Y., a corporation of Ohio
No Drawing. Application October 21, 1941, Serial No. 415,949
3 Claims. (Cl. 260—562)

1. The method of preparing a 3-nitro derivative of a 4-blocked amino substituted anisol in substantially technically pure state in high yield, which comprises bringing substituted anisol into contact with from 1½ to 2 mols of nitric acid diluted with water to a strength of 20 to 25%, allowing the exothermic reaction to proceed without external heat until the maximum temperature obtainable is reached, diluting with further water to cool the solution, and recovering the resultant precipitated product.

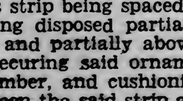
2,325,798
COATING FLEXIBLE WEBS
Laurence W. Porter, Westbrook, Maine, assignor to S. D. Warren Company, Boston, Mass., a corporation of Massachusetts
Application June 3, 1940, Serial No. 338,661
3 Claims. (Cl. 117—68)



2. Method of coating a paper web as the same is being continuously advanced, which comprises applying to one side of the web a controlled quantity of a fluid coating composition comprising a liquid and a suspended solid, spreading the composition into a smooth and even layer on the web by means of an air jet while firmly supporting the reverse side of the web, applying suction to said reverse side of the web whereby to withdraw excess liquid from the coating layer into the interior of the web and to set the coating to a damp but non-mobile condition, promptly thereafter applying to the reverse side of the web a controlled quantity of fluid coating composition, spreading the composition into a smooth and even layer on said reverse side of the web by means of an air jet while firmly supporting the first coated side of the web carrying the set but still damp coating layer, and drying the so-coated web.

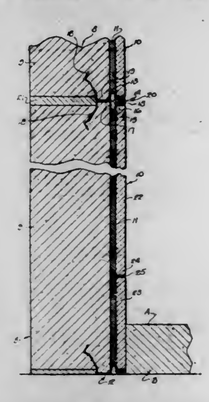
2,325,799
CURL HEATER
Melvin D. Pountain, Seattle, Wash., assignor of fifty-one per cent to E. Mary Brown, Seattle, Wash.
Application August 26, 1940, Serial No. 354,241
8 Claims. (Cl. 219—24)

7. A curler heater comprising a U-shaped member, an electrical heater element associated with one leg of said member and adapted to impart heat thereto, and means for conducting electrical energy to said element, the other leg of said U-shaped member forming a radiator



portion to engage a hair curler and lying wholly alongside said first mentioned leg and its heater element.

2,325,800
BUILDING UNIT
Erle T. Putnam, Detroit, Mich., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio
Application November 29, 1940, Serial No. 367,732
4 Claims. (Cl. 72—35)

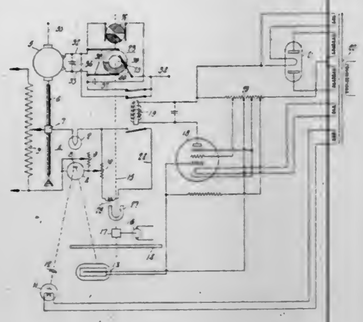


2. In an exterior wall construction, a plurality of blocks arranged to form a horizontal row set partially below the sidewalk line and each block comprising a body member, a glass facing therefor including a glass plate covering the entire front surface of said body member with the exception of a relatively narrow marginal portion along the bottom thereof and a separate strip of glass arranged beneath said glass plate and covering the bottom marginal portion of said body member, said glass strip being spaced from said glass plate and being disposed partially beneath the sidewalk line and partially above said sidewalk line, means securing said ornamental facing to said body member, and cushioning material interposed between the said strip and plate.

2,325,801
RECORDING POTENTIOMETER
Joseph Razek, Llanerch, Pa., assignor to Thwing-Albert Instrument Company, Philadelphia, Pa., a corporation of Pennsylvania
Application June 21, 1940, Serial No. 341,776
14 Claims. (Cl. 172—239)

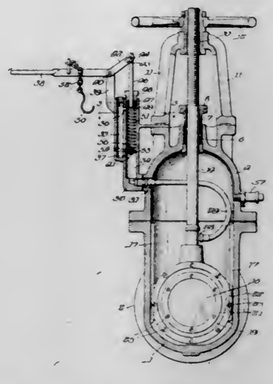
7. A normally balanced control system, comprising variable means for unbalancing the system, means for rebalancing the system, detecting means responsive to unbalance of the system, electro-optical means arranged cooperatively with said detecting means for controlling said rebalancing means, scanning means for controlling said electro-optical means, means for applying an electrical potential to the system to reduce

hunting, and common driving means for operating said scanning means and said last-named



means in predetermined positional relation with one another.

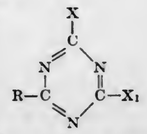
2,325,802
VALVE
Edward G. Schmidt and Chester W. Yant, Chicago, Ill., assignors to Crane Co., Chicago, Ill., a corporation of Illinois
Application December 22, 1941, Serial No. 423,910
6 Claims. (Cl. 251—65)



1. A gate valve comprising a casing, a gate closure mounted within the said casing, a stem therefor, guides within the casing for the said gate closure whereby transverse movement of the gate closure is substantially restrained, the said gate closure having peripheral grooves in each of its faces and a central bore, a flexible cover for each closure face annularly attached to the said closure member, means for supplying fluid under pressure within the peripheral grooves of the gate closure whereby inflation of each of the flexible covers is effected, the said gate closure having communicating passageways from each of said peripheral grooves to said central bore, the said stem having a central passage in communication with a passage in the said gate closure, the said means for supplying fluid under pressure comprising a pump adjacent the said valve, including flexible tubing movable with the said gate closure, the said pump comprising a fluid storage chamber and an adjacent cylinder having passageways interconnecting the chamber and the cylinder.

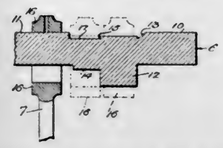
2,325,803
CONDENSATION PRODUCTS
Karl Schmidt, Cologne-Mulheim, and Ottomar Wahl, Leverkusen I. G.-Werk, Germany, assignors to General Aniline & Film Corporation, a corporation of Delaware
No Drawing. Original application July 28, 1937, Serial No. 156,140. Divided and this application August 20, 1940, Serial No. 353,382. In Germany August 6, 1936
6 Claims. (Cl. 260—248)

1. Condensation products corresponding to the general formula:



wherein R stands for the radical of a polynuclear aromatic angular hydrocarbon and X and X_1 stand for one of the group consisting of halogen and the radical of a polynuclear aromatic angular hydrocarbon.

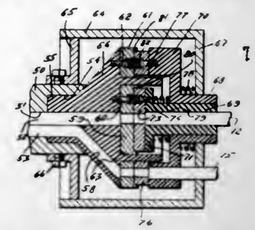
2,325,804
CRANKSHAFT
Malcolm G. Shoemaker, Abington, Pa., assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application August 17, 1940, Serial No. 353,143
4 Claims. (Cl. 74—595)



1. A crankshaft comprising at least two spaced axially aligned shaft portions of predetermined diameter, an eccentric crank portion of a diameter at least as great as said main shaft portions disposed intermediate said main shaft portions and providing a connecting rod bearing surface, said crank portion being recessed and offset with respect to the surface of said axially aligned main shaft portions, and a second recessed portion having an axial length at least as great as the axial length of the bearing surface of said crank portion interposed between the latter and one of said main shaft portions, said second recessed portion being recessed with respect to the surface of the main shaft portions in the direction of offset and a distance at least as great as the said crank portion, and the extreme projection of said second recessed portion in the direction of offset of the crank portion terminating inwardly of the extreme projection of said crank portion a distance at least as great as the distance that the crank portion is recessed with respect to the surface of said main shaft portions.

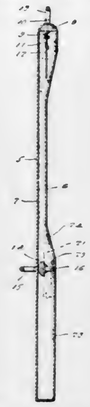
2,325,805
CABLE REEL TRUCK
John R. Shoffner, Kittanning, Pa.
Application November 25, 1940, Serial No. 367,150
3 Claims. (Cl. 191—12.2)

1. A cable reel truck comprising a frame, a conductor housing carried at a side of the frame, a reel having a tubular trunnion projecting from one end and rotatably supported in said housing, a plurality of co-axial insulation sleeves having tubular extensions slidably mounted in one end of the housing, conductors carried at the inner ends of the sleeves each having an electric cable connected thereto, an insulation member secured to the trunnion for rotation therewith,



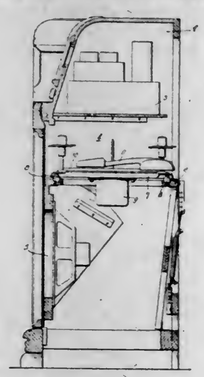
a plurality of conductors carried by the member and also having electric cables connected thereto and leading through the trunnion for winding on the reel and spring means mounted on the respective tubular extensions and engaging the sleeves for yieldably urging the conductors into engagement.

2,325,806
GARMENT CASE
James T. Simmons, Orlando, Fla., assignor of one-fifth to Chauncey A. Boyer, Orlando, Fla.
Application November 12, 1941, Serial No. 418,787
3 Claims. (Cl. 190—43)



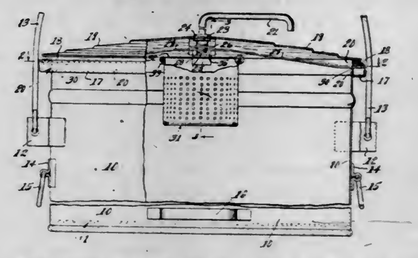
2. A garment carrier comprising an elongated flat substantially rectangular bag having closed ends and formed of foldable material, a rigid bar in one end of the bag extending lengthwise along said end and having a carrying handle attached thereto and extending out of said end whereby the bag at said end is prevented from deformation while being carried, a second rigid bar extending across the bag on the inside thereof and attached to one side of the same in a position to divide the bag into a lower section comprising substantially one-third of the bag and another section comprising substantially two-thirds of the bag, said second bar also having a carrying handle attached thereto and extending out of said side of the bag, said lower third section being foldable over said second bar to hang pendent therefrom when the second bar is lifted by said handle thereon, and said other section being foldable around and beneath the lower third section upon opposite sides thereof to partly conceal the same and dispose the handle first mentioned opposite to the handle of the second-mentioned bar for grasping of both handles to carry the folded bag.

2,325,807
PHONOGRAPH MOUNTING
Ingo L. Stephan, Delanco, N. J., assignor to Philco Radio and Television Corporation, Philadelphia, Pa., a corporation of Delaware
Application April 23, 1941, Serial No. 389,988
2 Claims. (Cl. 179—100.12)



1. In a phonographic sound reproducing apparatus of the cabinet type, having a motor, turntable, sound pickup, loudspeaker and an amplifier mounted within the cabinet; a device for minimizing microphonic feedback from the loudspeaker to the pickup, comprising a floating base member adapted to carry the motor, turntable and pickup, a foundation member within the cabinet, a plurality of conical spiral springs fixed in said foundation member and adapted to carry said floating base member, each of said springs being of stock substantially rectangular in cross-section, the height of the cross-section paralleling the longitudinal axis of the spring and being substantially greater than the width thereof, and means cooperating with the foundation member to rigidly secure said base member and foundation member together, said means being releasable and serving to position said floating base member with respect to said springs when in the released position.

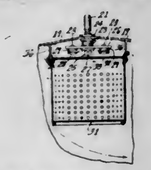
2,325,808
GARBAGE CAN
Michael T. Stephansko, Chicago, Ill., assignor of one-half to John Miska, Chicago, Ill.
Application October 23, 1941, Serial No. 416,165
7 Claims. (Cl. 220—25)



1. The combination with a can body having a

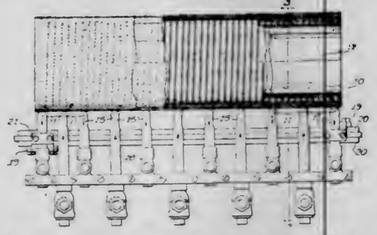
rim channel adjacent its top edge with a bottom portion and a top portion extending partially over the bottom portion, a cover having a depending flange within the top portion and engaging the bottom portion to close and seal said channel and fastening means carried by the cover and operable from the top thereof to engage said channel for securing said cover in position.

2,325,809
DISINFECTANT RECEPTACLE FOR GARBAGE CANS
Michael T. Stephansko, Chicago, Ill., assignor of one-half to John Miska, Chicago, Ill.
Application October 23, 1941, Serial No. 416,166
6 Claims. (Cl. 220—87)



1. A disinfectant receptacle for garbage cans and the like comprising a perforated receptacle having a cover hinged at one side and a catch for securing the same at the opposite side, said cover having diametrically opposite edge recesses normal to a line connecting the hinge and catch, a cover for the can, a hinge suspending the receptacle through one recess from beneath the can cover and a spring catch carried beneath the can cover to detachably engage the receptacle through the other recess.

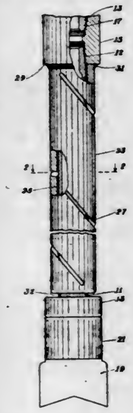
2,325,810
HEATING COIL
Harold A. Strickland, Jr., Detroit, Mich., assignor to Budd Wheel Company, Philadelphia, Pa., a corporation of Pennsylvania
Application September 19, 1941, Serial No. 411,579
6 Claims. (Cl. 219—13)



1. In an electric furnace an electrical conductive tubular coil having mulitple coil sections and formed of hollow conductors, the conductor ends of adjacent sections being diverted radially outward from the coil, the diverted ends lying in a common transaxial plane and the associated endmost turns of the coil sections forming together a turn of substantially the same pitch as the turns of the coil sections, whereby the sections together comprise a helical coil of uniform pitch.

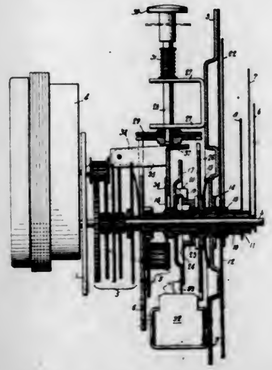
2,325,811
DRILLING SLEEVE
Charles F. Terrell, Jr., Olney, Ill., assignor to The Pure Oil Company, Chicago, Ill., a corporation of Ohio
Application October 2, 1941, Serial No. 413,246
11 Claims. (Cl. 255—28)

1. In a drilling string, the combination of sections of drill pipe connected by tool joints of greater diameter than the drill pipe, a weighting sleeve positioned on a lower portion of the string, said sleeve fitting loosely around the drill pipe and being engaged with an adjacent tool



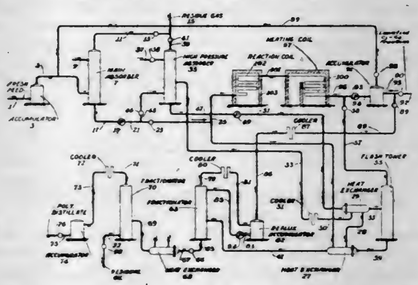
joint in such manner as to cause the sleeve to rotate with the string, said weighting sleeve having a helical slot therethrough whereby the flexibility of the weighting sleeve is materially increased.

2,325,812
CLOCK CONTROLLED MECHANISM
Elmer O. Thompson, Grasmere, N. Y., assignor to Philco Radio and Television Corporation, Philadelphia, Pa., a corporation of Delaware
Application September 6, 1941, Serial No. 409,886
6 Claims. (Cl. 200—39)



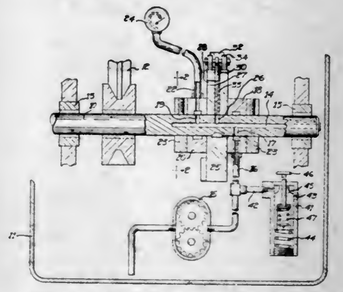
1. In a control device, a switch to be controlled comprising a member movable between two positions and biased to one of said positions, a timing mechanism, a controlling member rotated by said timing mechanism and slidably movable to control said switch member, manual means for sliding said controlling member in a direction to move said switch member to its other position, latching means for retaining said controlling member in its effective position until it has reached a certain point in its rotary cycle, and adjustable means for varying the point at which said latch means releases said controlling member, to thereby effect operation of said switch member at a selected time.

2,325,813
CONVERSION OF HYDROCARBON GASES
John W. Throckmorton, Wilton, Conn., assignor to The Pure Oil Company, Chicago, Ill., a corporation of Ohio
Application August 16, 1939, Serial No. 290,446
7 Claims. (Cl. 196—10)



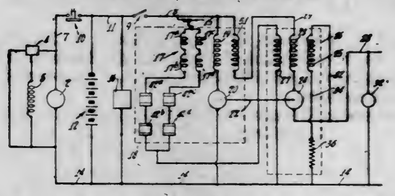
1. Process for converting normally gaseous hydrocarbons to hydrocarbons boiling within a range suitable as liquid motor fuel comprising subjecting said gases to suitable conditions of temperature and superatmospheric pressure for a sufficient period of time to convert a substantial portion of said gaseous hydrocarbons into liquid hydrocarbons, cooling the reaction products to below reaction temperature, further cooling the reaction products by heat interchange with partially stripped absorption menstruum followed by heat interchange with said absorption menstruum prior to the partial stripping thereof, contacting said cooled reaction products in an absorber with liquid absorption menstruum under superatmospheric pressure under such conditions that substantially only those fractions not suitable for recycling are unabsorbed, separating unabsorbed fractions from the system, removing rich menstruum from said absorber and heating the same by said second mentioned heat interchange step, separating at least a portion of the normally gaseous hydrocarbons, heating the partially stripped rich menstruum by said first mentioned heat interchange step, and separating material of motor fuel boiling range.

2,325,814
SPEED RESPONSIVE FLUID CONTROL MEANS
Tracy Brooks Tyler, Chicago, Ill., assignor to The Monopower Corporation, Detroit, Mich., a corporation of Michigan
Application May 9, 1938, Serial No. 206,955
7 Claims. (Cl. 192—105)



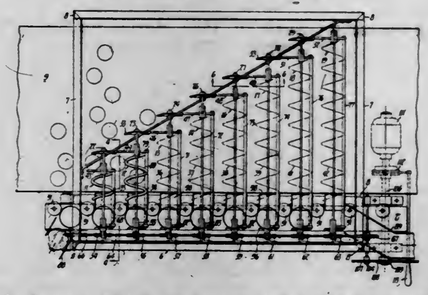
1. In combination with a rotatable element and a source of fluid under pressure, means for changing the effective pressure of the fluid from said source, comprising an escape valve connected to said source and adapted to be urged toward opened position thereby, said valve also being carried by and rotatable with said element, centrifugal means driven by said element and acting upon said valve to urge the same toward closed position with a force dependent upon the rate of rotation of said element, and resilient means interposed between said centrifugal means and valve to allow limited independent movement of the centrifugal means and valve.

2,325,815
ELECTRICAL SYSTEM
Louis H. Von Ohlsen and John J. Kennedy, New Haven, Conn., assignors to The Safety Car Heating and Lighting Company, Inc., a corporation of Delaware
Application May 14, 1941, Serial No. 393,380
8 Claims. (Cl. 171—312)



1. In an electrical booster set, an electromotive device having a motor portion with input leads connected to receive power from a source of variable voltage and having a generator portion which has the characteristic that it cooperates with the source in delivering to a load power at substantially constant voltage, the generator portion of said electromotive device having a magnetic field which is varied to control the output voltage, a main field winding to produce the major portion of said magnetic field, a stabilizing ballast lamp connected in series with said main field winding across the lines which supply power to the load, a differential field winding to neutralize a portion of the field flux produced by said main field winding with the result that the magnetic flux is thereby reduced, and means controlling the supplying of current to said differential field winding.

2,325,816
CONTAINER FILLING MACHINE
Lawrence W. Waters, Ontario, Calif.
Application July 16, 1940, Serial No. 345,739
12 Claims. (Cl. 226—14)



1. A can filling machine for packing a predetermined number of pieces of fruit or the like into a can comprising, a relatively broad movable conveyor for supporting a plurality of said pieces

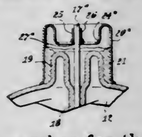
in side-by-side relation across and longitudinally of said conveyor, a plurality of conveyors connecting with said first conveyor and having their receiving ends spaced transversely across said first conveyor to remove longitudinal trains of said pieces on said first conveyor, said second named conveyors being arranged and driven to advance said pieces along said second conveyors at a predetermined rate and spacing, a can conveyor mounted to support a plurality of open top cans for movement into and out of registration with the discharge ends of said second conveyors, and means for driving said second conveyors and said can conveyor at synchronized speeds to deposit a predetermined whole number of said pieces into said cans during period of registration of the cans with each discharge end of said second conveyors.

2,325,817

CONTACT MEMBER AND ELECTRICAL DEVICE

Ward W. Watrous, Jr., East Orange, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application December 10, 1941, Serial No. 422,312
11 Claims. (Cl. 250—27.5)



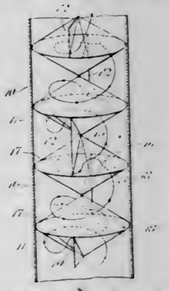
1. A contact member for the vitreous envelope of an electrical device comprising a metal cap for connection to said envelope around the exterior portion of a lead wire therefrom, the central portion of said cap being offset inwardly from the peripheral portion, providing a re-entrant cup-shaped portion, the base of said re-entrant portion having a part extending therefrom, terminating short of the plane of the outer surface of said peripheral portion, for welding to said lead beyond said aperture, thereby making it possible to avoid the use of readily fusible and corrosive materials which might result in deterioration of the connection.

2,325,818

VAPOR AND LIQUID CONTACTING APPARATUS

Alfred W. Weitkamp, Whiting, Ind., and Alex G. Oblad, Chicago, Ill., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana

Application April 30, 1941, Serial No. 391,146
3 Claims. (Cl. 261—94)



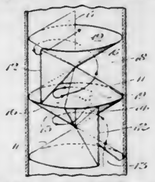
1. A fractionating apparatus for liquids comprising a column and a plurality of baffled cells therewithin between pairs of cones of capillary material arranged alternately base to base and apex to apex, the capillary openings of which are sealable with the liquid being fractionated, baffles of liquid-conducting capillary material extending transversely across the annular channels between the surfaces of said cones and in capillary liquid conducting contact with at least one of the adjacent cones, and vapor openings in said cones adjacent said baffles whereby ascending vapors being fractionated are forced to follow a tortuous path upward thru the apparatus in a substantially undivided stream.

2,325,819

VAPOR AND LIQUID CONTACTING APPARATUS

Alfred W. Weitkamp, Whiting, Ind., and Lawrence C. Brunstrum, Chicago, Ill., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana

Application April 30, 1941, Serial No. 391,147
3 Claims. (Cl. 261—94)



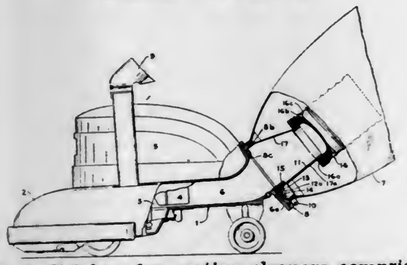
1. A fractionating apparatus for liquids comprising a column and a plurality of baffled cells therewithin between pairs of cones of capillary material arranged alternately base to base and apex to apex, the capillary openings of which are sealable with the liquid being fractionated, baffles of liquid-conducting capillary material extending transversely across the annular channels between adjacent cells, baffles of liquid conducting capillary material extending transversely across the circular channels within said cells, said baffles both between said cells and within said cells being in capillary liquid conducting contact with at least one of the adjacent cones and vapor openings in said cones adjacent said baffles whereby ascending vapors being fractionated are forced to follow a tortuous path upward thru the apparatus in a substantially undivided stream.

2,325,820

SUCTION CLEANER DIRT BAG

Harry B. White, Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio

Application May 16, 1940, Serial No. 335,481
7 Claims. (Cl. 183—40)



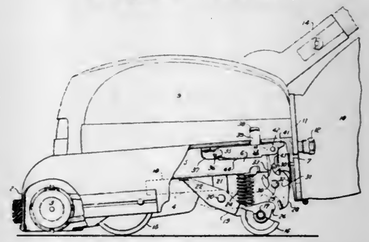
1. A dirt bag for suction cleaners comprising a fitting adapted for detachable mounting at the exhaust outlet of said cleaner, a spring-actuated hinged valve member mounted on said fitting and normally adapted to be held in position to close off the passage of air into said bag, and a valve operating member responsive to contact with the exhaust outlet of said cleaner to open said valve member and to hold the same in open position while said bag is attached to the cleaner.

2,325,821

SUCTION CLEANER

Harry B. White, Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio

Application May 4, 1942, Serial No. 441,653
5 Claims. (Cl. 15—9)



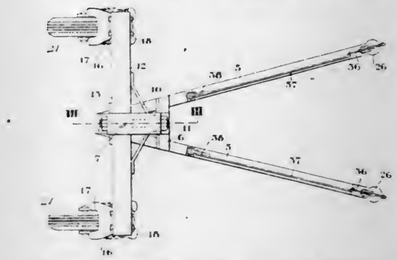
1. In a suction cleaner, a body including a nozzle, front and rear supporting wheels for said body, a frame movably mounting said one wheel for movement toward and from said body, resilient means urging said wheel from said body, a converter barrier carried by said frame and positioned to contact said body to hold said wheel at one distance from said body, a movable latch adapted to contact said frame to hold said wheel at a second distance from said body, and means to position said latch comprising a cam surface movable therewith, an operator-contactable plunger, and a pawl actuated by said plunger adapted to cooperate with said cam surface to move said latch.

2,325,822

TRUCK FOR TRAILER VEHICLES

Lewis W. Whitmer, Columbus, Ohio

Application May 28, 1941, Serial No. 395,637
2 Claims. (Cl. 280—33.4)



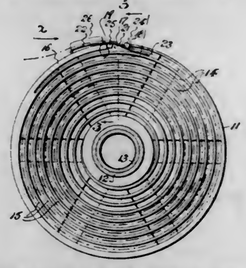
1. A trailer truck comprising a frame section having horizontally spaced forward ends, means for detachably coupling said forward ends to a motor vehicle to provide for vertical swinging movement of said frame section, a horizontally disposed pivot member supported at the rear portion of said frame with the longitudinal axis thereof in the same vertical plane as the longitudinal axis of said frame, a beam member supported on said pivot for rocking movement in a vertical plane extending transversely of said frame, caster wheels disposed at the ends of said beam member, and a coupling equipped load-support rigidly mounted on said frame over said pivot member.

2,325,823

DETACHABLE FILM LOADING GUIDE FOR DEVELOPING TANK REELS

Robert E. Wilson, Belleville, N. J.

Application December 16, 1942, Serial No. 469,176
6 Claims. (Cl. 242—76)



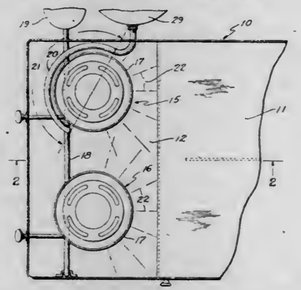
1. A detachable loading guide for a film strip developing reel, the latter being formed by spaced side discs provided with peripheral entrance ways leading to the outwardly open ends of their helical film receiving and coiling channels, comprising a guide member for bridging disposition between the reel side discs and adapted to enter through said entrance ways and into the outwardly open ends of the channels thereof, said guide member having opposed side wall portions to engage longitudinal edges of a film strip passed therealong, whereby to hold said strip aligned with said reel channels for movement through outwardly open ends thereof and thereinto, and said guide member having means cooperative with the reel disc rims for holding the guide member against displacement therefrom while manually propelling a film strip along said guide member and into said reel channels.

2,325,824

WATER HEATING UNIT FOR OIL BURNERS

William H. Wood, Jr., Ansonia, Conn.

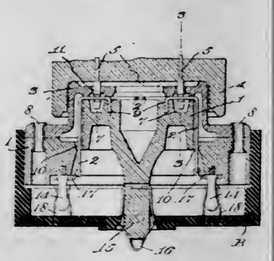
Application March 6, 1940, Serial No. 322,451
2 Claims. (Cl. 126—53)



1. In a cooking range having an oven and a fire box at the front thereof, a pair of spaced upright oil burners in the fire box having upright cylindrical shells, an upright water heater comprising a pipe extending back and forth in vertically spaced zig-zag arrangement located closely adjacent on the opposite side of one of the burners from the oven and curved to embrace only

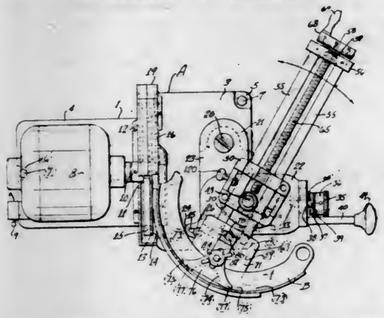
approximately one-half the circumference of the burner so that the space between the burner and the oven in clear, said heater being also located on the opposite side of the first burner from the second burner whereby the space between the burners is clear, and means for leading water to and from the water heater.

2,325,825
ELECTRON TUBE MOUNTING
Georg Baumbach, Berlin, Germany; vested in the Alien Property Custodian
Application October 30, 1941, Serial No. 417,088
In Germany July 2, 1940
3 Claims. (Cl. 173—344)



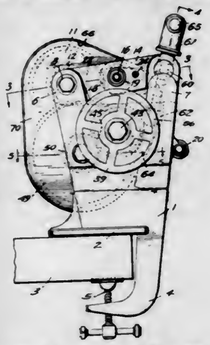
1. A socket adapter for electron tubes and the like comprising a pair of insulating members, one of said members being a base member and the other a cap member therefor, said base member being formed with an upwardly projecting mid-section having a substantially flat upper surface, said cap member having a recess formed in the underside thereof adapted to receive the upwardly projecting mid-section of said base member, said cap member being further shaped to engage the top of said base member near the outer portion of its upper surface, a plurality of radially disposed channels formed in the mid-section of said base extending only part way toward the center of said mid-section, each channel terminating in a relatively deep recess, channels formed in the under surface of said cap member in register with the first mentioned channels, there being one of said radial channels for each prong of an electron tube, a plurality of contact members, one for each of said channels, each of said contact members being formed from a single wire bent at its mid-section to form two parallel spring members of approximately hairpin-shape, said parallel members being further bent into substantially J-shape, adapted to be secured in said channels with the shorter arms of the contact members each depending into a recess at the end of the respective channels, other substantially vertical channels formed between said base and cap members to receive the longer arms of the contact members, contact prongs adapted to fit an electronic tube socket secured in the under surface of said base member, connections between the respective contact prongs and corresponding ones of said contact members, a plurality of openings in said cap members communicating with said channels for receiving the terminals of an electronic tube and a cavity formed in said cap and base members in the areas adjacent each of said holes to make room to permit the parallel wire sections of the respective contact members to spread apart when engaged by tube terminals inserted in said holes thereby permitting the tube terminals to extend between the wire sections and thus be gripped thereby.

2,325,826
GRINDING MACHINE
Harry B. Barrett, St. Louis, Mo.
Application April 3, 1941, Serial No. 386,668
12 Claims. (Cl. 51—124)



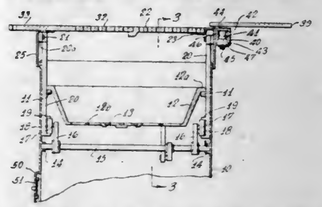
1. In a grinding machine, in combination, grinding means, a base, a jig-member pivoted on the base for oscillation, a pair of spaced parallel slide-bars extending lengthwise for movement through the jig-member, a block mounted on said rods for supporting a brake-shoe for oscillation with the jig-member relatively to the grinding means, and means for longitudinally shifting said bars for selectively locating the block and its supported shoe with respect to the grinding means and jig-member.

2,325,827
METALWORKING MACHINE
Maximilian v. Berlichingen and Margot v. Berlichingen, Jamaica, N. Y.
Application March 23, 1942, Serial No. 435,892
17 Claims. (Cl. 153—9)



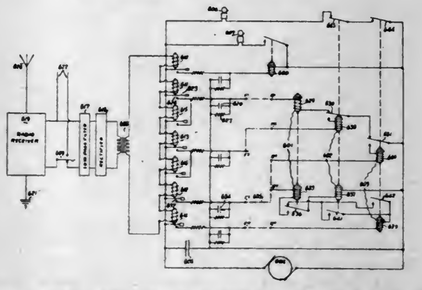
1. A metal-working machine having, in combination, rotatable cooperating work-deforming units between which the work to be deformed is placed, said units comprising a beaded roll and a peripherally grooved roll respectively and being rotatable in a common plane and relatively adjustable in the plane of rotation about a common axis perpendicular to the said plane for varying the distance between their work-engaging surfaces, a rotatable gear having its center of movement at the said common axis of adjustment of the work-deforming units, means for rotating the beaded roll, and gearing operatively connecting the work-deforming units with the said gear for transmitting the motion of the beaded roll through said gear to the peripherally grooved roll at a gear ratio causing the rolls to be rotated with the same circumferential speed.

2,325,828
OUTDOOR COOKING STOVE
Everett D. Betts, Fowlerville, Mich., assignor to Ann Arbor Foundry Company, Inc., Ann Arbor, Mich., a corporation of Michigan
Application January 5, 1942, Serial No. 425,613
6 Claims. (Cl. 126—25)



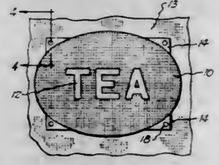
1. In a stove of the type described, a base portion, an ash door and damper located in the lower portion thereof, a fire box mounted in said base portion above the level of said ash door and damper, a cooking grate positioned above said fire box, a griddle pivotally located adjacent said cooking grate whereby said griddle may be positioned over said first box or positioned outwardly of said cooking grate and means whereby said cooking grate and griddle may be moved vertically relative to said fire box, said means comprising a shaft horizontally mounted in said base portion, cranks mounted adjacent each end of said shaft, said cranks engaging vertical reciprocating members, the upper portion of said members being connected to said cooking grate and griddle, and actuating means extending exteriorly of said base portion for causing rotation of said shaft and said cooking grate having a downwardly depending peripheral flange arranged in telescoping relation with the upper part of said base portion and serving to guide the same for vertical movement and also forming in effect a continuation of said base portion to close the side walls of said fire box when said grate is moved to its upper position.

2,325,829
SIGNALING SYSTEM
Hans P. Boswau, Lorain, Ohio, assignor to The Lorain County Radio Corp., Lorain, Ohio, a corporation of Ohio
Application June 10, 1940, Serial No. 339,709
3 Claims. (Cl. 177—353)



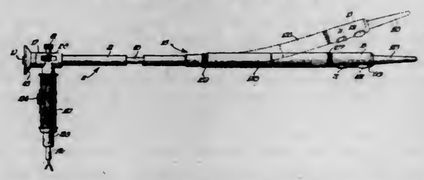
1. In combination, a plurality of circuit controlling reeds each responsive to a different frequency, means including a receiving system for selectively causing said reeds to vibrate in succession in accordance with successively received frequencies, a plurality of relays, each relay having a plurality of windings and each relay having circuit controlling armatures common to its plurality of windings and operated when any one of its windings is operated, connections for energizing the windings of the relays from different circuit controlling reeds in different combinations but for energizing the different windings of the same relay from different reeds, said connections including the circuit controlling armatures of the different relays in permutation and a final signaling circuit closed by the successive operation of the windings of relays in a given order.

2,325,830
DISPLAY
Richard Burdick, Dallas, Tex.
Application February 17, 1941, Serial No. 379,205
7 Claims. (Cl. 40—125)



6. A display including, a supporting medium of wire mesh fabric, a background element of substantially the same material as the medium to blend therewith when placed thereover, the element having display characters thereon, rigid metallic fastening means overlying portions of said background element, and means for securing the rigid fastening means to said medium, whereby the element is confined between said fastening means and the medium and said medium is reinforced by the fastening means.

2,325,831
CAVITY INSPECTION DEVICE
William J. Cameron, Chicago, Ill.
Application December 11, 1941, Serial No. 422,532
11 Claims. (Cl. 128—7)



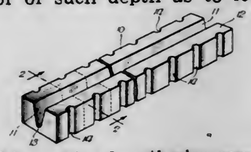
1. An instrument for cavity inspection, comprising tubular means having a flexible portion, a distal end comprising a housing for placement in a cavity to be inspected, and an ocular end having an eye-piece, a view transmitting member in said housing in position to receive a view within a field radially of the housing and to transmit the view longitudinally of the instrument to said eye-piece, and operable means for shifting the said transmitting member in said housing whereby to alter the field of view of the transmitting member.

2,325,832
MAGNET CASTING
Mitchell P. Christensen, Chicago, Ill., assignor to Belden Manufacturing Company, a corporation of Illinois
Application May 26, 1941, Serial No. 395,243
12 Claims. (Cl. 29—155.5)

1. A casting of difficultly machinable permanent magnet metal shaped in the form of a bar having at least one longitudinal channel in either the top or bottom face thereof of such depth

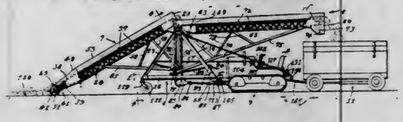
as to leave only a relatively thin section lengthwise connecting the portions of the bar-shaped casting on opposite sides of said channel, and having a plurality of grooves extending between the top and bottom faces in at least one side of the casting.

7. The method of making magnets each having a hole therethrough which comprises, casting difficultly machinable permanent magnet metal in the form of a bar having at least one longitudinal channel in either the top or bottom face thereof of such depth as to leave only a



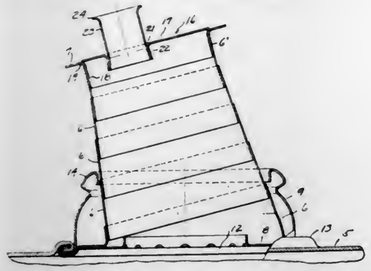
relatively thin section lengthwise connecting the portions of the bar on opposite sides of said channel and having a plurality of grooves extending between the top and bottom faces in at least one side of the bar, chopping said bar into relatively short lengths, breaking each of said short lengths in two at the thin section thereof so as to form a plurality of complementary pieces, and combining the pieces together to form multipiece magnets each of which has one of said side grooves forming a hole therethrough.

2,325,833
LOADER
Harold H. Cook, Steward, Ill.
Application February 2, 1942, Serial No. 429,271
10 Claims. (Cl. 198—233)



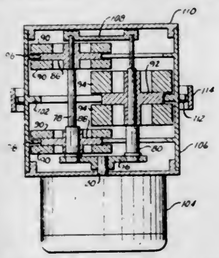
1. The combination in a loader for vine crops and the like of a rigid supporting frame having a base, spaced upstanding side members thereon, and an elevated transverse shaft connecting said side members, an automotive unit positioned at one end of said frame, means for supporting said end of said frame on said unit comprising spaced pivotal connections shaped for relative pivotal movement between said frame and said automotive unit about a horizontal axis only extending transversely of the frame and unit to support the frame thereon to maintain said unit and frame in longitudinal alignment with turning movement of the automotive unit, means for supporting the opposite end of said frame in spaced relation to the ground, a pair of conveyer sections mounted in end to end interfitting relationship on said shaft for angular adjustment of the free ends thereof, each of said sections comprising a rigid triangular frame structure, the bases of which fit below said shaft to provide space below one of said sections for said automotive unit, a pick-up device positioned on the free end of the forward section for picking up vine crops from the ground, conveyer means on said section for conducting said vine crops along said sections and depositing the same at the rearward end thereof, means engaging the frame of said forward section adjacent the low corner thereof and extending to the automotive unit for adjusting the angular position of the forward section and the elevation of said pick-up device, and means for driving said conveyer means and pick-up device from said automotive unit.

2,325,834
REDUCER ATTACHMENT FOR POURING SPOUTS
Harvey A. Craig, Darien, Conn., assignor to Rheem Manufacturing Company, Richmond, Calif., a corporation of California
Application November 26, 1940, Serial No. 367,170
2 Claims. (Cl. 221—27)



1. A collapsible spout combination, comprising a collar and a plurality of spout sections retractible one within another and tapered so as to provide sealed connections and limit the longitudinal displacement therebetween when the spout is in extended position, the section positioned outermost when the spout is extended being formed substantially cylindrical at the distal end and having a pouring lip extending outwardly from such end, an auxiliary spout section for reducing volumetric discharge from the first sections and arranged for extension from said outermost section, said auxiliary section having combined therewith a substantially cylindrical portion inserted within and frictionally engaging said outermost section, and said auxiliary section being positioned to lie within said outermost section and with its outer end substantially inwardly of the outer end of said collar when all of said sections are in retracted position.

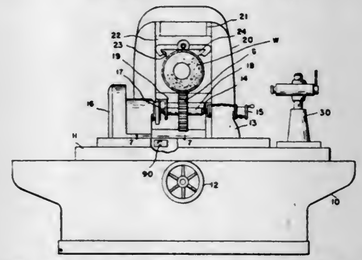
2,325,835
STABILIZER
Charles H. Deerwester, Washington, D. C., and Lester D. Bedell, Harrisburg, Pa.
Application June 25, 1941, Serial No. 399,762
7 Claims. (Cl. 74—604)



1. The combination, in a stabilizing device, of a rotatable driving member, pins revolvable in an orbit by said driving member, said pins having their axes parallel to each other and parallel with the driving member axis, axially spaced external gear wheels having a pitch diameter of substantially the distance between the axes of the pins, rotatable on one of the pins, an external gear wheel of the same said pitch diameter rotatable on the other pin and situated axially between the first said gear wheels, annular weight masses carried on said external gear wheels, the centers of gravity of diametrically opposite axial cross

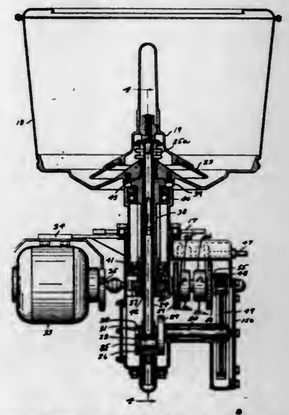
sections of said weight masses being spaced a distance equal to the pitch diameters of the said gear wheels, and internal gear wheels of twice the pitch diameter of the said external gear wheels surrounding and drivably engaging said external gear wheels, non-rotatably held with their axes coincident with the axis of the driving member.

2,325,836
GEAR CROWNING
Robert S. Drummond, Detroit, Mich.
Application May 5, 1941, Serial No. 391,997
8 Claims. (Cl. 51—33)



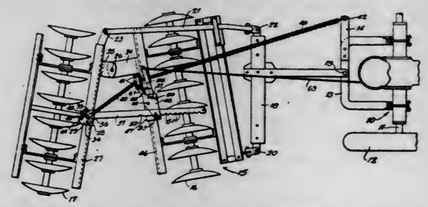
8. In a gear grinding machine having a reciprocable work carriage, a tool supporting sleeve adjacent said carriage, an eccentric bushing in said sleeve, means in said bushing for supporting a grinding wheel spindle, and means for rotating said bushing in accordance with the reciprocation of said carriage comprising a cam on said carriage and a cam follower engageable with said cam and operatively connected to said bushing.

2,325,837
DOMESTIC APPLIANCE
John B. Dyer, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application August 30, 1938, Serial No. 227,519
3 Claims. (Cl. 68—12)



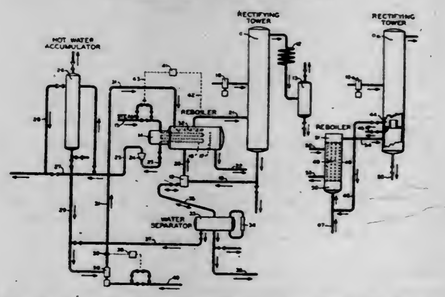
1. In a washing machine, a tub, a cleansing liquid reservoir, a first rinse liquid reservoir, a source of second rinse liquid, means for transferring cleansing liquid from the cleansing liquid reservoir to the tub, means for agitating the cleansing liquid within the tub, means for transferring the cleansing liquid from the tub to its reservoir, means for transferring the first rinse liquid to the tub, means for agitating the first rinse liquid in the tub, means for transferring the first rinse liquid to a place of disposal, means for introducing the second rinse liquid into said tub, means for agitating the second rinse liquid in the tub, means for transferring the second rinse liquid from the tub to the first rinse reservoir, and means for causing each of said means to operate in the sequence named.

2,325,838
IMPLEMENT CONTROL DEVICE
Jacob V. Dyrr, Bell, Calif., assignor to International Harvester Company, a corporation of New Jersey
Application August 31, 1942, Serial No. 456,770
6 Claims. (Cl. 55—83)



1. A harrow comprising a pair of gangs connected to one another for relative movement, a control bar extending between the gangs, releasable means acting against one side of the bar at one end thereof to hold the bar against relative movement with respect to one gang by engagement of the other side of the bar at the said one end thereof with the gang, means causing application of force tending to separate the gangs to make the other gang act against the one side of the bar at the other end thereof for making the said one end of the bar swing away from the said other side thereof to disengage said other side from the said one gang upon release of the releasable means, and means causing application of force tending to bring the gangs together to make said other gang act against said other side of the bar at the said other end thereof for making the said one end of the bar swing away from the said other side thereof to disengage said other side from the said one gang upon release of the releasable means.

2,325,839
RECTIFYING HYDROCARBONS
du Bois Eastman, Port Arthur, Tex., and Loren P. Scoville, Yonkers, N. Y., assignors, by mesne assignments, to The Texas Company, New York, N. Y., a corporation of Delaware
Application January 7, 1941, Serial No. 373,396
4 Claims. (Cl. 196—11)



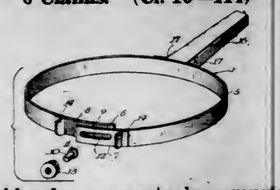
4. The method of rectifying gasoline that com-

prises subjecting the gasoline to rectification in a rectifying zone under superatmospheric pressure, passing liquid gasoline from the rectifying zone to a reboiling zone maintained under superatmospheric pressure, passing steam under a pressure lower than that obtaining in the reboiling zone in indirect heat exchange with liquid gasoline in said reboiling zone to thereby effect vaporization of lighter hydrocarbons contained in the gasoline and to condense a portion of the steam, separating resultant hot water from uncondensed steam, directing separated hot water into direct contact with gasoline in the reboiling zone to lower the partial pressure thereof, passing said lighter hydrocarbons and steam from the reboiling zone to the rectifying zone and subjecting hydrocarbon vapors and steam therein to reflux condensation to effect condensation of vapors and steam.

2,325,840
METHOD OF WATERPROOFING FUEL BRIQUETTES
John A. Erickson, Jackson, Mich.
No Drawing. Application April 4, 1941, Serial No. 386,839
2 Claims. (Cl. 44—10)

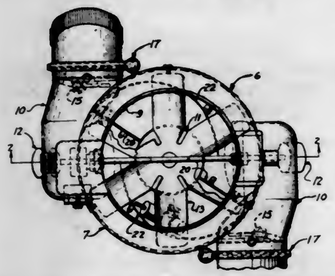
1. The method of waterproofing solid fuel briquettes having a starch binder which comprises heating a hydrocarbon, solid at ordinary temperatures, to a temperature to permit atomizing, atomizing the hydrocarbon in a finely divided spray, directing the atomized hydrocarbon onto a briquette mixture prior to briquetting while in motion in a mixing machine, while requiring the atomized hydrocarbon to pass through the atmosphere a sufficient distance to permit the same to solidify into finely divided particles before striking the briquette mixture, whereby the finely divided particles are mixed with the briquetting material, forming the briquetting material into briquettes at a temperature below the melting point of the hydrocarbon, heating the briquettes at a temperature below the melting point of the hydrocarbon, and raising the temperature of the briquettes above the melting point of the hydrocarbon to melt the finely divided particles of the hydrocarbon in the briquettes to waterproof the same.

2,325,841
HANDLE FOR UTENSILS
Robert E. Faber, Chicago, Ill., assignor to Chamberlain, Inc., Chicago, Ill., a corporation of Illinois
Application March 20, 1942, Serial No. 435,496
6 Claims. (Cl. 16—114)



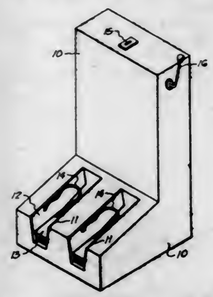
1. A holder for a receptacle comprising a resilient band having substantially flat free ends adapted to overlap over a wide range of adjustment to encompass receptacles of different sizes, the outer surface of one of said free ends and the inner surface of the other end, respectively, having complementary transverse serrations adapted to interlock when overlapped, and means for securing the ends of said band in overlapping locking engagement.

2,325,842
VENTILATING APPARATUS
Howard J. Findley, Shaker Heights, Ohio, assignor to Eaton Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application September 7, 1942, Serial No. 457,579
6 Claims. (Cl. 230—42)



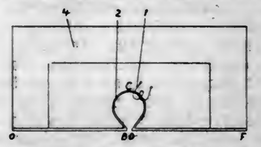
1. In combination, an air circulating unit comprising a housing defining an air collecting chamber therein, a propeller fan in said chamber driven by a reversible electric motor, an axially disposed air passage into said chamber, a plurality of arcuately spaced air passage means comprising swivelable and rotatable hollow members secured to the outer periphery of said housing, and dual radially and spirally arranged air deflector means disposed in the path of the air moved through said air chamber for substantially uniform efficiency of air movement in either direction of rotation of said fan.

2,325,843
SHOESHINING APPARATUS
Tilbert L. Finley, Bonham, Tex.
Application April 15, 1940, Serial No. 329,614
12 Claims. (Cl. 15—33)



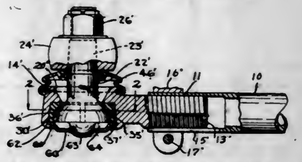
12. As a sub-combination in an apparatus, of the character described, a brush assembly including, a pair of spaced guide rails, means for mounting the rails to undergo both vertical and lateral movement, each rail being twisted upon itself so that its rear portion which is located contiguous to the heel of the shoe disposed between the rails is in a vertical plane with its forward portion overlying the toe of the shoe in a horizontal plane, a brush unit mounted on each rail and comprising a pair of carriers which are connected to each other by a universal connection, guide rollers within each carrier engaging the edges of the rail, a brush secured to each carrier by a resilient mounting, and a single operating rod for each brush unit and connected thereto by a universal connection, whereby the brushes of each unit are reciprocated.

2,325,844
MAGNETIC RECORDING AND REPRODUCING APPARATUS FOR USE WITH STEEL BANDS, WIRES, OR THE LIKE
Friedrich Ernst Fischer, Zurich-Erlenbach, Switzerland
Application February 20, 1940, Serial No. 319,837
In Switzerland March 13, 1939
6 Claims. (Cl. 179—100.2)



1. Apparatus for magnetically recording or reproducing electrical signals on or from steel bands, wires or other magnetic elements, comprising a recording or reproducing head having magnetic poles close to one another, and having iron parts of great length relative to the thickness of the element and extending in the direction of travel of the magnetic element, said parts being so constructed that the magnetic potential along the same varies substantially uniformly and slowly, but changes relatively rapidly between the magnetic poles, the magnetic element being in the form of a steel band, and the iron parts past which the steel band moves being formed with slots extending in a direction inclined to the direction of movement of the band.

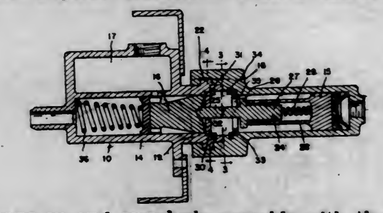
2,325,845
JOINT CONSTRUCTION
William A. Flumerfelt, Columbus, Ohio, assignor to The Columbus Auto Parts Company, Columbus, Ohio, a corporation of Ohio
Original application June 5, 1940, Serial No. 338,977, now Patent No. 2,280,634, dated April 21, 1942. Divided and this application March 9, 1942, Serial No. 434,017
8 Claims. (Cl. 287—85)



3. A joint construction including a housing having a hollow interior; a stud member having an enlarged portion extending into said housing; bearing means in said housing having interior surfaces engaging the enlarged portion of said stud member; said stud member being arranged for tilting and rotatable movements relative to said bearing means; a yieldable element interposed between said bearing means and the interior walls of said housing; and a closure for the lower end of said housing having a concave portion in bearing engagement with said stud member and a portion in engagement with said bearing means.

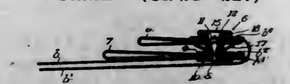
2,325,846
BRAKING APPARATUS
Joseph A. Forbes, Detroit, Mich., assignor to Kelsey-Hayes Wheel Company, Detroit, Mich., a corporation of Delaware
Application August 15, 1941, Serial No. 407,050
6 Claims. (Cl. 188—3)

1. In a braking apparatus for tractor and trailer vehicles having individual fluid pressure operated brake systems each comprising a cylinder and a piston therewithin, a coupling for the systems comprising substantially axially aligned extensions fixed on said cylinders and relatively angularly movable for detachably connecting one to the other, a plunger between said pistons for moving one with the other, means on one of said extensions for holding said plunger from angular movement relative thereto, and



means on and angularly movable with the other of said extensions relative to the first mentioned extension providing clearance for said plunger when said extensions are detachably connected and forming a stop for said plunger when said extensions occupy a relative angular position for detachment from each other.

2,325,847
SNAP FASTENER
Bernard J. Frost, Chicago, Ill., assignor to Richards, Boggs & King, Inc., Chicago, Ill., a corporation of Delaware
Application August 31, 1940, Serial No. 355,020
1 Claim. (Cl. 24—217)

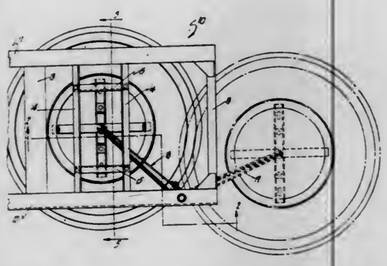


A new article of manufacture comprising a snap fastener designed releasably to secure together a pair of normally overlapping flexible sheet-like members and consisting of a head equipped male part and a complemental socket equipped female part connected to said members respectively and adapted to be snapped together into interlocked relation, and means for facilitating separation or opening of the parts in connection with release of the members consisting of a comparatively long tab in the form of a doubled back fabric strip having the ends thereof apertured to receive, and fixedly secured to, one of the parts and stitched to the member to which the one part is connected and its folded portion free for gripping purposes, and a shorter tab separate from the first mentioned tab and in the form of a doubled back fabric strip having its ends apertured to receive, and fixedly secured to, the other part and stitched to the member to which said other part is connected and its folded portion free for gripping purposes, the second mentioned tab being positioned and arranged so that when the two parts are snapped together it is in lapped relation with said first mentioned tab and its folded portion is disposed inwards of the folded portion of said first mentioned tab.

2,325,848
TIRE CARRIER
Charles W. Gildea and Joseph A. Hausmann, Fort Wayne, Ind., assignors to International Harvester Company, a corporation of New Jersey
Application June 6, 1941, Serial No. 396,908
2 Claims. (Cl. 224—29)

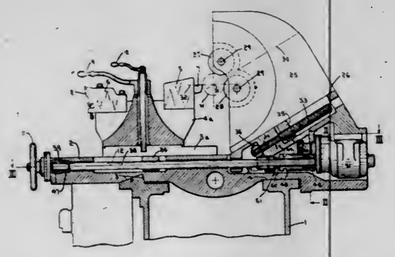
1. A spare tire carrier for a vehicle having a

frame, comprising a support pivotably mounted on the frame for swinging movement from a carrying position to an extended position with respect to the frame, a carrier member adapted to removably mount a spare tire and rim, means mounting the carrier for vertical movement with respect to the support from an upper position adjacent the support to a lower position in which the tire and rim may be mounted or dismounted



on the carrier, further means carried by the support for moving the carrier between its upper and lower positions, said means including a winch on said support and swingable therewith, a cable extended between said carrier and said winch, and means for rotating said winch when the support is in either its extended or carrying position.

2,325,849
STEADY REST FOR LATHES
William F. Groene and Harold J. Siekmann, Cincinnati, Ohio, assignors to The R. K. LeBlond Machine Tool Company, Cincinnati, Ohio, a corporation of Delaware
Application October 12, 1942, Serial No. 461,662
2 Claims. (Cl. 82—38)

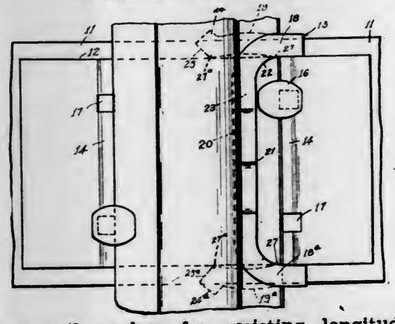


2. In a lathe, a bed, a carriage longitudinally movable on said bed, a cross slide movable perpendicular to the axis of rotation of a work piece in said lathe mounted on said carriage, a cutting tool mounted on said cross slide, a steady rest mounted on an inclined guide way for movement to and from said work piece in said lathe from a direction angularly related to the direction of movement of said cutting tool relative to said work piece, work engaging portions on said steady rest to support said work piece against cutting forces imposed thereon by cutting action of said cutting tool, individual manual means for adjusting said cross slide or said steady rest and power means alternately engageable to rapidly traverse either said cross slide or said steady rest to and from work engaging position.

2,325,850
PROCESS OF TREATING OIL
Gordon B. Hanson, Houston, Tex., assignor to Petrolite Corporation, Ltd., Wilmington, Del., a corporation of Delaware
No Drawing. Application December 27, 1938, Serial No. 247,831
15 Claims. (Cl. 204—190)

1. In a process comprising the electrical resolution of an oil continuous emulsion in which the continuous phase comprises a mineral oil and the dispersed phase comprises droplets of added water, said emulsion containing water-soluble alkaline earth compounds and an added alkaline agent, by subjecting said emulsion to the action of a high tension electric field, the step of adding an inhibitor selected from the class consisting of alkali metal hexametaphosphates and pyrophosphates prior to reactive contact of said alkaline agent and said alkaline earth compounds, said inhibitor being added in a quantity adapted to substantially retard precipitation of insoluble alkaline earth compounds for at least a period including the subjection of said emulsion to the action of the electric field.

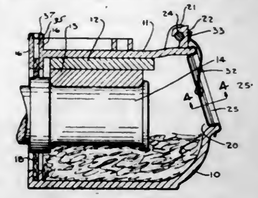
2,325,851
TIE PLATE INTERLOCKING TWO-WAY RAIL ANCHOR
Perry H. Hamilton, Baltimore, Md., assignor, by mesne assignments, to Poor & Company, Chicago, Ill., a corporation of Delaware
Application May 21, 1942, Serial No. 443,850
10 Claims. (Cl. 238—315)



1. A rail anchor for resisting longitudinal creeping of a railroad rail in either direction comprising a bar bent at opposite ends to form U-shaped portions extending transversely of the bar and defining upper and lower jaws adapted to be driven into spring gripping engagement with the top and bottom surfaces of a rail base flange and to abut against the forward and rear faces of a rail supporting structure, the said upper and lower jaws being arranged out of vertical alignment with each other, whereby the applying movement of said upper jaws on the inclined surface of a rail base flange tends to move the lower jaws toward said supporting structure and exerts a resilient clamping action of said lower jaws on the said forward and rear faces of the said supporting structure.

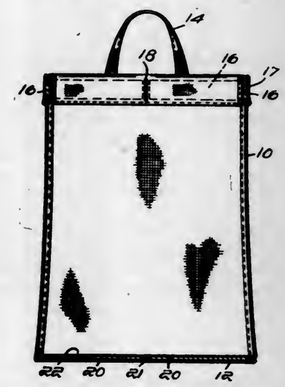
2,325,852
COMBINED JOURNAL BOX AND SEALING CLOSURE
Cleon M. Hannaford, Toledo, Ohio; Marie L. Hannaford executrix of said Cleon M. Hannaford, deceased
Application June 25, 1941, Serial No. 399,577
7 Claims. (Cl. 308—44)

1. In combination; a journal box having a substantially rectangular opening; said journal box having a bead defining said opening, said bead being joined integrally with the journal box by a wall portion having an indentation therein; a closure formed of sheet metal arranged to close the opening in said journal box; said closure being formed with a continuous peripheral integral



configuration including re-entrant portions, said re-entrant portions adapted to be distorted and sprung over the exterior surface of the bead on said journal box and engage in and snugly fit the wall of the indentation therein when the closure is in closed position to effect the seal for the opening in the journal box.

2,325,853
SHOPPING BAG
Lewis W. Harlem, Boston, Mass.
Application April 10, 1942, Serial No. 438,429
2 Claims. (Cl. 150—1.7)

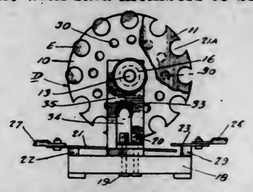


1. A shopping bag comprising two side panels foldable about longitudinal fold lines into four overlapping sections of substantially equal width, a stiffening insert coextensive with the upper edge of each panel section and movable to form a quadrilateral to hold the mouth of the bag open, and a bottom having two flat stiffening members arranged to be folded together with the bottom into half the width of one panel, the fold line of the stiffening members in the bottom being in alignment with an opposed pair of longitudinal fold lines of the panels, whereby the collapsed bag may be rolled into a compact package.

2,325,854
LOW REACTANCE SWITCHING DEVICE
John Edmund Hayes, Montreal, Quebec, Canada
Application January 31, 1942, Serial No. 428,992
9 Claims. (Cl. 175—183)

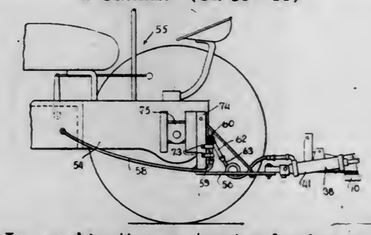
1. In a device for determining the impedance of an external circuit, in combination, a conductor including two spaced metallic members and contacts for said members in the circuit, a

plurality of spaced calibrated elements, and means for selectively bringing said elements into engagement with said members to break the cir-



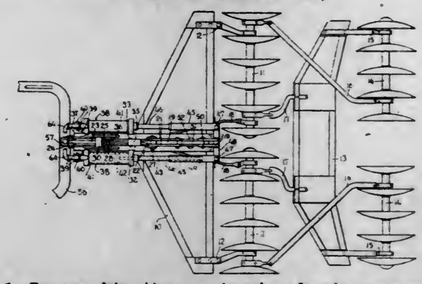
cuit between said members and said contacts while completing the circuit by short-circuiting through the elements.

2,325,855
TRACTOR DRAWN IMPLEMENT
Mars M. Hornish, Washington, Ill.
Application November 29, 1940, Serial No. 367,759
2 Claims. (Cl. 55—83)



1. In combination, a tractor having a power plant, a ground-working implement connected at the rear of the tractor in trail-behind relationship thereto, a fluid-power device mounted on the implement for adjusting the same, and means connecting the device and the tractor power plant and comprising a fluid line formed of disconnectable fittings connected to one another, a first inflexible pipe section connected to one fitting and securely mounted upon the tractor, a first flexible conduct connected to the first inflexible pipe section and extending toward the tractor power plant, a second inflexible pipe section connected to the other fitting, and a second flexible conduit connected to the second inflexible pipe section and extending toward the fluid-power device.

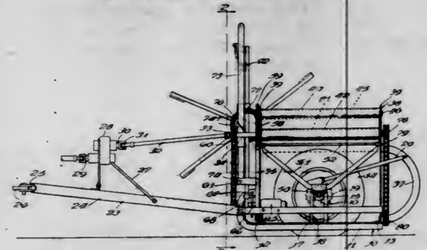
2,325,856
TRACTOR DRAWN IMPLEMENT
Mars M. Hornish, Washington, Ill.
Original application November 29, 1940, Serial No. 367,759. Divided and this application September 18, 1941, Serial No. 411,291
7 Claims. (Cl. 55—83)



1. In combination, a tractor having a power plant, an implement connected at the rear of the

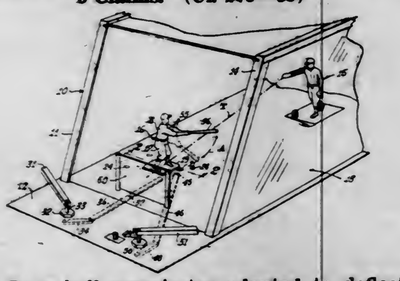
tractor and having an adjustable part and slidable members extending centrally, a lever pivoted between its ends on a horizontal axis on the implement and having its lower end connected with the adjustable part, means connecting the upper end of the lever and one of the slidable parts, a pair of fluid-power devices mounted on the implement on opposite sides of the slidable parts and connected with the lever, and means connecting the fluid-power devices and the tractor power plant.

2,325,857
HARVESTING MACHINE
Edwin F. Huddle, Elmwood Park, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application May 27, 1942, Serial No. 444,690
10 Claims. (Cl. 56—185)



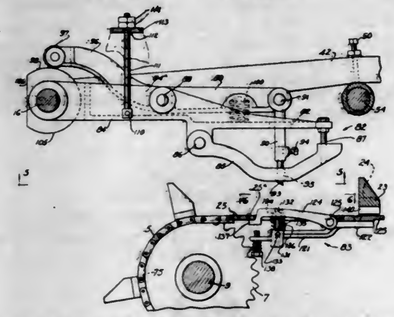
1. In a harvesting machine having a ground support, a frame, means mounting the frame on the ground support for vertical adjustment with respect to the ground support, and harvesting means carried by the frame, the combination therewith of conveying means for receiving harvested material from the harvesting means and for delivering said material to a point remote from the harvesting means, means mounting one end of the conveying means on the frame for adjustment of said end vertically with the frame, and means mounting another portion of said conveying means on the ground support, whereby said last named portion is maintained substantially in uniform position irrespective of adjustment of the frame.

2,325,858
BALL REPROJECTOR
Marvin A. Kellermann and Duane W. Price, Chicago, Ill.
Application October 8, 1941, Serial No. 414,117
5 Claims. (Cl. 273—89)



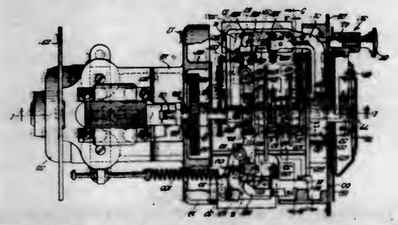
1. In a ball reprojector adapted to deflect a ball traveling along a predetermined trajectory, the provision of a movable standard, lever means pivotally mounted on said standard, means for controlling the pivotal movement of the lever means, and means for shifting said standard toward and away from said predetermined trajectory, said last named means comprising in combination a fixed plate having a slot formed therein extending transversely of said trajectory, a movable plate arranged for shifting movement on said fixed plate and having a depending boss formation thereon for supporting said lever means for pivotal movement on said standard, said boss formation extending through said slot and into said movable plate, and manually controlled lever means operatively associated with said movable plate for shifting the latter.

2,325,859
CORN HUSKER
Charles E. Kerr, Hoopeston, Ill., assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Application July 22, 1940, Serial No. 346,694
18 Claims. (Cl. 130—5)



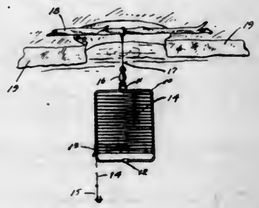
1. In a corn husker, husk ripping means, a conveyor for moving the ears of corn past the husk ripping means, a movable bracket, means for movably supporting the husk ripping means on said bracket, guide means associated with the bracket and engageable with each ear of corn travelling past the same for gauging the depth of cut of the husk ripping means with respect to each ear, means for reciprocating the husk ripping means relative to the bracket and guide means for moving the husk ripping means into and out of ripping position for engagement with the husks of the ears and for cleaning the ripping means of husk portions adhering to the same.

2,325,860
IMPULSE TIMER
Arthur J. Kizaur, Cicero, Ill., assignor to General Electric X-Ray Corporation, Chicago, Ill., a corporation of New York
Application July 1, 1941, Serial No. 400,866
21 Claims. (Cl. 200—31)



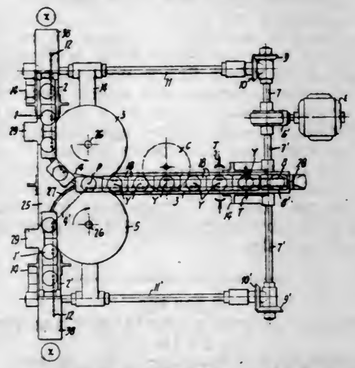
4. A timing device comprising a frame, a pair of biased switches supported in said frame, control means normally retaining one switch in open and the other in closed position, each against the influence of its bias, said control means comprising a control member for each switch, said switches and their associated control members being adjustably spaced apart and operable the one to release the normally open switch for closure under the influence of its bias and the other to release the normally closed switch for opening movement under the influence of its bias, and actuating means operable at substantially constant speed to trip the control member of the normally closed switch at a predetermined instant after tripping the control member of the normally open switch.

2,325,861
FISHING REEL
Gustave A. Kreb, Milwaukee, Wis.
Application August 8, 1941, Serial No. 406,057
3 Claims. (Cl. 43—20)



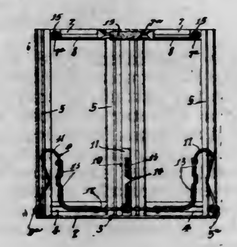
1. A device of the character described comprising a frame of rectangular shape, said frame being constructed of material having a small cross-sectional area, a swivel attached to the upper end of said frame, a slot cut into one of the side members of said frame, in combination with a fishing line attached at one end to the upper part of said frame, said fishing line being wound around the outer surface of said frame, a depending end of said fishing line being retained by means of frictional contact within said slot in said frame, said fishing line supporting a hook disposed for attachment of bait at its lower end.

2,325,862
MULTIPLE LOADING TRACK OR CONVEYER FOR FRUIT OR VEGETABLES
Percy Jepson, Oakland, Calif.
Application April 7, 1941, Serial No. 387,137
6 Claims. (Cl. 198—75)



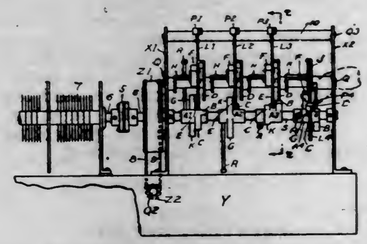
1. In apparatus of the character described in which there is a pair of chain conveyers each carrying a plurality of spaced fruit supporting members in a row parallel therewith for movement of the said members therewith longitudinally of the conveyers; each of said conveyers being supported for movement thereof around spaced horizontal axes thereby providing an upper and a lower run; the upper runs of said conveyers extending convergently relative to a single point intermediate their ends and then parallel in direction away from such point; guide means positioned adjacent the said parallel runs of said conveyers supporting said members along said parallel runs for movement in single file upon actuation of said conveyers for movement of the convergent runs thereof toward said single point and for movement of the parallel runs in the same direction away from said point; and means for so actuating said conveyers.

2,325,863
CRATE FOR WATER BOTTLES OR CARBOYS
Carl Eugene Johnson, Lomita, Calif.
Application July 4, 1939, Serial No. 282,796
1 Claim. (Cl. 217—54)



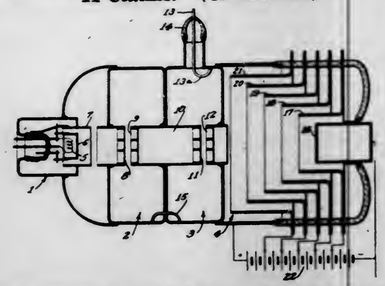
A crate for a carboy or water bottle, comprising a frame formed of sheet metal and including a base plate having upturned and beaded portions, said frame also including V-shaped post sections beaded vertically and united to the said upturned portions, the upper portions of said post sections being connected by horizontally extending members, and spring suspension means including members attached to the lower portions of said corner posts and curved hence upwardly into the form of a vertical loop located in the lower portion of the frame and extending hence inwardly to form a seat.

2,325,864
MEANS FOR TURNING CONTROL SHAFTS TO PRESELECTED ANGULAR POSITIONS
Le Roy J. Leishman, Los Angeles, Calif.
Application December 15, 1937, Serial No. 179,910
20 Claims. (Cl. 74—10)



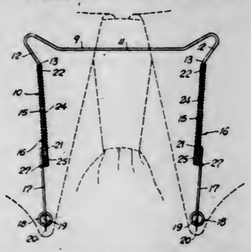
1. In a mechanism for positioning a control, a combination including: a movable operating means; and a rotatable positionable member comprising four arms each adapted to be engaged by different portions of said means for turning said member each in one direction through a substantially different sector.

2,325,865
ELECTRODE STRUCTURE FOR VELOCITY MODULATION TUBES
Charles V. Litton, Redwood City, Calif., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application August 17, 1940, Serial No. 353,042
11 Claims. (Cl. 250—27)



1. A velocity modulated tube comprising a cathode, means for grouping electrons from said cathode, means for extracting energy from said electrons, and a collector electrode arranged in the path of said electrons for collecting said electrons comprising a plurality of open-ended, generally cylindrical, coaxial electrodes having their major surfaces substantially parallel to the axis of said path and successively spaced from said axis, each of said electrodes being adapted to collect said electrons.

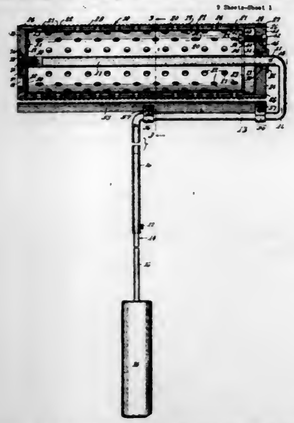
2,325,866
COLLAR STAY
Ben B. Manaster, Chicago, Ill., assignor of one-half to Charles I. Greener, Chicago, Ill.
Application October 1, 1942, Serial No. 460,381
7 Claims. (Cl. 2—132)



1. In a collar stay having leg portions and leg members movable relative to said leg portions, means mounting said movable leg members on said leg portions for movement relative thereto, said means comprising a loop formation on said leg member and surrounding said leg portion, an eyelet formed at the extremity of said leg portion and surrounding said leg member, and means on said leg portion for projecting said leg members in an extended position.

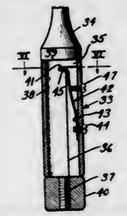
2,325,867
PAINTING DEVICE
Michael Matsakas, Chicago, Ill.
Application June 21, 1941, Serial No. 399,130
15 Claims. (Cl. 15—124)

1. A painting device comprising a roller including inner and outer cylinders, heads fixed to and closing the ends of the outer cylinder, a shaft rotatably supporting the roller through said heads and having a handle, the inner cylinder being shorter than and movable in the outer cylinder, said cylinders having perforations adapted to be



moved into and out of registration and a tubular foraminous cloth covering on the roller.

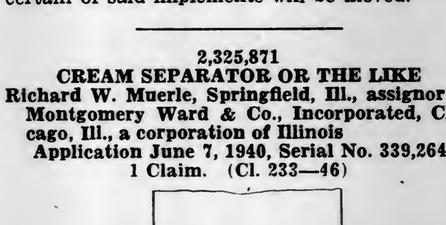
2,325,868
RAZOR BLADE HANDLE
Emmet H. Morrow, Chicago, Ill.
Application May 16, 1941, Serial No. 393,707
15 Claims. (Cl. 30—85)



13. A handle for a razor having a blade holding head, comprising a member having at one end a threaded recess for removable connection to said head and a transversely slotted reduced semi-circular portion terminating in a threaded stud, a sleeve rotatably mounted on said semi-circular portion, a nut member threaded to said stud against said semi-circular portion, a spring member having an offset flange portion at one end with extending corners and being connected at its other end to said sleeve, and a threaded member carried by said sleeve and engaging said spring member for adjustably moving it toward and away from said semi-circular portion, said flange portion on the spring member being movable into and out of engagement with the slot in said semi-circular portion for limiting the rotation of said sleeve.

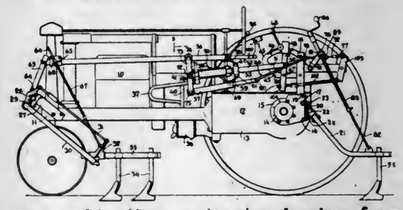
2,325,869
APPARATUS FOR COUPLING TRACTORS TO TRAILERS
Bernhard A. Mosling, Oshkosh, Wis.
Application July 10, 1940, Serial No. 344,797
22 Claims. (Cl. 280—33.2)

1. A coupling adapted for connecting a tractor and a trailer, comprising a gooseneck universally connected to said tractor and having a free end extending rearwardly thereof, a readily detachable coupling between the free end of said gooseneck and said trailer, said coupling comprising coupling means on said free end of said gooseneck, and complementary coupling means on said



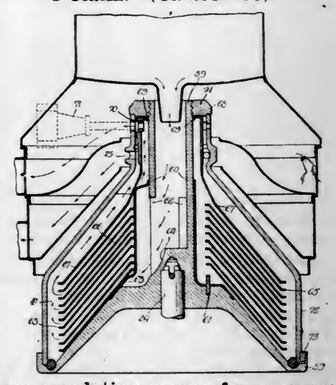
trailer for rigidly connecting said trailer to said gooseneck.

2,325,870
TRACTOR CULTIVATOR
Carl W. Mott, La Grange, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application October 9, 1940, Serial No. 360,440
18 Claims. (Cl. 97—50)



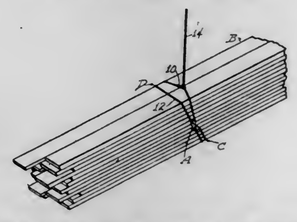
1. In combination, a tractor having forward and rearward portions, implements connected respectively to the forward and rearward portions of the tractor for movement from one position to another position, power means associated with the tractor and connected with the implements to move the same, selector devices associated respectively with each of the implements for locking any one or more of the same against movement from one position to another position whereby upon operation of the power means only certain of said implements will be moved.

2,325,871
CREAM SEPARATOR OR THE LIKE
Richard W. Muerle, Springfield, Ill., assignor to Montgomery Ward & Co., Incorporated, Chicago, Ill., a corporation of Illinois
Application June 7, 1940, Serial No. 339,264
1 Claim. (Cl. 233—46)



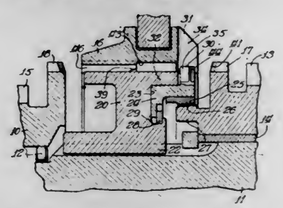
A cream regulating means for a cream separator comprising a separator bowl with a top separating disc and disc collar having an inwardly extending horizontal portion and downwardly dependent flange, and an adjustable hollow cream screw threaded through said top disc and adapted to abut against said dependent flange portion without obstructing the passage way, an irregular opening through said adjustable cream screw, the opening being adapted to receive adjusting wrench for accurate adjustment to predetermine position, thereby determining the richness of the cream, and an outer shell surrounding said top disk adjacent to said cream screw, said shell having an aperture therethrough aligned with the hollow of said cream screw, said aperture being of such size as to permit the entrance of an adjusting wrench, the edge of said opening being constructed and arranged to act as a stop against outward movement of said cream screw.

2,325,872
SAFETY SLING
Axel T. Nilsson, Goteborg, Sweden
Application June 6, 1942, Serial No. 446,161
In Sweden March 21, 1939
2 Claims. (Cl. 294—74)



1. A safety sling comprising an endless strap having two looped portions, hooks engaging in the looped portions, a second strand having an automatically adjustable part with looped portions slidably engaging with the hooks, said endless strap and automatically adjustable part cooperating with each other to form the safety sling, and said second strand having a portion adapted to be connected to a load lifting means for causing the sling to tighten about the load, the second strand being entirely removable from the strap hooks when loading or unloading the sling.

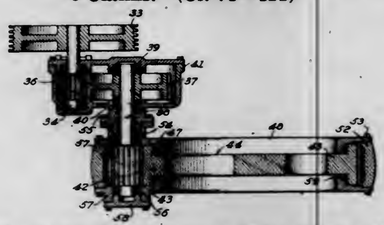
2,325,873
TRANSMISSION SYNCHRONIZER
William B. Osborne, Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application June 1, 1942, Serial No. 445,333
8 Claims. (Cl. 192—53)



1. A transmission synchronizer comprising driving and driven members, one of said members having clutch teeth and a friction clutch element, a clutch sleeve mounted on, drivingly connected to and axially shiftable on the other

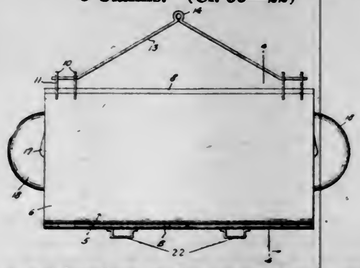
of said members and having teeth for engagement with said clutch teeth, a synchronizer element having a friction surface for coaction with said friction element, and including a blocker portion adapted to have limited circumferential movement relative to said sleeve, said sleeve having a projecting portion adapted to engage said blocker portion in one position of said circumferential movement and defining one side of a pass adapted to receive said blocker portion as the sleeve moves toward clutching engagement with said clutch teeth, said sleeve having a recess extending circumferentially from said pass, in which said blocker portion may move circumferentially from said pass in order to permit said sleeve and clutch teeth to become properly aligned for clutching engagement without breaking the engagement between the said friction surface and friction element.

2,325,874
PUMPING GEAR UNIT
Charles M. O'Leary, Jr., Los Angeles, Calif.
Application July 14, 1941, Serial No. 402,325
6 Claims. (Cl. 74—414)



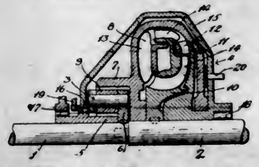
1. A gear unit, including a drive shaft, a fixed bearing within which said shaft is rotatably supported, a drive gear on the shaft, a ring-shaped driven gear in mesh with the drive gear, a central web for the driven gear, a driven element carried by the central web, a pair of fixed tubular bearings extending into the central opening of the driven gear and providing an annular bearing support therefor, said bearings having outer side flanges engaging the circumferential inner face of the driven gear at opposite sides of the web, whereby the driven element may be free to move with the driven gear as guided between said side flanges, and an outer annular enclosing wall cooperating with the bearing of the drive gear and the tubular bearings of the driven gear for forming a gear case.

2,325,875
LAND LEVELER
Louis Oswald, Napa, Calif.
Application August 30, 1941, Serial No. 409,087
5 Claims. (Cl. 55—22)



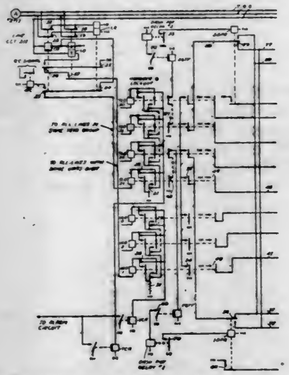
1. A soil levelling device comprising a substantially flat hollow drag body open at each side edge, and adapted to be drawn over the surface of the ground, and yieldable drag members mounted in the drag body and projecting outwardly from the open edges thereof.

2,325,876
TRANSMISSION
Willard L. Pollard, Evanston, Ill.
Application April 18, 1940, Serial No. 330,337
5 Claims. (Cl. 74—189.5)



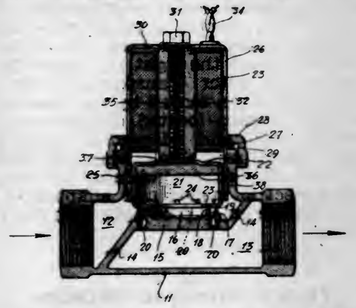
1. A variable speed transmission comprising a hydraulic torque converter, a planetary gear construction, and a rotatable drive member, said torque converter comprising a pump rotor, a turbine rotor, a reactance stato-rotor, and means, including a one-way anchorage, for preventing reverse rotation of said stato-rotor, said gear construction comprising a sun gear, a ring gear, a gear carrier and planetary gearing carried by said carrier and meshing with said ring gear and sun gear, means connecting said gear carrier to rotate in unison with said drive member, means connecting said pump rotor to rotate with the ring gear and means connecting said sun gear in force-transmitting relation to the stato-rotor to urge it to rotate in the same direction as the pump rotor.

2,325,877
AUTOMATIC TELEPHONE SYSTEM
Winfred T. Powell, Rochester, N. Y., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y., a corporation of New York
Application March 11, 1942, Serial No. 434,246
22 Claims. (Cl. 179—17)



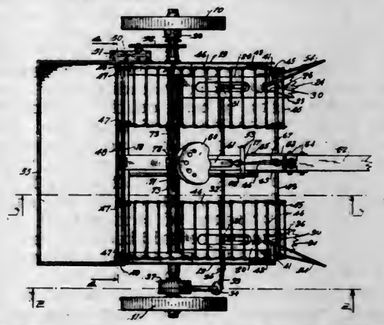
1. In a telephone system, a group of lines divided into a first and a second subgroup, a first and a second subgroup of line finders each having access to the lines in said first and second subgroups of lines respectively, a first and a second subgroup of allotter relays individually corresponding to said line finders, means including said allotter relays for normally assigning idle line finders in the associated subgroup, and time delay means for causing the allotter relays in one of said subgroups to assign an idle line finder for use in the other of said subgroups.

2,325,878
FLUID CONTROL VALVE
William A. Ray, Glendale, Calif.
Application October 28, 1939, Serial No. 301,817
7 Claims. (Cl. 137—139)



1. In a fluid control valve, a casing having an inlet and an outlet, a ported partition separating said inlet and said outlet and provided with a valve seat, a cylindrical housing of magnetic material secured in an opening in the upper wall of said valve casing, a coil mounted in the upper area of said housing, and a valve member cooperable with said seat and comprising a shell of magnetic material slidable in the lower portion of said housing and in good flux-transfer relation thereto.

2,325,879
BEAN HARVESTER
Richard Rico, Byers, Colo.
Application December 29, 1941, Serial No. 424,705
9 Claims. (Cl. 56—155)

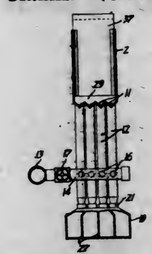


7. A bean harvester comprising: a vehicle axle; ground engaging wheels supporting said axle; a pair of spaced apart cutter bars hingedly supported by said axle and extending forwardly therefrom; teeth on the forward extremities of said cutter bars; a toothed knife member pivoted on top of the forward extremity of each cutter bar with the teeth in register with the teeth of the latter; a lever arm extending rearward from each knife member; a pitman rod; a universal hinge connecting the rearward extremity of each lever arm to said pitman rod; means for reciprocating said pitman rod; a vehicle frame secured on said axle and extending over said cutter bars; an adjusting lever mounted on said frame over each cutter bar; a suspension link extending from each of the latter levers to its respective cutter bar so that the latter are independently and adjustably supported; a tongue stub extending forwardly from said frame; a tongue hinged to and extending forward from said tongue stub; and manual means for raising and lowering the hinged point between said tongue stub and said tongue for simultaneous vertical adjustment of said cutter bars.

2,325,880
LUTIDINE COMPOUND
George Riethof, Mount Lebanon, Pa., assignor to Pittsburgh Coke & Iron Company, Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application August 15, 1942, Serial No. 454,997
3 Claims. (Cl. 260—290)

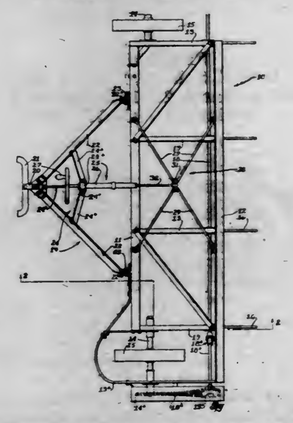
1. The crystalline product formed by the reaction of thiourea with substantally pure 2,6-lutidine in aqueous solution.

2,325,881
RECOVERY APPARATUS
Milton S. Robertson, Campbell, Calif.
Application July 29, 1940, Serial No. 348,317
2 Claims. (Cl. 209—155)



1. Recovery apparatus comprising a trough for receiving material to be separated and having a bottom with a plurality of longitudinally extending V-shaped channels, and a group of upright tubes extending from the bottom of the trough in registration with said channels and through which the dense particles may fall, and means for establishing a counterflow of fluid upwardly through said tubes.

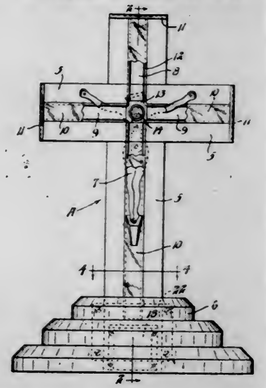
2,325,882
ROD WEEDER
Arthur A. Scarlett, Hamilton, Ontario, Canada, assignor, by mesne assignments, to International Harvester Company, Chicago, Ill., a corporation of New Jersey
Application October 30, 1940, Serial No. 363,527
4 Claims. (Cl. 97—42)



1. In combination, a rectangular frame struc-

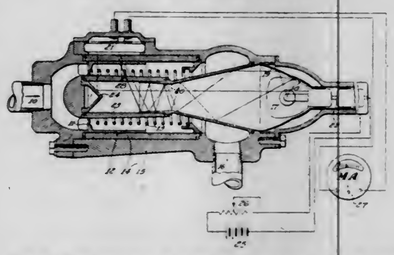
ture comprising transversely spaced members connected by longitudinally spaced members, a draft device pivotally connected to one of the transverse members, a stabilizing means for the said frame structure comprising a plurality of rods secured together at one end and extending downwardly and outwardly and secured to the frame at spaced points, a supporting structure mounted on said draft device comprising a plurality of bars secured together at one end and extending outwardly and downwardly and secured to the draft device at spaced points, and an adjusting device connecting said stabilizing means and said supporting structure.

2,325,883
ILLUMINATED CRUCIFIX
Robert L. Schleif, Lincoln, Ill., assignor of one-third to Robert T. Wilson and one-third to Edward M. Pluth, both of Lincoln, Ill.
Application October 13, 1941, Serial No. 414,757
1 Claim. (Cl. 240—10)



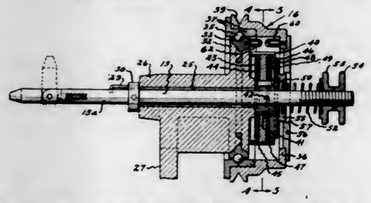
An illuminated crucifix comprising, a cruciform structure having crossed channels formed therein, a single electric lamp positioned at the intersection of said channels, said lamp having a transparent band therearound to freely radiate light rays longitudinally of said channels and being otherwise frosted, and a translucent material covering said channels and serving to diffuse light rays from said lamp substantially throughout the lengths of said channels.

2,325,884
FLOWMETER
Carl F. Schorn, Detroit, Mich.
Application March 21, 1942, Serial No. 435,612
2 Claims. (Cl. 73—209)



1. In a flowmeter, a casing having an annular tapered passage comprising a tapered transparent wall and a cylindrical transparent wall, a moving cylindrical shield adapted to slide on said cylindrical wall, a fuel flow ressiting element connected to said sliding cylindrical shield and adapted to provide a variable opening with said tapered wall, yieldable means for moving said sliding cylindrical shield against the flow of fluid, a source of light adapted to be projected through said casing, reflecting means for said light adapted to project the light rays through both the inner and outer transparent walls when said shield has been moved by the flow of fluid, photoelectric means located outside said outer transparent wall and adapted to receive said light that passes said shield when said shield is moved, and an electric indicator connected to said photoelectric means and adapted to indicate thereon the amount of light that has passed said shield.

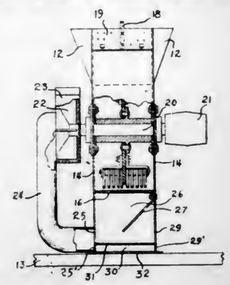
2,325,885
FILM WINDING MECHANISM
Iwan Serrurier, Los Angeles, Calif.
Application January 31, 1941, Serial No. 376,765
4 Claims. (Cl. 242—55)



1. A reel driving mechanism comprising a shaft bearing, a shaft mounted for free running rotation in said bearing and having portions projecting from both ends of said bearing, one projecting portion of said shaft being adapted to carry a film reel, a disk fast on the other projecting portion of said shaft, a disk splined on said shaft at a position located on the opposite side of said first mentioned disk from said bearing, a ratchet wheel surrounding said shaft between said disks, a head on the end portion of said other projecting portion of said shaft, a spring acting between said head and said splined disk to frictionally clamp said ratchet wheel between said two disks, said shaft acting in tension between said first mentioned disk and said head to resist the pressure of said spring, a pulley mounted for rotation on said bearing, pawl means mounted on said pulley drivingly engageable with said ratchet wheel for one direction of rotation of said pulley, and pawl means mounted on said bearing engageable with said ratchet wheel when the shaft is rotated in a direction the reverse of said one direction, all in such manner that frictional slippage occurs between the spring clamped ratchet wheel and said disks in said reverse direction of rotation of the shaft, while all spring pressural restraints to rotation of the shaft are removed when the pulley is driven in the first mentioned direction of rotation.

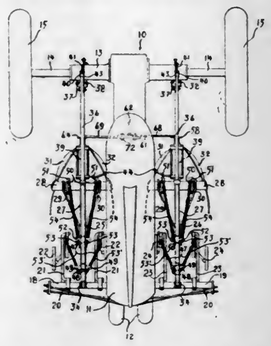
2,325,886
MILL
Michael S. Sisulak, Chicago, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application May 29, 1941, Serial No. 395,781
3 Claims. (Cl. 83—11)

2. A mill comprising a drum having upright spaced walls and a cylindrical reducing screen providing a chamber for the comminution of material, a plate disposed transversely across the drum walls below the screen and providing a material-receiving chamber, one of the walls having an opening disposed therein so that the plate divides said opening into two parts with one part outside the confines of the receiving chamber and open to atmosphere, and suction



means including a conduit connected over said opening for removing material from the receiving chamber, whereby the suction conduit is open to the chamber and to the atmosphere outside the chamber.

2,325,887
POTATO HOE ATTACHMENT FOR TRACTORS
Hiram P. Smith, Canton, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application May 10, 1941, Serial No. 392,850
3 Claims. (Cl. 97—50)



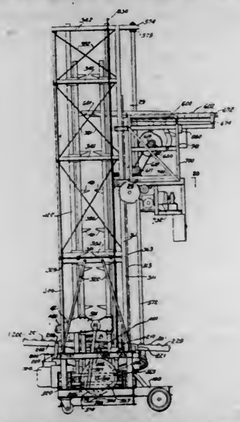
1. In combination, a tractor having a longitudinally extending body portion and a transverse rear axle portion with an operator's station thereon, a transverse structure extending laterally from each side of the longitudinally extending body portion and at the forward part thereof, a pair of laterally spaced cultivating rigs connected to each transverse structure for vertical movement, a potato hoe structure including a longitudinally extending beam and opposed hoeing blades carried by the beam and arranged to hill the dirt loosened by the respective cultivating rigs, said structures being respectively connected to the transverse structures for vertical movement with respect thereto, the arrangement of both the rigs and the hoe structure being such as to be located ahead of the rear axle portion and forwardly visible from the operator's station, means for laterally stabilizing the potato hoe structures on both sides of the tractor including a transversely extending connecting means between the potato hoe structures and vertically swingable link member extending between one of the potato hoe structures and the tractor, and means for lifting the cultivating rigs and the potato hoe structures to a transport position.

2,325,888
GARMENT
Isidor Spencer, Chicago, Ill.
Application July 27, 1942, Serial No. 452,382
3 Claims. (Cl. 2—93)



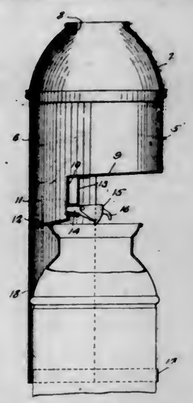
1. A coat comprising a body portion and sleeve portions made of a single piece of cloth, the juncture between the sleeve and body portion being slitted to permit tubular arrangement of the sleeves, and a front yoke sewed with the bottom edge to the slitted edge of the body portion and with a side edge to the inner end of the tubular sleeve, the top edge of the yoke complementing the neck opening and the other side edge forming a part of the front opening of the coat, the meeting edges of the sleeve and yoke being formed to afford shaping of the garment, the yoke being constructed to form a portion of the sleeve.

2,325,889
BOX ELEVATOR
Albert R. Thompson, Los Gatos, and Roy M. Magnuson, Campbell, Calif., assignors to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Application June 10, 1940, Serial No. 339,696
16 Claims. (Cl. 214—95)



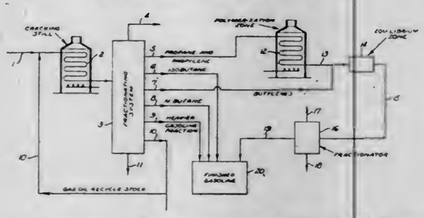
3. In a box elevator having elevator tines for moving boxes vertically and rest tines for supporting boxes when they are not being moved by said elevator tines, a shifter to remove boxes from said elevator when the boxes are on said rest tines, a carriage for said shifter, means to raise and lower said carriage, and means to reciprocate said shifter with respect to said carriage.

2,325,890
DAIRY SEDIMENT TRAP
George King Thompson, Randolph, Ill.
Application August 17, 1940, Serial No. 353,144
2 Claims. (Cl. 210—57)



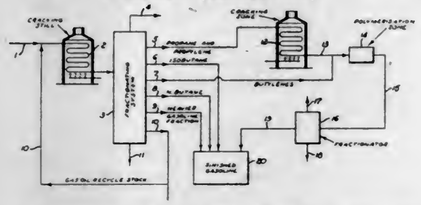
1. A device for transferring milk to receptacles, comprising a body portion of a diameter equal to the diameter of the receptacle on which the device is positioned, and adapted to rest on the top of said receptacle into which milk is being transferred, a portion of the wall of the body portion extending downwardly an appreciable distance to engage the wall of the receptacle with which the body portion is used, a band secured to the lower end of the extension and adapted to encircle the receptacle, holding the body portion on the receptacle, and a spigot connected with the body portion through which milk flows from the body portion.

2,325,891
MANUFACTURE OF ANTIKNOCK GASOLINE
Clare Kenneth Viland, Martinez, Calif., assignor to Tide Water Associated Oil Company, San Francisco, Calif., a corporation of Delaware
Application October 23, 1939, Serial No. 300,727
3 Claims. (Cl. 196—10)



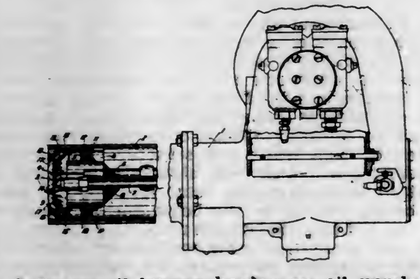
1. A process of producing gasoline which comprises: removing from a mixture of normal butane, butylene, iso-butane, propane and propylene, the major portion of its normal and iso-butane content and the major portion of its butylene content, leaving a mixture of hydrocarbons consisting mainly of propane and propylene, flowing same through a thermal zone wherein decomposition takes place with increase of olefinic content, adding a fraction consisting mainly of butylene to the mixture after passage through said zone, subjecting the combined stream to conditions effecting combination of molecules therein, then fractionating the mixture to recover a product of gasoline boiling range.

2,325,892
MANUFACTURE OF ANTIKNOCK GASOLINE
Clare Kenneth Viland, Martinez, Calif., assignor to Tide Water Associated Oil Company, San Francisco, Calif., a corporation of Delaware
Original application October 23, 1939, Serial No. 300,727. Divided and this application August 2, 1940, Serial No. 350,038
1 Claim. (Cl. 196—11)



In a process of making finished gasoline of desired vapor pressure from the products obtained from cracking relatively heavy hydrocarbons thus producing unstabilized gasoline, the step which comprises: fractionating an unstabilized cracked gasoline into a propane-propylene fraction, an iso-butane fraction, a butylene fraction, and a heavier gasoline fraction; heating the propane-propylene fraction to between 1125° F. and 1300° F. to increase the olefine content, mixing said butylene fraction with the thus-treated propane-propylene fraction and passing the mixture through a thermal polymerization zone above 1050° F. and below the cracking temperature of the butylene fraction, stabilizing the thus-formed polymer gasoline and finally blending same with said iso-butane fraction and said heavier fraction to form a finished gasoline whereby the iso-butane fraction and the heavier gasoline fraction are blended without further treatment and the butylene fraction used as a quench material for the pyrolized propane-propylene fraction is not subjected to undesirable pyrolysis but is charged directly into the polymerization zone, thus increasing the yield of gasoline.

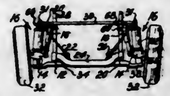
2,325,893
LIQUID FUEL BURNER
Earl C. Vollmer, Rock Island, Ill., assignor, by mesne assignments, to The Lennox Furnace Company, Marshalltown, Iowa, a corporation of Iowa
Application February 14, 1941, Serial No. 378,855
3 Claims. (Cl. 158—76)



1. In an oil burner having an oil nozzle, an air tube, and fuel igniting means located between them; an air director in the forward end of the air tube, said air director tapering forwardly at an angle of approximately 45° with relation to the axis of the air tube and terminating in a sharp inwardly directed edge, and a second air director in the air tube and located inwardly from

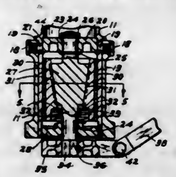
the first mentioned air director, said second air director tapering inwardly at substantially the same inclination as the first mentioned air director, said second air deflector having a substantially cylindrical extension fitting closely inside of the air tube, and being provided around the outer periphery of the tapered part with a plurality of openings leading from the air tube to the space between the air directors, and the inwardly tapered portion of the second air director being provided with slots in its forward edge portion, the planes of said slots intersecting the axis of said air tube rearwardly from the forward face of the second mentioned air director and at an angle of approximately 45°.

2,325,894
AUTOMOTIVE SUSPENSION
Nils Erik Wahlberg, Ross H. Phelps, and Wallace S. Berry, Kenosha, Wis., assignors to Nash-Kelvinator Corporation, Kenosha, Wis., a corporation of Maryland
Application December 16, 1940, Serial No. 370,286
21 Claims. (Cl. 280—96.2)



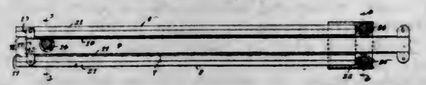
1. In combination with an automobile having main frame members, a wheel suspension mechanism comprising a generally rectangular framework having generally vertical side members and a removable top member, braces extending from the top of said framework to said main frame members, means securing the bottom of said framework to the under side of said main frame members, and steering knuckles slideably and rotatably mounted on said vertical side members.

2,325,895
CASTER WHEEL MOUNTING
John F. Wallace, University Heights, Ohio, assignor to The Cleveland Pneumatic Tool Company, Cleveland, Ohio, a corporation of Ohio
Application February 9, 1942, Serial No. 430,117
16 Claims. (Cl. 16—35)



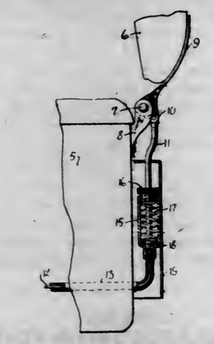
11. In apparatus of the character described, an upright member having a cylindrical surface, means carried by said member for supporting a caster wheel in substantial alignment therewith, a centrally apertured plug mounted within said member, said plug being held against relative rotation by said means, means tending to snub rotation of said member comprising a stem arranged axially of said member and carried by said plug, a brake shoe working against said cylindrical surface, wedge means associated with said stem and movable axially of said surface, the adjacent surfaces of said wedge and brake shoe being tapered, and spring means cooperating with said wedge means to force said brake shoe outwardly into snubbing relation with said cylindrical surface upon deflective movement of said caster wheel.

2,325,896
DRAWER SLIDE
Alfred F. Waller, St. Charles, Ill., assignor to St. Charles Manufacturing Co., St. Charles, Ill., a corporation of Illinois
Application March 2, 1942, Serial No. 432,898
4 Claims. (Cl. 308—6)



1. A drawer slide structure comprising, in combination, a stationary guide rail formed to channel-shaped cross-section to provide upper and lower track surfaces on the outer sides of its upper and lower longitudinal flanges, a relatively movable slide rail formed to channel-shaped cross-section and disposed in telescoping relation with the guide rail, and three roller bearings for anti-friction roller support of the slide rail on the guide rail, one mounted in the front end of the guide rail with the top portion therof projecting slightly above the plane of the upper track surface through an opening provided in the upper flange of the guide rail, the slide rail having a track surface provided on the bottom of the upper flange thereof for rolling contact on the last mentioned roller, the two other roller bearings being mounted in vertically spaced relation on the rear end of the slide rail for rolling contact on the first mentioned track surfaces on the guide rail, the last mentioned roller bearings being spaced vertically a distance slightly greater than the distance between the upper and lower track surfaces on the guide rail to permit movement of the two roller bearings past the front roller bearing in the removal and replacement of a drawer on which the movable slide rail is attached.

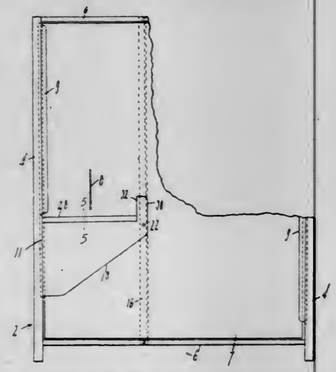
2,325,897
COVER OPERATING MEANS FOR COOKING APPLIANCES
Chauncey E. Waltman, Chicago, Ill., assignor to National Enameling & Stamping Company, Milwaukee, Wis., a corporation of New Jersey
Application September 16, 1940, Serial No. 357,030
2 Claims. (Cl. 226—36)



1. In a cooking appliance having an open topped receptacle and a cover hinged to the rear wall thereof: a part connected with the cover and projecting radially from the hinge axis; a link having one end connected to said part and having its other end overlying the rear wall of the receptacle; a cylindrical casing fixed to the rear wall of the receptacle and encircling said other end of the link; a conduit leading from the lower end of said casing to the front wall of the re-

ceptacle; a flexible wire slidable in said conduit and having an end portion extending into the cylindrical casing; an actuator connected with the wire adjacent to the front wall of the receptacle so as to be accessible at said front wall for the application of a push or pull on the wire; means connecting said end portion of the wire with said other end of the link; a cover counterbalancing compression spring inside the casing to be guided thereby; cooperating abutments on the link and casing between which said spring is confined under a degree of compression; and means for adjusting one of said abutments so that the expansive force of the spring may be regulated to substantially balance the weight of the cover, said last named means enabling adjustment of said abutment independently of the connection between the link and wire.

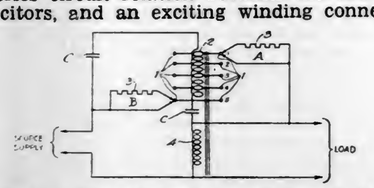
2,325,898
MACHINE FOR TYPEWRITING
Elmer L. Wise, Bridgeport, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware
Application June 28, 1941, Serial No. 400,233
7 Claims. (Cl. 197—3)



1. In a machine of the class described having a substantially rectangular platen frame comprising side rails and cross bars connecting said side rails and a substantially flat platen mounted for vertical movement in said frame; a clamping strip attached to one of the side rails of the platen frame and arranged to engage a work sheet at one side of the typing point, a clamping plate fixed to the latter side rail and extending from the same over the platen to a point spaced from the other side rail and arranged to clamp the work sheet in front of the typing point and an extension on the inner portion of said plate projecting rearwardly from the body of the plate and spaced from each side rail to clamp the work sheet at the other side of the typing point.

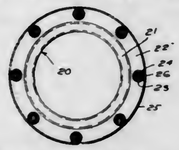
2,325,899
VOLTAGE REGULATOR SYSTEM
Hugh E. Young and Eugene H. Haug, Chicago, Ill., assignors to Hugh E. Young, trustee of Young & Haug Trust Estate
Application February 8, 1940, Serial No. 317,856
6 Claims. (Cl. 171—119)

1. An alternating current power transmission system comprising a step-type voltage regulator in combination with two capacitors, the latter being connected in series on one side of the line, and said regulator comprising a series winding in series circuit relation between the two said capacitors, and an exciting winding connected



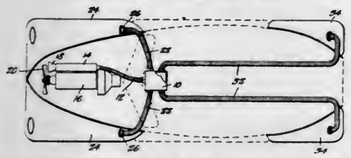
shuntwise across the output terminals of the regulator.

2,325,900
AIRPLANE CONSTRUCTION
Joseph K. Anderson, Painesville, Ohio
Application January 2, 1942, Serial No. 425,476
2 Claims. (Cl. 244—117)



1. A frame construction for an airplane comprising a ring-like tube having a circumferential slot in its outer periphery, a ring-like web having its inner edge inserted in said slot and abutting the inner wall of the tube at a point diametrically opposite to the slot, said web having openings adjacent its peripheral edge and having a narrow entrance slot communicating with each opening, and axially extending fabric retaining tubes positioned in said openings and having fabric receiving slots in registry with the entrance slots of the openings.

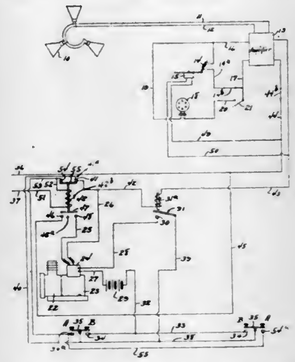
2,325,901
FENDER DEICER
Frank Atkinson, Oxford, Ind.
Application April 11, 1942, Serial No. 438,650
1 Claim. (Cl. 180—1)



In an automotive vehicle having an engine and front and rear fenders, an air heater arranged in heat transfer relationship with the engine, an air distributor lying rearwardly of said engine, a flexible conduit placing said air heater in communication with said air distributor, flexible conduits placing said air distributor in communication with the underside of the front fenders and rearwardly of the front wheels of the vehicle, and flexible conduits placing said air distributor in communication with the bottom side of said rear fenders rearwardly of the rear wheels of the vehicle.

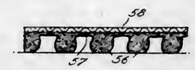
2,325,902
EMERGENCY ALARM SYSTEM
William G. Bauer, Brooklyn, Md.
Application January 8, 1942, Serial No. 426,095
1 Claim. (Cl. 177—352)

In an alarm system, the combination with electrically operated signal means, a main circuit including said means and adapted to be connected to a service source of current, a motor-generator unit, a secondary circuit including said unit, a change-over relay embodying first and second switch units interposed respectively in said main and secondary circuits, the coil of said relay being located in said main circuit to maintain said first switch unit closed and said second switch unit opened when the service source is active, a starting circuit for said motor-generator unit, a source of current for said starting circuit, a solenoid switch and a normally opened manually operable switch in said starting circuit, the coil of the said solenoid switch being in said main circuit to maintain said switch opened while the service source of current is active, said first switch unit being adapted to open and said second switch unit being adapted to close on the failure of said source so as to open the main circuit and connect



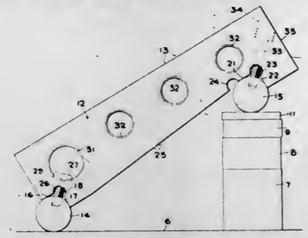
said signaling means to said secondary circuit, said solenoid switch being adapted to close on the failure of said current source so as to permit the starting of the motor-generator unit on the closing of said manually operable switch, said solenoid switch again opening on the operation of said unit, and a circuit connected to said main circuit and to the coil of the relay and said manually operable switch so as to effect the opening of said second switch unit and the closing of said first switch unit when said manually operable switch is closed on the restoration of the service source of current and thus disconnect said signal means from said secondary circuit and close said main circuit.

2,325,903
METHOD OF MAKING SPONGE RUBBER MATERIAL
George W. Blair and Virgil H. Bodle, Mishawaka, Ind., assignors to Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind., a corporation of Indiana
Continuation of application Serial No. 158,465, August 11, 1937. This application September 20, 1941, Serial No. 411,750
20 Claims. (Cl. 18—53)



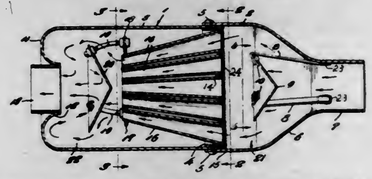
1. The method of making sponge rubber floor covering material which includes the step of forming a sheet of blowable sponge rubber compound and the subsequent separate step of blowing and expanding the sheet freely and unobstructedly to full blown sponge rubber thickness.

2,325,904
SINE BAR
Charles Brebeck, Herkimer, N. Y.
Application July 3, 1942, Serial No. 449,698
2 Claims. (Cl. 33—174)



1. In a sine bar, the combination of a bar having a fiducial plane surface and a pair of seats, each seat comprising two positioning planes forming a dihedral angle; a pair of right circular cylindrical buttons each positioned by engagement with a corresponding one of said seats; and retaining screws housed in and accessible through cavities in said bar, which cavities lead from surfaces other than said fiducial surface, said screws being threaded into tapped holes in the buttons leading from portions of the cylindrical surfaces of the buttons which are wholly between the lines of contact of the buttons with said positioning planes.

2,325,905
SUPPRESSOR
Edward W. Caulfield, St. Petersburg, Fla.
Application October 8, 1941, Serial No. 414,179
1 Claim. (Cl. 181—56)

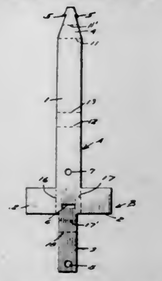


A suppressor comprising an elongated cylindrical casing having an inlet in one end and an outlet in its other end, a substantially conical baffle mounted in the casing in spaced, concentric relation thereto and in longitudinal alignment with the inlet, a circular apertured plate mounted in the casing rearwardly of the baffle, a plurality of imperforate, rearwardly tapering and converging tubes mounted in the apertures in the plate, a plate mounted on the rear end portions of the tubes and spaced from the casing, integral ears radiating from the second-named plate, rearwardly projecting rods mounted on said ears, a substantially conical baffle mounted on said rods in spaced, opposed relation to the tubes and spaced from the casing, and a bell on the rear end of the casing for directing exhaust gases forwardly into the second-named baffle.

2,325,906
IDENTIFICATION TAG
Thomas J. Claffey, Oconomowoc, Wis.
Application March 11, 1941, Serial No. 382,827
2 Claims. (Cl. 40—3)

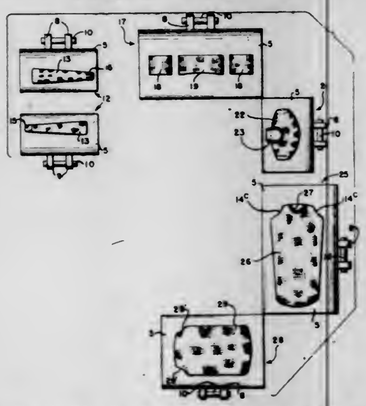
1. An ear tag for cattle comprising a strip of flat metal extended through the ear of the animal and bent upon itself and including an elongated loop having a barbed end interlocked with one side of said loop, and a flap-forming exten-

sion of the other end of said loop bent over and extending beyond the interlock in covering relation to the same and permanently attached to said one side of said loop beyond said interlock, said side of the loop having a pair of opposed



edge flaps folded over said interlock in overlapping relation intermediate said interlock and extension and intermediate the fold of the latter and point of attachment thereof and forming with the latter a locked seal around the interlock.

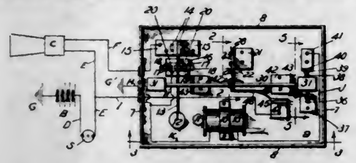
2,325,907
METHOD OF COMPLETELY MACHINE-IRONING SHIRTS
Charles P. Downer, Winchester, and Harry G. Cooper, West Medford, Mass., assignors to The Prosperity Company, Inc., Syracuse, N. Y., a corporation of New York
Application June 5, 1940, Serial No. 339,010
3 Claims. (Cl. 38—144)



1. The method of completely machine-ironing shirts including successive ironing operations in any order of the cuffs, collar and neckband, yoke and shoulders, and sleeves, back and front of the shirt, so that each successive ironing operation overlaps only adjacent previously ironed portions of the shirt, and each of said ironing operations involving a single application of pressure over a comparatively large area of the shirt.

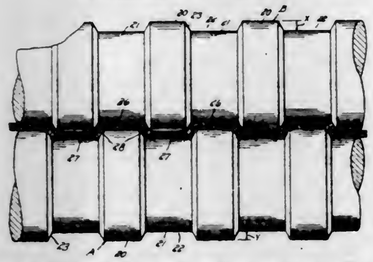
2,325,908
INERTIA SWITCH
Karl A. Edstrom, Denver, Colo., assignor to The Electric Alarm Company, Inc., Denver, Colo.
Application September 21, 1939, Serial No. 295,851
2 Claims. (Cl. 200—52)

1. An inertia switch comprising a base, a support element thereon having spaced projections, a resilient ribbon providing a torsion pivot supported on said projections, an inertia actuated switch arm attached near its center of mass, to the ribbon for pivotal angular movement therewith, an inertia element having mass positioned at one end of the switch arm, a second inertia element having substantially the same mass positioned adjacent the other end of said switch



arm, a spring-urged electrical conductor positioned against the arm adjacent its pivotal axis, an electrical contactor positioned on the switch arm remote from its pivotal axis, and another relatively stationary electrical contactor positioned in spaced relationship to the contactor on the switch arm and adjacent thereto for contact therewith when the switch arm is moved.

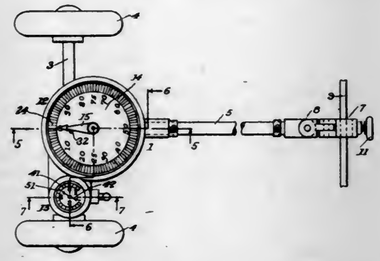
2,325,909
MACHINE FOR SHRINKING AND FELTING HAT BATS
Homer A. Genest, Danbury, Conn., assignor to United States Hat Machinery Corporation, New York, N. Y., a corporation of Virginia
Application June 1, 1940, Serial No. 338,321
12 Claims. (Cl. 28—6)



1. In a machine for shrinking hat bats, a plurality of rollers, each of said rollers having generally cylindrical ring-like portions spaced apart by cylindrical reduced portions to form a surface having crosswise spaced apart depressions and elevations of generally particylindrical form, and a second plurality of rollers forming a surface complementary to the surface formed by the first rollers, the height of the ring-like portions of some of the rollers being greater than the height of the ring-like portions of the other rollers.

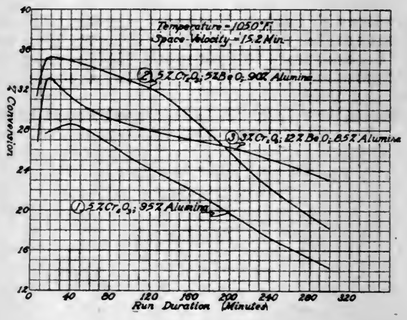
2,325,910
AUTOMOTIVE BRAKE TESTING MACHINE
Frank L. Hetzel, Hermosa Beach, Calif.
Application October 1, 1941, Serial No. 413,172
3 Claims. (Cl. 73—51)

3. In a machine for testing automotive brakes including a trailer, means for connecting said trailer to an automobile, a speedometer mounted upon said trailer, said speedometer including a drive shaft, means whereby said drive shaft is driven by said trailer, a magnetic disc on said drive shaft, an indicator shaft, an iron disc on said indicator shaft adjacent said magnetic disc, an indicator arm on said indicator shaft, a dial on which are speed graduations to which said indicator arm is adapted to point, and a spring for normally holding said indicator arm in position pointing to the zero speed graduation on said dial, a brake for said iron disk including a solenoid with a coil and a core, a brake plunger connected to the core of said solenoid and extending toward the periphery of said iron disk, a brake-testing electrical circuit including a battery, the coil of said solenoid, and a switch on



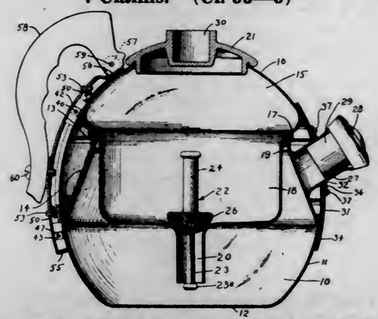
the brake pedal of the vehicle to which said trailer is connected, which switch is closed by the pressure of one's foot when applied to said brake pedal to depress the same to close said circuit, whereby the core of said solenoid is drawn into the coil of said solenoid and said brake plunger is forced against the periphery of said iron disk to arrest the indicator arm of said speedometer.

2,325,911
CATALYTIC DEHYDROGENATION
Hal C. Huffman, Long Beach, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California
Application March 11, 1941, Serial No. 382,735
11 Claims. (Cl. 260—683)



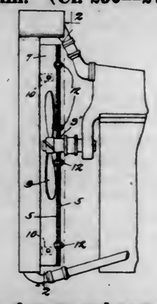
1. A process for dehydrogenating hydrocarbons which comprises subjecting hydrocarbons to be dehydrogenated to a temperature of about 1050° F. in the presence of a catalyst consisting of a major proportion of "activated alumina" of commerce and minor proportions of beryllia and an oxide of a metal selected from the left hand column of the sixth group of the periodic table, said catalyst being prepared by adsorbing on "activated alumina" of commerce, aqueous solutions of beryllium salts and salts of metals selected from the left hand column of the sixth group of the periodic table, followed by reducing the salts to the corresponding oxides.

2,325,912
COFFEE MAKER
Herbert G. Lehmann, Wood-Ridge, N. J., assignor to Casco Products Corporation, Bridgeport, Conn., a corporation of Connecticut
Application August 3, 1940, Serial No. 350,311
7 Claims. (Cl. 53—3)



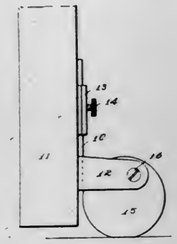
2. In a coffee maker of the vacuum type comprising two vessels, one superposed upon the other, having a substantially spherical contour when assembled, and a spout protruding from the lower vessel, means for securing the two vessels together comprising a broad zone-shaped metal casing extending over the spherical surfaces of said vessels on each side of their junction, said casing being vertically split at one side; adjustable draft means for fastening together the ends of the split casing whereby the latter is adapted to be tightened about the coffee maker securely clamping the vessels together; and an aperture in said casing through which the spout protrudes, the edges of which aperture engage the spout, preventing rotation of the casing about the coffee maker.

2,325,913
TRACTOR FAN GUARD
Price P. McLemore, Jr., Greenwood, Miss.
Application July 7, 1942, Serial No. 450,091
1 Claim. (Cl. 230—275)



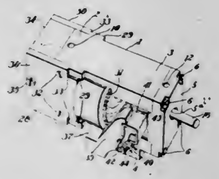
A motor vehicle fan guard comprising a housing including a pair of perforated plates, a flange formed along the outer longitudinal side edge of each of the plates, the plates having cut-out portions extending inwardly from the inner central edges thereof, said cutout portions of the plates adapted to align providing a fan shaft opening, when the inner edges of the plates are moved to overlap each other in forming the housing, angle plates secured to the flanges and adapted to be bolted to a radiator frame, holding the guard in spaced relation with the fan housed by the guard, and bolts adapted to extend through openings of the overlapped edges of the plates, adjustably securing the plates together.

2,325,914
DOORSTOP
Adolph L. Moberg, Des Moines, Iowa, assignor of one-half to Edward Hraha, Des Moines, Iowa
Application June 25, 1941, Serial No. 399,626
1 Claim. (Cl. 292—230)



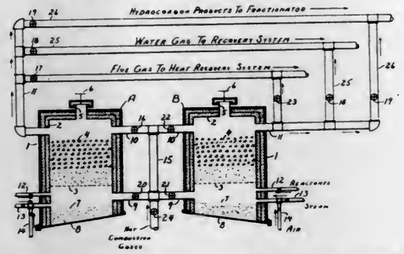
A floor engaging door stop comprising a supporting bracket having an elongated flat body portion attachable to a door and a pair of flat arms adjacent the lower end portion thereof extending laterally therefrom, said arms having inward projections adjacent their upper edges, a pivotal support mounted in the free ends of said arms above the lower end of said body portion, a resilient friction wheel for engaging a floor mounted eccentrically on said support between said arms and having its sides closely adjacent the opposed sides of said arms, the distance from the axis of said support to the lower end of said body portion being substantially greater than the radius of said wheel and less than that from the high point of said wheel so that on opening the door the high point of the wheel engages the floor, passes toward the door through a vertical plane longitudinal of the axis of the pivotal support until the periphery of the wheel engages the lower end portion of the bracket to prevent further turning of the wheel to stop the door, and closing the door is resisted in reverse movement, the sides of the wheel when turned upwardly and towards the bracket engaging said projections to hold the wheel in inoperative position.

2,325,915
PERMANENT MAGNET MOTOR
James M. Naul, Fanwood, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application April 13, 1942, Serial No. 438,674
13 Claims. (Cl. 172—36)



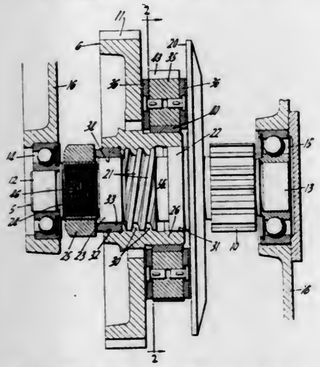
1. A dynamoelectric machine having a non-magnetic frame member including bearing-supporting end portions one of which is integral with said frame, magnetic pole-pieces secured to opposite sides of said frame and projecting beyond one of said end portions and a permanent magnet secured to the projecting end portions of said pole-pieces externally of said frame member.

2,325,916
MANUFACTURE OF LIQUID HYDROCARBONS FROM GASEOUS AND SOLID CARBONACEOUS MATERIALS
Cecilio L. Ocon and Ernest A. Ocon, Yonkers, N. Y.; said Cecilio L. Ocon assignor to Ernest A. Ocon
Application April 24, 1939, Serial No. 269,666
4 Claims. (Cl. 196—56)



1. A process for producing liquid hydrocarbons from solid carbonaceous fuel under the influence of gaseous hydrocarbons undergoing polymerization, which comprises calcinating said solid carbonaceous material agglomerated with a solid inorganic adsorbent gel in a finely divided form to above 800° F. to convert the carbonaceous material into solid pyrobitumens, separately heating a stream of normally gaseous hydrocarbons under a superatmospheric pressure to a temperature in the range of about 1000 to 1350° F. for a time sufficient to activate the hydrocarbons by dehydrogenation, mixing said solid pyrobitumens resulting from the calcination with the thus activated gaseous hydrocarbons to effect polymerization of the hydrocarbons and destructive distillation of the solid pyrobitumens in a dry solid state, removing vaporous reaction products, and condensing a gasoline motor fuel therefrom.

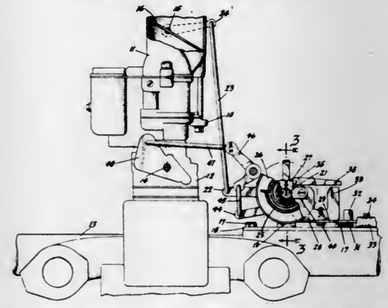
2,325,917
LOAD BRAKE
Humphrey F. Parker, Kenmore, Erford E. Robins, Tonawanda, and Lowell B. Gilbert, Kenmore, N. Y., assignors to Columbus McKinnon Chain Corporation, Tonawanda, N. Y., a corporation of New York
Application June 28, 1941, Serial No. 400,328
5 Claims. (Cl. 192—16)



1. A load brake for hoists comprising a brake shaft carrying a friction disc, a brake wheel mounted upon said shaft in spaced relation to said friction disc, a ratchet wheel mounted between said friction disc and said brake wheel and

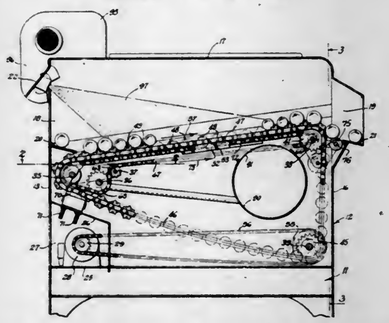
capable of frictional engagement with said last two mentioned elements, a fixedly arranged pawl for engagement with said ratchet wheel to prevent rotation thereof in one direction, non-supporting screwthread means between said shaft and said brake wheel for causing relative axial movement therebetween, and spaced bearings carried by said shaft and supporting said brake wheel on said shaft, said bearings being arranged one on each side of said screwthread means, whereby said wheel and the interior screwthreads formed therein are free of bearing support on the exterior screwthreads carried by said shaft.

2,325,918
AUTOMATIC CHOKE VALVE
Lester E. Perrine, Detroit, Mich., assignor, by mesne assignments, to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application March 31, 1932, Serial No. 602,267
24 Claims. (Cl. 123—119)



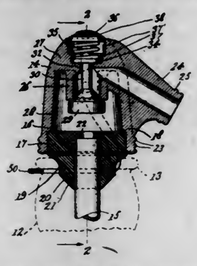
1. In mechanism for regulating the position of the choke valve of a carburetor, a magnetic body associated with the choke valve, and a permanent magnet which is so arranged that the force exerted thereby tends to maintain the body in a position in which the choke valve is closed.

2,325,919
APPARATUS FOR HANDLING FRUIT
Howard L. Porch, Riverside, Calif., assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Application May 20, 1941, Serial No. 394,317
3 Claims. (Cl. 198—65)



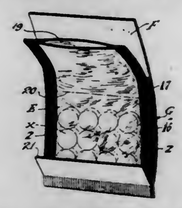
1. In an apparatus suitable for handling fresh fruit in the presence of tacky material, the combination of: a conveyor including an endless series of travelling rollers which support said fruit in the valleys between said rollers and convey the same along a given path toward the end of which said rollers move downwardly; rotary means disposed parallel with but outside the course travelled by said rollers and extending into the path of fruit carried in the valleys between adjacent rollers of said conveyor where these rollers are moving downwardly; means for rotating said rotary means at a sufficient rate of speed, and with the upper surface thereof moving in the same direction as said fruit is conveyed along said path, so that contact of said fruit with said rotary means results in said fruit being quickly expelled from the respective conveyor valleys in which it was travelling and in the propulsion of said fruit over said rotary means away from said conveyor; and means positioned for receiving said fruit as it is thus delivered over said rotary means.

2,325,920
SIPHON
Thomas S. Rigby, Coconut Grove, Fla., assignor, by mesne assignments, to Waterbury Button Company, a corporation of Connecticut
Application September 4, 1940, Serial No. 355,399
3 Claims. (Cl. 215—5)



1. An improved siphon for containers comprising a substantially hollow siphon head, a barrel therein, webs extending from said head inwardly to said barrel, one of said webs being hollow and communicating with the upper portion of said barrel, an external siphon nozzle on said head communicating with said hollow web, a valve movably mounted in said head and closable against the lower rim of said barrel, means biasing said valve to closed position, and operating means for opening said valve.

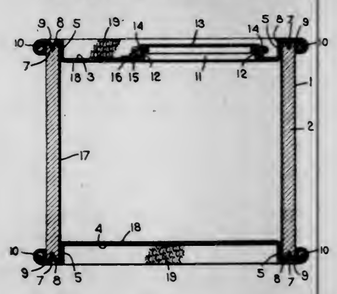
2,325,921
COMPOSITE PACKAGE
Leroy L. Salfisberg, South Orange, N. J., assignor to Ivers-Lee Company, Newark, N. J., a corporation of Delaware
Application October 31, 1942, Serial No. 464,002
2 Claims. (Cl. 206—56)



1. A package comprising a bag of flexible material openable at one end to form a mouth and having a transverse fold inwardly of said end to form a foldable closure for said mouth, and a cover comprising a strip of relatively stiff material having a body portion at one side of said

bag and a transverse fold to nicely receive said transverse fold of the bag and to form a flap to overlie the other side of the bag, the first-mentioned side of said bag being permanently secured along its longitudinal margins to said cover at opposite sides of said transverse fold of the bag and being otherwise free from said cover and the cover and the second-mentioned side of said bag being exposed and accessible when said flap of the cover is unfolded, so that said foldable closure will be closed and opened automatically by and when said flap is folded and unfolded respectively, said bag will be exposed when said flap is unfolded to permit the contents of the bag to be squeezed out of the bag by pressure on the front wall of the bag, the first-mentioned wall of the bag is flexible independently of said cover, and said body portion of the cover will reenforce said bag and provide a smooth guide surface for sliding of said contents and will prevent crumpling of said bag at all times.

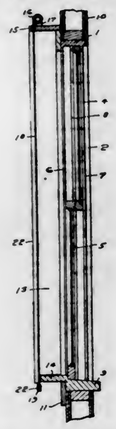
2,325,922
CONTAINER
Harry Sebell, Newton, Mass., assignor of one-half to Arthur H. Parker, Lexington, Mass.
Application January 10, 1940, Serial No. 313,180
5 Claims. (Cl. 229—3.1)



1. A container comprising a body section of fibrous material lined with Cellophane, and end members of sheet metal also lined with Cellophane, each end member having an annular wall fitting within the body portion at its end and a seaming flange which overlies the end edge of the body portion and is formed into a bead that encircles said end edge, the seaming flange of each member being formed with a rib which is embedded in the end edge portion of the body section and which divides said end edge portion into inner and outer parts, the outer part flaring outwardly and being locked between the rib and the bead, one of said end members being provided with a pouring opening which is sealed and closed by the Cellophane lining for said end member.

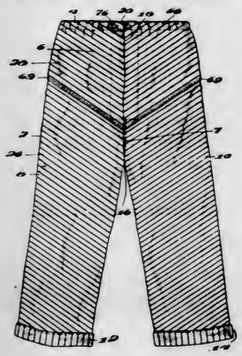
2,325,923
BLACK-OUT EQUIPMENT FOR WINDOWS
George William Steltner, Los Angeles, Calif.
Application December 5, 1942, Serial No. 467,979
1 Claim. (Cl. 160—239)

For mounting on the inside trim frame of a window, a blackout closure for the window comprising a rectangular open front frame extending forwardly from said trim frame around the opening defined thereby and including top, side and bottom panels, respectively, the bottom panels forming a stool cap section for the window, and the top panel provided with a longitudinal slot therein of a length equal at least to the distance between the outer sides of the side panels, and lying in a common plane with the front faces of said side panels, a shade roller mounted on top of said top panel to extend alongside said slot parallel therewith, an opaque shade of a width corresponding to the distance between the outer sides of said side panels attached to said roller and depending through said slot



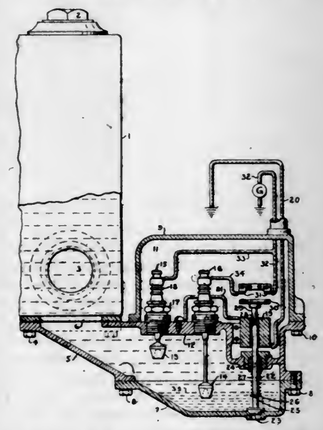
to hang when drawn flush against said front faces of said side panels, and means on said side panels for forming a light excluding seal between the side edges of said shade and said front faces of said side panels comprising a pair of shutter panels hinged to said side panels to fold over said side edges of the shade and clamp the latter against said front faces.

2,325,924
PAJAMA PANTS
Trent B. Terry, Charlottesville, Va.
Application October 6, 1941, Serial No. 413,868
4 Claims. (Cl. 2—227)



1. In a pants garment of woven fabric, a lower portion including the seat, crotch, and leg regions of the garment comprised of blank means substantially of inverted U-shape and having a substantially straight top edge extending along the straight of the fabric, an upper portion including the upper back, waist and abdominal regions comprised of blank means substantially of U-shape having upwardly convergent side edges, a substantially straight bottom edge extending along the straight of the fabric, seam means securing said edges together, and means for holding said side edges vertically aligned in overlapping relationship along the front median line of the garment, the straight of the fabric and said seam means extending in downwardly converging V-formation at the front of the garment.

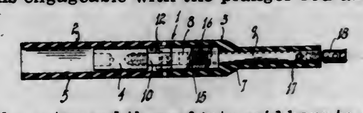
2,325,925
DELAYED CLOSING AUTOMATIC WATER DISCHARGE VALVE
Paul E. Waugh, Fort Wayne, Ind., assignor to Tokheim Oil Tank and Pump Company, Fort Wayne, Ind., a corporation of Indiana
Application April 5, 1939, Serial No. 266,225
9 Claims. (Cl. 210—54)



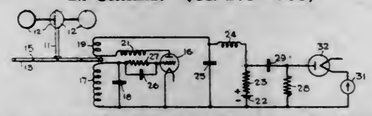
1. In a water separating and discharging device for tanks or reservoirs containing a petroleum product, in combination water collecting means adapted to form a collecting reservoir for the water underlying such petroleum product, a water discharge outlet for said water collecting means, a valve adapted to close said outlet, said valve having a core, a solenoid surrounding said core, and adapted on energization of said solenoid to shift said core and open said valve, a shiftable switch member carried by said core, normally open electrical contacts adapted to be closed by said shiftable switch member, upper and lower electrodes projecting into the reservoir formed by said water collecting means and terminating in vertically spaced relation, an electric circuit including a source of electric current, the upper of said electrodes and said solenoid and through which current flows upon the accumulation of water in said reservoir to the level of said upper electrode whereby to open the valve, an electric circuit including said source, the lower of said electrodes, said switch contacts and said solenoid and through which current flows while the water is above said lower electrode to maintain said valve in open position until the recession of the water below said lower electrode.

2,325,926
WELDING ROD HOLDER
Joseph P. Weed, Hawthorne, Calif.
Application March 30, 1942, Serial No. 436,739
6 Claims. (Cl. 219—8)

1. A welding rod holder comprising a handle portion and a tip portion, said tip portion having a bore therein to receive a welding rod, means pivotally attaching the tip portion to the handle portion, a plunger rod in the tip portion and cam means engageable with the plunger rod and urging the outer end thereof into said bore to engage the welding rod.

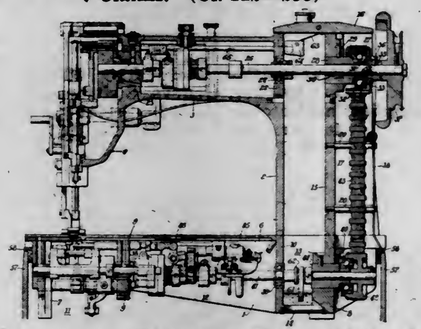


2,325,927
SPEED INDICATOR
Donald A. Wilbur, Troy, N. Y., assignor to W. & L. E. Gurley, Troy, N. Y., a corporation of New York
Application October 3, 1940, Serial No. 359,599
12 Claims. (Cl. 175—183)



7. In a speed indicator, the combination of a vacuum-tube oscillator, means for periodically interrupting oscillation of said oscillator, such interruption recurring at a frequency proportional to the speed to be measured, whereby the plate current of said oscillator abruptly changes from one value to another value at each instant of change in oscillating state, an output circuit coupled to the plate circuit of said oscillator including a transformer having a tapped secondary winding, a translating circuit controlled by one portion of said secondary winding for producing a current pulse of one polarity for each interruption of oscillation of said oscillator, a second translating circuit controlled by the opposite portion of said secondary winding for producing a pulse of the same polarity for each starting of oscillation of said oscillator, and an indicating instrument controlled jointly by the pulses produced in said translating circuits.

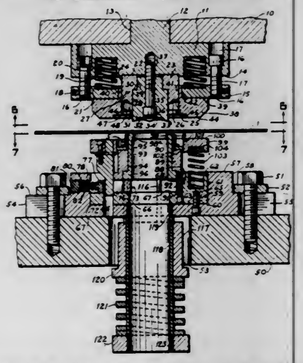
2,325,928
SEWING MACHINE FRAME
Frederick F. Zeier, Fairfield, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Original application April 15, 1939, Serial No. 267,958. Divided and this application October 26, 1940, Serial No. 362,907
7 Claims. (Cl. 112—258)



1. A sewing machine frame comprising a bed having side and end walls and a plurality of transversely arranged dividing partitions defining a mechanism compartment and an oil-sump; a standard rising from one end of said bed and having an internal partition in alinement with one wall of said oil-sump dividing said standard

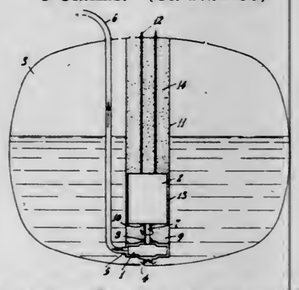
into a belt compartment and a splash-lubrication compartment; a bracket-arm terminating in a head overhanging said bed; a drip-pan having upstanding side and end walls adapted to receive said bed; and a detachable work-supporting plate secured upon the top of said bed for covering the operating connections contained within the mechanism compartment of said bed.

2,325,929
DIE MECHANISM AND METHOD
Earl M. Amesbury, Chicago, Ill., James G. Macormack, New York, N. Y., Seward M. Roberts, Chicago, Ill., and Fleck W. Sample, Forest Hills, N. Y., assignors to American Flange & Manufacturing Co., Inc., New York, N. Y., a corporation of Illinois
Application June 28, 1939, Serial No. 281,506
15 Claims. (Cl. 153—1)



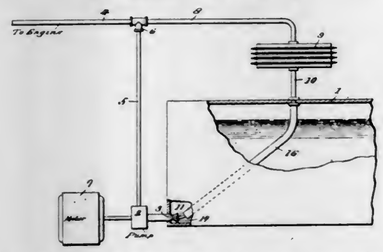
1. In single operation die mechanism for applying flanged bushings to perforated metallic sheets, means to draw the sheet to a neck surrounding the bushing with part of the bushing neck extending through the perforation, means to roll the extending part of the bushing neck over the end of the surrounding neck of the sheet and means movable during part of the drawing operation to guide the extending part of the bushing neck into proper engagement with the rolling means, said guiding means being movable at substantially the end of the drawing operation to leave the extending part of the bushing neck free for engagement by the rolling means whereby bushings may be seated in place in metallic sheets with uniformity.

2,325,930
SUBMERSIBLE ELECTRIC MOTOR
Rifat Avigdor, Geneva, Switzerland
Application October 17, 1938, Serial No. 235,522
In Germany December 28, 1937
3 Claims. (Cl. 172—36)



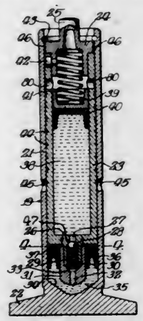
1. An electromotor for use in an inflammable or explosive medium comprising an electric motor, a shaft extending into said medium in which said motor is placed, a non-explosive liquid nonsoluble with respect to said medium in said shaft surrounding said motor, said shaft being sealed about said motor with respect to said medium and means for placing said liquid under a higher pressure than the pressure of said medium.

2,325,931
FUEL FEEDING DEVICE FOR AIRCRAFT
Rifat Avigdor, Leaside, Ontario, Canada
Application June 21, 1941, Serial No. 399,244
8 Claims. (Cl. 103—5)



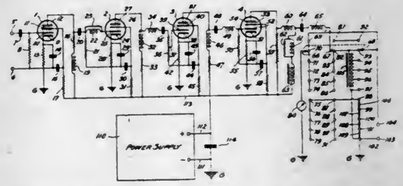
1. A fuel feed device for aircraft comprising a fuel tank, a pump unit located externally of such tank the pump of which constitutes the motor feed pump and said pump having an inlet connected to said tank for withdrawing fuel from said tank, a cooler having means to facilitate heat exchange and located outside said fuel tank to maintain the fuel in liquid form, a motor feed conduit connected to said pump, a conduit connecting the motor feed conduit to said cooler for feeding to said cooler part of the fuel delivered by the motor feed pump and an insulated conduit from the cooler to a point adjacent the inlet of said feed pump to return the cooled fuel to said feed pump.

2,325,932
VALVE ACTUATING MECHANISM
Oscar H. Banker, Chicago, Ill., assignor to New Products Corporation, Chicago, Ill., a corporation of Delaware
Application August 2, 1940, Serial No. 349,911
12 Claims. (Cl. 123—90)



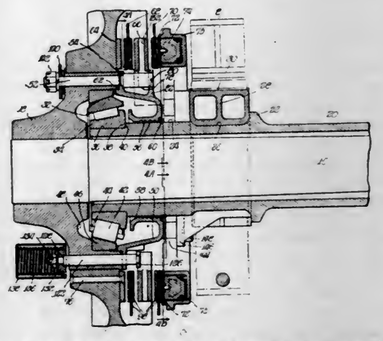
5. A valve actuating device comprising, in combination, a member forming a cylinder closed at one end, a hollow plunger fitted slidably in said cylinder with a part projecting from the open end of the cylinder, the cavity of the plunger serving as a reserve chamber for liquid, a check valve device in the plunger permitting liquid to flow freely from said chamber to a space between the closed end of the cylinder and the end of the plunger, resilient self-contained means in the plunger maintaining under pressure the liquid therein and the liquid in said space at the closed end of the cylinder, said check valve device including a restricted by-pass permitting liquid to escape past the valve into the reserve chamber upon expansion due to increase of temperature.

2,325,933
WIDE RANGE AMPLIFIER
Alfred W. Barber, Flushing, N. Y., assignor to Boonton Radio Corporation, Boonton, N. J.
Application November 10, 1939, Serial No. 303,723
2 Claims. (Cl. 179—171)



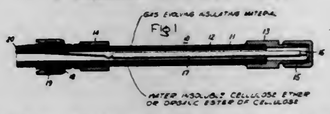
1. In a thermionic vacuum tube amplifier, the combination of, a plurality of thermionic vacuum tubes associated with a plurality of compensating circuits to produce substantially constant gain and low distortion over a wide range of frequencies including, a volume control potentiometer preceeding two final tubes, a degenerative cathode circuit connected to the final tube for reducing distortion to substantially that generated by the preceding tube to provide substantial cancellation of distortion generated by said two tubes; and inter-tube coupling impedances including series and shunt compensating inductances to equalize the gain of said two tubes over a wide frequency range to extend the cancellation of said distortion over said wide frequency range.

2,325,934
BRAKE ARRANGEMENT
Walter H. Baselt and Carl E. Tack, Chicago, Ill., assignors to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application March 23, 1940, Serial No. 325,544
22 Claims. (Cl. 188—153)



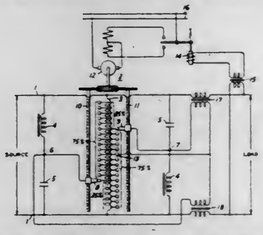
1. In a railway car truck, a frame, a supporting wheel and axle assembly comprising a rotating axle with a wheel seated thereon, a nonrotating axle sleeved over said rotating axle, antifriction bearings between said wheel and said nonrotating axle; a closure plate for said bearings, an inboard journal member, braking means and actuating means operable between said wheel and journal member, said braking means including rotatable elements driven by said wheel and closure plate and stationary elements supported from said actuating means. and release means for said stators comprising spaced pads of resilient material mounted on said actuating means.

2,325,935
ELECTRICAL PROTECTIVE DEVICE
Kenneth H. Benton, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application October 1, 1941, Serial No. 413,163
9 Claims. (Cl. 200—127)



1. An arc-confining structure comprising gas-evolving insulating material having the outer portion thereof surfaced with a coating of a cellulose derivative selected from the class consisting of water-resistant cellulose ethers and organic esters of cellulose, said coating having a substantial thickness such that it may be machined without cutting through said thickness.

2,325,936
REGULATING CIRCUIT
Louis F. Blume, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application November 25, 1941, Serial No. 420,373
20 Claims. (Cl. 172—238)



1. In combination, an alternating-current power circuit, a capacitor connected to draw a wattless leading current through said circuit, a reactor connected to draw a wattless lagging current through said circuit, and means for inversely varying the magnitude of said currents while keeping them in quadrature with the voltage of said circuit.

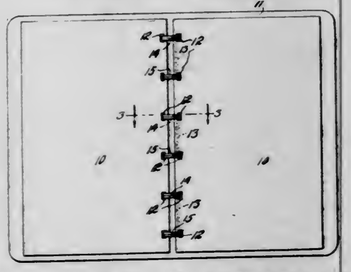
2,325,937
METHOD OF AND APPARATUS FOR COLLAPSING WATER WAVES
Philip Brasher, Kent, Conn.
Application June 19, 1942, Serial No. 447,675
5 Claims. (Cl. 114—0.5)



1. The method of producing a quiescent area adjacent a ship of sufficient extent to permit a

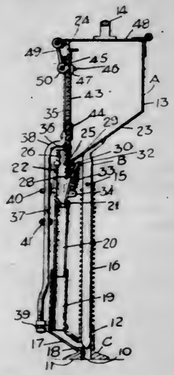
plane to be lowered into the sea from the ship for take-off and to land in the sea again to be picked up by the ship, which method comprises creating an upwardly moving wall or dam of air and water in the path of waves approaching the ship by having the ship tow a flexible conduit while discharging air from the conduit into the water at the outer end of the conduit.

2,325,938
BINDING
Arthur F. Brook, Madison, N. J.
Application November 7, 1942, Serial No. 464,908
4 Claims. (Cl. 281—21)



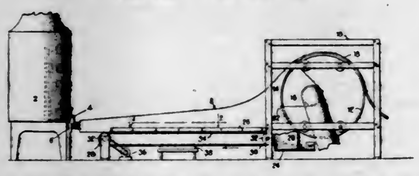
4. As a new article of manufacture, a binding element comprising a substantially straight bar of flexible resilient plastic having opposite end portions coiled away from the same side of the bar in oppositely pitched coaxial helices of the same diameter, each coil being of substantially two complete convolutions with the convolutions in close side-by-side relation, the ends of said coils being free and lying within the circular outline of the coils, said free ends permitting separation of the outer convolutions sufficiently to be entered in adjoining perforations in a stack of sheets to be bound and the plastic being sufficiently flexible and pliable to permit the simultaneous threading of said oppositely pitched coils completely through said perforations until stopped by the bar portion connecting said coils.

2,325,939
GARDEN IMPLEMENT
Allan Moyer Buehler, Preston, Ontario, Canada
Application January 29, 1942, Serial No. 428,749
9 Claims. (Cl. 111—96)



1. A garden implement comprising a foot having an elongated passage therethrough and formed with an earth compressing face at one end surrounding said passage, a plunger connected with said foot aligned with and projectable through said opening into the earth when said foot is bearing upon the latter to form an elongated hole therein, said foot, forming means for compressing the earth over the area surrounding said hole to prevent adjacent earth from discharging thereinto, a tubular member connecting with said foot and communicating with said passage, a hopper carried by said plunger having a controllable discharge opening therein and tubular means movable with said plunger and operatively connected with said tubular member for establishing communication between said hopper and the passage in said foot and cooperating means for discharging material from said hopper through said tubular means upon withdrawing said plunger from the earth through said foot.

2,325,940
METHOD AND APPARATUS FOR PRODUCING MINERAL WOOL
Harold T. Coss, Somerville, N. J., assignor to Johns-Manville Corporation, New York, N. Y., a corporation of New York
Application July 21, 1937, Serial No. 154,866
8 Claims. (Cl. 154—27)

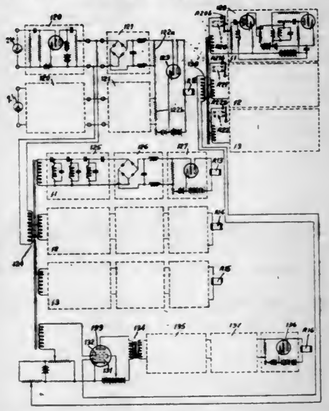


1. In an apparatus for producing mineral wool comprising means for melting raw material and forming fibers therefrom which are suspended in a moving gaseous stream, and means for collecting the fibers so formed; a blow tube for receiving the suspension of fibers and directing the same to the collecting means, the blow tube comprising a hollow casing for confining the fiber stream at the top and sides and provided with an opening along its under side, and a relatively impervious member movable toward said collecting means closing the said opening and forming a movable bottom for the casing.

2,325,941
STATISTICAL MACHINE
Arthur H. Dickinson, Scarsdale, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application July 25, 1939, Serial No. 286,448
8 Claims. (Cl. 235—61.7)

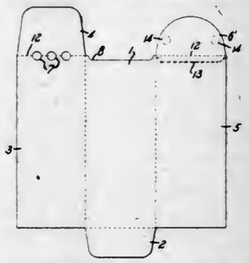
1. A statistical machine of the character described controlled by records bearing data designations comprising means for normally feeding records at a constant speed, said records bearing data designations formed to represent different frequency values in accordance with their formations, means for sensing the said designations on successive records, while in motion, said sensing means being responsive to the said data designations for generating electrical oscillations of predetermined frequencies in accordance with the frequency values of the designations, individual sources of oscillations of predetermined frequencies, which frequencies correspond to the different frequency values formed on the records, means controlled by the sensing means, upon the sensing of successive records, for selectively

rendering effective certain of the said sources in accordance with the designations sensed, means for simultaneously receiving the mentioned generated and selected oscillations and comparing the frequencies of the oscillations generated by the sensing means and the frequencies of the



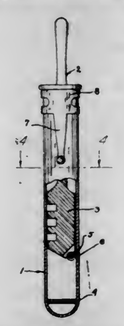
oscillations of the said selected sources, and means controlled by the last mentioned means for modifying the normal operations of the feeding means when the said compared frequencies differ.

2,325,942
DISPENSING ENVELOPE
William Eric Drake, Baltimore, Md., assignor to Hynson, Westcott & Dunning, Incorporated, Baltimore, Md., a corporation of Maryland
Application May 22, 1942, Serial No. 444,069
4 Claims. (Cl. 206—63.2)



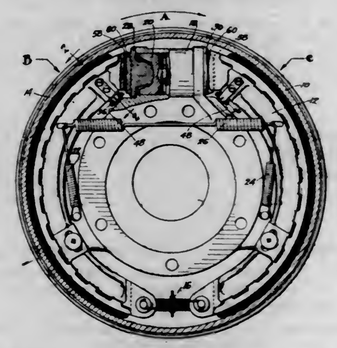
4. An envelope having a single compartment formed by a front wall and a rear wall, said front wall consisting of a single layer of sheet material and said rear wall consisting of two overlying layers of sheet material with their contacting faces adhesively attached to each other, said layers being integral parts of a unitary piece of the sheet material, an integral extension on the lower end of at least one of said three layers reversely folded and attached to a wall of the envelope to close the lower end of the compartment, an integral inner flap on the inner of said layers forming the rear wall of the envelope adapted to be folded over and to be permanently attached to the front wall of the envelope to close the upper end of the compartment, an integral outer flap on the other of said layers forming the rear wall of the envelope adapted to be folded over the inner flap and to be releasably secured in closed position, and dispensing openings in the sheet material centered on the fold line of the inner flap.

2,325,943
GLASS CUTTER
Arthur T. Fletcher, Bristol, Conn.
Application June 23, 1941, Serial No. 399,318
2 Claims. (Cl. 206—46)



1. In combination, a generally cylindrical holding tube having a closed bottom end, and a glass cutter having an enlarged head longitudinally receivable in said tube and having a transverse dimension slightly larger than the corresponding inner cross sectional dimension of the tube, said tube having an open end adapted to permit free entry of said head and having resilient walls extending from said open end substantially to said closed end and flexed by and gripping portions of said glass cutter to grip the latter as the same is moved into said tube.

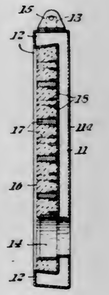
2,325,944
BRAKE
Frederick C. Frank, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application April 8, 1939, Serial No. 266,788
10 Claims. (Cl. 188—78)



1. A brake comprising a drum, a pair of shoes within said drum, a backing plate on which said shoes are mounted, means for moving said shoes into drum contact, and means for causing the braking torque of one shoe to act on the opposite shoe and anchor through said opposite shoe so that both shoes anchor through one shoe in both directions of rotation in combination with resilient means for positioning said shoes to determine their drum clearance in released position, said resilient means comprising a stop associated with the backing plate, a plunger associated with one of said shoes and normally contacting said stop, a sleeve within which said

plunger acts and a spring bearing at one end upon said sleeve and at the other end upon said plunger.

2,325,945
FURNACE DOOR
Oscar M. Fuchs, Pittsburgh, Pa., assignor to Blaw-Knox Company, Pittsburgh, Pa., a corporation of New Jersey
Application January 26, 1942, Serial No. 428,205
5 Claims. (Cl. 110—173)



1. A furnace door comprising a heat-dissipating metal back, a plurality of anchoring members secured to said back in heat-conducting relation thereto and extending outwardly therefrom, and a refractory lining applied to said back embedding said members so as to be anchored thereby to the metal back, said anchoring members being composed of non-metallic refractory material having a thermal conductivity intermediate that of the metal of the back and that of the lining and being adapted thereby to convey a limited amount of heat from the lining to the metal back.

2,325,946
SOFTENING SYNTHETIC RUBBER
Benjamin S. Garvey, Jr., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application March 26, 1941, Serial No. 385,301
6 Claims. (Cl. 260—36)

6. A composition of matter comprising di-2-ethylhexyl phthalate and a rubbery polymer of a conjugated butadiene.

2,325,947
SOFTENER FOR SYNTHETIC RUBBER
Benjamin S. Garvey, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application January 24, 1942, Serial No. 428,113
5 Claims. (Cl. 260—36)

1. A composition of matter comprising a synthetic rubber prepared by the copolymerization of a butadiene-1,3 hydrocarbon and at least one other unsaturated compound which contains a

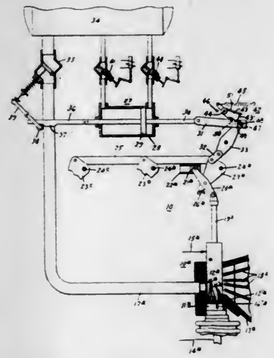


group and is copolymerizable therewith and, as a softener therefor, an N,N-dialkyl substituted amide of an aliphatic monocarboxylic acid containing from 10 to 20 carbon atoms in a straight chain, wherein each alkyl substituent contains not more than six carbon atoms.

2,325,948
SOFTENER FOR SYNTHETIC RUBBER
Benjamin S. Garvey, Jr., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application August 26, 1941, Serial No. 408,351
11 Claims. (Cl. 260—36)

1. A composition of matter comprising a synthetic rubber prepared by the polymerization of a butadiene-1,3 hydrocarbon and, as a softener therefor, an ester of a polycarboxylic acid wherein the hydrogen atom of at least one carboxyl group is replaced by a tetrahydrofurfuryl radical.

2,325,949
ELECTRIC CIRCUIT BREAKER
John D. Gayer, Springfield, Pa., assignor to General Electric Company, a corporation of New York
Application February 9, 1942, Serial No. 430,024
6 Claims. (Cl. 200—82)

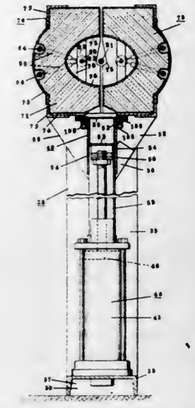


1. In combination with an electric switch comprising a plurality of relatively movable contacts, means for producing relative movement between said contacts, a restraining means comprising a single movable member constructed so as to hold said relatively movable contacts in a plurality of predetermined positions, and means operative upon operation of said first-named means for releasing said restraining means at each of said predetermined positions of said relatively movable contacts.

2,325,950
DRYING OVEN
Nathan J. Greene, Worthington, and George C. Reese, Columbus, Ohio, assignors to National Electric Coil Company, Columbus, Ohio, a corporation of West Virginia
Application May 7, 1940, Serial No. 333,804
7 Claims. (Cl. 34—87)

2. In combination, means forming an oven having an inlet opening and an outlet opening for the passage of a wire or the like through the oven; mechanism for moving the wire or the like through said openings; power operated means for driving said mechanism, said mechanism being adapted to coast to stopping position after the power operated means is rendered ineffective; mechanism for causing relative movement to be imparted between the wire and the oven for disassociating the entire wire from heat transfer relation with the oven; and control

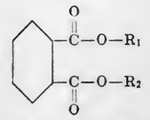
apparatus for said mechanisms, said apparatus including means for rendering the power operated means ineffective, time delay means for delaying the starting of the second mentioned mechanism until the first mentioned mechanism



is substantially stopped, and means rendered operative by the first mentioned means of the control apparatus for rendering the time delay means operative.

2,325,951
POLYVINYL HALIDE COMPOSITION
Thomas L. Gresham, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application March 9, 1940, Serial No. 323,222
6 Claims. (Cl. 260—36)

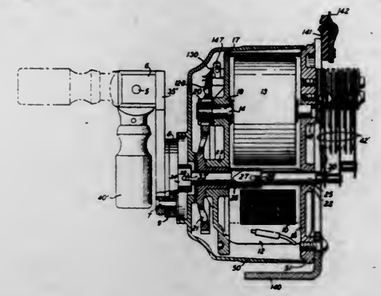
1. A composition of matter comprising a vinyl polymer and a plasticizer having the general formula



wherein R_1 and R_2 are branched-chain alkyl radicals containing at least six and not more than twelve carbon atoms, and the sum of the carbon atoms contained in R_1 and R_2 is not more than eighteen, the vinyl polymer being a product made by polymerizing a monomeric material of which the polymerizable constituent is essentially vinyl chloride.

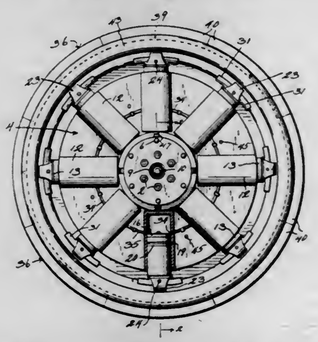
2,325,952
SIGNALING DEVICE
Leon N. Hampton, New York, N. Y., and George G. Smith, Orange, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 11, 1941, Serial No. 422,508
8 Claims. (Cl. 171—76)

1. In combination, an electric current generator comprising a rotor, a coil bearing stator, a front and rear mounting plate and means for mounting said rotor and coil bearing stator between said plates, and an interrupter mounted directly on one of said mounting plates, driving means for said rotor comprising a shaft and a gear carried thereby, and a gear fixed to said interrupter permanently meshing with the gear of said driving means whereby said interrupter and said rotor are separately driven by said shaft



through the medium of the gear associated therewith.

2,325,953
VEHICLE WHEEL
Frederick J. Hauschild, Oneonta, N. Y.
Application April 17, 1942, Serial No. 439,417
8 Claims. (Cl. 152—55)

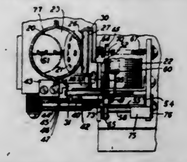


1. A wheel construction of the character described comprising a plate body having a central hub adapted to be mounted upon a supporting axle, a plurality of cylinders carried by said plate radially with respect to the hub, said cylinders being closed at their inner ends, air conduits connecting the inner ends of the cylinders together, a piston within each cylinder, a rim encircling and connecting with the outer ends of the pistons, said rim having a circumferentially extending outwardly opening channel, the connection between the pistons and the rim being so constructed and arranged as to allow limited turning movement of the rim with respect to the pistons on the axis of the wheel, and a tread encircling the rim and comprising a series of individual shoes each having a rib upon its inner side which is detachably secured in the channel of the rim.

2,325,954
COIN DISPOSAL UNIT
Harley A. Henning, Basking Ridge, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application January 1, 1942, Serial No. 425,269
18 Claims. (Cl. 232—57.5)

1. In a coin operated device, a coin hopper, a coin trap in said hopper for receiving deposited coins and normally free to move downwardly when an additional weight is added to the coin trap

and spring controlled means released by said trap in its initial downward movement upon being



struck by a deposited coin for latching said trap in coin supporting position.

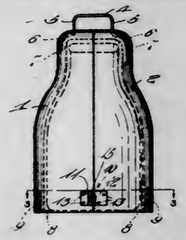
2,325,955

INSULATED MILK BOTTLE COVER

Thilda Higgins, Spokane, Wash.

Application August 5, 1941, Serial No. 405,547

1 Claim. (Cl. 229—89)



A bottle cover comprising a body of insulating material open at its bottom and closed at its top, said body consisting of vertical sections having side edge faces meeting in abutting engagement with each other along opposite sides of the body and diametrically across the top, a handle of resilient material disposed over the body diametrically thereof across meeting edges of the top-forming portions of the vertical sections and having depending arms at its ends, said arms having their lower portions firmly connected with the top-forming portions thereof sections to anchor the handle thereto whereby the handle serves as a spring yieldably holding the sections closed with their edge faces in engagement with each other and permitting the sections to be shifted away from each other for insertion and removal of a bottle through the open bottom of the cover, and means for releasably holding the sections in closed position.

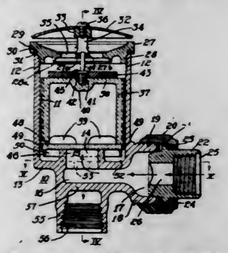
2,325,956

DEVICE FOR PREVENTING BACKFLOW IN LIQUID-CARRYING LINES

Clemens W. Holtman, Louisville, Ky., assignor to American Radiator & Standard Sanitary Corporation, a corporation of Delaware

Application December 6, 1939, Serial No. 307,818

4 Claims. (Cl. 137—69)



1. A device for preventing back-flow in a liquid-carrying line which comprises a body portion containing a chamber having inlet and outlet openings communicating therewith and having a port to the atmosphere and control members in said chamber capable of gravitational movement to inlet obstructing position under non-buoyant conditions and to port closing position under buoyant flow conditions, said control members including a hollow cylindrical float and a disc disposed entirely below said float and on the annular marginal portion of the upper surface of which said float is adapted to rest, said float being provided with port sealing means including a seat washer and guide means for ensuring movement of the seat washer to its port closing position.

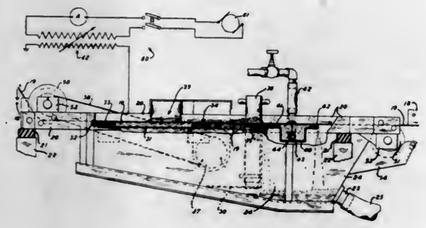
2,325,957

METHOD OF CLEANING METAL

Christopher J. Krogel, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application March 5, 1938, Serial No. 194,037

11 Claims. (Cl. 204—141)



1. A method of cleaning the surface of a metallic article which comprises steps of immersing the surface to be cleaned in a bath comprising a water solution of an alkaline electrolyte and a foaming agent, and passing an alternating electric current through the bath between the article as one electrode and another electrode, the detonating gas liberated at the electrodes coacting with the foaming agent in the bath to form a foam on the bath in which both the gas and foreign matter released from the surface by the electrolytic action are entrapped to be harmlessly carried away.

2,325,958

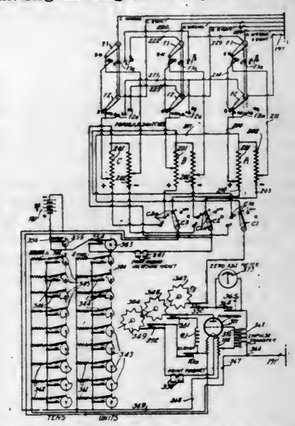
PRINTING MECHANISM

Reynold B. Johnson, Binghamton, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application December 27, 1940, Serial No. 371,867

8 Claims. (Cl. 235—61.9)

1. In a printing machine, means for sensing a record sheet for marks thereon, a Wheatstone bridge having two arms of predetermined ohmic value, means controlled by said sensing means for adjusting the resistance of a third arm of the bridge in accordance with the number of marks sensed, a printing wheel, means for rotating said wheel to present a succession of type elements to a printing position, a hammer for the printing wheel, actuating means for said hammer means synchronized with said wheel for increasing the resistance of a fourth arm of the bridge as the type elements are presented, and means included in the diagonal of the bridge, operative when the bridge is in equilibrium for rendering said hammer actuating means effective to cause the hammer to print from the element that is in position when equilibrium is attained.



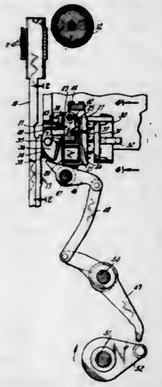
2,325,959

PRINTING CONTROL DEVICE

Clair D. Lake, Binghamton, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application May 10, 1941, Serial No. 392,931

2 Claims. (Cl. 101—93)



1. In a printing machine, a plurality of spaced type bars arranged side by side to slidably touch one another, a stopping pawl for each bar, said pawls being arranged in a single row, two rows of magnets, an armature for each magnet having a latching edge directly engaging a related one of the pawls, said latching edges lying along a single line and said magnets being spaced a distance equal to twice the spacing of the pawls and related type bars.

2,325,960

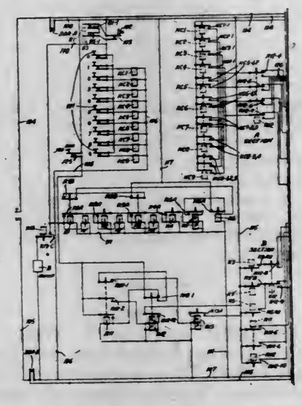
DIGIT TRANSMITTING SYSTEM

Clair D. Lake, Binghamton, and Francis E. Hamilton, Endicott, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application April 1, 1942, Serial No. 437,116

19 Claims. (Cl. 164—113)

1. In a digit set up system, the combination of a ten key keyboard, a set of storage devices, means controlled by said keyboard to invariably set up the first digit in an initial order of the storage devices, and means effective upon set up of the next digit in the initial order of the storage devices to transfer the set up of the first digit



on the initial order of the storage devices to a successive higher order of the storage devices, whereby the digits set up in the initial order and successive order of the storage devices are represented in correct denominational order upon the second digit entry.

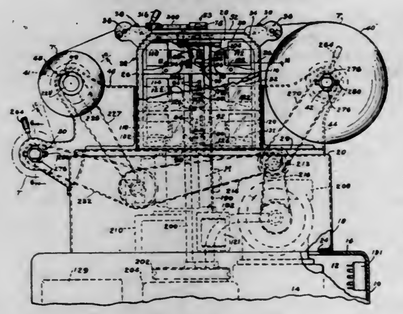
2,325,961

TAPE PERFORATING APPARATUS

Ward Leathers, Brooklyn, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York

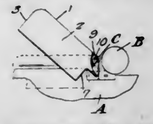
Application July 23, 1942, Serial No. 452,049

9 Claims. (Cl. 164—112)



1. In a tape perforating mechanism, a perforating station, a punching die and a plurality of cooperating tape perforating punches at said perforating station, one of said punches being adapted to perforate driving holes in the tape, a tape driving mechanism designed for cooperation with the driving holes produced in the tape by said punch, a control magnet having an armature for operating said drive hole perforating punch, a control magnet having an armature for operating said tape driving mechanism, means electrically connecting said magnets for simultaneous energization thereof, and means mechanically interengaging said magnet-armatures for substantially simultaneous operation thereof.

2,325,962
TYPEWRITER HOOD
Milon G. Logan, Albrook Field, C. Z.
Application December 4, 1941, Serial No. 421,662
4 Claims. (Cl. 197—186)

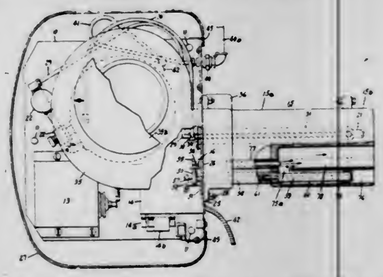


1. A hood for covering the upper portion of a typewriter in advance of the platen thereof, comprising a top wall and front and side walls, rearwardly extending flanges formed on the top and side walls and being curved downwardly from the top wall to underlie the forward portion of the platen to provide troughs for receiving eraser droppings, and means hingedly securing the hood to the typewriter.

2,325,963
THERMOPLASTIC ADHESIVE COMPOSITION
de Forest Lott, Henry Grinsfelder, and Edward G. Hamway, Toledo, Ohio, assignors to Textileather Corporation, Toledo, Ohio, a corporation of Delaware
No Drawing. Application July 5, 1940, Serial No. 344,074
7 Claims. (Cl. 260—23)

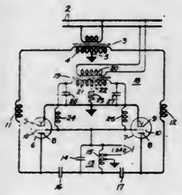
3. An article of manufacture for union with textile material and the like comprising a fibrous base having thereon a film of thermo-fusible material composed of a conjoint polymer including substantially 87% of vinyl chloride with substantially 13% of vinyl acetate; a stabilizer of calcium stearate; and a substantial amount of plasticizing agent composed of a mixture of dibutoxy ethyl phthalate and butoxy ethyl stearate.

2,325,964
OIL BURNER CONTROL
Aldo Macchi, Belleville, N. J., assignor to General Electric Company, a corporation of New York
Original application February 24, 1940, Serial No. 320,557. Divided and this application April 24, 1942, Serial No. 440,378
4 Claims. (Cl. 158—28)



1. An oil burner having, in combination, a combustion air discharge nozzle having air pressure supply means and jointly operable means including an oil atomizing nozzle and an ignition means for producing combustion adjacent the discharge end of said nozzle, an injector housing disposed adjacent the discharge end of said nozzle and having an injector air jet means connected with said air pressure supply means for inducing a flow of the products of combustion through said injector housing, and control means including a temperature responsive element mounted in said injector housing in the path of the induced flow of said products of combustion for controlling the operation of both of said jointly operable means.

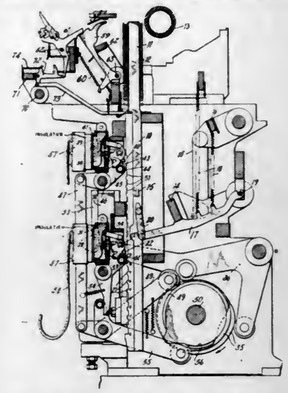
2,325,965
ELECTRIC VALVE FREQUENCY CHANGER
Elmer D. McArthur, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application April 15, 1941, Serial No. 388,702, now Patent No. 2,319,072, dated May 11, 1943, which is a division of application Serial No. 353,133, August 17, 1940, now Patent No. 2,288,362, dated June 30, 1942. Divided and this application April 25, 1942, Serial No. 440,429
3 Claims. (Cl. 250—36)



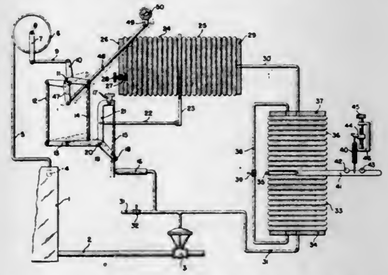
1. In combination, a single phase alternating current supply circuit, a high frequency alternating current load circuit, electric translating apparatus connected between said circuits and comprising an electric oscillator including a pair of electrically displaced windings having a point of reference potential, a pair of electronic discharge devices each connected to a different one of said windings and each including a plurality of principal electrodes comprising an anode and a cathode and a control grid and an oscillatory circuit energized by said windings and said electronic discharge devices, corresponding principal electrodes of said discharge devices being connected to said windings and different corresponding principal electrodes being connected directly to said point of reference potential, a control circuit connected to the grids of the electronic discharge devices and exclusive of the anode-cathode circuits of said electronic discharge devices for impressing on each of said grids a biasing potential having a greater value during the negative half cycles of voltage of said supply circuit applied across the associated principal electrodes than that applied during the positive half cycles and comprising a winding energized from said supply circuit and having an intermediate connection and a resistance connected between said intermediate connection and said point of reference potential, and means for coupling said control circuit to said oscillatory circuit.

2,325,966
PRINTING MECHANISM
Albert W. Mills, Endicott, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application October 21, 1941, Serial No. 415,860
4 Claims. (Cl. 101—93)

1. In a printing machine, a type carrier having a plurality of type elements thereon, means for moving said carrier to advance the type elements past a printing position in succession, a normally stationary carriage, a magnet and stopping member mounted on the carriage, means for energizing said magnet during the advance of the type carrier to cause the stopping member to interrupt the movement of the carrier, means effective after said carrier is stopped, for advancing the carriage and carrier together, a second magnet and stopping member and means for energizing said second magnet while the carrier is moving with the carriage to cause the related stopping member to engage and interrupt the movement of the carrier.



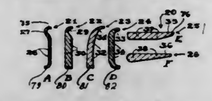
2,325,967
AIR CONTROL INSTRUMENT
Coleman B. Moore, Carroll Park, Pa., assignor to The Brown Instrument Company, Philadelphia, Pa., a corporation of Pennsylvania
Application October 24, 1939, Serial No. 300,961
5 Claims. (Cl. 236—86)



1. An air control instrument having a bleed nozzle, a flapper valve therefor, means responsive to the value of a variable condition to relatively move said flapper and nozzle in either of two directions, fluid operated follow-up provisions in said air controller to relatively move said nozzle and flapper in the opposite direction to its original movement, a supply of fluid under pressure regulated by said movement, a control valve operated by the regulated pressure supply, a pair of opposed bellows mounted so that expansion of one will produce contraction of the other, spring means to oppose a change in length of said bellows, a fluid connection between said regulated supply of fluid and one of said opposed bellows, a fluid connection between the other of said opposed bellows and said fluid operated follow-up provisions, and a restricted fluid connection between said bellows.

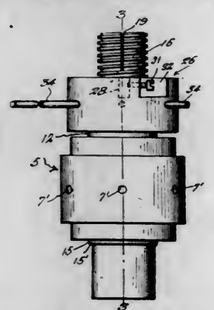
5. In an air control instrument, an impulse unit comprising a first and a second bellows each fixedly mounted on one end and attached for opposing movement at their opposite ends, a third bellows mounted between the first two bellows, means attached to each of said first bellows to compress said third bellows upon expansion of either of the first two, means to supply a pressure to said third bellows to thereby oppose expansion of either of said first two bellows, means to apply pressure to one of said first or second bellows to overcome the force of the third bellows, means operated by the other of said first or second bellows to prevent an increase of the pressure beyond a predetermined point, and means to gradually reduce said pressure.

2,325,968
COSMETIC-APPLICATING AID
Edwin Moore and James Katsaros, Los Angeles, Calif.
Application July 5, 1941, Serial No. 401,230
6 Claims. (Cl. 132—88.7)



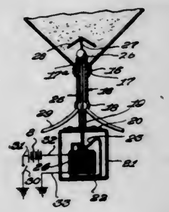
1. For depositing, on the face of a person, an attenuated, minor mass of colored matter defining, at least in part, the deposit-area of a thereat subsequently applied, relatively larger mass of cosmetic substance, a cosmetic-applicating aid or device comprising a supporting part and, attached thereto, a platelike, primary section adapted to contact the face by the edge of an ultimo-marginal part thereof, the thereto adjacent, penultimo-marginal part of said primary section being spaced from the face.

2,325,969
ROD JOINT CUTTING TOOL
Chester Lynn Morris, Falls City, Nebr.
Application April 13, 1942, Serial No. 438,850
2 Claims. (Cl. 82—4)



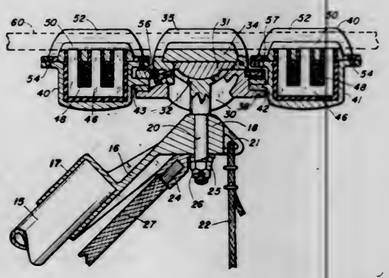
1. A cutting tool of the character described comprising a pilot consisting of a substantially cylindrical elongated body provided intermediate its ends with a feed thread, a feeding nut threaded on said feed thread, opposite ends of said pilot beyond said feed thread being formed as tool carrier journals, an annular tool carrier adapted for operative mounting on either journal, a cutter mounted on the carrier and having a radially inwardly projecting cutting edge for engagement with the work, and means for turning the carrier relative to the pilot, one of said journal portions having an axial extension externally threaded to thread into the box end of a rod joint, said extension being longitudinally split and axially aligned with a bore formed in said pilot, and a tapered expanding head for expanding the split portion.

2,325,970
SANDER
Walter R. Myers, Altoona, Pa.
Application February 26, 1942, Serial No. 432,493
1 Claim. (Cl. 291—36)



A sander including a body having a discharge spout, a discharge pipe having its upper end provided with a valve seat and its intermediate portion enlarged laterally to form a circumferential chamber, means securing the upper end of the discharge pipe in the spout, said pipe having its lower end reduced in diameter to form a guide having a lateral attaching flange at its lower end, a casing secured to the flange, a valve stem shiftable in the discharge pipe, a valve on the valve stem and engageable with said seat, a vibrator in the casing and connected with the valve stem, said vibrator being energizable for shifting the stem and valve for allowing sand flow from the body, and pipes communicating with said chamber for leading sand to surfaces in advance of vehicle wheels for aiding traction thereof.

2,325,971
CURRENT COLLECTOR
Bessie M. Newbrough, Seattle, Wash.
Application July 28, 1941, Serial No. 404,344
3 Claims. (Cl. 191—59.1)

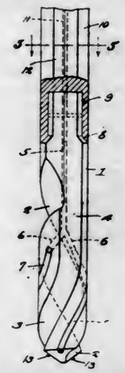


1. The combination with a current collector for an electric trolley vehicle and including a collector head having an encircling channel, of front retainer means and rear retainer means positioned in tandem relation with said collector head, each said retainer means having a bearing ring swiveled in the encircling channel on the circular collector-head whereby said retainer means may swivel axially of said head but only in a plane at right angles to the axis of said collector head, each said retainer means including electro-magnetic means mounted to travel in contact with a conductor wire, and an electrical connection from said electro magnetic means to a source of electrical supply.

2,325,972
PROCESS OF DYEING MIXED FIBROUS MATERIAL
Josef Nusslein and Carl Erich Muller, Frankfort-on-the-Main, Germany, assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application January 17, 1940, Serial No. 314,278. In Germany February 10, 1939
4 Claims. (Cl. 8—21)

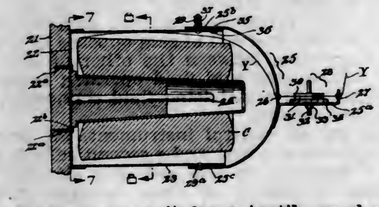
1. In the process of dyeing mixtures of fibrous materials prepared from synthetic polyamides of the linear type and of high-molecular weight and of amino group-containing fibrous materials with acid wool dyestuffs, the step which comprises applying the dyestuff to the said mixture in the presence of water-soluble organic acids having affinity for the fibrous materials and being selected from the class consisting of aromatic sulfonic acids, aromatic carboxylic acids and aromatic sulphocarboxylic acids.

2,325,973
DRILL
Joseph Samuel Nurnberger and Lyle Gentry Lankford, St. Albans, W. Va.
Application April 20, 1942, Serial No. 439,770
5 Claims. (Cl. 77—68)



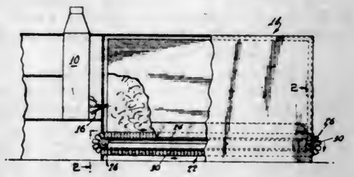
1. A tool of the class described including a body having a cutting end and a butt end, separate spiral flutes extending different distances respectively about the body from the cutting end thereof toward the butt end, there being a deep longitudinal channel in the body extending from the butt end to the end of one of the flutes and communicating with the end of the other flute.

2,325,974
CREEL APPARATUS
Peter C. Pasquerello, Lanark, Pa.
Application May 10, 1943, Serial No. 486,448
10 Claims. (Cl. 242—131)



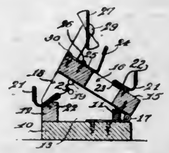
1. A yarn cone unit for a textile creel or the like, comprising a support, a yarn cone mounting on said support, a cylindrical casing mounted on said support and arranged to spacedly surround a yarn cone when seated on said mounting, a bracket on said casing arranged to be selectively moveable to a plurality of positions adjacent the front of the latter, and yarn guide means on said bracket positioned so as to be in substantial alignment with the longitudinal axis of said cone mounting when the bracket is in one of its selected positions.

2,325,975
MINERAL WOOL FELTING APPARATUS
Gale T. Pearce, Somerville, N. J., assignor to Johns-Manville Corporation, New York, N. Y., a corporation of New York
Application November 16, 1940, Serial No. 365,937
5 Claims. (Cl. 154—27)



1. In an apparatus for the manufacture of mineral wool felts including means for forming a gaseous suspension of mineral wool fibres, a settling chamber for receiving said suspension, and a conveyor constituting the bottom of said settling chamber and on which the fibres settle in interfelted relationship, the improvement comprising means carried by said conveyor for maintaining the edges of said felt out of contact with stationary elements of said settling chamber.

2,325,976
POULTRY FEEDER
Clifford T. Phillips, Red Hook, N. Y.
Application December 8, 1941, Serial No. 422,164
5 Claims. (Cl. 119—61)



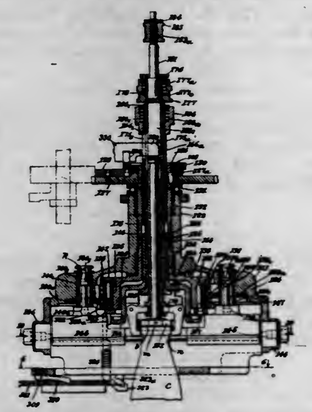
1. A poultry feeder comprising a trough like container, an inclined lid provided with a feed opening hinged at the lower edge to the container, end walls for the container, means carried by the end walls supporting the upper free end of the lid at various desired spaced distances above the container to provide an adjustable feed opening between the lid and the container, both of said feed openings extending longitudinally of the lid and the container, means provided at the lower edges of both feed openings preventing the wasting of food dropped by poultry while feeding and collecting the dropped food for subsequent eating by the poultry, a guard above the feed opening in the lid preventing debris from the feet of the poultry from dropping into the lid feed opening, and means carried by the lid preventing roosting of the poultry on the lid.

2,325,977
MANUFACTURE OF ELASTIC TUBULAR GARMENTS
Robert Pickles and John Pickles, Burnley, England
Application April 10, 1943, Serial No. 482,598
In Great Britain February 24, 1941
4 Claims. (Cl. 2—239)



1. A tubular woven elastic garment comprising warp and elastic weft threads, and having a top portion of uniform diameter and a lower adjacent portion, wherein the number of the warp threads interwoven with the weft threads is progressively decreased throughout a portion of the length of the garment, the unwoven portions of the warp threads being severed and detached.

2,325,978
CONTAINER COVER APPLYING MACHINE
Albert F. Pityo, Clifton, N. J., assignor to Tri State Cap & Cap Machinery Co., Inc., Newark, N. J., a corporation of New Jersey
Application October 25, 1938, Serial No. 236,846
15 Claims. (Cl. 226—81)

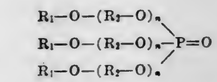


6. In a machine of the class described, means for feeding a strip of blanks of pliant material provided with pre-attached fasteners, and means cooperative therewith for pre-bending said fasteners.

2,325,979
SOFTENING SYNTHETIC RUBBER
Donald V. Sarbach, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application March 25, 1941, Serial No. 385,142
10 Claims. (Cl. 260—36)

1. A composition of matter comprising a rub-

bery polymer of a conjugated butadiene and, as a softener therefor, a compound of the formula



wherein R_1 is a monovalent hydrocarbon group, R_2 is a bivalent hydrocarbon group and n is an integer.

2,325,980

SOFTENER FOR COPOLYMERS OF BUTADIENE AND ACRYLONITRILE

Donald V. Sarbach, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application August 26, 1941, Serial No. 408,348

5 Claims. (Cl. 260—36)

1. A composition of matter comprising a synthetic rubber prepared by copolymerizing a butadiene-1,3 hydrocarbon and an alpha methylene nitrile of the formula



wherein R is a member of the class consisting of hydrogen and alkyl and, as a softener therefor, di-1-methylheptyl phthalate.

2,325,981

SYNTHETIC RUBBER COMPOSITION

Donald V. Sarbach, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application August 26, 1941, Serial No. 408,349

5 Claims. (Cl. 260—42)

1. A composition of matter comprising a resin prepared from cashew nut shell oil and a copolymer prepared by copolymerizing in aqueous emulsion about 55 parts of butadiene-1,3 and about 45 parts of acrylonitrile.

2,325,982

SOFTENER FOR SYNTHETIC RUBBER

Donald V. Sarbach, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application September 12, 1941, Serial No. 410,594

10 Claims. (Cl. 260—36)

1. A composition of matter comprising a synthetic rubber prepared by the polymerization of a butadiene-1,3 hydrocarbon and, as a softener therefor, a chlorinated triaryl phosphate having a chlorine content of 5 to 50%.

2,325,983

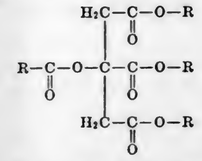
SOFTENER FOR SYNTHETIC RUBBER

Donald V. Sarbach, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application September 12, 1941, Serial No. 410,595

7 Claims. (Cl. 260—36)

1. A composition of matter comprising a synthetic rubber prepared by the polymerization of a butadiene-1,3 hydrocarbon and, as a softener therefor, a compound of the formula



wherein each R is an alkyl radical containing from 1 to 8 carbon atoms, inclusive.

2,325,984

OIL-RESISTANT SYNTHETIC RUBBER CEMENT AND METHOD OF PREPARING SAME

Donald V. Sarbach, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application December 30, 1941, Serial No. 424,962

8 Claims. (Cl. 260—84.5)

1. The method of preparing a synthetic rubber cement from an oil-resisting synthetic rubber selected from the class consisting of polymers of chloroprene and copolymers of butadiene-1,3 and acrylonitrile prepared by polymerizing mixtures of butadiene-1,3 and acrylonitrile containing from 25 to 100% as much acrylonitrile as butadiene-1,3 which comprises incorporating with said synthetic rubber in a solid form a sufficient amount of an acid to impart to an aqueous extract of a solution of said synthetic rubber a pH lower than 7, and then dissolving said synthetic rubber containing the inporporated acid in a solvent.

2,325,985

SOFTENER FOR SYNTHETIC RUBBER

Waldo L. Semon, Silver Lake, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application September 23, 1941, Serial No. 411,973

8 Claims. (Cl. 260—36)

1. A composition of matter comprising a synthetic rubber prepared by the polymerization of a butadiene-1,3 hydrocarbon and, as a softener therefor, an ester of boric acid with an alcohol containing from 4 to 8 carbon atoms.

2,325,986

POLYMERIC RUBBER COATING COMPOSITION

Robert C. Swain, Riverside, and Pierrepont Adams, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application October 26, 1940, Serial No. 363,004

4 Claims. (Cl. 260—3)

1. A coating composition containing substantial amounts of cyclized rubber obtained by reacting the rubber with amphoteric metal halides and a melamine-formaldehyde resin which has been alkylated with an acyclic alcohol containing 3 to 8 carbon atoms, wherein the molal ratio of formaldehyde to melamine is between about 4:1 and about 6:1 and wherein the weight ratio of the cyclized rubber obtained by reacting the rubber with amphoteric metal halides to melamine resin is at least about 3:2.

2,325,987

POLYSTYRENE COATING COMPOSITION

Robert C. Swain, Riverside, and Pierrepont Adams, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application December 26, 1940, Serial No. 371,781

4 Claims. (Cl. 260—42)

1. A coating composition containing substantial amounts of polystyrene and a melamine-formaldehyde resin which has been reacted with a monohydric alcohol containing between 6 and 8 carbon atoms, wherein the molal ratio of formaldehyde to melamine is at least about 4:1 and wherein the weight ratio of polystyrene to melamine resin is at least about 3:2.

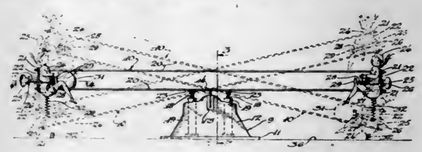
2,325,988

TOY SEESAW

Frank E. Thomas, Chicago, Ill.

Application February 9, 1942, Serial No. 429,993

5 Claims. (Cl. 46—147)



5. In a device of the character described, having seesaw means provided with resilient impeller means, knob means secured to the said impeller means adapted to permit initial impelling movement to a rollable member supported on the said seesaw means.

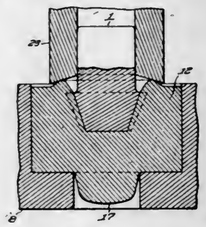
2,325,989

PRODUCTION OF GEARS OR THE LIKE

William A. Tryon, Geneva, N. Y., assignor to Trayer Products, Incorporated, Elmira, N. Y., a corporation of New York

Application July 22, 1940, Serial No. 346,796

10 Claims. (Cl. 76—107)



1. A method of making a female forming die having a plurality of projections in its cavity of larger sectional area adjacent their outer than adjacent their inner ends, which comprises the steps of forming a male punch having in its surface indented spaces substantially corresponding to the complement of the projections to be formed in the die and having their side walls converging angularly toward the end of the punch, forcing the punch into a heated die blank to thereby partially fill said spaces with the metal of the blank and then positioning a collar about the punch and applying pressure therethrough to the adjacent surface of the blank in a direction parallel to the axis of the punch to thereby substantially fill said spaces with said metal.

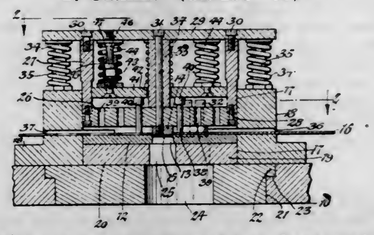
2,325,990

SHEET MATERIAL PUNCHING APPARATUS

George F. Wales, Kenmore, N. Y.

Application November 7, 1941, Serial No. 418,159

17 Claims. (Cl. 164—94)



1. An apparatus for punching sheet material, comprising a lower shoe provided with a vertical guide opening, a die mounted in the lower part of said guide opening, a vertically movable punch holder having a lower punch plate arranged in the upper part of said guide opening, a bracket connected at its lower end with the punch plate, a head plate connected with the upper end of said bracket, and a punch mounted on the punch plate and adapted to cooperate with said die.

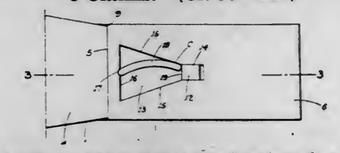
2,325,991

BUCKET TOOTH UNIT

Marshall J. White, Marysville, Calif.

Application April 7, 1943, Serial No. 482,112

8 Claims. (Cl. 37—142)



1. A releasable locking mechanism for a bucket tooth unit which includes a rearwardly opening socketed tooth engaged on a supporting tang, said mechanism comprising a boss on and projecting outwardly from one face of the tang, the tooth having a slot therein, the slot opening into the socket and the boss projecting into the slot, and a loaded compression spring normally engaged between the rear end of the slot and the adjacent side of the boss.

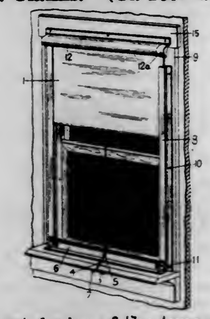
2,325,992

BLACK-OUT DEVICE

John C. Wirthman, Delaware, Ohio

Application January 7, 1942, Serial No. 425,912

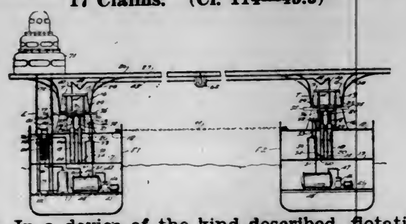
7 Claims. (Cl. 160—29)



1. A blockout device of the type described comprising a blind member mounted on a blind roll

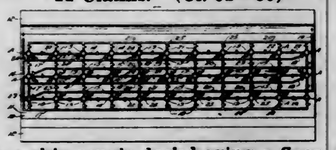
at the top of a window frame, channel members disposed on said frame along the sides and at the bottom thereof, said channel members extending a substantial distance inwardly around the edges of the blind and adapted to hold the blind therebeneath, and an arcuate shape covering member disposed about the blind roll at the top of the window frame, said covering member adapted to bear against said blind roll, said side channel members extending into said covering means forming a seal through which no light can escape.

2,325,993
AIRPLANE CARRIER AND SEADROME
Carl M. Zoll, Dundalk, Md., assignor to Universal Hydraulic Stress Equalizer, Inc., Dundalk, Md.
Application July 2, 1941, Serial No. 400,833
17 Claims. (Cl. 114—43.5)



1. In a device of the kind described, flotation means having a pair of series of spaced towers, one series being substantially parallel with the other, a platform spanning the space between the series of towers and having series of pedestals each associated with a respective tower and slidable transverse the tower, means limiting and yieldably resisting transverse movement of the pedestals relative to the towers, a set of hydraulic compensating devices each associated with a respective tower and supporting the respective pedestal, and piping interconnecting said compensating devices.

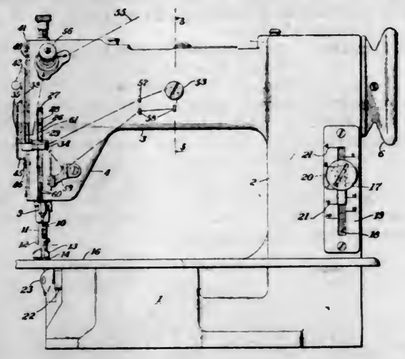
2,325,994
LIFT EQUALIZING REPAIR DOCK
Carl M. Zoll, Dundalk, Md., assignor to Universal Hydraulic Stress Equalizer, Inc., Dundalk, Md.
Application July 23, 1941, Serial No. 403,770
11 Claims. (Cl. 61—66)



1. In a ship repair dock having a floor, a series of rows of spaced hydraulic jacks mounted on said floor, pressure equalizing pipes connecting each jack of a row with the adjacent jacks of the row and each jack of a row with the corresponding jacks of the next adjacent rows, and a control valve interposed in each equalizing pipe.

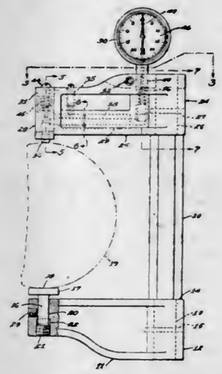
2,325,995
THREAD-CONTROLLING MECHANISM FOR SEWING MACHINES
Rudolph Becker, North Plainfield, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application December 22, 1941, Serial No. 423,914
11 Claims. (Cl. 112—245)

1. In a sewing machine, a needle-bar, a thread pull-off member, a thread take-up member, said thread pull-off and said take-up members being actuated by said needle-bar, and a thread-nipper



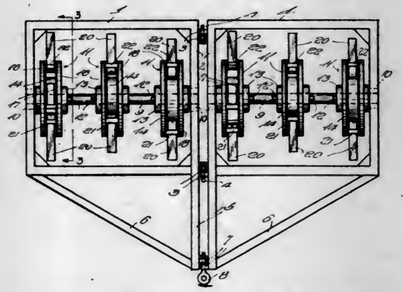
for engaging the needle-thread between said pull-off and said take-up members.

2,325,996
GAUGE
Andrew Eisele, Detroit, Mich.
Application January 15, 1941, Serial No. 374,535
5 Claims. (Cl. 33—178)



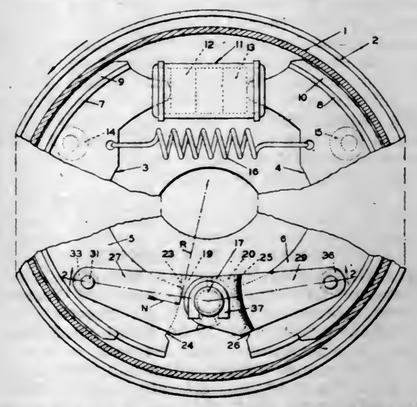
1. In a snap acting gauge employing a fixed contact member and a coaligned movable contact member operable for contacting the opposite external surface portions of a body the dimension of which is to be checked by an indicator operatively connected to the movable contact member and responsive to movement thereof, a centering device comprising, a supporting member, a pair of centering pins carried by said supporting member on opposite sides of the movable contact member for movement in parallelism with the movement of the latter and operable when simultaneously contacting the surface cooperating with the fixed contact member to locate the movable contact member at the point of maximum dimension of the body, bridge means interconnecting said pins, and minutely movable adjustment means operatively interconnecting said supporting member and said bridge means for selectively moving said pins relatively to the movable contact member to adjust the relative positioning of the surface contacting portions of said pins and the movable contact member.

2,325,997
SUBSOIL BREAKER
Ernest Kelly and Harry J. Shepherd, Spokane, Wash.; said Shepherd assignor to said Kelly
Application September 17, 1941, Serial No. 411,234
2 Claims. (Cl. 97—52)



1. A subsoil breaker comprising a frame, an axle rotatably mounted in said frame transversely thereof, a supporting wheel carried by said axle and having a long thick hub constituting a weight for the wheel, an annular flange carried by said hub midway its length and extending radially therefrom, spokes secured against opposite side faces of said flange in opposed relation to each other and extending radially therefrom, said spokes having flat inner and outer side faces, rings fixed to outer side faces of outer ends of said spokes and constituting an open rim for the wheel, penetrating members pivotally mounted between pairs of spokes and extending outwardly through the open rim and being of a length adapting them to enter the ground and penetrate top soil and a hard-pan during turning of the wheel, and abutment members mounted between said rings with the spokes and the penetrating members located between them and constituting means for bracing the rings and limiting tilting movement of the penetrating members.

2,325,998
SINGLE ANCHOR MOUNTING CONSTRUCTION FOR BRAKE SHOES
Steve Schnell, Kirkwood, Mo., assignor to Wagner Electric Corporation, St. Louis, Mo., a corporation of Delaware
Application December 22, 1941, Serial No. 423,897
11 Claims. (Cl. 188—79.5)



1. In braking mechanism, a support, a brake drum, two brake shoes positioned in the drum and provided with curved abutment surfaces on adjacent heel ends, means for mounting said adjacent heel ends on the support, said mounting means comprising a single anchor pin, abutment members positioned for pivotal movement about the pin and lying in the same plane, said abutment members having curved surfaces for engagement by the curved surfaces on the heel ends of the shoes, a link non-rotatably connected to one abutment member and pivotally connected to the shoe engaged therewith, and a second link non-rotatably connected to the other abutment member and pivotally connected to the shoe engaged therewith.

2,325,999
SPECTACLE CLEANING TISSUE BOOKLET
Herald T. Snyder, Seattle, Wash., assignor to Tom W. Holman, as trustee
Application May 29, 1941, Serial No. 395,816
1 Claim. (Cl. 206—57)



A spectacle cleaning tissue booklet comprising a bottom cover member; a plurality of cleaning tissues in superposed relation and of a length less than said cover member; a top cover member matching said bottom cover member; staple devices extending through said bottom cover member, the said tissues, and said top cover member; and a locking means in the free ends of said top and bottom cover members comprising a notch member in said top member and a parallel closely adjacent and off-set notch in said bottom member, said off-set notches movable into and out of interlocking relation and when in interlocked relation held there by the resistance to lateral displacement of said cover members.

2,326,000
BEARING MATERIAL
Charles P. Teeple, Wilmette, Ill., assignor to Crane Packing Company, Chicago, Ill., a corporation of Illinois
No Drawing. Application April 27, 1942, Serial No. 440,661
5 Claims. (Cl. 260—38)

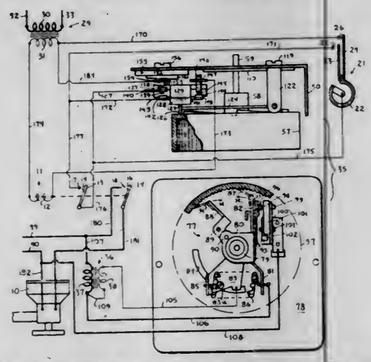
1. An intimate mixture of powdered ingredients in substantially the following proportions; a thermosetting, potentially reactive synthetic resin moulding powder of phenol-formaldehyde and fibrous asbestos together in equal amounts by weight 45.4%, lead 27.3%, antimony 9.1%, and flake graphite 18.2%.

2,326,001
SIMULATED HAMMERED METAL FINISH
Guido Ariotti and Edmond H. Bucy, Stamford, Conn., assignors to Atlas Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 13, 1939, Serial No. 299,272
4 Claims. (Cl. 117—41)

1. The process for producing a simulated hammered metal finish upon a surface, which comprises applying to the surface a uniform unspattered coating of a composition containing a finely divided metal powder and a soluble base selected from the group consisting of varnish bases and lacquer bases, said composition having a normal solids content for a coating composi-

tion and being capable of drying to form a protective and ornamental coating, allowing said coating to dry only partially, and then spattering the partially dried coating with a liquid of not over 40 centipoises viscosity consisting essentially of volatile solvent for the said soluble base to cause drops of said liquid to impinge upon the partially dried coating at separated points to redissolve the said soluble base only at such points and permit the metal powder at the point of impingement to flow and assume the crater-like appearance of hammered metal, and thereafter drying the coating completely.

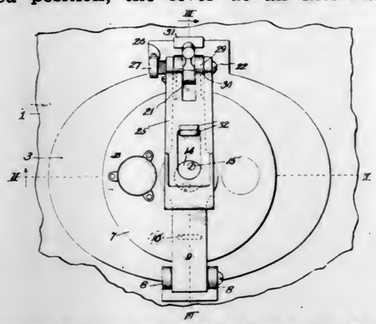
2,326,002
CONTROL OF FUEL FEEDING DEVICES
Albert E. Baak, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application January 2, 1941, Serial No. 372,783
9 Claims. (Cl. 236—46)



3. In apparatus of the character described, in combination, means forming a circular cam having gradually rising dwells which rise from the normal surface of the cam, said dwells having abrupt drop-offs, and said cam having depressions in its normal surface of relatively small circumferential extent at the drop-offs, cam follower means associated with the cam, means forming electrical contacts operated by said cam follower means, a relay and circuit means whereby the relay may be energized by said contacts, the arrangement being such that the contacts close when the cam follower means are on a dwell and open when the cam follower means drop off a dwell, and additional normally closed contact means operated by said cam follower means for interrupting the relay circuit when the cam follower means drops into one of said depressions.

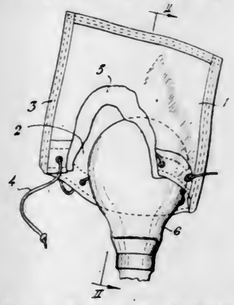
2,326,003
TANK CLOSURE
Harry W. Bailey and George A. Clay, Kansas City, Mo.
Application December 5, 1941, Serial No. 421,831
3 Claims. (Cl. 220—57)

1. A tank cover having a filling opening, a closure therefor, a strong-back overlying and cooperable with the closure and pivoted at one end to the tank cover, a yieldingly-advanced latch mounted at a fixed point relative to the cover, for securing the other end of the strong-back to the tank cover, the strong-back terminating at its free end in a cam laterally-offset relative to the latch, and in a keeper in radial alinement with and for engagement by the latch, and also having a transverse notch, a forked lever mounted axially in fixed relation to the cover, with its fork arms straddling the latch and the free end of the strong-back when the same is in closed position, the lever at an intermediate



point and within the fork, having a cam for successive engagement with the strong-back cam to depress the same and with said notch to retain the strong-back in depressed position.

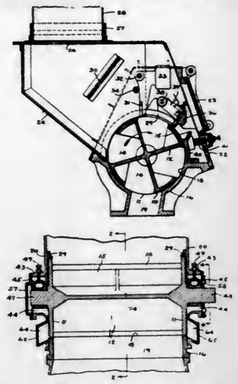
2,326,004
LAMP FITTING FOR USE IN FLASHLIGHT PHOTOGRAPHY
Arthur Barrett, London, England
Application April 28, 1942, Serial No. 440,794
In Great Britain November 18, 1940
1 Claim. (Cl. 240—1.3)



A casing for a flash-bulb adapted to fit over said flash bulb to limit radiation thereof and comprising a pouch for receiving the flash-bulb and having two panels, one dyed to a dark red for use with infra-red plates and the other dyed a deep violet for use with panchromatic plates, said panels having leather binding round three of their edges binding said panels together thereat and said panels having means provided along their fourth edges for fitting tightly around the neck of the flash-bulb, and a central flexible partition made of opaque material located between the two panels.

2,326,005
FEEDING MECHANISM
Anson K. Bradley, Worcester, Mass., assignor to Morgan Construction Company, Worcester, Mass., a corporation of Massachusetts
Application June 17, 1941, Serial No. 398,369
3 Claims. (Cl. 214—35)

1. Feeding mechanism comprising a horizontal rotatable drum having pockets in its periphery, a supporting member beneath the drum having a passage therein for the downward flow of material discharged from the pockets, means to supply material by gravity to the pockets, upright plates located adjacent the ends of the drum and formed with recesses, bearings mounted for vertical movement within the recesses, ad-

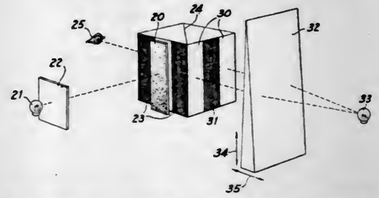


justable means limiting upward movement of the bearings, shafts extending outwardly from the drum and rotatably supported in the bearings, and means closing the outer ends of the recesses to prevent the escape of gas therefrom.

2,326,006
SYNTHETIC RESIN FROM POLYACETOACETATES OF POLYHYDRIC ALCOHOLS AND FORMALDEHYDE
Herman A. Bruson, Philadelphia, Pa., assignor to The Resinous Products & Chemical Company, Philadelphia, Pa., a corporation of Delaware
No Drawing. Application July 30, 1940, Serial No. 348,441
5 Claims. (Cl. 260—64)

4. A resinous condensation product of formaldehyde and an ester of a polyhydric alcohol and acetoacetic acid, said ester having at least two acetoacetate groups.

2,326,007
SENSITOMETRY
John G. Capstaff, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application November 6, 1941, Serial No. 418,052
22 Claims. (Cl. 88—14)



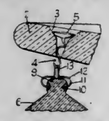
1. A gamma meter comprising means for defining a viewing field, means for illuminating at least a portion of said field by light from a sensitometric strip of graded density, means for illuminating at least a portion of said field by a standard light beam of graded intensity, the latter illuminating means including a small source of light and a density wedge in front of the source and axially adjustable to vary the rate of gradation of the intensity of said beam and scale means coupled to the wedge for indicating the gamma of the strip when said rate is adjusted to match that of the strip density.

2,326,008
USE OF LEAD SALTS OF NITROAMINO GUANIDINE AS INITIATING CHARGE IN FIRING DEVICES
Le Roy V. Clark, Latrobe, Pa., assignor to American Cyanamid & Chemical Corporation, New York, N. Y., a corporation of Delaware
Application November 1, 1940, Serial No. 363,815
12 Claims. (Cl. 52—4)



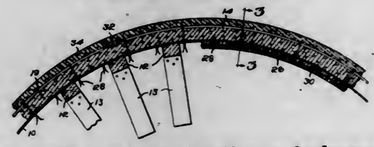
1. A firing device containing a base charge of pentaerythritol tetranitrate and an initiating charge of lead nitroaminoguanidine superimposed thereon.

2,326,009
GLASS PRISM
Ray C. Cobel, Newark, Ohio, assignor to A. H. Heisey & Company, Newark, Ohio, a corporation of Ohio
Application December 29, 1939, Serial No. 311,612
1 Claim. (Cl. 41—10)



In combination, a member having a plurality of one-piece glass prism units suspended therefrom, each of said prism units comprising a glass body portion having diametrically opposed sockets formed in the upper end thereof, means for suspending each of said prism units from said member, said means comprising a spring clip having opposed portions extending into said sockets and having an upper loop portion, said member having an opening formed therein, a hook member disposed in said opening and extending downwardly therethrough and having a hook on its lower end which engages said loop, said hook member having an enlarged portion on its upper end which prevents it from pulling downwardly through said opening.

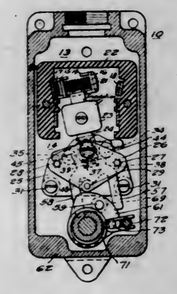
2,326,010
LEAKPROOF CONSTRUCTION OF TANKS AND THE LIKE
John M. Crom, Jackson Heights, N. Y.
Application February 18, 1941, Serial No. 379,430
3 Claims. (Cl. 25—154)



1. A method of constructing a leakproof cylindrical body of concrete combined with a cylindrical sheet metal diaphragm and held under compression, which consists in erecting an imperforate and cylindrical sheet metal diaphragm and supporting it at its inner face, supporting rod reinforcement on and extending along the diaphragm in relatively wide spaced relation from the outer face thereof and free to move

longitudinally relative thereto, pneumatically placing concrete against and in bonding engagement with the outer face of the diaphragm to a depth approximately flush covering the reinforcement, screeding the outer face portion of the concrete to the rods by forcing a screed thereover in contact with the rods, preventing permanent bonding of the concrete to substantial length portions of the rods, stressing such portions of the rods after the concrete has set whereby placing the body in uniform compression, and placing additional concrete over and bonded to the first named concrete and to and covering the stressed reinforcement.

2,326,011
SWITCH MECHANISM
Gilbert Currie, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 21, 1942, Serial No. 435,617
10 Claims. (Cl. 74—97)



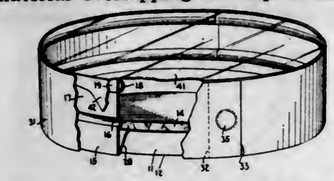
1. A switch actuating mechanism comprising a support, a frame pivotally mounted on the support and having a switch actuating arm, a plurality of operating pins mounted in the frame, a fixed pin, a floating cam member having two angularly-disposed cam surfaces for alternately engaging the fixed pin, shoulders on the cam member for engaging said operating pins, a spring for biasing the cam surfaces against the fixed pin, and means for operating the cam by overcoming the biasing action of the spring.

2,326,012
GLASS ARTICLE AND METHOD OF MAKING IT
Robert H. Dalton, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a corporation of New York
No Drawing. Application March 31, 1941, Serial No. 386,190
12 Claims. (Cl. 95—5)

1. The method of making a glass article which includes melting a glass batch containing a reducing agent and a compound of copper, forming the glass into an article and exposing at least a portion of the article to short wave radiations.

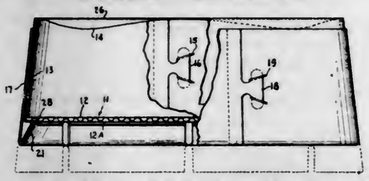
2,326,013
DISPLAY PACKAGE
George E. Damrow, Glen Ridge, N. J., assignor to Pie-Pak Company, Inc., Hoboken, N. J.
Application May 31, 1939, Serial No. 276,505
16 Claims. (Cl. 206—44)

1. A package comprising a plate, an inner circular band having an annular inwardly extending bead intermediate its top and bottom edges and inwardly extending means for holding the plate clamped beneath the bead, a sheet of transparent material overlapping the top of said inner



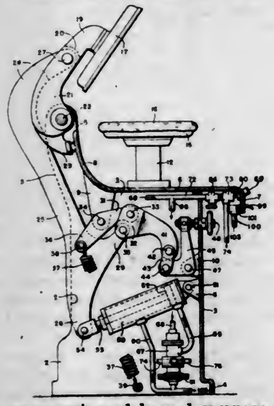
band, and a circular outer band fitting around the inner band and clamping the edges of said sheet between the inner and outer bands.

2,326,014
DISPLAY PACKAGE
George E. Damrow, Glen Ridge, N. J., assignor to Pie-Pak Company, Inc., Hoboken, N. J.
Application September 21, 1939, Serial No. 295,850
6 Claims. (Cl. 206—44)



1. A display package comprising a plate, a tapered collar extending upwardly from the plate a substantial distance, a sheet of transparent paper overlying the collar and plate and extending outside the collar, a tapered outer band fitting about the collar and perimeter of the plate with the transparent paper clamped between the tapered collar and band, said band also extending below said plate and having portions on the lower end which extend inwardly and upwardly to engage beneath the bottom of the plate adjacent its perimeter.

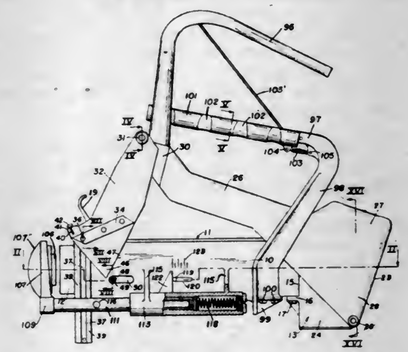
2,326,015
TEXTILE IRONING PRESS
Ernest Davis, Syracuse, N. Y., assignor to The Prosperity Company, Inc., Syracuse, N. Y., a corporation of New York
Application March 24, 1939, Serial No. 263,961
12 Claims. (Cl. 38—40)



9. In a garment and laundry press comprising

a frame, a stationary buck mounted on the frame, a press head movable toward and from the buck in a downward and forward arcuate path with the upright portion of the path extending at nearly a right angle to the pressing face of the buck, and means for carrying and guiding the head in its movement; the combination of actuating mechanism comprising an upright lever pivotally connected at its upper end to the head carrying means, a fulcrum for the lever spaced apart from the pivot arranged to permit the lever to swing fore and aft about the fulcrum, whereby the lever moves forwardly and rearwardly about its fulcrum, a prime mover connected to the lever at a point spaced from the fulcrum and the pivot of the lever and acting thereon to move the lever about its fulcrum and to swing the lever about its pivot, fulcrum guide means coacting with the fulcrum to successively cause the lever to move on its fulcrum during the closing of the press and to guide the fulcrum in a fore-and-aft and downwardly extending path, to swing the lever about the pivot at its upper end and to pull the lever downwardly so that it acts as a pull link during the final closing movement, and translate the rearward swinging movement of the lever into a downward pull link movement.

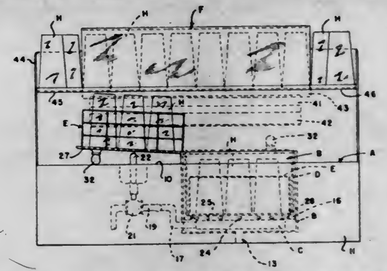
2,326,016
EDIBLE PLASTIC SUBSTANCE CUTTER
Charles Doering, Chicago, Ill.
Application August 13, 1938, Serial No. 224,833
13 Claims. (Cl. 31—20)



1. In a plastic edible substance dispenser, the combination with an elongated tubular housing for confining a preformed edible substance therein, of a hand grasping lever arm pivotally connected to and conforming substantially in shape with said housing to serve as a cover therefor, means operatively connected to said lever arm for intermittently expelling the preformed substance from said housing, means rsponsive to said lever arm for embossing the expelled end surface of said preformed substance, and means for severing said substance into uniform segments in timed relation with said expelling means.

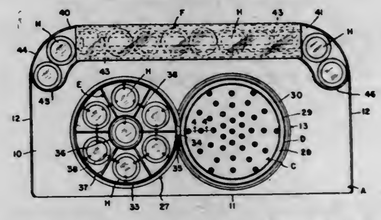
2,326,017
DEVICE FOR WASHING GLASSES AND THE LIKE
William E. Doughty, Detroit, Mich., assignor to James Vernor Company, Detroit, Mich., a corporation of Michigan
Application July 7, 1941, Serial No. 401,364
6 Claims. (Cl. 141—3)

2. In apparatus for washing various types of ware, a counter, a sink mounted in the counter, a movable carrier for ware to be washed mounted within said sink, a hinged cover for closing the carrier while the ware is being washed adapted to swing over the counter for supporting in a



drying position the ware after being washed, and a handle by which the carrier may be moved engageable with the counter for supporting the cover when over said counter.

2,326,018
DEVICE FOR STERILIZING GLASSES AND THE LIKE
William E. Doughty, Detroit, Mich., assignor to James Vernor Company, Detroit, Mich., a corporation of Michigan
Original application July 7, 1941, Serial No. 401,364. Divided and this application November 12, 1941, Serial No. 418,825
14 Claims. (Cl. 250—52)

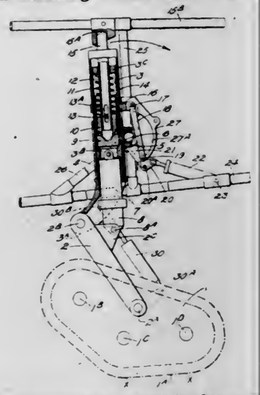


1. An apparatus of the class described having an open ended tunnel of inverted channel shape made of transparent material, an open slideway for articles to be sterilized extending through said tunnel and provided beyond opposite ends thereof with terminal portions constituting respectively loading and unloading stations for the articles aforesaid, a germicidal lamp beneath the slideway, and a support for said lamp having means for reflecting light rays from said lamp through the open slideway toward the articles within said tunnel.

2,326,019
LANDING GEAR OF AIRCRAFT
George Herbert Dowty, Cheltenham, England
Application October 12, 1939, Serial No. 299,202
In Great Britain September 17, 1938
6 Claims. (Cl. 244—102)

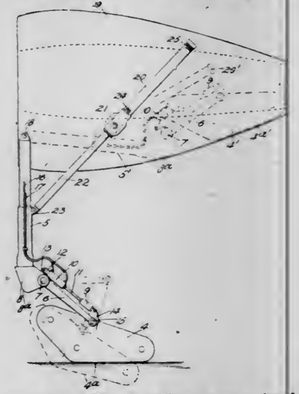
1. An aircraft landing gear comprising a bearing member adapted to be pivotally mounted upon an aircraft, a supporting column journaled in said bearing for free rotation therein, an endless track landing element carried upon said column, shock absorbing means interposed between said landing element and said column and a centering device for maintaining fore-and-aft alignment of said landing element comprising a cam member fixedly carried by said column, a second

cam member reciprocably carried within said column, spring means carried within said column for continuously urging said second mentioned cam into engagement with said first mentioned cam, locking means mounted on said column for locking said landing element in extended posi-



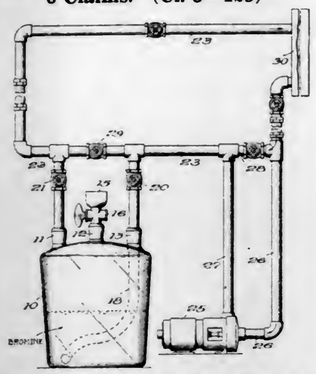
tion, means connecting said locking means and said aircraft to prevent rotation of said locking means, and means interconnecting said reciprocable cam with said locking means whereby said cam constantly urges said column to maintain a predetermined position with respect the aircraft.

2,326,020
AIRCRAFT LANDING GEAR
George Herbert Dowty, Cheltenham, England
Application November 25, 1939, Serial No. 306,206
In Great Britain December 8, 1938
13 Claims. (Cl. 244—102)



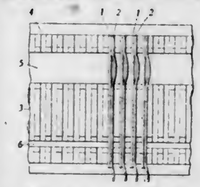
1. In an aircraft, landing gear including an endless track ground-contacting element, a supporting structure, lever means pivotally connected to said supporting structure and disposed in trail of said structure, means pivotally connecting said endless track element to the free end of said lever means, means for retracting and extending said endless track element and supporting structure whereby said element and said supporting structure are nested in a stowage space within the aircraft, and means for orienting said endless track element from its landing position during retraction to dispose the landing surface thereof in a position that at least a part of the surface forms a flush closure for said stowage space.

2,326,021
METHOD OF BROMINATING WOOL
Ralph L. Ericsson, East Orange, N. J., assignor to Westvaco Chlorine Products Corporation, New York, N. Y., a corporation of Delaware
Application February 26, 1941, Serial No. 380,749
8 Claims. (Cl. 8—128)



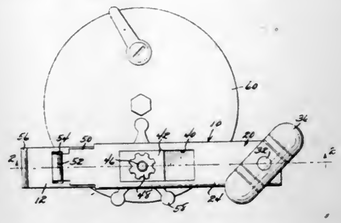
1. The process of treating wool to lessen shrinkage without forfeiture of other physical and chemical properties, which comprises effecting contact between the wool and an aqueous solution of a halogen selected from the class consisting of bromine and chlorine, said solution containing available halogen in a concentration equivalent to a bromine concentration in the range between 0.001 to 0.05 per cent and having an acidity corresponding to a pH below about 2 while maintaining the solution at a temperature below 70° F., at which halogenation occurs, and removing the solution from contact with the wool while the solution still contains available halogen in the stated range.

2,326,022
MANUFACTURE OF NEEDLES AND NEEDLE-LIKE ARTICLES
Samuel James Everett, Thornton Heath, England, assignor to Everett Developments Limited, Thornton Heath, England
Application June 27, 1939, Serial No. 281,457
In Great Britain June 28, 1938
3 Claims. (Cl. 113—112)



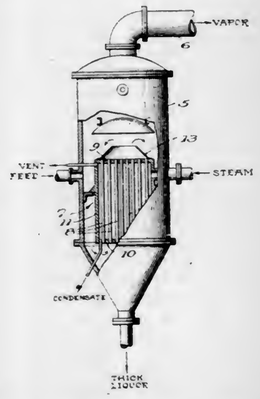
1. A process for the manufacture of needles and needle-like articles, comprising producing a plurality of small parts, one of which is composed of a work-hardened precipitation-hardening alloy which hardens below 590° C., securing said plurality of small parts in a jig in close relation to one another, with the said one part still in its cold-worked condition, hard soldering said plurality of parts by heating them, held together in the jig at a temperature below 650° C., and subjecting the article produced by the soldering to heat treatment by bringing the temperature at a rate of about 100° C. per hour to a value not exceeding 590° C. and then reducing it at about the same rate from that value substantially without maintenance at such value.

2,326,023
ADJUSTABLE HANDLE
Cheney S. Fredricksen, Jensen, Fla.
Application March 16, 1942, Serial No. 434,818
4 Claims. (Cl. 74—546)



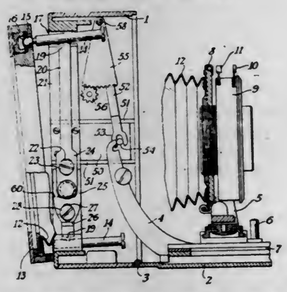
1. In a fishing reel having a rotatable shaft, a first member in the nature of a strap keyed to said shaft, a second member of flattened tubular contour slidably receiving said first member and having first and second openings, said first opening being elongated longitudinally of the second member and having a width corresponding to that of the diameter of said shaft but with a length considerably longer to provide accommodation for relative movement of the second member, and a stop plate lying on said first member and inside said second opening, said second opening being elongated longitudinally of said second member and having a width conforming to that of the stop plate but a length greater than the stop plate so that the second member may be shifted to predetermined first and second handle lengthening and shortening positions, respectively, relatively to the first member.

2,326,024
EVAPORATOR
James Edgar George, South Charleston, W. Va., assignor to Westvaco Chlorine Products Corporation, New York, N. Y., a corporation of Delaware
Application August 25, 1941, Serial No. 408,278
2 Claims. (Cl. 159—28)



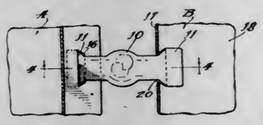
1. In a liquid evaporator having a calandria comprising heated tubes, through which liquid flows upwardly, disposed in annular arrangement, an annular upper tube sheet through which the tubes open, said tube sheet being above the normal liquid level in the evaporator, and a central tubular downtake passage, the improvement comprising frustoconical shells extending upwardly from the annular tube sheet, inclined toward each other and defining between them an annular liquid discharge opening of area not substantially greater than the combined area of the tube openings in the annular tube sheet.

2,326,025
CAMERA BACK LATCH
John Warren Gillon and George Albert Haraden, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application July 9, 1942, Serial No. 450,268
7 Claims. (Cl. 95—50)



1. A latch for cameras including a support, spaced rods slidably mounted on the support, a pair of slidably mounted latching bars movable transversely of the rods, frictional latching surfaces on the latching bars adjacent the rods, cam surfaces on the latching bars facing each other, a cam for engaging said cam surfaces mounted between the cam surfaces, and a handle for moving the cam.

2,326,026
TOY VEHICLE
Sidney Godell, Chicago, Ill., assignor to Arvey Corporation, Chicago, Ill., a corporation of Illinois
Application May 17, 1943, Serial No. 487,206
5 Claims. (Cl. 46—218)

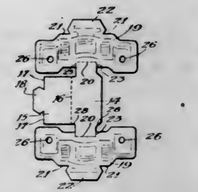


1. Coupling means for toy vehicles of the class described comprising a vehicle base formed with an aperture adjacent an end thereof and a coupling link adapted to be engaged thereby, said coupling link comprising a shank portion of lesser width than said aperture and a contiguous laterally projecting end tab portion the greatest dimension thereof being at least equal to the greatest dimension of said aperture and adapted to be forcibly urged therethrough.

2,326,027
TOY VEHICLE
Sidney Godell, Chicago, Ill., assignor to Arvey Corporation, Chicago, Ill., a corporation of Illinois
Application May 17, 1943, Serial No. 487,207
5 Claims. (Cl. 46—218)

1. In a toy vehicle of the class described, wheel

support means comprising a vehicle bottom formed with a pair of spaced parallel longitudinally extending slots and an intermediate transversely extending slot, and a wheel truck comprising a pair of spaced axle supporting strips formed with tabs extending from their upper



edges and into said longitudinally extending slots, an integral tie member extending between said strips adjacent their lower edges, and a stabilizer extending integrally from said tie member formed with a tab extending from its upper marginal edge into said transversely extending slot.

2,326,028

SPARKING PLUG ELECTRODE

William Thomas Griffiths, Battledown, Cheltenham, England, assignor to The International Nickel Company, Inc., New York, N. Y., a company of Delaware

No Drawing. Application May 27, 1942, Serial No. 444,745. In Great Britain January 31, 1941

2 Claims. (Cl. 123—169)

1. As an article of manufacture, a sparking plug electrode made from a member selected from the group consisting of the metals platinum, rhodium, iridium and osmium and alloys predominantly containing at least one of said metals, the predominant metal of said electrode being re-refined, and the said metal or alloy being so devoid of elements from the group consisting of sulphur, selenium, tellurium, phosphorus, arsenic, antimony, bismuth, lead, tin, and silicon that the presence thereof cannot be determined with certainty by chemical analysis and that the total amount of elements from said group is less than 0.01%, said electrode being characterized by improved service life compared to a similar electrode containing elements of said group in excess of about 0.01%.

2. As an article of manufacture, a sparking plug electrode made from a member selected from the group consisting of the metals platinum, rhodium, iridium and osmium and alloys predominantly containing at least one of said metals, the predominant metal of said electrode being re-refined, and the said metal or alloy being so devoid of elements from the group consisting of sulphur, selenium, tellurium, phosphorus, arsenic, antimony, bismuth, lead, tin and silicon that the presence thereof cannot be determined with certainty by chemical analysis and that the total amount of elements from said group is less than 0.005%, said electrode being characterized by improved service life.

2,326,029

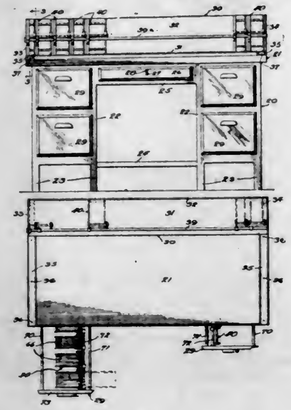
FILING SYSTEM

Max Grunt, Summit, N. J.

Application October 31, 1941, Serial No. 417,396

9 Claims. (Cl. 45—2)

1. A filing desk comprising a base and a top, guiding means carried by said top, a carrier adapted to travel along said guiding means, a drawer in said base, a rod carried by said carrier, a rod carried by said drawer, and filing



mechanism including means adapted to be slidably connected with each rod for interchangeable disposition of said filing mechanism.

2,326,030

PUPILLARY SCALE

William R. Hearn, Cincinnati, Ohio

Application October 18, 1940, Serial No. 361,747

3 Claims. (Cl. 88—20)



1. A pupillary scale having a middle portion with an edge part shaped to straddle the nose for positioning said scale for use, and having lateral extensions to lie across the pupils when said scale is so positioned, said scale being transparent throughout said middle portion and its nose-straddling edge part and said extensions, each extension being, throughout its extent across the pupils when the scale is so positioned, of substantially uniform upright cross section which has its outer side, remote from the pupils, convexly curved relative to its inner side, said middle portion having index means referable to a feature of the patient by view through said middle portion, and said extensions having, on their inner sides, index means referable to the pupils by view through said extensions, for definition of locations of said pupils relative to said feature, said definitions being facilitated by upright magnification of the pupils without substantial transverse magnification thereof, due to said cross section of said extensions.

2,326,031

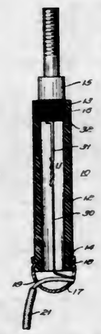
PROTECTIVE DEVICE FOR ELECTRICAL APPARATUS AND SYSTEMS

John K. Hodnette and Merrill G. Leonard, Sharon, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application May 20, 1942, Serial No. 443,690

4 Claims. (Cl. 200—120)

1. In a protective device for electrical apparatus provided with electrical windings, in combination, a fusible conductor, comprising a plurality of sections of different materials having different melting temperatures connected in circuit relation with the electrical windings, one section of the fusible conductor being of a material having a high melting temperature and another section of a material having a low melting temperature, the fusible conductor section of a high melting temperature and the fusible conductor section of a low melting temperature being connected in series circuit relation and so proportioned in cross-sectional area that they will fuse at approximately the same time when



subjected to the same fusing current, a container for the fusible conductor, a dielectric liquid into which the container extends, the container having an opening in the lower end to permit entrance of the dielectric liquid, and an opening in the upper end to permit the escape of gases formed by the cracking of the dielectric liquid, the container serving to collect the gas evolved from the dielectric liquid to provide a heat insulating medium surrounding the fusible conductor, the dielectric liquid and container thereby cooperating to control the dissipation of heat from the fusible conductor.

2,326,032

LOW PRESSURE REFINING AND CRACKING PLANT FOR HYDROCARBONS

William Homfeldt, Azcapotzalco, Mexico

Application February 25, 1941, Serial No. 380,558

1 Claim. (Cl. 201—50)



A heater for use in treating oil, said heater comprising a tube of refractory material, a metal tube enclosing said first-named tube, said metal tube having heat-radiating fins thereon, the metal of which the tube and fins are made having a relatively high melting point, an outer tube of metal, said outer tube having a good heat conductivity, a refractory granular electrical resistance material within the innermost tube, said material being composed of graphitic carbon, silicon carbide, and clay, means for protecting said material against oxidation, comprising a refractory coating containing a compound of a metal of the group consisting of molybdenum and tungsten, electrodes in contact with the ends of the column of granular material, and means for varying the pressure of said electrodes on said material to control the resistance thereof at will.

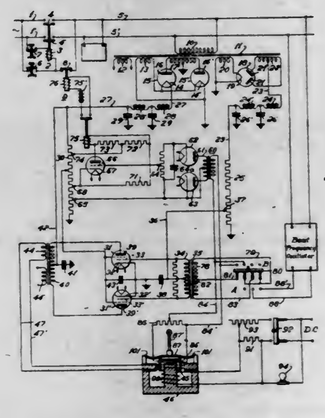
2,326,033

APPARATUS FOR VIBRATION TESTING

John A. Hutcheson, Catonsville, Md., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application August 2, 1940, Serial No. 349,403

1 Claim. (Cl. 73—51)



In an apparatus for testing the physical properties of materials, a reciprocating motor adapted to vibrate said materials and comprising a pair of relatively movable windings, one physically stationary relative to the support for said material and the other mechanically connected to vibrate with said material, means for energizing said one winding with direct current, an electron tube having an output circuit and a control electrode circuit, said output circuit being connected to energize said other winding, means for coupling said control electrode circuit to said output circuit with such a polarity as to cause said tube to generate electrical oscillations of the natural frequency of said material, a circuit breaker having a control circuit, a rectifier connected to supply energy from said control electrode circuit to the control circuit of said circuit breaker, a current source bucking the energy supplied by said rectifier in said control circuit, said circuit breaker being arranged to deenergize the power supply circuit for said electron tube in response to a predetermined change of current through said rectifier.

2,326,034

ARTICLE GRINDING APPARATUS

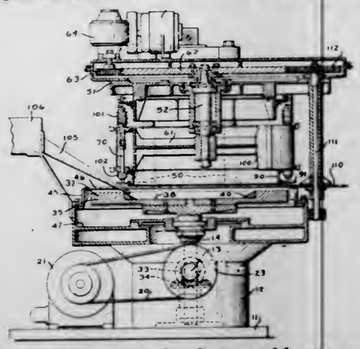
John K. Jackson, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a corporation of New York

Application September 20, 1941, Serial No. 411,743

6 Claims. (Cl. 51—134)

2. In a grinding apparatus, an article chuck assembly for holding an article to be ground, said chuck assembly being adapted to seize an article by being brought into engagement therewith, means surrounding said chuck assembly adapted to strip an article therefrom as the chuck assembly is withdrawn from said means, means for moving said chuck assembly, and means for

controlling the movement of said chuck assembly as required to effect seizure of an article thereby

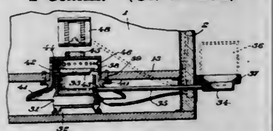


and for moving said chuck assembly as required to effect stripping of the article therefrom.

2,326,035

VAPOR BATH CABINET

Markus W. Jessup, Brazil, Ind.
Application November 14, 1941, Serial No. 419,193
1 Claim. (Cl. 4—164)

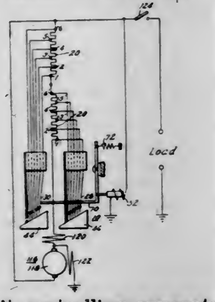


In a vapor bath cabinet having a horizontal bottom wall, a horizontal floor partition supported above the bottom wall and having an opening therein, a vapor generator mounted on the bottom wall in registration with the opening in the partition, a cylindrical perforated dome snugly fitted in and projecting through the partition opening, a downwardly flared flange depending from the bottom of the dome below the partition, means for securing the dome to the partition, the said dome concentrically surrounding the upper portion of the vapor generator, chemical pan supporting lugs in the upper portion of the dome, and a hinged cover normally closing the top of the dome.

2,326,036

CIRCUIT CONTROLLING APPARATUS

Ruel C. Jones, Wilkinsburg, Pa., assignor to Westinghouse Electric Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 18, 1941, Serial No. 415,614
12 Claims. (Cl. 200—97)

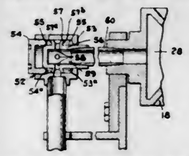


1. In a circuit controlling apparatus, in combination, a plurality of switching assemblies, each of the switching assemblies comprising a plurality of spring biased switches, a spring biased armature member for actuating progressively the spring biased switches to closed positions with the switches of one assembly being actuated in staggered relation with the switches of the other assembly, and electromagnetic means for actuating the armature member to effect the progressive staggered release of the spring biased switches of the different switching assemblies.

2,326,037

FLUID PASSAGE SWIVEL JOINT

Albert H. Jung, Flushing, N. Y., assignor to United American Metals Corporation, Brooklyn, N. Y., a corporation of New York
Application August 13, 1941, Serial No. 406,681
4 Claims. (Cl. 285—96.3)



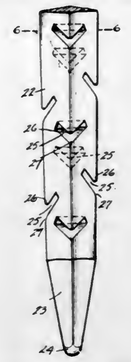
1. A combined fluid passage swivel connection and bearing for a rotatable fluid cooled heavy metal mold section comprising a straight horizontal tubular member secured to said section and being rotatable therewith, a stationary gland continually subjected to heat given off by solidifying molten metal, a rotatable element mounted within said gland provided with an integrally formed annular undercut collar-like projection, said rotatable element being hollow and having passages extending through said collar-like projection to its hollow interior, said hollow interior communicating with said tubular element and in turn with the interior of said rotatable mold section which is adapted to have heat exchange fluid pass therethrough, packing rings within said gland arranged on said rotatable element and in contact with the undercut side walls of the projection formed thereon, a packing nut engaging said packing and co-operating with said gland in screw threaded relation, the inner face of said packing nut which contacts said packing being undercut and tapered inwardly toward the axis of said nut, the inner end of said gland which is at the opposite end thereof in relation to said packing nut having a face which is tapered in a direction generally opposite to the inner face of said packing nut, said gland being provided with an opening in alignment with the passages through said rotatable element and an inlet pipe connected with the gland at the said opening whereby heat exchange fluid may be passed to the interior of said mold section through said combined bearing and swivel connector, the undercut faces of said collar-like projection cooperating with the undercut inner face of said packing nut and the tapered inner end wall of said gland to hold the said packing rings against the exterior wall of said rotatable element in a manner to effect a substantial leak proof joint.

2,326,038

CARRIER OR FELTING NEEDLE

Charles J. Kopriva, Bloomfield, and Percival T. Gates, Montclair, N. J., assignors to Drycor Felt Company, Belleville, N. J., a corporation of New Jersey
Application March 4, 1940, Serial No. 322,156
6 Claims. (Cl. 28—4)

1. As a new article of manufacture, a felting needle having a body of substantially uniform cross-section provided with downwardly and outwardly inclined slots each having a lower wall, an upper wall of considerable length substantially

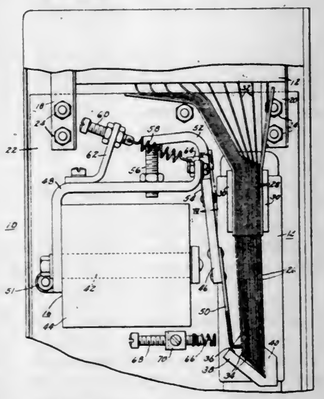


parallel to said lower wall and a top wall in a plane connecting said upper and lower walls, said slots being open at their lower ends and providing downwardly directed spurs on said body.

2,326,039

REGULATOR

Joseph F. Kovalsky, Turtle Creek, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 1, 1941, Serial No. 381,337
2 Claims. (Cl. 200—104)

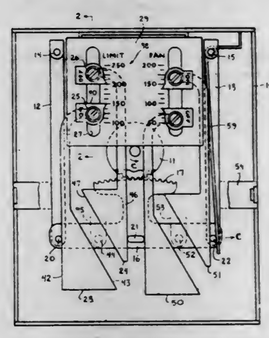


1. In a regulator for controlling an electric quantity over a predetermined working range, a control device comprising, in combination, a plurality of contact members normally biased to open circuit position, electromagnetic means disposed for actuating the contact members in sequence, the electromagnetic means comprising a core member, an energizing winding carried by the core member, and a pivotally mounted armature member disposed for movement through a predetermined arc about an axis for driving the contact members, the core member and the armature member having a variable air gap throughout the predetermined arc of movement of the armature member, a biasing means secured to the armature member at an angle of less than 90° for all positions of the armature member as it moves through the predetermined arc to effect a non-linear pull thereon to actuate the armature member in one direction about its axis to sequentially actuate the contact members to circuit closing positions, the energizing winding carried by the core member effecting the actuation of the armature member in the opposite direction about its axis, and another biasing means disposed in the path of movement of the armature member for engagement therewith after the armature member is actuated a predetermined distance in said opposite direction to allow only a part of the contact members to separate, the two biasing means cooperating with the energizing winding carried by the core member to provide a substantially linear sensitivity of the control device embodying the variable air gap over a predetermined working range.

2,326,040

COMBINATION SWITCH

Carl G. Kronmiller, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application August 16, 1940, Serial No. 352,874
24 Claims. (Cl. 200—138)



1. In combination, a member movable in response to the variations in a variable condition, a pair of spaced lugs on said member, a switch, actuating means for said switch, a pusher arm for transmitting motion from said member to said actuating means, said arm having a first surface for engaging one of said lugs, and a second surface for engaging said actuating means, said arm being of variable thickness between said surfaces, and supported so as to move freely along the line of motion of said member, and means for adjusting said arm transversely of said line of motion, so as to present portions of varying thickness between said lug and said actuating means, thereby adjusting the magnitude of said condition at which said switch is actuated.

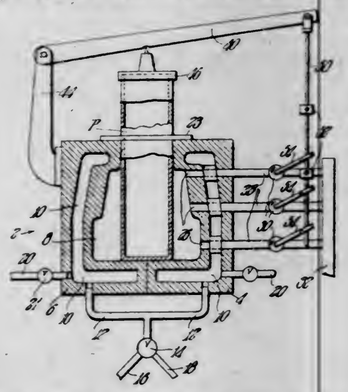
2,326,041

PLASTIC MOLDING

Louis Joseph Aime Lavallee, Springfield, Mass.
Application July 13, 1942, Serial No. 450,744
2 Claims. (Cl. 18—35)

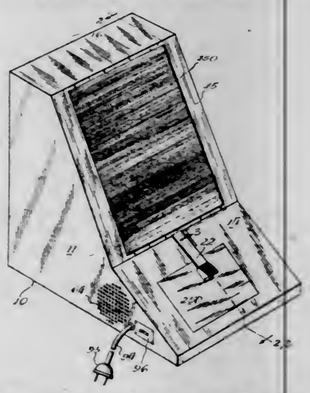
1. The method of forming receptacle-like objects from plastic material adapted to conform to a mold cavity under the influence of heat and pressure which consists in, placing a partially formed plastic receptacle-like object in a mold cavity closed at its lower and open at its upper end and having separate suction outlets spaced from lower to upper end, the said object extending upwardly through the open upper end of the cavity, heating said object, and in connecting said

outlets to the action of suction progressively upwardly from the lowermost one thereof to cause



portions of the object to be drawn into contact with the cavity progressively.

2,326,042
PROJECTOR AND VIEWING SCREEN
Gerhard Lessman, Chicago, Ill., assignor to Stephen Junkunc, Jr., Oak Park, Ill.
Application September 11, 1939, Serial No. 294,224
10 Claims. (Cl. 88—24)



1. A refractively diffusing projection screen comprising a transparent sheet one side of which bears a multiplicity of parallel lenticular grooves and the other side of which sheet bears a multiplicity of parallel lenticular grooves running substantially at right angles to the aforesaid grooves, some of said lenticular grooves upon one of said sides being different than others of said lenticular grooves upon the same side, said difference being characterized by the fact that at least some of said grooves are asymmetrical and further by the fact that substantially progressively in one direction at least some of said grooves are more asymmetrical than others of said grooves, and wherein said lenticular grooves conform substantially to the following formula

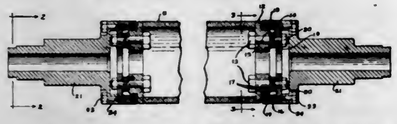
$$\Sigma = \sin^{-1}(\sin\alpha\sqrt{n^2-\sin^2\theta}-\cos\alpha\sin\theta)-\alpha$$

wherein angle Σ is the angle of refraction of the emergent ray relative to a line normal to the plane of the screen and angle θ is the angle of incidence and α is the degree of curvature and n is the index of refraction.

2,326,043
ARTIFICIAL YARN AND PROCESS OF PRODUCING SAME
William Liebig, Huntingdon, Pa.
No Drawing. Application December 9, 1941, Serial No. 422,297
8 Claims. (Cl. 57—140)

4. The method for producing a synthetic yarn comprising soaking unprepared synthetic yarn in a warm sizing bath, drying the yarn, twisting the yarn in one direction, setting this twist by controlled heat and moisture treatment at a temperature of less than 212° F., permitting the set yarn to cool somewhat and then twisting the yarn in a reverse direction in an amount less than one half of the original twist and again setting the yarn under similar setting conditions as before.

2,326,044
GLASS FORMING APPARATUS
Jesse T. Littleton, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a corporation of New York
Application July 20, 1940, Serial No. 346,616
3 Claims. (Cl. 49—33)



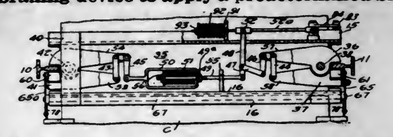
1. In a glass forming apparatus, a glass forming implement composed of a hollow cylinder of low expansion glass, end members partly closing the ends of the cylinder and having apertures therethrough, an apertured and flanged plate adjacent each end of the cylinder arranged with apertures in alignment with the cylinder end apertures, bolts passing through the apertures and clamping the plates to the cylinder with the plate flanges surrounding the end members, means arranged between the flanges and the end members to axially align said plates with the cylinder and axles attached to said plates.

2,326,045
PROCESS OF PAVING
Kenneth E. McConnaughay, West Lafayette, Ind.
No Drawing. Application February 12, 1942, Serial No. 430,621
7 Claims. (Cl. 94—23)

4. A process of paving by soil stabilization, comprising adding to soil ingredients necessary to produce a stable pavement, such ingredients including a binder, mixing the soil and added ingredients, spreading and compacting the mixture to form a slab, removing the surface portion of said slab, mixing such removed surface portion with a bituminous binder to form a second mixture, distributing said second mixture over the base slab, and compacting it, the steps of forming, distributing, and compacting said second mixture being completed before said binder of the base slab has cured.

2,326,046
ELEVATOR SAFETY APPARATUS
Harold V. McCormick, Westfield, N. J., assignor to Westinghouse Electric Elevator Company, Jersey City, N. J., a corporation of Illinois
Application May 2, 1942, Serial No. 441,505
12 Claims. (Cl. 187—88)

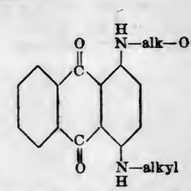
11. In a safety device for an elevator body movable along a guide rail by a hoisting device, a braking device for retarding movement of the body along the rail, means responsive to a predetermined down speed of the body for operating the braking device to apply a predetermined brak-



ing effect on the rail to retard the body, and means responsive to the hoisting device breaking for operating said braking device to apply a different predetermined braking effect on the rail to retard the body.

2,326,047
ANTHRAQUINONE COMPOUND
James G. McNally and Joseph B. Dickey, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application April 7, 1939, Serial No. 266,646
4 Claims. (Cl. 260—379)

1. An anthraquinone compound having the general formula:



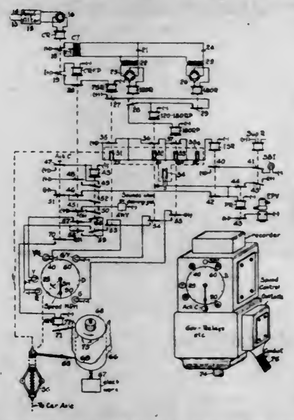
wherein alk represents an alkylene radical, R represents a member selected from the group consisting of hydrogen and a water-soluble salt forming group and R_1 represents an alkyl group.

2,326,048
PROCESS FOR PREPARING POLYVINYL ACETAL RESINS
James G. McNally, Charles R. Fordyce, and Ralph H. Talbot, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application June 22, 1940, Serial No. 341,962
5 Claims. (Cl. 260—73)

4. A process for preparing a polyvinyl acetal comprising polymerizing not more than 90% by weight of a selected quantity of vinyl acetate, the polymerization being carried out in a solvent for the polyvinyl acetate, and forming a polyvinyl acetal resin by incorporating in the resulting solution of vinyl acetate and polyvinyl acetate, a deesterification catalyst, an aldehyde and a substance selected from the group consisting of liquid monohydric alcohols and water.

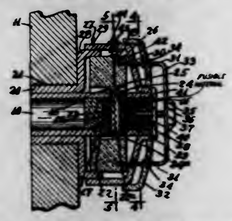
2,326,049
CODED CONTINUOUS INDUCTIVE TRAIN CONTROL SYSTEM
Percy W. Smith, New York, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.
Application January 23, 1941, Serial No. 375,592
9 Claims. (Cl. 246—63)

1. In a train control system, vehicle carried means for receiving and responding to train control energy conditions on the trackway of characteristics differing in accordance with different traffic conditions ahead, means on the vehicle for establishing the same speed limit in response to each of two of said different energy conditions,



a plural aspect cab signal, and control means for the signal distinctively responsive to said energy conditions to cause the signal to display a different aspect for each of said different energy conditions.

2,326,050
ANTIFREEZE DEVICE MOTOR
Alexander Merdan, New York, N. Y.
Application October 22, 1941, Serial No. 416,051
7 Claims. (Cl. 123—174)

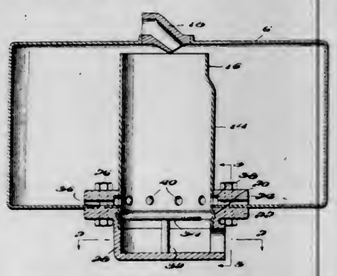


4. A motor anti-freeze device, comprising a discharge for the water jacket of a motor, an electric heater within said discharge, an open electric circuit for operating said heater when closed, a thermostat for closing said circuit when a certain temperature is reached, a switch for opening said circuit when closed by said thermostat, means for operating said switch and including a wound spring in said discharge, and fusible material in said discharge for blocking said discharge and holding said spring from unwinding and adapted to melt upon operation of said heater, said electric heater comprises a tube mounted transversely through said discharge and having an internal heating filament, and said electric circuit being connected to operate said filament.

2,326,051
LUBRICATING SYSTEM
Leslie T. Miller, Stoneleigh, Md., assignor to The Glenn L. Martin Company, Baltimore, Md.
Application March 15, 1941, Serial No. 383,494
11 Claims. (Cl. 183—2.5)

3. In combination with an oil tank, a warm-

up compartment comprising a cylindrical compartment extending upwardly through the bottom of the oil tank, said compartment having a flat portion adjacent the top thereof, means to direct oil against said flat portion, means formed in the wall of said warm-up compartment adjacent the bottom of said tank providing communication between the tank and said compartment, said compartment having a portion extending below said communicating means and provided with a tangential outlet, and a disc within said compartment spaced upwardly from the bottom thereof above the top of the outlet but below said communicating means, the edge of said disc being spaced from the walls of said compartment.

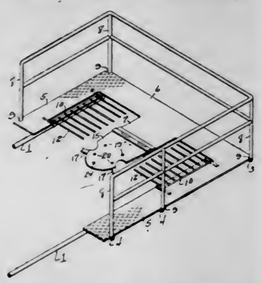


2,326,052

PIPE HANDLING AND RACKING PLATFORM

Dewey R. Moore, Holdenville, Okla.

Application April 13, 1942, Serial No. 438,807
7 Claims. (Cl. 211—60)



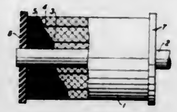
5. A pipe handling and racking platform for oil well derricks, comprising a base frame for attachment to the derrick, said frame including a pair of spaced parallel side members and an end member secured to and projecting outwardly from the side members, studs formed on and extending laterally and outwardly from the side members, a floor including spaced side portions and a rear portion bridging the side portions, said portions being supported on said members and the studs and having recesses therein, a guard railing including uprights secured to and rising from the studs and the ends of the end member, said recesses having the uprights mounted therein for detachably securing the floor to the frame, finger boards secured to the side members for disposal in the space between said side portions, an intermediate portion included in the floor and extending forwardly and centrally from said rear portion, and a stabbing board hingedly secured to the outer end of said intermediate portion for disposal between the finger board.

2,326,053

COIL FOR RELAYS AND INDUCTIVE APPARATUS

Charles M. Morris, East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application August 28, 1941, Serial No. 408,613
9 Claims. (Cl. 175—21)



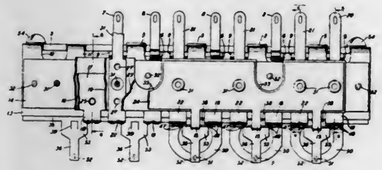
1. A coil for relays and similar devices having three concentric windings, the inner and outer of which have an unequal number of turns and are connectable in series to form a primary winding and the middle winding serving as a secondary winding and having a number of turns equal to the sum of the turns of the inner and outer windings.

2,326,054

MULTIUNIT RELAY

Edmund R. Morton, New York, N. Y., and Hugh M. Stoller, Mountain Lakes, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application August 10, 1940, Serial No. 352,162
6 Claims. (Cl. 200—98)



1. In a relay, a return pole-piece, a core supported thereby, a coil on said core, an armature supporting arm secured to said return pole-piece, an armature supported on said arm with its heel resting on said arm and against the pole face of said return pole-piece, and a leaf spring prebent into a V-shape having one leg thereof secured to said armature and having the portion thereof near its bend cut away to form a loop in the other leg thereof through which said arm extends and conductively engaged with the outer surface of said arm whereby said spring normally biases said armature into its retracted position and engages the heel thereof with said arm and with the pole face of said return pole-piece.

2,326,055

DYE BLEACHING PROCESS

Robert A. Morris, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application June 6, 1942, Serial No. 446,054. In Great Britain August 19, 1941
4 Claims. (Cl. 95—6)

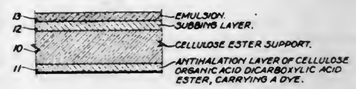
1. The method of producing a reversed dye image in a photographic silver halide layer containing a uniform dispersion of an azo dye, which comprises exposing said layer, developing a silver image therein, removing said silver image without affecting the residual silver halide, and then bleaching the dye in the region of the residual silver halide in a bleach bath comprising a stannite of an alkali metal.

2,326,056

ANTIHALATION FILM

Gale F. Nadeau and Alfred D. Slack, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Original application March 4, 1941, Serial No. 381,695. Divided and this application November 1, 1941, Serial No. 417,530
6 Claims. (Cl. 95—8)



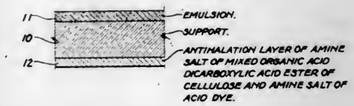
1. A photographic element free from halation which comprises a support provided with a light sensitive emulsion layer, and an antihalation layer of a water-permeable cellulose ester containing substantially 4 to 8 acyl groups per C_{24} cellulose unit, of which one is a dicarboxylic acid acyl group and the remainder are aliphatic monobasic acid acyl groups of less than five carbon atoms, said layer carrying a light-absorbing dye.

2,326,057

ANTIHALATION FILM

Gale F. Nadeau and Alfred D. Slack, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application January 14, 1942, Serial No. 426,738
5 Claims. (Cl. 95—9)



1. A photographic film free from halation which comprises a support provided on one side thereof with a light sensitive emulsion layer, and on the opposite side with a layer containing a cellulose mixed organic acid dicarboxylic acid ester containing substantially four to eight aliphatic monobasic organic acid acyl and dicarboxylic acid acyl groups per C_{24} cellulose unit of which not more than one is a dicarboxylic acid group and the remainder are aliphatic monobasic acid acyl groups, and a mixture of an organic amine and an acid dye.

2,326,058

PHOTOGRAPHIC STRIPPING MATERIAL

Gale F. Nadeau, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application July 30, 1942, Serial No. 452,877
3 Claims. (Cl. 95—8)



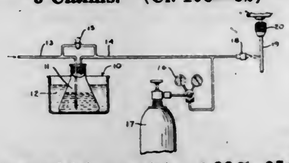
1. A photographic stripping material comprising a flexible paper support, a stripping layer on one surface thereof and a photographic emulsion layer over said stripping layer, the emulsion layer being of unhardened gelatine and containing a matting material and the stripping layer comprising hydrolyzed cellulose acetate having an acetyl content of between 16 and 18 per cent, the support and stripping layer being capable of being readily stripped together from the emulsion layer.

2,326,059

GLASS HAVING AN EXPANSION LOWER THAN THAT OF SILICA

Martin E. Nordberg, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a corporation of New York

Application April 22, 1939, Serial No. 269,497
3 Claims. (Cl. 106—52)



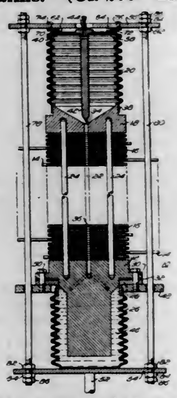
1. A glass which consists of 89%–95% of silica and over 5% but not over 11% of titanium oxide and which has a coefficient of expansion less than that of silica.

2,326,060

ELECTRICAL SWITCHING APPARATUS

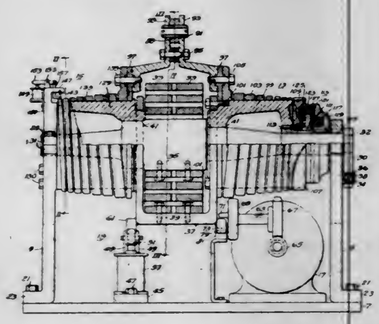
Kirk A. Oplinger, Verona, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application May 13, 1942, Serial No. 442,772
7 Claims. (Cl. 200—152)



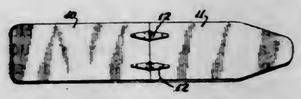
1. In a switching apparatus, a well adapted to receive a conducting liquid, the well being formed of a stack of alternately disposed conductor members and insulating spacer members having aligned openings therein, opposed bellows disposed at the ends of the stack communicating with the well, means for sealing the stack of alternately disposed conductor members and insulating spacer members and the opposed bellows into a gas and liquid leak-proof unit, a conducting liquid carried in one of the bellows, said one of the bellows being dsposed for operation to deliver the conducting liquid into the well at one end of the stack to progressively bridge the conductor members, the other bellows being disposed to close the well at the other end of the stack, a gas capable of reducing arcing carried in the well above the conducting liquid, the gas and the bellows being affected by changes in temperature and atmospheric pressure, and means disposed to connect the opposed bellows together to compensate for changes in the gas and bellows in response to a change in the temperature or atmospheric pressure to maintain the operation of the sealed switching apparatus substantally unaffected by the change in the temperature or atmospheric pressure.

2,326,061
HIGH-SPEED CIRCUIT BREAKER RECLOSING MECHANISM
Joseph W. Ow, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 20, 1936, Serial No. 111,822
40 Claims. (Cl. 175—294)



1. In a control apparatus for a circuit breaker, an operating member connected to the breaker to open or close the same, an energy storing device, means for storing energy in said device, means for releasably holding the energy stored in said device, means including a clutch mechanism interposed between said device and said operating member operable to transmit the stored energy when released from said device to said operating member to close the breaker, and means for releasing said holding means and simultaneously operating said clutch mechanism to close the breaker.

2,326,062
PORTABLE FOLDING IRONING BOARD
Beatrice Parker, Brooklyn, N. Y.
Application September 30, 1941, Serial No. 412,924
2 Claims. (Cl. 38—139)

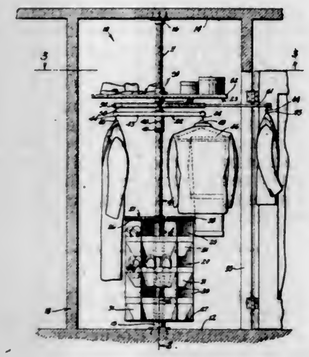


2. A portable folding ironing board, comprising a pair of adjacent board sections, spaced hinges hingedly connecting adjacent ends of said board sections together, a hook arranged to project in an operative position from between the hinged ends of said board sections, and means attaching said hook to one of said board sections so that it may be moved from an operative extended position to an inoperative position retracted between the adjacent faces of said board sections, comprising a length of wire disposed between said hinges and having its ends attached to the leaves of the hinges which are attached to one of said board sections, said wire being spaced from the adjacent edges of said board sections and having a central portion directed towards said adjacent edges, and means slidably attaching said hook to said wire to be movable to an operative position engaging said bent central portion and slidable to an inoperative position disengaged from said bent central portion, said latter means, comprising a portion of said hook which is slidably bent around said wire.

2,326,063
MANUFACTURE OF ALTERNATING CURRENT RECTIFIERS
Leslie Hurst Peter, King's Cross, London, England, assignor, by mesne assignments, to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
No Drawing. Application March 17, 1942, Serial No. 435,085. In Great Britain February 21, 1941
2 Claims. (Cl. 175—366)

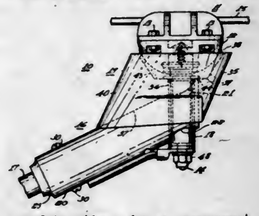
1. A process for the manufacture of alternating current rectifiers of the kind described comprising a base plate of sheet metal coated with a layer of a semi-conductor material the upper surface of which is provided with a counter-electrode applied by a spraying operation or otherwise in which the coating of semi-conductor material is arranged to be of considerably greater thickness than has hitherto been usually adopted and the sheet stock thus coated with the material and after the counter-electrode has been applied over the whole surface is separated into the desired individual rectifier elements by a cutting, punching or stamping operation, substantially as and for the purpose specified.

2,326,064
ROTARY WARDROBE
Walter V. Pittman, Riverside, Calif.
Application April 16, 1941, Serial No. 388,731
2 Claims. (Cl. 312—183)



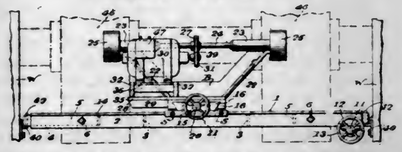
2. In a rotary wardrobe, the combination of: a vertical shaft; a shoe cabinet symmetrically disposed about said shaft and rotatably mounted upon the lower end thereof; a clothes rack including an annular ring, the diameter of which is in excess of that of said shoe cabinet, said rack being concentric with said shaft and rotatably mounted thereon at such a distance above the upper end of said shoe cabinet as to permit coats draped on coat hangers and hung upon said ring to be disposed entirely above the upper end of said shoe cabinet; and an annular guard rotatably mounted on said shaft at the upper end of said cabinet, said guard being of a diameter in excess of that of said cabinet and less than that of said clothes rack ring.

2,326,065
TROLLEY POLE HEAD
Theodore R. Rideout, Glenshaw, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 24, 1941, Serial No. 403,801
12 Claims. (Cl. 191—59)



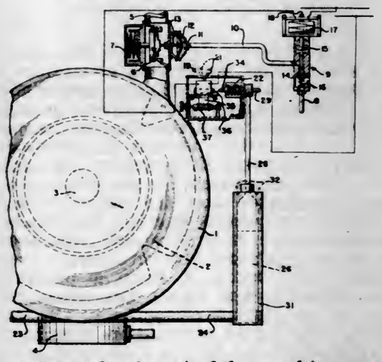
1. The combination in a current collector, of a support for pivotally mounting a slider shoe, a socket for said support, and a resilient guard member positioned about the socket.

2,326,066
DEVICE FOR USE IN REFINISHING FULLING MILL ROLLS
Bryan S. Robinson, Warren, Maine
Application December 9, 1940, Serial No. 369,330
4 Claims. (Cl. 142—40)



1. A portable device to be attached to the walls of fulling mills for use in refinishing pairs of axially spaced rolls mounted therein, said device comprising a bed, a cross slide adjustably mounted on said bed, roll refinishing means mounted on said slide, a base slidably supporting said bed, and being formed with an open compartment at each end, and a base supporting slide positioned in each of said compartments.

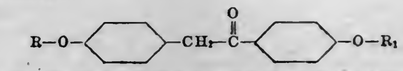
2,326,067
LEVEL CONTROL FOR WASHING MACHINES
Alton J. Rohr, Syracuse, N. Y., assignor to The Prosperity Company, Inc., Syracuse, N. Y., a corporation of New York
Application November 14, 1941, Serial No. 419,154
5 Claims. (Cl. 68—139)



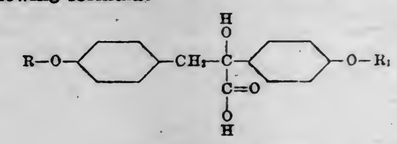
1. A liquid level control for washing machines of the type including an outer casing, a container rotatable about a horizontal axis in the casing and an inlet conduit for a cleansing fluid having a valve therein, means for opening said valve, and means for closing the valve when a predetermined level is reached, said level control including a control member normally in one position when the valve is open and shiftable into a second position to close the valve, pressure-operated means for operating the control member into second position, upright air compressor chamber means, conduit means connecting the same and the pressure-operated means, enclosing means in which the chamber means is located, the enclosing means communicating through conduit means with the bottom portion of the casing of the washing machine, the air compressor chamber means being open at its lower end into its enclosing means.

2,326,068
INTERMEDIATES FOR ESTROGENIC THERAPEUTIC AGENTS
Ewald Rohrmann, Indianapolis, Ind., assignor to Eli Lilly and Company, Indianapolis, Ind., a corporation of Indiana
No Drawing. Application December 26, 1941, Serial No. 424,472
3 Claims. (Cl. 260—590)

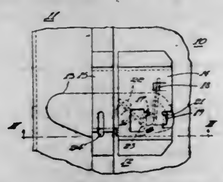
1. The method of preparing a p-alkoxyphenyl-p-alkoxybenzyl ketone having the following formula:



in which R is a monovalent saturated aliphatic organic radical and R_1 is a monovalent saturated aliphatic organic radical, said method comprising oxidizing with lead tetracetate a p-alkoxyphenyl-p-alkoxybenzyl glycollic acid having the following formula:



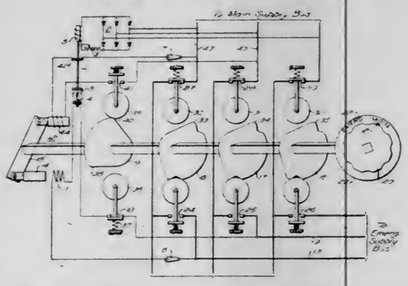
2,326,069
CABINET LATCH
John W. Samzelius, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 26, 1941, Serial No. 420,518
5 Claims. (Cl. 292—128)



1. A latch for a cabinet having a cover comprising a catch for engaging the cover, a pivotal support for the catch, a shoulder on said support, and a spring for biasing the catch into engagement with the cover, said spring having a variable diameter loop therein disposed on said support between said shoulder and the catch to re-

tain the catch on said support, the diameter of said loop being reduced sufficiently when the spring is under tension to prevent the loop from passing over said shoulder.

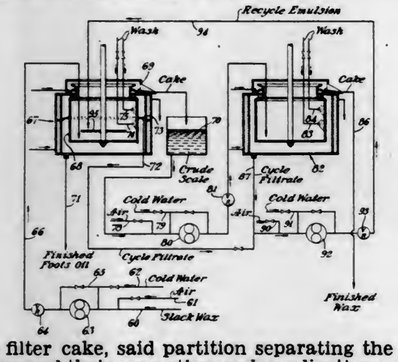
2,326,070
AUTOMATIC BUS TRANSFER EQUIPMENT
Walter Schaelchlin, Forest Hills, Pa., and John C. Ponstingl, Cleveland, Ohio, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 21, 1942, Serial No. 443,938
4 Claims. (Cl. 171—97)



4. In an electric bus transfer control for transferring an electric load circuit from one source of supply to another source of supply, in combination, main alternating-current supply buses, emergency alternating-current supply buses, an electrical load, rectifying means connected to said main alternating-current supply buses, a direct-current relay connected to be energized from the main source of supply by direct current through said rectifying means, said relay being so designed and adjusted that it will drop out in the event of the occurrence at the main supply of a phase failure, a complete voltage failure, or a drop in voltage of twenty percent or more, switching means having two operative positions, said switching means normally being in the position for connecting the load to the main buses, a cutout switch, electromagnetic means energized through said cutout switch by the dropout of said relay to operate said switching means to disconnect said load from the main buses and to connect said load to the emregency buses, means operated by said switching means, while being operated by said electromagnetic means, for opening said cutout switch to deenergize said electromagnetic means upon the completion of the transfer operation of said switching means, and electromagnetic means energized by the pickup of the relay upon restoration of normal electrical characteristics on the main buses to operate said switching means to transfer the load back to the main buses.

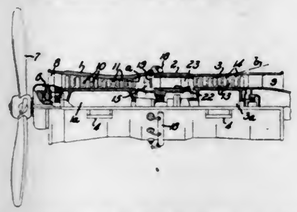
2,326,071
CONTINUOUS FILTER
August Henry Schutte, Westfield, N. J.
Application February 25, 1939, Serial No. 258,527
1 Claim. (Cl. 210—63)

A continuous centrifugal filter having a housing, a rotating basket having a closed end wall and a foraminous filter wall in said housing, means to feed an emulsion to said basket adjacent the end wall thereof, means to rotate the basket to centrifugally discharge the liquid portion of the emulsion outwardly through the filter wall, said liquid discharge freely passing through the filter wall and the solid materials which form a porous cake on the filter wall, said cake progressively moving axially along the filter wall under the influence of continued feed of emulsion and becoming drier toward the point of discharge, said housing having independent compartments longitudinally spaced with respect to the movement of the filter cake, and at least one liquid collecting partition in said housing, means intermediate of the filter wall to wash the cake at spaced points along the path of movement of



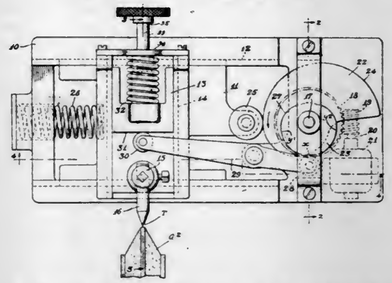
the filter cake, said partition separating the filtrates and their respective wash applications, said filter having a supplemental end wall inwardly spaced from the closed end of the basket, and means to feed a drier emulsion to said filter between said supplemental end wall and the point of cake discharge from said basket, said supplemental end wall distributing said drier emulsion to a part of the foraminous filter wall where the liquid quality of the cake thereon is approximately the same.

2,326,072
GAS TURBINE PLANT
Claude Seippel, Ennetbaden, Switzerland, assignor to Aktiengesellschaft Brown, Boveri & Cie, Baden, Switzerland, a joint-stock company
Application June 8, 1940, Serial No. 339,569
In Germany June 28, 1939
7 Claims. (Cl. 60—41)



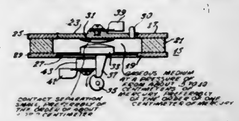
1. A gas turbine for driving generators, propellers and the like, comprising a multistage axial flow turbine and a direct driven multistage axial flow compressor, a combustion chamber of annular cross-section between the compressor and the gas turbine, the annular inlet to said chamber coaxially adjoining the last blade row of said compressor and the outlet from said chamber coaxially adjoining the first blade row of the gas turbine, walls arranged radially in the entrance end of the combustion chamber and circumferentially spaced to form a plurality of mixing chambers and cooling air passages arranged in alternation circumferentially at the entrance side of said combustion chamber, and means for supplying fuel to each mixing chamber.

2,326,073
DRESSING MECHANISM
Harold N. Seyferth, East Detroit, Mich., assignor to Ex-Cell-O Corporation, Detroit, Mich., a corporation of Michigan
Application January 16, 1942, Serial No. 426,955
15 Claims. (Cl. 125—11)



1. A dressing mechanism for a rotary grinding wheel comprising, in combination, a tool holder having a dressing tool mounted for movement toward and from the axis of the grinding wheel to dress a surface thereon, cam means for actuating said holder including spring means for urging said holder in one direction, and stop means for limiting the movement of said holder in said one direction in opposition to said spring means and independently of the throw of said cam means.

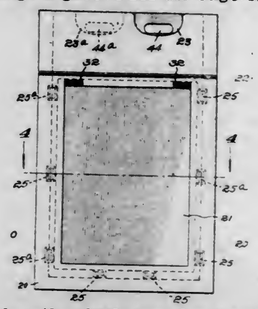
2,326,074
CIRCUIT INTERRUPTER
Joseph Slepian, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 20, 1939, Serial No. 295,727
20 Claims. (Cl. 200—144)



1. A circuit interrupter comprising a confined fluid medium, a vacuum-tight container having a pressure of from about one to ten centimeters of mercury therein disposed in said medium, cooperative contacts disposed in said container and means for compressing and relaxing said fluid medium to engage and disengage said contacts.

2,326,075
CUT FILM HOLDER FOR PHOTOGRAPHIC CAMERAS
Byron L. Smith, East Rochester, and Vernon E. Whitman, Rochester, N. Y., assignors to The Folmer Graflex Corporation, Rochester, N. Y., a corporation of Delaware
Application May 13, 1942, Serial No. 442,774
16 Claims. (Cl. 95—66)

1. A holder for sensitized material to be used in photographic cameras, having two duplicate body members, each of general open rectangular formation and adapted to be assembled in a face-to face relation to constitute the lengthwise and widthwise extent of the holder, each said body member having at least one locking projection and at least one depression on the face thereof which is its inner face when the said two members are so assembled with each such locking projection of one of said members received in such a depression of the other of said members, and at least one dark slide, one of said body members having in one lengthwise extending inner edge a groove for an edge of such dark



slide, and the other body member having a groove in its locking projection or projections into which an edge of said dark slide enters, whereby the said two body members are held together by said dark slide.

2,326,076
RESILIENT ROLLER
Peter A. Solem, Rockford, Ill.
Application December 12, 1940, Serial No. 369,870
3 Claims. (Cl. 144—250)

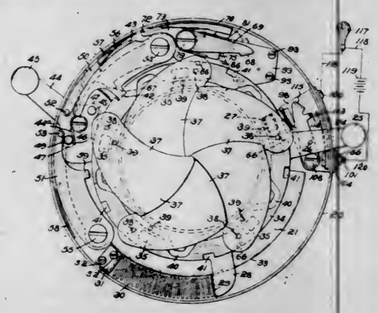


1. A resilient roller of the character described comprising a laminated hub member, a laminated rim member normally concentric with the hub, said hub and rim members being built up to a desired greater or smaller width with more or less ring-shaped laminae secured together in stacked relation to form a unitary hub member and a unitary rim member, and an annular rubber core between and connected circumferentially with the hub and rim members on the outer periphery of the hub member and inner periphery of the rim member to transmit drive resiliently from one of said members to the other while permitting universal deflection of the rim with respect to the hub under restraint of the compressed, stretched, or otherwise distorted portions of said core, the laminae of said hub and rim members providing multiplicities of interstices therebetween into which the rubber of the core protrudes to make a better mechanical driving connection between the core and said hub and rim members.

2,326,077
HIGH-SPEED BETWEEN-THE-LENS PHOTOGRAPHIC SHUTTER
Oscar Steiner, Rochester, N. Y., assignor to The Folmer Graflex Corporation, Rochester, N. Y., a corporation of Delaware
Application June 17, 1941, Serial No. 398,413
16 Claims. (Cl. 95—63)

1. A between-the-lens photographic shutter

having a shutter housing and therein having a series of leaves movable reciprocatingly to and fro to complete a single opening-and-closing act, a cam ring having a continuous cam path including a series of spaced cam formations, means operatively connecting said leaves to said cam path with its said cam formations to impart a to and fro movement of reciprocation to said leaves to complete each single opening-and-closing thereof, operating means to move said cam ring in one direction only thereby to effect by said cam formations all opening and closing movements of said leaves, said last mentioned means being operatively connected to said cam ring to turn it by steps in said one direction only, but at



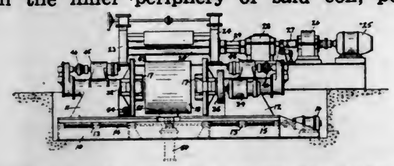
each such turning movement to turn it only to the extent of such part of a complete rotation of said cam ring as is necessary to cause the said shutter leaves to open and then to close in a single, complete, to and fro movement; said operating means having a reset lever-member, shutter-action retarding means for controlling the shutter speeds other than the fastest instantaneous speed, located within said shutter housing in close proximity to said reset lever-member and in advance of the said position thereof, said reset-lever-member having a formation to engage the retarding means in the shutter-leaves-operating direction of movement of said reset lever-member.

2,326,078
PROCESS OF POLYMERIZING METHACRYLIC ACID
Ernst Trommsdorff and Gerhard Abel, Darmstadt, Germany, assignors to Röhm & Haas Company, Philadelphia, Pa.
No Drawing. Application May 8, 1940, Serial No. 333,940. In Germany December 7, 1938
10 Claims. (Cl. 260—83)

1. The process of preparing, in granular form, water-insoluble polymeric material capable of dissolving to form clear solutions in dilute alkali, which comprises suspending polymerizable material containing at least 40% methacrylic acid in an aqueous solution containing at least 10% of a neutral salt of a mineral acid, the cation of which salt is capable of forming water-soluble methacrylate salts, and subjecting the suspension of polymerizing influences.

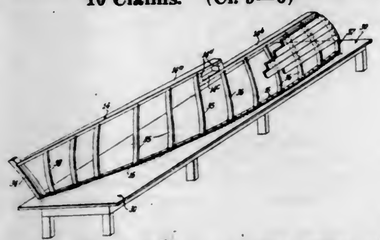
2,326,079
APPARATUS FOR SUPPLYING STRIP
Emmet R. Tyrrell, Youngstown, Ohio, assignor to Fessler Machine Company, Sharon, Pa., a corporation of Pennsylvania
Application February 18, 1941, Serial No. 379,446
16 Claims. (Cl. 80—32)

1. Apparatus for uncoiling metal strip comprising in combination a base, a pair of supports slideably mounted on said base for movement toward and away from each other, an expansible chuck rotatably mounted on each of said supports and adapted to engage the opposite ends of a coil of strip, said chucks comprising jaws adapted to be moved into pressure engagement with the inner periphery of said coil, power



means on said supports to move said jaws into said pressure engagement, means to disconnect said power means from said jaws, power means including an overrunning clutch to rotate at least one of said chucks and consequently the coil held thereon, and means to brake the rotation of at least one of said chucks.

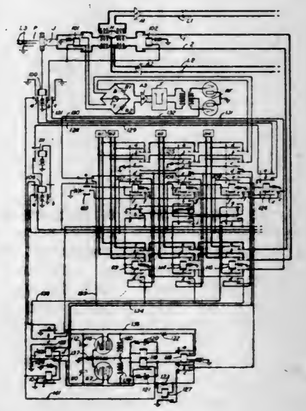
2,326,080
BOAT HULL CONSTRUCTION
Albert W. W. van Hoorn, Holly Oak, Del.
Application November 2, 1938, Serial No. 238,326
10 Claims. (Cl. 9—6)



5. A pod for a hull, said hull being of the type having progressively curved sections, said pod comprising a pair of stringers, each curved throughout its length to correspond to the section of the progressively curved hull along a plane substantially parallel to the center line of the hull, one of said stringers being constructed and arranged to be joined to an adjacent stringer of an adjacent pod section on one of said planes to form a hull and having a terminal surface conforming to said plane, said stringers being spaced apart in substantially parallel relation, a plurality of rib sections, each curved to conform to the progressively curved contour of the hull and extending from one of said stringers to the other and having each end firmly attached to its corresponding stringer, said ribs comprising the means by which said stringers are connected together to form a pod frame, said rib sections being of such strength and so firmly attached to said stringers as to hold the said pod frame to the hull contour, independent of other support and a skin surface bent about the skeleton formed by said ribs and stringers, from the flat, and retained in said progressively curved contour by such skeleton.

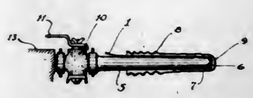
2,326,081
TWO-WAY TELEPHONE TRANSMISSION SYSTEM
Kenneth G. Van Wynen, Ramsey, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application February 25, 1941, Serial No. 380,428
7 Claims. (Cl. 179—175.3)

1. In combination in a two-way signal transmission system, a four-wire signal transmission circuit comprising two oppositely directed signal paths, a hybrid coil bridge circuit at one terminal of said four-wire circuit, having line and balancing network terminals in two opposing bridge arms and the input and output of said paths at said terminal respectively connected in the other two opposing arms, a plurality of two-way signal lines adapted for selective connection



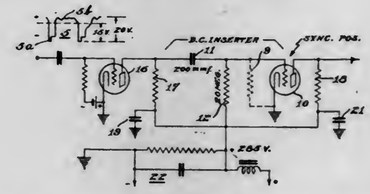
to said line terminals, and means to reduce signal echoes for a signal connection between said four-wire circuit and any one of said lines, comprising automatic means responsive to the connection of a selected line to said line terminals to test the line to determine an electrical characteristic thereof and to provide a balancing network of a tolerable matching electrical characteristic connected to said network terminals.

2,326,082
MARKING SAUSAGE
Charles T. Walter, Chicago, Ill., assignor to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware
Application May 31, 1940, Serial No. 338,284
4 Claims. (Cl. 17—45)



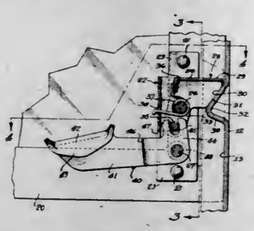
4. The method of producing a marked, cured sausage enclosed in a natural casing which comprises placing a lightly moistened strip or ribbon on the outer surface of a nozzle of a sausage stuffing means, the strip or ribbon being imprinted with identifying indicia and formed of material which will inherently readily adhere when moistened and bind to the natural casing and being constituted such that it becomes invisible as a separate strip or ribbon with respect to the natural casing when the sausage is cured, threading a natural casing over the nozzle and strip while maintaining substantially the entire internal surface of the casing directly exposed to the external surface of the nozzle except that portion of said internal surface in the zone where the strip is located, stuffing the casing with meat, and processing the stuffed sausage.

2,326,083
TELEVISION APPARATUS
Karl R. Wendt, Audubon, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application March 1, 1941, Serial No. 381,228
8 Claims. (Cl. 178—7.1)



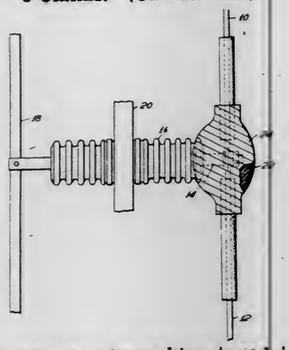
1. In a television system in which there is a signal including periodically recurring pulses of greater amplitude than the signal between said pulses, an electric discharge device having an electron emissive electrode and a second electrode associated therewith, a condenser connected for supplying said signal therethrough to one of said electrodes, and a resistor connected from the junction point of said condenser and said one electrode to the other of said electrodes and also connected in series with a source of biasing voltage, said biasing voltage having a polarity in the direction to cause current flow between said electrodes, the polarity of said pulses also being in the direction to cause current flow between said electrodes to charge said condenser, and the time constants for the charge and discharge circuits of said condenser being such that its direct current charge holds over a substantial amount between successive pulses.

2,326,084
WINDOW LOCK
Frederick J. Westrope, Pleasant Ridge, Mich., assignor, by mesne assignments, to F. L. Jacobs Co., a corporation of Michigan
Application September 4, 1941, Serial No. 409,453
1 Claim. (Cl. 292—226)



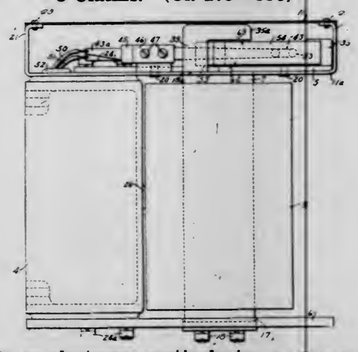
A window lock comprising a lock support, a bell crank bolt lever pivotally mounted thereon, said bell crank lever comprising spaced plate-like members connected by a pin at one end and by a connecting web at the opposite end, an operating lever having a bifurcated end engaging between said plate-like members operatively connected to said pin and operable to retract said bolt lever in response to the moving of said operating lever in the direction of opening the window, said bolt being positioned to swing upwardly and into said lock support, and a spring engaging said lock support and encircling the pivot of the bolt lever with its free end engaging said connecting web to normally urge said bolt outwardly and downwardly to a locking position.

2,326,085
FILLER
Carroll M. Williams, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application February 5, 1941, Serial No. 377,450
3 Claims. (Cl. 106—116)



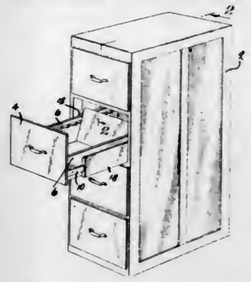
1. A filler for use in making taped joints between electrical conductors composed of an intimate mixture of 25% to 50% by volume of plaster-of-Paris and 75% to 50% by volume of putty, the putty being composed of clay earth and boiled linseed oil.

2,326,086
INDUCTOR SWITCH
Harold W. Williams, Nutley, Paul M. Martin, Jersey City, and Donald H. Baum, Ridgewood, N. J., assignors to Westinghouse Electric Elevator Company, Jersey City, N. J., a corporation of Illinois
Application July 26, 1940, Serial No. 347,650
3 Claims. (Cl. 175—336)



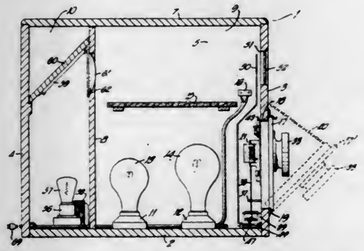
1. In an electromagnetic device, a core, a magnetizing coil disposed on said core, a pole plate of magnetizable material associated with the core, said pole plate having a central body portion and a restricted arm extending from the body portion, an armature-supporting lug extending outwardly from said body portion, a lockout member disposed on said restricted arm; a flux-conducting arm disposed on the armature-supporting lug and extending substantially parallel to the body of the plate and in the direction of the lockout member, an armature disposed between the flux conducting arm and the plate body, and a spring hinge pivotally mounting the armature on the armature-supporting lug with its free end disposed adjacent to the lockout member in position to be actuated by an inductor plate when the coil is energized.

2,326,087
DRAWER COMPRESSOR
Rudolph Willard, Ridgewood, N. J.
Application June 16, 1942, Serial No. 447,223
4 Claims. (Cl. 129—28)



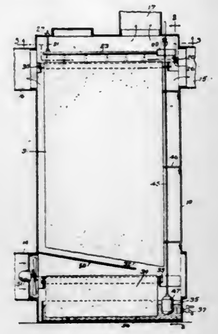
2. In a cabinet drawer, a compressor board within the drawer, wooden blocks secured to one face of the compressor board adjacent the drawer sidewalls, a groove extending lengthwise of the drawer in the inner face of each drawer sidewall, tongues carried by said blocks and extending into said grooves whereby the compressor board will be guided as it is moved lengthwise of the drawer, a dowel rod extending crosswise of said board and through said blocks into the grooves in the drawer sidewalls, and locking notches in the lower surface of each of said grooves into which the rod is adapted to move by gravity thereby to lock the compressor board in adjusted position.

2,326,088
APPARATUS FOR DETERMINING THE TENDENCY OF PAPER TO SHRINK
George S. Witham, Jr., Hudson Falls, N. Y., assignor to W. & L. E. Gurley, Troy, N. Y., a corporation of New York
Application December 12, 1940, Serial No. 369,782
8 Claims. (Cl. 73—51)



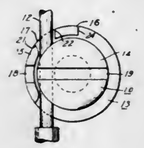
1. In a device of the character described for determining the shrinkage which may occur in paper, a first means for gripping a strip of paper in a zone thereof and for suspending said strip, a second means adapted to be fastened to said strip of paper in a zone thereof spaced from said first mentioned zone and to be supported by said strip, movable means adapted to be operatively associated with said second means for indicating the movement thereof, means for spacing said first and second gripping means a predetermined distance apart while the paper is operatively fastened therebetween, means for separating said last mentioned means and said second means whereby said paper will be freely suspended from said first means and for operatively associating said second means with said indicating means.

2,326,089
HUMIDIFIER
Richard C. Wittman, Emporium, Pa.
Application July 30, 1941, Serial No. 404,665
2 Claims. (Cl. 261—103)



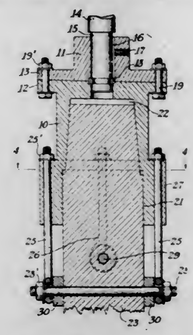
1. A humidifier comprising a casing, air inlet means for the casing adjacent the bottom thereof, air outlet means for the casing adjacent the top thereof, absorbent sheets positioned within the casing between said inlet and outlet means, means for distributing liquid to said sheets, a vessel within the casing on the bottom thereof to catch excess liquid, a second group of absorbent sheets within said casing adjacent said inlet means and depending into said vessel, a float in said vessel responsive to the rise and fall of liquid in said vessel, and valve means cooperating with said float to control the flow of liquid to said distributing means.

2,326,090
TERMINAL CONNECTOR
John M. Yadon, Oakland, Calif., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application February 13, 1942, Serial No. 430,723
2 Claims. (Cl. 173—259)



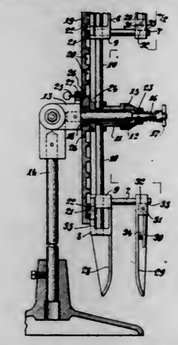
2. A terminal connector for securing a conductor comprising, a screw having a slotted head and a washer concentric with the screw, said washer being of a greater diameter than the head of the screw and having a pair of upturned flanges disposed outside the screw head, said flanges being spaced apart to receive the conductor therebetween, one of said flanges having a rounded edge and the other a relatively sharp edge for engaging the conductor, and one of said flanges having a slot therein disposed for alignment with the slot in the screw head whereby the washer may be rotated in either direction simultaneously with the screw by the same tool thereby causing said flanges to bend the conductor around the shank of the screw when rotated in one direction and unbend the conductor when rotated in the opposite direction.

2,326,091
STIRRING ASSEMBLY
John W. Zabriskie, Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application November 26, 1941, Serial No. 420,593
4 Claims. (Cl. 287—126)



2. A stirring assembly comprising a socket member provided with a recess having a conical portion and a square portion, a square stirrer fitting into the square portion of said recess and having one end formed conically and larger than the conical portion of said recess, and a plurality of longitudinally adjustable connections between said stirrer and said socket member and individually adjustable to vary the alignment of the axis of rotation of said stirrer with respect to said socket member.

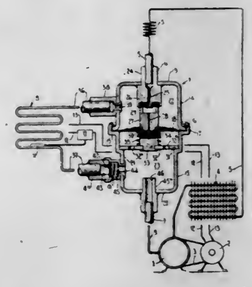
2,326,092
REEL
Alwyn E. Borton, South Orange, N. J., assignor to Associated Patentees, Inc., Ampere, N. J., a corporation of New Jersey
Application November 29, 1941, Serial No. 420,962
5 Claims. (Cl. 242—114)



1. A reel of the character disclosed, comprising in combination, a supporting spindle, a reel hub and a scroll cam rotatably mounted on said spindle in relatively rotatable relation and coil carrying arms connected with and radially adjustable in respect to said hub, said coil carrying arms being connected with said scroll cam, whereby said arms will be shifted radially inwardly or outwardly in respect to said hub upon relative rotary adjustment of said hub and scroll cam, said scroll cam being rotatably supported at the inner end of said reel hub, a thrust bearing at the back of said scroll cam in position to take endwise thrust on said reel hub against said scroll

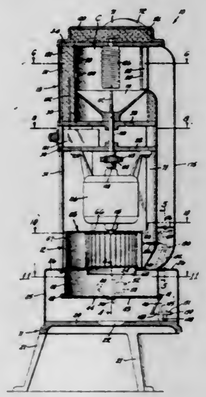
cam and adjustable brake means for applying endwise pressure against the outer end of said reel hub and for thereby effecting frictional coupling between said hub and scroll cam.

2,326,093
REFRIGERATING SYSTEM
Franklyn Y. Carter, Detroit, Mich., assignor to Detroit Lubricator Company, Detroit, Mich., a corporation of Michigan
Application May 29, 1940, Serial No. 337,886
12 Claims. (Cl. 62—8)



1. In a refrigerating system, an evaporator having an inlet and an outlet, means connecting said inlet and said outlet, means for supplying refrigerant to said connecting means, valve means in said connecting means and operable to direct the flow solely to said inlet or to said outlet, and means for heating said connecting means thereby to vaporize any liquid refrigerant therein.

2,326,094
APPARATUS FOR ROASTING COFFEE
Charles E. Cusack and Hans H. Berger, Los Angeles, Calif., assignors to The McCass Company, Los Angeles, Calif.
Application October 8, 1940, Serial No. 360,308
12 Claims. (Cl. 34—45)



4. In a coffee roaster, the combination of: a roasting chamber having inlet and outlet doors, means for heating said chamber to roast green coffee berries disposed therein, a thermostatic element in said chamber for controlling said heating means in accordance with the temperature of the berries in said roasting chamber, a motor, a rotary element driven by said motor in said chamber for circulating said berries during the roasting thereof, a switch for controlling said motor, means for opening and closing said inlet door, means operated by said means which opens and closes said inlet door for closing said outlet door in response to opening said inlet door, means operated by said means which opens and closes said inlet door for closing said switch and starting said motor when said inlet door is closed following the opening thereof, and control means responsive to said thermostat for opening said outlet door to permit the discharge of berries from said roasting chamber.

2,326,095
BROMINATED ACRYLONITRILE AND METHOD OF PREPARING THE SAME
James D. D'Ianni, Akron, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware
No Drawing. Application December 12, 1940, Serial No. 369,802
12 Claims. (Cl. 260—83)

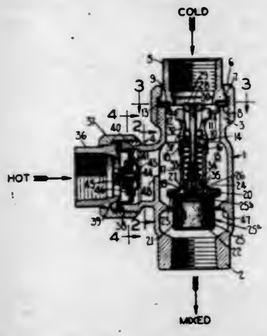
1. Compounds of the general formula

$$\begin{matrix} CH=C-CN \\ | \quad | \\ R \quad R' \end{matrix}$$

where R is selected from the group consisting of hydrogen and bromine and R' is selected from the group consisting of hydrogen, bromine, alkyl, aryl and aralkyl, one and only one bromine atom being present in the compound.

7. A polymerized mono bromoacrylonitrile.

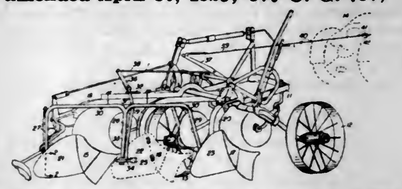
2,326,096
THERMOSTATIC CONTROL DEVICE
Earnest J. Dillman, Detroit, Mich., assignor to Detroit Lubricator Company, Detroit, Mich., a corporation of Michigan
Application May 8, 1941, Serial No. 392,478
9 Claims. (Cl. 236—12)



3. In a valve of the character described, a hollow casing having a chamber with an inlet and an outlet for flow of fluid, an annular shelf-like protuberance for directing the fluid flow laterally inward within said chamber and forming a throat positioned adjacent said outlet, valve means controlling flow of the fluid through and positioned in said inlet, a substantially cylindrical temperature sensitive power element positioned within said throat for the lateral impingement of fluid thereagainst from said protuberance, means operatively connecting said element to said valve means, and means for distributing in a laterally outward direction into said chamber the fluid admitted by said valve means.

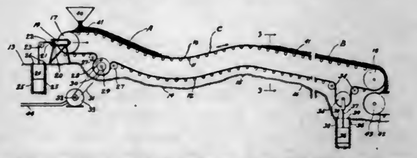
7. A fluid mixing valve comprising a casing having a chamber with an inlet and an outlet and with a lateral inlet intermediate said inlet and outlet, a tubular supporting member in said first-named inlet and having its inner periphery at its inlet end providing a valve seat and having through its side wall a lateral outlet into said chamber, a temperature responsive power element positioned in said chamber and having a casing secured to the chamber end of said supporting member, a poppet valve engageable with said seat, and a valve stem operatively connecting said element and said poppet valve and extending through said element casing and said supporting member.

2,326,097
HINGED MOLDBOARD PLOW
Glen M. Horner and Loy M. Naffziger, Pullman, Wash., assignors to Claude R. Wickard, as Secretary of Agriculture of the United States of America, and his successors in office
Application April 30, 1942, Serial No. 441,066
1 Claim. (Cl. 97—118)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



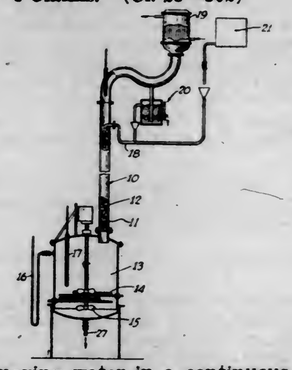
In combination with a vehicle and a plurality of plows supported on the vehicle, said plows having moldboards hinged thereto, a rigid fork having arms pivoted to the back of said moldboards for co-movement, an arm for moving said fork so as to swing said moldboards against soil pressure when the plows are in operation, a mechanism including an operating lever for actuating said arm, and means for holding said operating lever in different positions against the action of soil pressures on said moldboards.

2,326,098
CONVEYER SYSTEM
Elmer G. Kimmich, Akron, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware
Application August 2, 1940, Serial No. 350,029
5 Claims. (Cl. 198—208)



1. Conveying mechanism comprising an endless conveyer, roller means directly supporting a load-receiving run thereof with a substantially undulating surface in a longitudinal direction, head and tail pulleys over which the conveyer is trained, power driving-means for driving said conveyer, and separately acting conveyer tensioning means arranged at different sides of the driving means and between said driving means and the load-carrying run of said conveyer, one of said tensioning means acting to move the head pulley to tension the conveyer at that end, and the other of said tensioning means being arranged to tension the non-load-supporting portion of the conveyer near the tail end thereof when the load on said conveyer is such as to drive said conveyer, said motor acting as a brake in such case to retard the conveyer movement.

2,326,099
METHOD OF EVAPORATING SOLVENTS FROM SOLUTIONS
Vaman R. Kokatnur, Beechhurst, and Joseph J. Jacobs, Jr., Brooklyn, N. Y., assignors to Autoxygen, Inc., New York, N. Y., a corporation of New York
Application September 15, 1939, Serial No. 295,000
6 Claims. (Cl. 23—302)

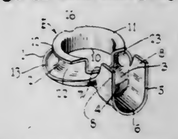


1. In removing water in a continuous process by evaporation from an aqueous solution of a non-volatile material that is a solid at ordinary temperatures and at temperatures of approximately 300° to 500° F. but undergoes coalescence causing adherence of its contacting particles when heated in the presence of water vapor to a temperature between approximately 300° and 500° F., the method which comprises passing the solution of the said material downwardly through a fractionating column adapted to effect intimate contact between a liquid and a vapor, simultaneously passing upwardly through the column the vapor of a liquid that is immiscible with the said solution, maintaining the solution and vapor thus brought into contact at the temperature of boiling of the mixture so that boiling and fractionating ensue, condensing the said vapors in part and returning the condensate so formed down the fractionating column so that the immiscible liquid is in intimate contact with the aqueous solution in the column, withdrawing from the upper part of the column the remaining fractionated mixture of vapors of water and the immiscible liquid, condensing the withdrawn mixture of vapors, separating the resulting condensate into an aqueous and a non-aqueous layer, returning the non-aqueous layer to the fractionating column, withdrawing from the lower part of the column a slurry containing the immiscible liquid and the non-volatile solid material in substantially completely dewatered condition, and separating the said dewatered material from the slurry.

2,326,100
WIRE TERMINAL
Frederick C. Lavarack, Montclair, N. J., and Edward M. Deems, Forest Hills, N. Y., assignors to Railroad Accessories Corporation, New York, N. Y., a corporation of New York
Application July 2, 1941, Serial No. 400,782
2 Claims. (Cl. 173—269)

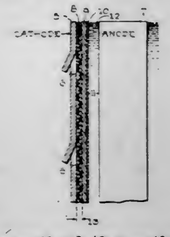
2. A single piece eyelet connector for an in-

sulation cover stranded electrical conducting wire, having the insulation removed for a relatively short distance at the extreme end, comprising, in combination: an electrical conducting body of general circular outline formed with a substantially semi-circular channel, a throat projecting radially therefrom, said throat including a right angle bend therein forming a shoulder adapted to abut the end of insulation of a bared conductor, said throat beyond the shoulder being formed into a U, the curve of which terminates at the shoulder and the legs of which extend along and substantially beyond the shoulder in a direction at a right angle to the general plane of the channel, said legs adapted to be wrapped from opposite sides about the insulation of a conductor forming substantially a closely fitting annulus thereabout, said throat on each side provided with a somewhat right angle wall extending from adjacent and merging with the extreme free end of a leg of the U in a shallow curve about the distance of the throat around to an outer edge of and merging with the chan-



nel serving as a resistor to bending of the throat in a plane substantially at a right angle to the general plane of the channel, said channel formed on its inner edge with an annulus extending at a right angle to the general plane of the channel, said annulus provided with a flange at its free end, said flange and annulus being continuous except for a portion adjacent the throat end of the channel where the flange and annulus are formed as though severed along a plane at a right angle to the general plane of the channel, said plane being positioned just forward of the inner surface of the channel adjacent the throat, said flange and channel at a point most remote from the throat being formed each with a notch adapted to allow protrusion of the ends of a conductor lying in the channel, said annulus and flange adapted to be squeezed down upon the end of a conductor divided and one portion passing around one side of the channel and the other portion around the other side and when entirely squeezed down having the edge of the flange lying entirely within the channel and its edge below the free edge of the channel.

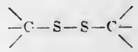
2,326,101
DIAPHRAGM FOR CHLORINE CELLS
William T. Nichols, near St. Albans, W. Va., assignor to Westvaco Chlorine Products Corporation, New York, N. Y., a corporation of Delaware
Application October 11, 1940, Serial No. 360,839
1 Claim. (Cl. 204—295)



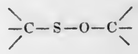
In a chlorine cell of the cathode-diaphragm-anode type adapted for electrolysis of salt solution to produce chlorine and caustic alkali, a substantially non-conductive diaphragm between said cathode and anode and disposed in close relation to the cathode, said diaphragm consisting of a layer of porous asbestos paper about 0.05 to 0.06 inch in thickness of the type relatively susceptible to disintegration when employed alone in said cell, said layer of paper being sufficiently thick to substantially restrict flow of cell liquor toward the cathode, and a second layer disposed on that surface of said relatively thick layer which faces the anode, and consisting of a layer of porous, high wet strength asbestos paper, about 0.01 inch in thickness and having a Mullen wet strength of at least 5, and of closer texture than the first layer of asbestos paper, the two layers having sufficient combined resistance to hydrostatic head of the cell liquor to regulate the flow in accordance with the rate of electrolysis.

2,326,102
DIESEL FUEL
Edwin M. Nygaard and John H. McCracken, Woodbury, and Francis M. Seger, Pitman, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application April 24, 1941, Serial No. 390,102
13 Claims. (Cl. 44—57)

1. An improved Diesel fuel comprising a hydrocarbon fuel oil and in admixture therewith a minor proportion of the oil-miscible product obtained by first reacting perchloromethylmercaptan with a compound selected from the group consisting of compounds having the general formula $R(XH)_n$ and $R(XM)_n$, wherein R is selected from the group consisting of alkyl, aryl, alkaryl and aralkyl radicals, X is selected from the group consisting of oxygen and sulfur, M is a metal, and n is a whole number, and then separating the oil-miscible reaction product from the unreacted and oil-immiscible components of the reaction mixture, said oil-miscible reaction product being characterized by the presence of a group selected from the group consisting of



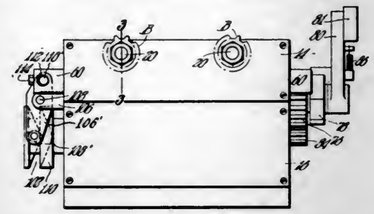
and



groups.

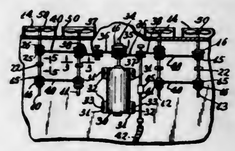
2,326,103
WORK INDEXING APPARATUS
Julian L. Perkins, West Springfield, Mass., assignor to Perkins Machine and Gear Company, West Springfield, Mass., a corporation of Massachusetts
Application December 4, 1941, Serial No. 421,657
3 Claims. (Cl. 90—56)

1. An apparatus for holding a gear blank and indexing the same for successive groove and tooth forming operations comprising in combination, a support, a rotatable arbor for supporting a gear blank to be cut with teeth forming grooves having grooves and teeth corresponding in number to the number of grooves and teeth to be formed on said blank, pivotally mounted members having parts receivable in grooves at opposite sides of said arbor, a movable member engageable with said grooves of the arbor to rotate the same, means for actuating said pivotally mounted members, means for actuating



said movable member and operative connections between said means.

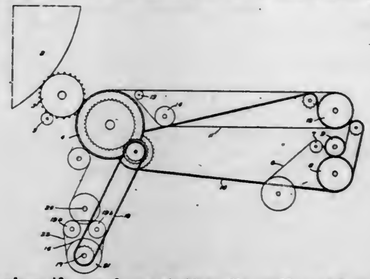
2,326,104
MULTIDRIVE AIRPLANE
Jerry Petrich, New York, N. Y.
Application March 26, 1941, Serial No. 385,245
6 Claims. (Cl. 244—65)



1. In an airplane having a propeller shaft slidably extended through an edge portion of its wing and a propeller mounted on the outer end of said shaft means slidably rotatively supporting said propeller shaft within said wing, manually operable means for extending said shaft varying degrees through the edge portion of said wing, and a ring mounted on the edge portion of said wing and encircling the outer ends of said propeller in the normal position of said propeller shaft, whereby said manual means may be operated to extend said propeller shaft and move said propeller out of said ring to a position beyond the leading edge of said ring.

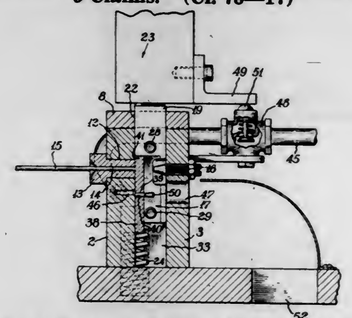
2,326,105
METHOD OF MAKING FLEXIBLE HARD SURFACE COVERINGS AND APPARATUS THEREFOR
Virgil Spencer, Lancaster, Pa., assignor to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania
Application August 1, 1940, Serial No. 349,333
17 Claims. (Cl. 154—24)

14. In combination with an inlaying machine having a die roll adapted to sever design elements from sheets of facing material and apply them to a backing, a web adapted to carry sheets of facing material to said die roll, means operating in synchronism with said die roll for continuously forming design indicia on said web to indicate the proper position of sheets thereon, a conveyor synchronized with said means for progressively moving said web to said die roll, and means for



conveying the web past the die roll, said means being synchronized with the die roll.

2,326,106
AUTOMATIC CUTOFF AND SWAGING MACHINE TOOL
Henry E. Van Ness and James MacBlane, Elmira, N. Y., assignors to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application September 17, 1942, Serial No. 458,754
5 Claims. (Cl. 78—17)



1. In a tool for cutting and swaging pins, a die holder, a cut-off die slidably mounted therein, a stop for positioning the work in the die, a pair of jaws mounted in the holder to slide with the cut-off die straddling the work and having a compressive cam connection with the holder, and a ram engaging the jaws to simultaneously actuate the cut-off die and close the jaws.

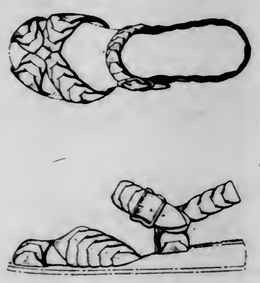
2,326,107
GUANIDINE AMMONIUM FERROCYANIDE
Urner Liddel, Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Original application May 28, 1940, Serial No. 337,629. Divided and this application October 17, 1941, Serial No. 415,427
1 Claim. (Cl. 260—439)

Diguanidine diammonium ferrocyanide.

DESIGNS

AUGUST 3, 1943

136,076
DESIGN FOR A SHOE
William Birenbaum, Haverhill, Mass.
Application October 13, 1941, Serial No. 103,750
Term of patent 3½ years



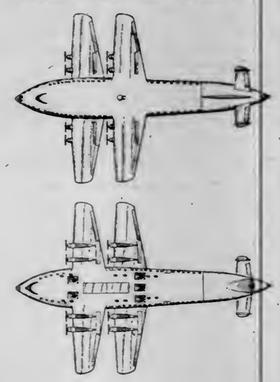
The ornamental design for a shoe, substantially as shown and described.

136,077
DESIGN FOR AN EARRING
Michael Chernow, New York, N. Y.
Application May 5, 1943, Serial No. 110,126
Term of patent 7 years

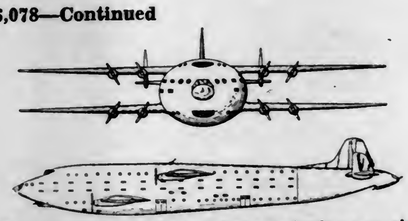


The ornamental design for an earring, substantially as shown.

136,078
DESIGN FOR AN AIRPLANE OR SIMILAR ARTICLE
George J. Novikoff, Baltimore, Md.
Application February 15, 1943, Serial No. 109,549
Term of patent 7 years



136,078—Continued



The ornamental design for an airplane or similar article, as shown.

136,079
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Alfred Philippe, Cranston, R. I.
Application June 17, 1943, Serial No. 110,473
Term of patent 3½ years



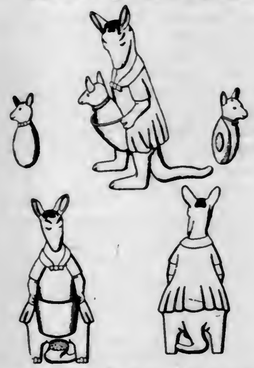
The ornamental design for a brooch or similar article, substantially as shown.

136,080
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Alfred Philippe, Cranston, R. I.
Application June 17, 1943, Serial No. 110,474
Term of patent 3½ years



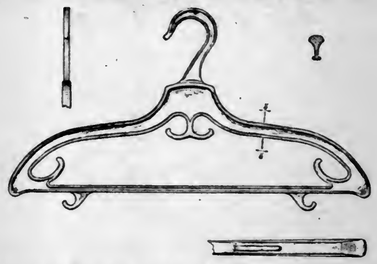
The ornamental design for a brooch or similar article, substantially as shown.

136,081
DESIGN FOR A COMBINED SALT AND PEPPER SHAKER
Howard L. Ross, New York, N. Y.
Application February 26, 1943, Serial No. 109,632
Term of patent 7 years



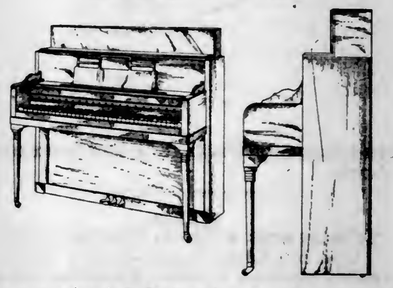
The ornamental design for a combined salt and pepper shaker, substantially as shown.

136,082
DESIGN FOR A GARMENT HANGER
Rudolph E. Schreiber, Chicago, Ill.
Application December 7, 1942, Serial No. 108,959
Term of patent 14 years



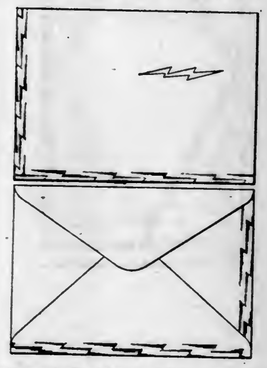
The ornamental design for a garment hanger, substantially as shown.

136,083
DESIGN FOR A PIANO
Louis Bromberg, Rockaway Park, N. Y.
Application May 29, 1943, Serial No. 110,325
Term of patent 14 years



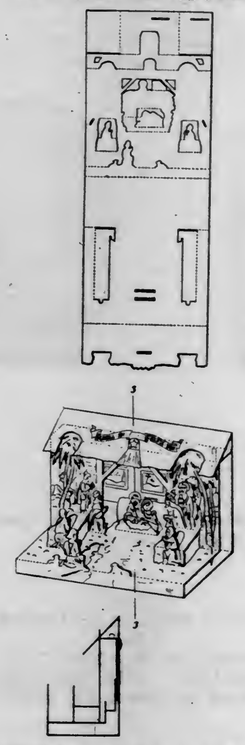
The ornamental design for a piano, substantially as shown.

136,084
DESIGN FOR AN ENVELOPE
Phelps Brown, Jr., Springfield, Mass., assignor to Southworth Company, West Springfield, Mass., a corporation of Massachusetts
Application February 8, 1943, Serial No. 109,506
Term of patent 14 years



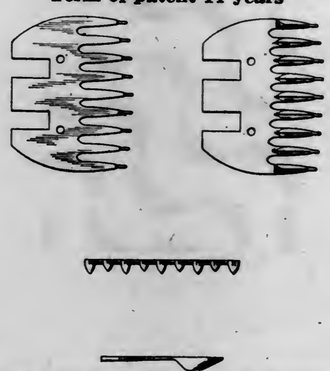
The ornamental design for an envelope, as shown.

136,085
DESIGN FOR A FOLDABLE PAPER CHRISTMAS CRIB
Erwin Herz, New York, N. Y., assignor to Samuel Lowe Company, New York, N. Y.
Application April 15, 1943, Serial No. 109,976
Term of patent 3½ years



The ornamental design for a foldable paper Christmas crib, as shown.

136,086
DESIGN FOR A SHEEP CLIPPER COMB
Richard L. Hudson, Worland, Wyo.
Application May 25, 1943, Serial No. 110,276
Term of patent 14 years



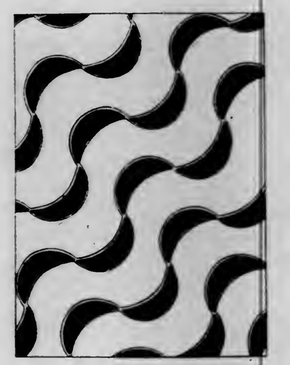
The ornamental design for a sheep clipper comb, as shown.

136,087
DESIGN FOR A MASK FOR DOLLS OR SIMILAR ARTICLE
Henry Levy, New York, N. Y.
Application October 22, 1942, Serial No. 108,592
Term of patent 3½ years



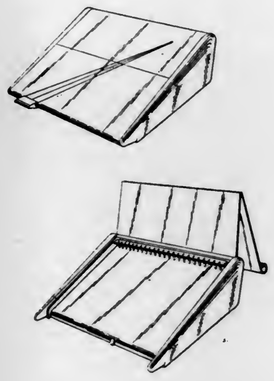
The ornamental design for a mask for dolls or similar article, as shown.

136,088
DESIGN FOR A WRAPPING PAPER OR THE LIKE
Oscar Lion, New York, N. Y.
Application June 7, 1943, Serial No. 110,396
Term of patent 3½ years



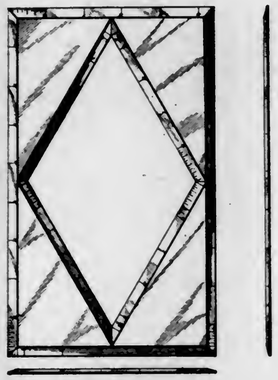
The ornamental design for a wrapping paper or the like, substantially as shown.

136,089
DESIGN FOR A CARD INDEX CABINET
Harry S. Ray, New York, N. Y., assignor to Visible Index Corp., New York, N. Y., a corporation of New York
Application April 10, 1943, Serial No. 109,946
Term of patent 14 years



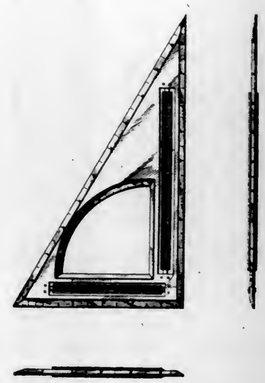
The ornamental design for a card index cabinet, as shown.

136,090
DESIGN FOR A PARALLEL TRIANGLE
Alphonso Edwin Tripp, Detroit, Mich.
Application May 21, 1943, Serial No. 110,251
Term of patent 7 years



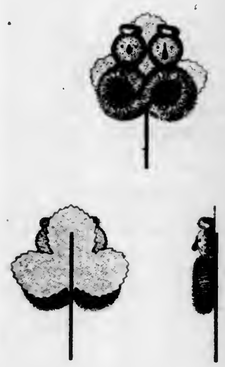
The ornamental design for a parallel triangle, as shown.

136,091
DESIGN FOR AN ISOMETRIC DRAFTER
Alphonso Edwin Tripp, Detroit, Mich.
Application May 21, 1943, Serial No. 110,252
Term of patent 7 years



The ornamental design for an isometric drafter, as shown.

136,092
DESIGN FOR A LAPEL ORNAMENT OR SIMILAR ARTICLE
Carl Wandt, New York, N. Y.
Application June 15, 1943, Serial No. 110,459
Term of patent 7 years



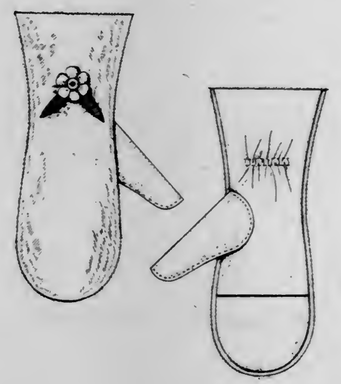
The ornamental design for a lapel ornament or similar article, substantially as shown.

136,093
DESIGN FOR A BILLFOLD
Herman Weinstein, New York, N. Y.
Application May 18, 1943, Serial No. 110,232
Term of patent 3½ years



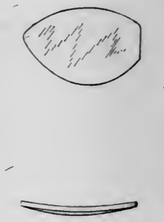
The ornamental design for a billfold, substantially as shown.

136,094
DESIGN FOR A MITTEN
Benjamin Chalk, New York, N. Y.
Application June 26, 1943, Serial No. 110,539
Term of patent 3½ years



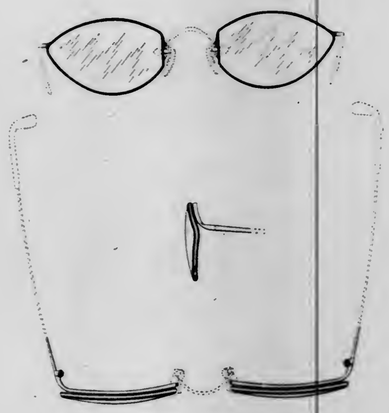
The ornamental design for a mitten, substantially as shown.

136,095
DESIGN FOR AN OPHTHALMIC-MOUNTING LENS
Austin B. Chaney, San Francisco, Calif., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application November 24, 1941, Serial No. 104,269
Term of patent 14 years



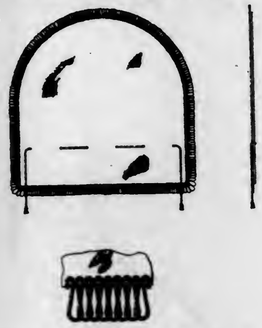
The ornamental design for an ophthalmic-mounting lens, substantially as shown and described.

136,096
DESIGN FOR A PAIR OF SPECTACLES
Austin B. Chaney, San Francisco, Calif., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application November 24, 1941, Serial No. 104,271
Term of patent 14 years



The ornamental design for a pair of spectacles, substantially as shown and described.

136,097
DESIGN FOR A HEAD SCARF
Edward Goodman, New York, N. Y.
Application May 8, 1943, Serial No. 110,157
Term of patent 3½ years



The ornamental design for a head scarf, as shown.

136,098
DESIGN FOR A DISPENSING CAP FOR CONTAINER
William Earl Hartman, Sr., Philadelphia, Pa., assignor to Pennsylvania Salt Manufacturing Company, Philadelphia, Pa.
Application January 14, 1943, Serial No. 109,262
Term of patent 14 years



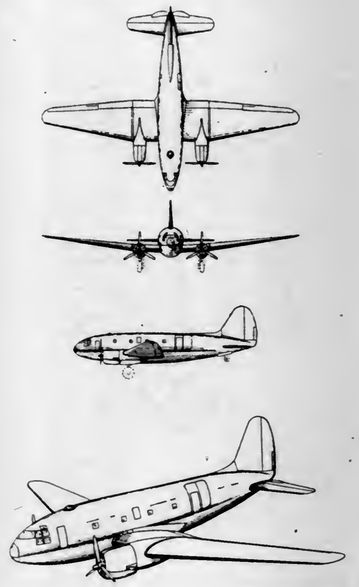
The ornamental design for a dispensing cap for container, substantially as shown.

136,099
DESIGN FOR A DIAL FOR AIRCRAFT ATTITUDE INDICATING DEVICE
Roger E. Lorenzen, Niles, Mich.
Application May 10, 1943, Serial No. 110,172
Term of patent 14 years



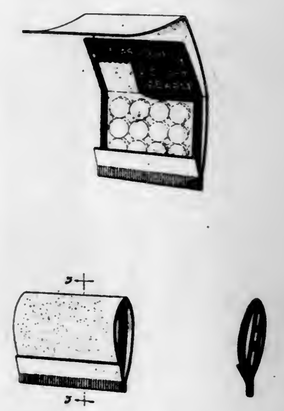
The ornamental design for a dial for an aircraft attitude indicating device, as shown.

136,100
DESIGN FOR AN AIRPLANE
George A. Page, Jr., Creve Coeur, Mo.
Application September 30, 1942, Serial No. 108,362
Term of patent 7 years



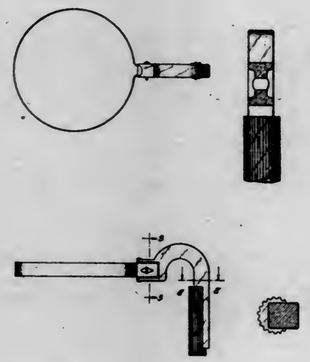
The ornamental design for an airplane as shown.

136,101
DESIGN FOR A FOLDING DISPENSING PACKAGE OR SIMILAR ARTICLE
Leroy L. Salfisberg, South Orange, N. J., assignor to Ivers-Lee Company, Newark, N. J., a corporation of Delaware
Application May 27, 1942, Serial No. 107,018
Term of patent 14 years



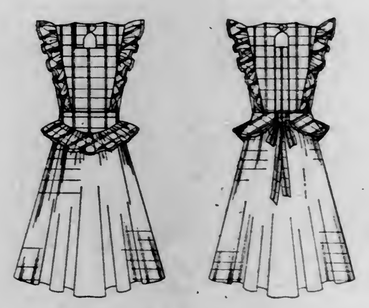
The ornamental design for a folding dispensing package or similar article, as shown and described.

136,102
DESIGN FOR A HANDLE FOR A COFFEEPOT OR THE LIKE
Karl Schneider, Chicago, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York
Application November 5, 1942, Serial No. 108,705
Term of patent 3½ years



The ornamental design for a handle for a coffeepot or the like, substantially as shown.

136,103
DESIGN FOR A DRESS
Abe H. Steinberg, New York, N. Y.
Application July 1, 1943, Serial No. 110,580
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

136,104
DESIGN FOR A NECKTIE OR SIMILAR ARTICLE
Maurice Urdang, New York, N. Y.
Application May 21, 1943, Serial No. 110,253
Term of patent 3½ years



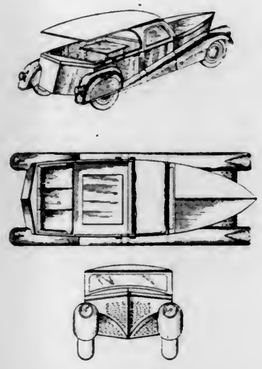
The ornamental design for a necktie or similar article, substantially as shown and described.

136,105
DESIGN FOR A NECKTIE OR SIMILAR ARTICLE
Maurice Urdang, New York, N. Y.
Application May 21, 1943, Serial No. 110,254
Term of patent 3½ years



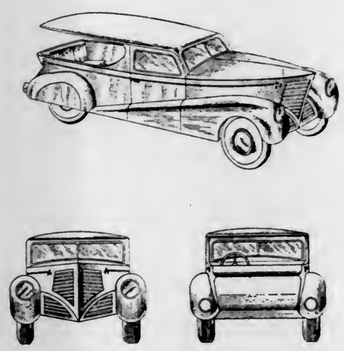
The ornamental design for a necktie or similar article, substantially as shown and described.

136,106
DESIGN FOR AN AUTOMOBILE
George Lim Chieng, New York, N. Y.
Application December 29, 1941, Serial No. 104,903
Term of patent 14 years



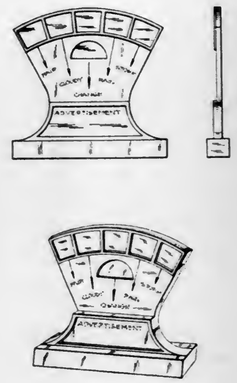
The ornamental design for an automobile, as shown and described.

136,107
DESIGN FOR AN AUTOMOBILE
George Lim Chieng, New York, N. Y.
Application January 6, 1942, Serial No. 105,041
Term of patent 14 years



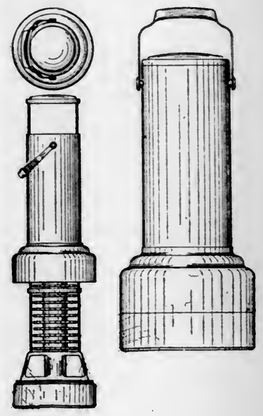
The ornamental design for an automobile, as shown and described.

136,108
DESIGN FOR A WEATHER INDICATING DEVICE
Clyde Casey, Detroit, Mich.
Application February 15, 1943, Serial No. 109,550
Term of patent 7 years



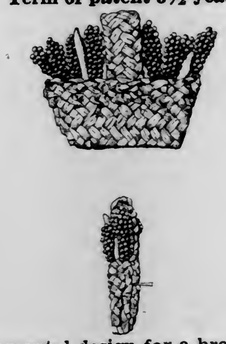
The ornamental design for a weather indicating device, as shown.

136,109
DESIGN FOR A THERMOELECTRIC GENERATOR
Howard J. Findley, Shaker Heights, Ohio, assignor to Eaton Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application April 3, 1943, Serial No. 109,897
Term of patent 7 years



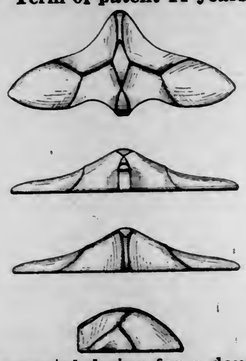
The ornamental design for a thermoelectric generator, substantially as shown.

136,110
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Erna Spielberg, New York, N. Y.
Application November 6, 1940, Serial No. 96,364
Term of patent 3½ years



The ornamental design for a brooch or similar article, as shown.

136,111
DESIGN FOR A DOUGHNUT OR THE LIKE
Rose Morow, Washington, D. C.
Application April 20, 1943, Serial No. 110,007
Term of patent 14 years



The ornamental design for a doughnut or the like, as shown.

136,112
DESIGN FOR A DRESS
Bonnie Cashin, New York, N. Y.
Application June 29, 1943, Serial No. 110,558
Term of patent 3½ years



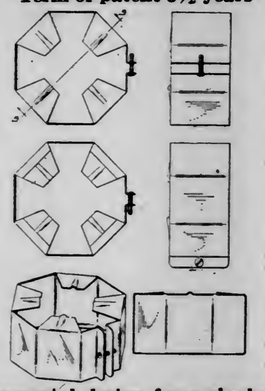
The ornamental design for a dress, substantially as shown.

136,113
DESIGN FOR A DRESS
George Constantine, New York, N. Y.
Application July 1, 1943, Serial No. 110,581
Term of patent 3½ years



The ornamental design for a dress, substantially as shown and described.

136,114
DESIGN FOR A SHADE HOLDER
Joseph J. W. Stephens, Los Angeles, Calif.
Application March 19, 1943, Serial No. 109,782
Term of patent 3½ years



The ornamental design for a shade holder, as shown.

136,115
DESIGN FOR A LADY'S SUIT
Samuel Kuznetz, New York, N. Y.
Application July 8, 1943, Serial No. 110,622
Term of patent 3½ years



The ornamental design for a lady's suit, substantially as shown.

136,116
DESIGN FOR A LADY'S SUIT
Samuel Kuznetz, New York, N. Y.
Application July 8, 1943, Serial No. 110,623
Term of patent 3½ years



The ornamental design for a lady's suit, substantially as shown.

136,117
DESIGN FOR A DRESS
Joset Walker, New York, N. Y.
Application July 12, 1943, Serial No. 110,654
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

136,118
DESIGN FOR A DRESS
Joset Walker, New York, N. Y.
Application July 12, 1943, Serial No. 110,655
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

136,119
DESIGN FOR A DRESS
Joset Walker, New York, N. Y.
Application July 12, 1943, Serial No. 110,656
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

136,120
DESIGN FOR A DRESS
Joset Walker, New York, N. Y.
Application July 12, 1943, Serial No. 110,657
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Airedale Worsted Mills, Inc., Boston, Mass. Piece goods. Serial No. 460,166; Aug. 3. Class 42.

Alumglow Cleansing Co. (See Nuccio, Salvatore.)

American Enka Corporation, Enka, N. C. Rayon yarns. Serial No. 460,248; Aug. 3. Class 43.

Anderson, Lillian, Manhasset, Long Island, N. Y. Hair preparations. Serial No. 458,750; Aug. 3. Class 6.

Asco Car Cleaner Company, Norfolk, Va. Cleaning preparation. Serial No. 460,593; Aug. 3. Class 4.

Atlantic Chemicals & Metals Co., Chicago, Ill. Chemical fluxes. Serial No. 459,683; Aug. 3. Class 6.

Attenborough, C. W., & Co. Limited, Leicester, England. Knitted and woven fabrics. Serial No. 458,453; Aug. 3. Class 42.

Bauer, Eddie, Seattle, Wash. Men's and women's shooting and fishing wear. Serial No. 460,017; Aug. 3. Class 39.

Baxter, Woodhouse & Taylor Limited, Stockport, England. Men's and boys' suits, coats, raincoats, etc. Serial No. 455,420; Aug. 3. Class 39.

Baxter, Woodhouse & Taylor Limited, Stockport, England. Men's and boys' suits, coats, raincoats, etc. Serial No. 455,422; Aug. 3. Class 39.

Belva Manufacturing Company. (See Douglas, Harry G.)

Betmar Hats, Inc., New York, N. Y. Ladies' and children's hats. Serial No. 460,171; Aug. 3. Class 39.

Bolton Leathers Limited, Bolton, England. Leather. Serial No. 460,889; Aug. 3. Class 1.

Bulkley, Weinberg & Tormey, Incorporated, New York, N. Y. Woolen and worsted fabrics. Serial No. 461,038; Aug. 3. Class 42.

Cain-Sloan Company, The, Nashville, Tenn. Children's coats and suits, women's, misses', and children's dresses, etc. Serial No. 458,524; Aug. 3. Class 39.

Calthorpe, M., & Company, Leeds, England. General tonic. Serial No. 459,620; Aug. 3. Class 6.

Casuals, Inc., Los Angeles, Calif. Men's shoes. Serial No. 454,798; Aug. 3. Class 39.

Catanzaro, Christina. (See Nuccio, Salvatore, assignor.)

Clark & Clark, Camden, N. J. Tablets containing thyroid. Serial No. 459,165; Aug. 3. Class 6.

Clark & Clark, Camden, N. J. Sulfate-containing tablets. Serial No. 459,166; Aug. 3. Class 6.

Corrosion Control Corporation, Norwalk, Conn. Lacquer coatings for plastic sheeting, etc. Serial No. 460,497; Aug. 3. Class 16.

Coughlin, G. N., Co., Orange, N. J. Chemical powder. Serial No. 457,522; Aug. 3. Class 6.

Crest Specialty Company, Chicago, Ill. Collar stays made of semi-precious metal. Serial No. 460,443; Aug. 3. Class 28.

Crossett Paper Mills, Crossett, Ark. Sulphate paper. Serial No. 455,798; Aug. 3. Class 37.

Davis & Catterall, New York, N. Y. Caps and head coverings. Serial No. 460,173; Aug. 3. Class 39.

Dell Publishing Company, Inc., New York, N. Y. Cook books. Serial No. 461,078; Aug. 3. Class 38.

Douglas, Harry G., doing business as Belva Manufacturing Company, St. Louis, Mo. Hair pomade. Serial No. 441,239; Aug. 3. Class 6.

Evans Products Company, Detroit, Mich. Unitary freight or load holding or bracing equipment for freight cars or the like. Serial No. 452,922; Aug. 3. Class 23.

Expert Bedding Co., Chicago, Ill. Pillow casings, mattress covers, mattress pads, etc. Serial No. 460,793; Aug. 3. Class 42.

Farval Corporation, The, Cleveland, Ohio. Lubricating systems and parts thereof. Serial No. 461,094; Aug. 3. Class 23.

Federal Telephone and Radio Corporation, New York, N. Y. Electrical rectifying apparatus. Serial No. 459,302; Aug. 3. Class 21.

Feinberg, Elliott H., New York, N. Y. Shoes and overshoes. Serial No. 430,226; Aug. 3. Class 39.

Fidea Watch Co., New York, N. Y. Watches. Serial No. 460,567; Aug. 3. Class 28.

Finklestein, Max L., trustee in reorganization of the estate of F. A. Ringler Company, debtor, New York, N. Y. Photo-engraving, electro-typing, and embossing plates. Serial No. 455,428; Aug. 3. Class 50.

Friedman, Nachman, Brooklyn, N. Y. Ladies' and misses' blouses, dresses, vestees, etc. Serial No. 460,797; Aug. 3. Class 39.

Gallowhur Chemical Corporation, Windsor, Vt. Distillation apparatus. Serial No. 461,315; Aug. 3. Class 23.

General Dyestuff Corporation, New York, N. Y. Dyestuffs and industrial chemicals. Serial Nos. 459,860–2; Aug. 3. Class 6.

General Dyestuff Corporation, New York, N. Y. Synthetic detergents and scouring agents. Serial No. 459,867; Aug. 3. Class 4.

General Dyestuff Corporation, New York, N. Y. Dyestuffs and industrial chemicals. Serial Nos. 459,868–70; Aug. 3. Class 6.

General Dyestuff Corporation, New York, N. Y. Dyestuffs and industrial chemicals. Serial Nos. 460,026–7; Aug. 3. Class 6.

General Dyestuff Corporation, New York, N. Y. Dyestuffs and industrial chemicals. Serial No. 460,150; Aug. 3. Class 6.

General Dyestuff Corporation, New York, N. Y. Industrial chemicals. Serial No. 460,599; Aug. 3. Class 6.

General Electric Company, Schenectady, N. Y. Starter for thermionic tubular electric lamps. Serial No. 460,992; Aug. 3. Class 21.

Gerli, Emanuel J, New York, N. Y. Ladies', misses', and children's skirts, boleros, wrap around skirts. Serial No. 461,111; Aug. 3. Class 39.

Godette Products Corporation, Newark, N. J. Ornamental hair, shoe, and dress bows, ribbons, shoe and dress buckles, shoelaces, etc. Serial No. 450,333; Aug. 3. Class 40.

Graf, John, Company, Milwaukee, Wis. Root beer and nonalcoholic, noncereal, maltless beverages. Serial No. 460,523; Aug. 3. Class 45.

Greenberg, Theresa, Brooklyn, N. Y. Ornamental jewelry. Serial No. 460,799; Aug. 3. Class 28.

Hertel, John A., Co., The, Chicago, Ill. Bibles. Serial No. 460,296; Aug. 3. Class 38.

Hirsch, G., Sons, Incorporated. Luminescent coatings. Serial No. 453,082; Aug. 3. Class 50.

Hoffmann-La Roche, Inc., Nutley, N. J. Nutritive tonic. Serial No. 460,700; Aug. 3. Class 6.

Inerto Company, The, San Francisco, Calif. Processed mineral used as a stabilizer, clarifier, or chill proofer. Serial No. 460,463; Aug. 3. Class 50.

Inter-State Fruit & Vegetable Co., La Feria, Tex. Fresh citrus fruits. Serial No. 458,397; Aug. 3. Class 46.

Italian Vineyard Company and also trading as San Secondo Winery, Los Angeles, Calif. Wines. Serial No. 459,078; Aug. 3. Class 47.

Jeanite Corporation, The, New York, N. Y. Liquid hydrocarbons. Serial No. 456,186; Aug. 3. Class 15.

Kalart Company, Inc., The, Stamford, Conn. Transparent mirrors for attachments for cameras. Serial No. 461,050; Aug. 3. Class 26.

Kinetic Chemicals, Inc., Wilmington, Del. Monochlorodifluoromethane. Serial No. 461,142; Aug. 3. Class 6.

La France Undergarments, New York, N. Y. Nightgowns, slips, panties, etc. Serial No. 460,899; Aug. 3. Class 39.

Luft, George W., Company, Inc., The, New York and Long Island City, N. Y. Face powder. Serial No. 461,051; Aug. 3. Class 6.

Mallea, Rafael Martinez, Havana, Cuba. Saffron, paprika, annato, etc. Serial No. 458,894; Aug. 3. Class 46.

Max Ams, Inc., New York, N. Y. Fruit preserves, jellies, honey, etc. Serial No. 461,032; Aug. 3. Class 46.

Max Ams, Inc., New York, N. Y. Pie filling in powdered form. Serial No. 461,216; Aug. 3. Class 46.

Mid-West Shoe Supplies Company, St. Louis, Mo. Adhesive cement. Serial No. 461,147; Aug. 3. Class 5.

Mine Safety Appliances Company, Pittsburgh, Pa. Air purifying compositions. Serial No. 441,829; Aug. 3. Class 6.

Mine Safety Appliance Company, Pittsburgh, Pa. Breathing apparatus for affording respiratory protection in unbreathable atmospheres. Serial No. 444,510; Aug. 3. Class 44.

Montmarquet, Francis H., doing business as The O-C Manufacturing Co., Little Falls, N. J. Jock straps, suspensories, and athletic supporters. Serial No. 461,259; Aug. 3. Class 44.

Morse Bros. Machinery Company, Denver, Colo. Ore milling machinery. Serial No. 460,934; Aug. 3. Class 23.

National Products Corporation, Orlando, Fla. Chemical compound. Serial No. 460,876; Aug. 3. Class 6.

Negbaur, H., & Co., New York, N. Y. Smoker's pipes. Serial No. 461,003; Aug. 3. Class 8.

New Jersey Machine Corporation, Hoboken, N. J. Electric motor driven air pumps. Serial No. 454,116; Aug. 3. Class 21.

Nuccio, Salvatore, doing business as Alumglow Cleansing Co., assignor to Christina Catanzaro, Jackson Heights, New York, N. Y. Aluminum cleaning preparation. Serial No. 458,788; Aug. 3. Class 4.

O-C Manufacturing Co. (See Montmarquet, Francis H.)

Pal-So-Dene Products Laboratories. (See Schad, J. Lawrence.)

Parfums Corday, Inc. New York, N. Y. Leg make-up. Serial No. 460,766; Aug. 3. Class 6.

Penneys, Samuel R., doing business as Sa-Ro Hosiery Compan,y Philadelphia, Pa. Hosiery. Serial No. 460,767; Aug. 3. Class 39.
Pennsylvania Industrial Chemical Corporation, Clairton, Pa. Hydrocarbon resins. Serial No. 458,815; Aug. 3. Class 1.
Perfumeria Dryalis S. A., Habana, Cuba. Toilet powder. toilet talc, perfume essences, etc. Serial No. 459,633; Aug. 3. Class 6.
Picardy Mills, Inc., Brooklyn, N. Y. Gloves. Serial No. 460,508; Aug. 3. Class 39.
Pinaud, Incorporated, New York, N. Y. Sachet. Serial No. 460,390; Aug. 3. Class 6.
Ringler, F. A., Company. (See Finkelstein, Max L., trustee.)
Royal Worcester Corset Co., Worcester, Mass. Corsets, girdles, brassières, etc., women's, misses' and children's wearing apparel. Serial No. 460,198; Aug. 3. Class 39.
Safeway Stores, Inc., of Nevada, also doing business as Table Products Company, Reno, Nev., and Oakland, Calif. Food flavoring extracts. Serial No. 457,318; Aug. 3. Class 46.
San Secondo Winery. (See Italian Vineyard Company.)
Sa-Ro Hosiery Company. (See Penneys, Samuel R.)
Schad, J. Lawrence, doing business as Pal-So-Dene Products Laboratories, Portland, Oreg. Foot lotion, cough and cold preparations. Serial No. 459,348; Aug. 3. Class 6.
Selden Worsted Mills, Methun, Mass. Piece goods. Serial No. 459,912; Aug. 3. Class 42.
Shoe Form Co., Inc., Auburn, N. Y. Shoe forms. Serial No. 460,969; Aug. 3. Class 50.
Southern Airways, Inc., Atlanta, Ga. Publication or bulletin. Serial No. 461,230; Aug. 3. Class 38.
Southern Mills, Incorporated, Atlanta, Ga. Cotton cover cloth. Serial No. 458,344; Aug. 3. Class 42.
Souza Bros. Packing Co., Santa Maria, Calif. Fresh vegetables. Serial No. 461,270; Aug. 3. Class 46.
Speed-Jack Company, Belleville, N. J. Adjustable transmission gearing. Serial No. 458,552; Aug. 3. Class 23.
Squibb, E. R., & Sons, New York, N. Y. Growth-promoting hormonal preparations. Serial No. 453,425; Aug. 3. Class 6.
Standard Merchandising Corporation, New York, N. Y. Jewelry. Serial No. 461,066; Aug. 3. Class 28.
Standard Varnish Works, Staten Island, N. Y. Paint enamels, dry, ready-mixed paste paints, etc. Serial No. 460,457; Aug. 3. Class 16.
Stein Uniform Company, Baltimore, Md. Nurses' uniforms and capes. Serial No. 458,796; Aug. 3. Class 39.
Stirn, L. & E., Inc., New York, N. Y. Dress fabrics. Serial No. 460,721; Aug. 3. Class 42.
Table Products Company. (See Safeway Stores, Inc., of Nevada.)
Tone Laboratories, Inc., New York, N. Y. Leg tinting or make-up cosmetic. Serial Nos. 460,483–4; Aug. 3. Class 6.
Toohill, Edward M., Brooklyn, N. Y. Piece goods. Serial No. 457,518; Aug. 3. Class 42.
Traver Corporation, Chicago, Ill. Decorative paper wrappers. Serial No. 451,946; Aug. 3. Class 37.
Union Bag & Paper Corporation, New York, N. Y. Tall oil and phytosterols. Serial No. 460,038; Aug. 3. Class 6.
United States Industrial Diamond Corporation, New York, N. Y. Tools with preshaped diamond cutting points or edges. Serial No. 461,181; Aug. 3. Class 23.
United States Quarry Tile Company, Canton and East Sparta, Ohio, and Parkersburg, W. Va. Electrical insulators. Serial No. 457,884; Aug. 3. Class 21.
Van Pelt & Brown, Inc., Richmond, Va. Water dispersable ointment. Serial No. 461,156; Aug. 3. Class 6.
Wood Commodities Corp., New York, N. Y. Series of toy military miniatures. Serial No. 460,015; Aug. 3. Class 22
Zarkin Machine Co., Inc., New York, N. Y. Plate graining machines for graining zinc, aluminum and glass plates. Serial No. 460,860; Aug. 3. Class 23.

LIST OF REGISTRANTS OF TRADE-MARKS

Aktiebolaget Mölnbacka-Trysil, Forshaga, Swedan. Craft paper. 169,364; renewed June 12, 1943.
Albers Bros. Milling Co., Seattle, Wash., by change of name to Albers Milling Company, Milwaukee, Wis. Breakfast cereal food. 171,265; renewed July 31, 1943.
Albers Milling Company. (See Albers Bros. Milling Co., assignor.)
Alken-Murray Corporation, New York, N. Y. Chemical mixture for lowering the burning temperature of soot deposits. 402,663; Aug. 3. Class 6.
Allen & Sandilands, Porterville, Calif. Fresh citrus fruits. 402,617; Aug. 3; Serial No. 459,250; published May 25, 1943. Class 46.
American Art Alloys, Inc., Kokomo, Ind. Table hollow ware. 402,591; Aug. 3; Serial No. 458,136; published May 25, 1943. Class 13.
American Brake Shoe and Foundry Company, The, New York, N. Y. Reenforcing backs for brake shoes. 402,586–7; Aug. 3; Serial Nos. 457,964–5; published May 25, 1943. Class 19.
American Chicle Company, Long Island City, N. Y. Chewing gum. 173,489; renewed Sept. 25, 1943.
American Cyanamid & Chemical Corporation, New York, N. Y. Sizing preparation. 402,563; Aug. 3; Serial No. 448,749; published Dec. 8, 1942. Class 6.
American Products Company, The. (See Mills Brothers Company, The.)
American Radio Relay League, Inc., The, Hartford, to The American Radio Relay League, Inc., West Hartford, Conn. Booklets or pamphlets. 175,771; renewed Nov. 13, 1943.
American Seitz Filter Corporation, Paterson, N. J. Filter sheets. 402,642; Aug. 3. Class 31.
American Seitz Filter Corporation, Paterson, N. J. Filtering apparatus. 402,651; Aug. 3. Class 31.
Ames Baldwin Wyoming Co. (See Baldwin Tool Works, assignor.)
Aronberg, Earl, doing bnsiness as Ironited Vitamins Products, Chicago, Ill. Vitamin and iron tables. 402,652; Aug. 3. Class 6.
Automatic Electric Appliance Co., The. (See Purpura, August C.)
Avon Products, Inc., New York, N. Y. Perfume, toilet water, powder and rouge compacts, etc. 402,664; Aug. 3. Class 6.
Baldwin Tool Works, assignor, by mesne assignments, to Ames Baldwin Wyoming Co., Parkersburg, W. Va. Shovels, spades, scoops, etc. 173,433; renewed Sept. 25, 1943.
Bamberger, L., & Co., Newark, N. J. Lunch kits, picnic baskets, mothproof bags, etc. 402,611; Aug. 3; Serial No. 459,145; published May 25, 1943. Class 2.
Battery Life-O-Matic Products. (See Rowlett, V. H.)
Beasley, Virgil E., doing business as The V. E. Beasley Mfg. Co., San Antonio, Tex. Preparation for the treatment for loose dandruff. 402,618; Aug. 3; Serial No. 459,253; published May 25, 1943. Class 6.
Beattie Products, Inc., New York, N. Y. Pyrophoric, catalytic, and pilot cigarette lighters. 402,605; Aug. 3; Serial No. 458,929; published May 25, 1943. Class 34.
Beauty Aids, Inc., Chicago, Ill. Hair removers. 402,662; Aug. 3. Class 44.
Bishop & Company, Los Angeles, Calif., assignor to National Biscuit Company, New York, N. Y. Biscuits. 170,663; renewed July 17, 1943.
Bishop & Company, Los Angeles, Calif., assignor to National Biscuit Company, New York, N. Y. Cookies. 176,679; renewed Nov. 27, 1943.
Bishop & Company, Los Angeles, Calif., assignor to National Biscuit Company, New York, N. Y. Cookies. 176,698; renewed Nov. 27, 1943.
Borgfeldt, Geo., Corporation, New York, N. Y. Toy dishes. 402,630; Aug. 3; Serial No. 459,506; published May 25, 1943. Class 22.
Bradas & Gheens. (See Gheens, C. Edwin.)
Briggs, L. S., Inc., Washington, D. C. Sausage. 402,639; Aug. 3. Class 46.
Buettner, T., & Co., Chicago, Ill. Art needlework. 170,645; renewed July 17, 1943.
Buettner, T., & Co., Chicago, Ill. Pure linen in the piece and linen table covers and napkins. 171,482; renewed Aug. 7, 1943.
Buffett & Son, Omaha, Nebr. Coffee. 402,649; Aug. 3. Class 46.
Bunte Brothers, Chicago, Ill. Candy. 171,320; renewed Aug. 7, 1943.
Bunte Brothers, Chicago, Ill. Candy. 171,457; renewed Aug. 7, 1943.
Burroughs Wellcome & Co. (U. S. A.) Inc., New York, N. Y. Acetophenetidin; acetylcholine bromide; acetylsalicyclic acid; etc. 402,576; Aug. 3; Serial No. 456,303; published May 25, 1943. Class 6.
California Central Creameries, assignor to Golden State Company, Ltd., San Francisco, Calif. Compound in powder form. 176,407; renewed Nov. 27, 1943.
California Prune and Apricot Growers Association. (See Harlan, O. A., & Co., assignor.)
Camden County Beverage Company, Camden, N. J. Beer. 402,624; Aug. 3; Serial No. 459,296; published May 11, 1943. Class 48.
Camhi, Raphael, South Norwalk, Conn. Women's and children's skirts. 402,645; Aug. 3. Class 39.
Caron Corporation. (See Daltroff, E., & Cie., assignor.)
Causse Manufacturing & Importing Co., Bound Brook, N. J., and New York, N. Y., to Causse Manufacturing & Importing Co., Bound Brook and Jersey City, N. J. Pineapple glacé, glacé assorted fruits, and crystallized ginger. 173,762; renewed Oct. 2, 1943.
Celotex Corporation, The, Chicago, Ill. Building blocks. 402,564; Aug. 3; Serial No. 449,639; published May 25, 1943. Class 12.
Chapman, Samuel, Inc., New York, N. Y. Ladies' and misses' wraps, coats, suits and dresses. 402,648; Aug. 3. Class 39.

Chrysler Corporation, Highland Park, Mich., and Dayton, Ohio. Ventilating prefabricated duct sections, panels for forming ducts, duct connectors, etc. 402,570; Aug. 3; Serial No. 453,888; published May 25, 1943. Class 34.
Colony Bags, Inc., New York, N. Y. Ladies' handbags. 402,593; Aug. 3; Serial No. 458,527; published May 25, 1943. Class 3.
Combustion Control Corporation, Cambridge, Mass. Electric apparatus. 402,580; Aug. 3; Serial No. 457,198; published May 25, 1943. Class 21.
Conley & Stone, Atlanta, Ga. Paper weight souvenir. 402,606; Aug. 3; Serial No. 458,933; published May 25, 1943. Class 50.
Consolidated Royal Chemical Corporation. (See Krank, Alfred J., assignor.)
Consolidated Royal Chemical Corporation. (See Krank, A. J., Mfg. Co., assignor.)
County Perfumery Company, Inc., The, Bloomfield, N. J. Brilliantine. 402,575; Aug. 3; Serial No. 455,908; published May 18, 1943. Class 6.
Cowley Products. (See Cowley, Walter C.)
Cowley, Walter C., doing business as Cowley Products, Marlow, Okla. Preparation for the extermination of rats. 402,640; Aug. 3. Class 6.
Daltroff, E., & Cie., doing business as Parfumerie Caron, Paris, France, assignor to Caron Corporation, New York, N. Y. Perfume, toilet water, rouges, etc. 170,278; renewed July 10, 1943.
Daltroff, E., & Cie., doing business as Parfumerie Caron, assignor to Caron Corporation, New York, N. Y. Perfume, toilet water, rouges, etc. 171,100; renewed July 31, 1943.
Davey Tree Expert Company, The, Kent, Ohio. Wood preserving paints and shellac. 176,399; renewed Nov. 27, 1943.
Davey Tree Expert Company, The, Kent, Ohio. Wood-preserving paints and shellac. 176,549; renewed Nov. 27, 1943.
Davidson Manufacturing Corporation, Chicago, Ill. Counter etch used in removing oxides and foreign matter from the grained surfaces of ligho. 402,632; Aug. 3; Serial No. 459,730; published May 25, 1943. Class 6.
Davidson Manufacturing Corporation, Chicago, Ill. Solution used for making a lithographic plate photo-sensitive. 402,633; Aug. 3; Serial No. 459,731; published May 25, 1943. Class 6.
Davidson Manufacturing Corporation, Chicago, Ill. Solution used to clean blankets and rollers used in printing machines. 402,634; Aug. 3; Serial No. 459,732; published May 25, 1943. Class 6.
Davidson Manufacturing Corporation, Chicago, Ill. Preparation used to preserve lithographic plates. 402,635; Aug. 3; Serial No. 459,733; published May 25, 1943. Class 6.
Davidson Manufacturing Corporation, Chicago, Ill. Fountain etches employed in the lithographic process. 402,636; Aug. 3; Serial No. 459,734; published May 25, 1943. Class 6.
Dermetics, Inc., Seattle, Wash. Cosmetic applicators and rouge applicators. 402,565; Aug. 3; Serial No. 450,177; published May 18, 1943. Class 6.
Di-Noc-Cramer Corporation, Cleveland, Ohio. Metallic sheets having a light sensitive coating thereon. 402,597–9; Aug. 3; Serial Nos. 458,752–4; published May 25, 1943. Class 26.
Drewrys Limited U. S. A., Inc., South Bend, Ind. Beer, ale and packages of bottled beer and ale. 402,643; Aug. 3. Class 48.
Dunhill, Alfred, Limited, London, England. Tobacco pipes, cigar holders and cigarette holders. 402,578; Aug. 3; Serial No. 456,866; published May 25, 1943. Class 8.
Dunhill, Alfred, Limited, London, England. Tobacco, cigars and cigarettes. 402,579; Aug. 3; Serial No. 456,867; published May 25. 1943. Class 17.
Dunlap & Co., New York, N. Y., assignor, by mesne assignments, to Hat Corporation of America, Norwalk, Conn. Hats. 176,834; renewed Dec. 4, 1943.
Dunlevy-Franklin Company. (See Dunlevy Packing Company, assignor.)
Dunlevy Packing Company, Pittsburgh, Pa., assignor to Dunlevy-Franklin Company, assignor, by mesne assignments, to Hygrade Food Products Corporation, New York, N. Y. Butter, oleomargarine, eggs in the shell, etc. 177,138; renewed Dec. 11, 1943.
Dunlevy Packing Company, Pittsburgh, Pa., assignor to Dunlevy-Franklin Company, assignor, by mense assignments, to Hygrade Foods Corporation, New York, N. Y. Butter, oleomargarine, eggs in the shell, etc. 177,143; renewed Dec. 11, 1943.
Durkee Marine Products Corporation New York and Grasmere, Staten Island, N. Y. Calipers, compasses, dividers, etc. 402,619; Aug. 3; Serial No. 459,262; published May 25, 1943. Class 26.
Durkee Marine Products Corporation, New York and Grasmere, Staten Island, N. Y. Combination ventilators, deck plates, hood ventilators, porthole air scoops, etc. 402,620; Aug. 3; Serial No. 459,263; published May 25, 1943. Class 34.
Durocher, Lee Andrew, doing business as Norco Refrigerator & Radio Sales, Norco, La. Electrically operated time controlled indicator. 402,568; Aug. 3; Serial No. 451,490; published May 25. 1943. Class 26.
Edgewood Farms, Inc., Ridgefield, N. J. Grass seeds. 402,615; Aug. 3; Serial No. 459,217; published May 25, 1943. Class 1.
Eskimo Pie Corporation, Bloomfield, N. J. Ice cream. 402,566; Aug. 3; Serial No. 451,105; published May 25, 1943. Class 46.
Evans-Winter-Hebb, Inc., Detroit, Mich. Electrical equipment. 402,572; Aug. 3; Serial No. 455,204; published May 25, 1943. Class 21.
Farnsworth Mills, Inc., Central Village, Conn., to Farnsworth Mills, Inc., New York, N. Y. Woolen piece goods. 174,203; renewed Oct. 9, 1943.
Fastener Corporation, Chicago, Ill. Hand operated tools. 402,567; Aug. 3; Serial No. 451,230; published May 25, 1943. Class 37.
Favorite Stove and Range Company, The, to Favorite Stove Company, Piqua, Ohio, successor. Cooking and heating stoves and ranges. 23,886; re-renewed Nov. 28, 1943.
Favorite Stove Company. (See Favorite Stove and Range Company, The.)
Flash Chemical Company, Cambridge, Mass. Toilet soap. 173,884; renewed Oct. 2, 1943.
Fear, Ernest D., Kansas City, Mo. Mixture comprising dextrose, lactose, carotene, etc. 402,612; Aug. 3; Serial No. 459,171; published May 18, 1943. Class 6.
Firestone Tire & Rubber Company, The, Akron, Ohio. Latex cups, picnic jugs, vacuum bottles, etc. 402,588; Aug 3; Serial No. 458,068; published May 25, 1943. Class 2.
Fisher Scientific Company, Pittsburgh, Pa. Transparent plastic boxes. 402,623; Aug. 3; Serial No. 459,284; published May 25, 1943. Class 2.
Gem Products, Inc., Milwaukee, Wis. Shoe polishes and cleaners. 402,594; Aug. 3; Serial No. 458,534; published May 25, 1943. Class 4.
General Die Stamping Tool Company, New York, N. Y. Collets and drawbars. 402,659; Aug. 3. Class 23.
General Tire & Rubber Company, The, Akron, Ohio. Retreads for pneumatic tires. 402,602; Aug. 3; Serial No. 458,838; published May 25, 1943. Class 35.
Gheens, C. Edwin, to Bradas & Gheens, Incorporated, Louisville, Ky., successor. Candy. 171,370; renewed Aug. 7, 1943.
Golden State Company, Ltd. (See California Central Creameries, assignor.)
Golden West Milling Co. (See Wikstrand, Victor E.)
Goodrich, B. F., Company. (See Hood Rubber Company, assignor.)
Goodrich, B. F., Company, The. (See Miller Rubber Company, The, assignor.)
Goodyear Tire & Rubber Company, The, Akron, Ohio. Vulcanizing cement. 402,608; Aug. 3; Serial No. 458,983; published May 25, 1943. Class 5.
Gropper, Harry. (See Gropper Knitting Mills, Inc., assignor.)
Gropper Knitting Mills, Inc., assignor, by mesne assignments, to Harry Gropper, New York, N. Y. Dress goods, and all knit fabrics. 175,077; renewed Oct. 30, 1943.
Grove Laboratories, Inc., The, Wilmington, Del., and St. Louis, Mo. Medicinal tablet. 402,596; Aug. 3; Serial No. 458,685; published May 18, 1943. Class 6.
Harlan, O. A., & Co., assignor to California Prune and Apricot Growers Association, San Jose, Calif. Dried fruits, and canned fruits and vegetables. 174,625; renewed Oct. 23, 1943.
Harlequin Corporation, The, New York, N. Y. Opthalmic mountings and lenses and parts thereof. 402,604; Aug. 3; Serial No. 458,878; published May 25, 1943. Class 26.
Hartwell Brothers, Memphis, Tenn. Ax, adz, pick, etc. 176,653; renewed Nov. 27, 1943.
Hartwell Brothers, Memphis, Tenn. Ax, adz, pick, etc. 176,655; renewed Nov. 27, 1943.
Hartwell Brothers, Memphis, Tenn. Ax, adz, pick, etc. 176,657; renewed Nov. 27, 1943.
Hartwell Brothers, Memphis, Tenn. Ax, adz, pick, etc. 176,663; renewed Nov. 27, 1943.
Hartwell Brothers, Memphis, Tenn. Ax, adz, pick, etc. 176,675–8; renewed Nov. 27, 1943.
Hat Corporation of America. (See Dunlap & Co., assignor.)
Hawley & Hoops, New York, N. Y. Candy. 175,009; renewed Oct. 30, 1943.
Hercules Carboy Box Co., Newark, N. J. Receptacles for carboys. 172,411; renewed Aug. 28, 1943.
Hood Rubber Company, Watertown, Mass., assignor, by mesne assignments, to The B. F. Goodrich Company, New York, N. Y. Rubber vehicle tires and tubes. 169,179; renewed June 12, 1943.
Hood Rubber Company, Watertown, Mass., assignor, by mesne assignments, to The B. F. Goodrich Company, New York, N. Y. Battery boxes, battery jars, and other battery parts made of rubber. 169,483; renewed June 19, 1943.
Hood Rubber Company, Watertown, Mass., assignor, by mesne assignments, to The B. F. Goodrich Company, New York, N. Y. Rubber boots and shoes, rubber overshoes, etc. 170,759; renewed July 24, 1943.

Hooper, Wm. E., & Sons Co., Woodberry, Baltimore, Md. Cotton, braided cotton, and cabled rope, etc. 171,461; renewed Aug. 7, 1943.
Hooper, Wm. E., & Sons Co., Woodberry, Md. Woven belting, hose, fire hose, filter tubing, etc. 172,285; renewed Aug. 28, 1943.
Household Products Co., Chicago, Ill. Coffee substitute. 402,621; Aug. 3; Serial No. 459,267; published May 25, 1943. Class 46.
Hubinger Co., The, Keokuk, Iowa. Corn syrup. 402,650; Aug. 3. Class 46.
Hudson Hosiery Company, Charlotte, N. C. Hosiery. 402,660; Aug. 3. Class 39.
Humphrey Elevator Co., Fairbault, Minn. Elevators. 176,674; renewed Nov. 27, 1943.
Hurff, Edgar F., Company, Swedesboro, N. J. Canned tomato juice. 402,607; Aug. 3; Serial No. 458,965; published May 25, 1943. Class 46.
Huston, T. A., & Co., Portland, Maine, assignor, by mesne assignments, to National Biscuit Company, New York, N. Y. Bakery products. 172,470; renewed Aug. 28, 1943.
Hygrade Food Products Corporation. (See Dunlevy Packing Company, assignor.)
Independent Drug Company, Inc., Jacksonville, Fla. Medicinal and toilet preparations. 177,175; renewed Dec. 11, 1943.
Inertol Company, Inc., Newark, N. J. Waterproofing and protective coating for concrete, steel, wood, etc. 402,589; Aug. 3; Serial No. 458,071; published May 25, 1943. Class 16.
Ironited Vitamins Products. (See Aronberg, Earl.)
Jaques Seed Company, Prescott, Wis. Blend of seed corn. 402,654; Aug. 3. Class 1.
Johnson, S. C., & Son, Inc., Racine, Wis. Aqueous and nonaqueous wax emulsions for waterproofing. 402,601; Aug. 3; 402,601; Aug. 3; Serial No. 458,811; published May 25, 1943. Class 4.
Jointless Fire-brick Co., Chicago, Ill., by change of name to Plibrico Jointless Firebrick Company. Fire-resisting cement. 176,070; renewed Nov. 13, 1943.
Josey-Miller Company, assignor to Josey-Miller Company, Inc., Beaumont, Tex. Horse and mule feed. 176,179; renewed Nov. 20, 1943.
Kahn's, E., Sons Company, The, Cincinnati, Ohio. Sausage, breakfast bacon, pure lard with beef fat added, etc. 177,158; renewed Dec. 11, 1943.
Katzenberg & Rivkin, Inc., Chicago, Ill. Women's sports apparel. 402,644; Aug. 3. Class 39.
Kaye-Meyers Co., New York, N. Y. Portfolios and pocketbooks. 402,655; Aug. 3. Class 3.
Koch, George, Sons, Inc., Evansville, Ind. Flower pots and flower baskets. 402,583; Aug. 3; Serial No. 457,439; published May 25, 1943. Class 2.
Frank, Alfred J., St. Paul, Minn., assignor, by mesne assignments, to Consolidated Royal Chemical Corporation, Chicago, Ill. Hair dressing and dandruff remedy. 170,193; renewed July 10, 1943.
Frank, A. J., Mfg. Co., St. Paul, Minn., assignor, by mesne assignments, to Consolidated Royal Chemical Corporation, Chicago, Ill. Vanishing and massage cream. 170,745; renewed July 24, 1943.
Lamont, Elisabeth Rae, doing business as Elisabeth Rae, New York and Mount Vernon, N. Y. Cosmetic preparation for the legs, skin cream cleanser, citrus cream remover, etc. 402,661; Aug. 3. Class 6.
Libby, McNeil & Libby, Chicago, Ill. Food products. 176,267; renewed Nov. 20, 1943.
Libby, McNeil & Libby, Chicago, Ill. Food products. 176,503; renewed Nov. 27, 1943.
Liebmann Breweries, Inc., Brooklyn, N. Y. Ale. 402,665; Aug. 3. Class 48.
Lion, Oscar, New York, N. Y. Silk and cotton ribbons in the piece. 177,152; renewed Dec. 11, 1943.
Markets, Inc., Oakland, Calif. Canned fruits. 402,569; Aug. 3; Serial No. 451,900; published May 25, 1943. Class 46.
McKeon Canning Co., Inc., Burbank, Calif. Canned vegetables. 402,631; Aug. 3; Serial No. 459,524; published May 25, 1943. Class 46.
McKesson & Robbins, Incorporated, New York, N. Y. Multiple vitamin product. 402,625; Aug. 3; Serial No. 459,343; published May 18, 1943. Class 6.
Merrell, Wm. S., Company, The, Cincinnati, Ohio. Product used to relieve transient nasal congestion through local application. 402,582; Aug. 3; Serial No. 457,398; published Mar. 23, 1943. Class 6.
Merrit Laboratories. (See National Toilet Company.)
Metal Decorating & Mfg. Co., Chicago, Ill. Name, number and letter plates, seals and tags. 402,584; Aug. 3; Serial No. 457,610; published Mar. 30, 1943. Class 50.
Mid-West Mushroom Company, Kansas City, Mo. Canned mushrooms. 402,551; Aug. 3; Serial No. 441,708; published May 25, 1943. Class 46.
Miller Rubber Company, The, Akron, Ohio, assignor, by mesne assignments, to The B. F. Goodrich Company, New York, N. Y. Tires. 170,629; renewed July 17, 1943.
Mills Brothers Company, The, doing business as The American Products Company, assignor, by mesne assignments, to The Zanol Products Company, Cincinnati, Ohio. Food products and ingredients of foods. 177,112; renewed Dec. 11, 1943.
Mills, S. W., doing business as S. W. Mills Liniment Co., Omaha, Nebr. Liniment. 402,608; Aug. 3; Serial No. 458,989; published May 25, 1943. Class 6.
Miner's, Inc., New York, N. Y. Face powder, cake make-up, eye shadow, etc. 402,658; Aug. 3. Class 6.
Mothtone Company, The, Needham, Mass. Moth-proofing paints. 402,616; Aug. 3; Serial No. 459,227; published May 25, 1943. Class 16.
National Biscuit Company, Jersey City, N. J., and New York, to National Biscuit Company, New York, N. Y. Biscuit. 173,121; renewed Sept. 18, 1943.
National Biscuit Company. (See Bishop & Company, assignor.)
National Biscuit Company. (See Huston, T. A., & Co., assignor.)
National Biscuit Company. (See York Pretzel Bakery, assignor.)
National Toilet Company, doing business as Merrit Laboratories, Paris, Tenn. Yeast and iron tablets, tablets for relief of simple headache, neuralgia, etc. 402,641; Aug. 3. Class 6.
New York & Pennsylvania Company, Castanea Township, Clinton County, Pa., and New York, assignor to New York & Pennsylvania Company, Inc., New York, N. Y. Book paper in sheets and rolls, alkaliproof paper, and other papers. 173,119; renewed Sept. 18, 1943.
Niedzielski, Albert W., Chicago, Ill. Purgative tea in dry form. 177,049; renewed Dec. 11, 1943.
Nitrose Co., Inc., The, Peoria, Ill. Ready-mixed or paste paint. 172,247; renewed Aug. 28, 1943.
Norco Refrigerator & Radio Sales. (See Durocher, Lee A.)
Oberg, C. O., & Co:s Aktiebolag, Eskilstuna, Sweden. Files and rasps. 169,287; renewed June 12, 1943.
Parfumerie Caron. (See Daltroff, E., & Cie.)
Penn Yan Boats, Incorporated, Penn Yan, N. Y. Boats. 402,592; Aug. 3; Serial No. 458,465; published May 25, 1943. Class 19.
Pfister Hybrid Corn Company, El Paso, Ill. Seed corn. 402,553–5; Aug. 3; Serial Nos. 447,146–8; published May 25, 1943. Class 1.
Pfister Hybrid Corn Company, El Paso, Ill. Seed corn. 402,556; Aug. 3; Serial No. 447,152; published May 25, 1943. Class 1.
Pfister, Lester, El Paso, Ill. Seed Corn. 402,557–9; Aug. 3. Serial Nos. 447,154–6; published May 25, 1943. Class 1.
Pfister, Lester, El Paso, Ill. Seed Corn. 402,560; Aug. 3; Serial No. 447,159; published May 25, 1943. Class 1.
Pfister, Lester, El Paso, Ill. Seed corn. 402,561–2; Aug. 3; Serial Nos. 447,161–2; published May 25, 1943. Class 1.
Plax Corporation, Hartford, Conn. Plastic composition in sheet form. 402,577; Aug. 3; Serial No. 456,431; published Feb. 2, 1943. Class 50.
Plibrico Jointless Firebrick Company. (See Jointless Fire-brick Co.)
Pollack, Sigmund, Washington, D. C. Preparations containing sulphur in a dissolved form for the treatment of rheumatism, obesity, sciatica, etc. 402,552; Aug. 3; Serial No. 446,632; published Oct. 14, 1941. Class 6.
Procter & Gamble Company, The, Cincinnati, Ohio. Oils, and oleomargarine and cooking fats. 177,189; renewed Dec. 11, 1943.
Purpura, August C., doing business as The Automatic Electric Appliance Co., Chicago, Ill. Electric laundry drier. 402,603; Aug. 3; Serial No. 458,869; published May 25, Class 24.
Rae, Elisabeth. (L[illegible]mont, Elisabeth Rae.)
Regulation Paint Co., Louisville, Ky. Ready-mixed paints. 176,546; renewed Nov. 27, 1943.
Regulation Paint Co., Louisville, Ky. Ready-mixed paints. 176,548; renewed Nov. 27, 1943.
Richardson Company, The, Lockland, Ohio. Articles and molded plastic parts. 402,014; Aug. 3; Serial No. 437,014; published May 25, 1943. Class 21.
Roberts, Lewis, Inc., Newark, N. J. Printing inks. 174,900; renewed Oct. 23, 1943.
Rogers Diesel and Aircraft Corporation, New York, N. Y. Generators and switchboards, Electric. 402,590; Aug. 3; Serial No. 458,120; published May 25, 1943. Class 21.
Rowlett, V. H., doing business as Battery Life-O-Matic Products, Kansas City, Mo. Composition of chemicals for treating batteries. 402,585; Aug. 3; Serial No. 457,864; published May 25, 1943. Class 6.
Sarasota Celery Company, Sarasota, Fla. Celery. 402,656; Aug. 3. Class 46.
Schapiro & Sons, New York, N. Y. Matzos. 402,646; Aug. 3. Class 46.
Scheffer & Rossum Co., St. Paul, Minn. Fruit picking bags. 402,638; Aug. 3. Class 2.
Schmid, Julius, Inc., New York, N. Y. Vaginal jelly. 402,595; Aug. 3; Serial No. 458,617; published May 4, 1943. Class 6.
Seamless Rubber Company, The, New Haven, Conn. Devices used in dispensing adhesive tapes or plasters. 402,653; Aug. 3. Class 2.
Sears, Roebuck and Company, New York, N. Y., and Chicago, to Sears, Roebuck and Co., Chicago, Ill. Sound boxes for phonographs. 172,002; renewed Aug. 21, 1943.

Sears, Roebuck and Co., Chicago, Ill. Talcum powder. 172,238; renewed Aug. 28, 1943.
Serv-Agen Corp., Philadelphia, Pa. Preparation of flour, salt, burnt sugar, etc., for the making of gravy. 402,622; Aug. 3; Serial No. 459,273; published May 25, 1943. Class 46.
Shane, C. B., Corporation, Chicago, Ill. Overcoats and topcoats. 402,571; Aug. 3; Serial No. 455,089; published Oct. 20, 1942. Class 39.
Sheaffer, W. A., Pen Company, Fort Madison, Iowa. Package including V-mail stationery, writing fluid, etc. 402,610; Aug. 3; Serial No. 459,087; published Mar. 25, 1943. Class 50.
Shlansky, Philip, & Bro. Inc., New York, N. Y. Women's, misses' and girls' coats. 402,647; Aug. 3. Class 39.
Sichel, Ferdinand, New York, N. Y. Cotton goods and linens in the piece. 169,669; renewed June 26, 1943.
Sprague Specialties Company, North Adams, Mass. Electrical condensers. 402,614; Aug. 3; Serial No. 459,209; published May 25, 1943. Class 21.
Staley, A. E., Manufacturing Company, Decatur, Ill. Plant growth promoting substances. 402,629; Aug. 3; Serial No. 459,500; published May 18, 1943. Class 6.
Standard Development Company of New York. (See Standard Oil Company (Incorporated in New Jersey), assignor.)
Standard Oil Company (Incorporated in New Jersey), Bayonne, N. J., assignor to Standard Oil Company of New Jersey, Wilmington, Del. Lubricating oils. 176,079; renewed Nov. 13, 1943.
Standard Oil Company (Incorporated in New Jersey), Bayonne, N. J., assignor to Standard Development Company, assignor, by mesne assignments, to Standard Oil Company of New Jersey, Wilmington, Del. Chemical liquid. 177,087; renewed Dec. 11, 1943.
Standard Oil Company of New Jersey. (See Standard Oil Company (Incorporated in New Jersey), assignor.)
Stetson China Company, Chicago, Ill. Dishes, cups, saucers, etc. 402,581; Aug. 3; Serial No. 457,258; published May 25, 1943. Class 30.
Strauss, Ignaz, Co., Inc., New York, N. Y. Pottery candy boxes, pottery fern dishes, pottery flower bowls, etc. 402,600; Aug. 3; Serial No. 458,797; published May 25, 1943. Class 30.
Stroock, S., & Company, Inc., New York, N. Y. Pile fabric in the piece. 174,026; renewed Oct. 2, 1943.
Trenton Milling Company, Trenton, Ill. Wheat flour. 176,505; renewed Nov. 27, 1943.
Ubiko Milling Company, The, Cincinnati, to The Ubiko Milling Company, St. Bernard, Ohio. Stock and poultry foods. 177,022; renewed Dec. 11, 1943.
United Gilsonite Laboratories, Scranton, Pa. Chemical drain pipe solvent. 402,627; Aug. 3; Serial No. 459,446; published May 18, 1943. Class 6.
Vega Aircraft Corporation, Burbank, Calif. Airplanes and structural parts. 402,573–4; Aug. 3; Serial Nos. 455,808–9; published May 25, 1943. Class 19.
Victory Fireworks & Specialty Company. (See Victory Sparkler & Specialty Co., assignor.)
Victory Sparkler & Specialty Co., assignor to Victory Fireworks & Specialty Company, Elkton, Md. Repeating cap pistols and canary songsters. 172,679; renewed Sept. 11, 1943.
Ward Baking Company, New York, N. Y. Bread, rolls, biscuits, etc. 176,852; renewed Dec. 4, 1943.
Warwick Chemical Company, West Warwick, R. I. Water repellent compounds. 402,628; Aug. 3; Serial No. 459,455; published May 18, 1943. Class 6.
Wikstrand, Victor E., doing business as Golden West Milling Co., Longmont, Colo. Premixed flour for biscuits and premixed flour for cakes. 402,637; Aug. 3. Class 46.
Wilt, Chas. T., Company, Chicago, Ill. Traveling bags. 402,613; Aug. 3; Serial No. 459,184; published May 25, 1943. Class 3.
Woods, C. G., Chemical Co., Inc., Glendale, Calif. Poison for gophers and rodents. 402,657; Aug. 3. Class 6.
York Pretzel Bakery, York, Pa., assignor to National Biscuit Company, New York, N. Y. Pretzels. 172,474–5; renewed Aug. 28, 1943.
Zanol Products Company, The. (See Mills Brothers Company, The, assignor.)
Zuercher, C. E., & Co., Chicago, Ill. Cheese. 172,534; renewed Sept. 4, 1943

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Seed corn. Pfister Hybrid Corn Company. 402,553–5; Aug. 3; Serial Nos. 447,146–8; published May 25, 1943.
Seed corn. Pfister Hybrid Corn Company. 402,556; Aug. 3; Serial No. 447,152; published May 25, 1943.
Seed corn. L. Pfister. 402,557–9; Aug. 3; Serial Nos. 447,154–6; published May 25, 1943.
Seed corn. L. Pfister. 402,560; Aug. 3; Serial No. 447,159; published May 25, 1943.
Seed corn. L. Pfister. 402,561–2; Aug. 3; Serial Nos. 447,161–2; published May 25, 1943.
Seeds, Grass. Edgewood Farms, Inc. 402,615; Aug. 3; Serial No. 459,217; published May 25, 1943.
Seed corn, Blend of. Jacques Seed Company. 402,654; Aug. 3.

CLASS 2

Bags, Fruit picking. Scheffer & Rossum Co. 402,638; Aug. 3.
Boxes, Transparent plastic. Fisher Scientific Company. 402,623; Aug. 3; Serial No. 459,284; published May 25, 1943.
Cups, picnic jugs, vacuum bottles, Latex. Firestone Tire & Rubber Company. 402,588; Aug. 3; Serial No. 458,068; published May 25, 1943.
Devices used in dispensing adhesive tapes or plasters. Seamless Rubber Company. 402,653; Aug. 3.
Kits, picnic baskets, mothproof bags, etc., Lunch. L. Bamberger & Co. 402,611; Aug. 3; Serial No. 459,145; published May 25, 1943.
Pots and flower baskets, Flower. G. Koch Sons, Inc. 402,583; Aug. 3; Serial No. 457,439; published May 25, 1943.
Receptacles for carboys. Hercules Carboy Box Co. 172,411; renewed Aug. 28, 1943.

CLASS 3

Bags, Traveling. Chas. T. Wilt Company. 402,613; Aug. 3; Serial No. 459,184; published May 25, 1943.
Handbags, Ladies'. Colony Bags, Inc. 402,593; Aug. 3; Serial No. 458,527; published May 25, 1943.
Portfolios and pocketbooks. Kaye-Meyers Co. 402,655; Aug. 3.

CLASS 4

Polishes and cleaners, Shoe. Gem Products, Inc. 402,594; Aug. 3; Seral No. 458,534; published May 25. 1943.
Soap, Toilet. Flash Chemical Company. 173,884; renewed Oct. 2, 1943.
Wax emulsions, for waterproofing, Aqueous and nonaqueous. S. C. Johnson & Son, Inc. 402,601; Aug. 3; Serial No. 458,811; published May 25, 1943.

CLASS 5

Cement, Vulcanizing. Goodyear Tire & Rubber Company. 402,608; Aug. 3; Serial No. 458,983; published May 25, 1943.
Compound in powder form. California Central Creameries. 176,407; renewed Nov. 27, 1943.

CLASS 6

Acetophenetidin; acetylcholine bromide; acetylsalicylic acid; etc. Burroughs Wellcome & Co. (U. S. A.) Inc. 402,576; Aug. 3; Serial No. 456,303; published May 25, 1943.
Applicators and rouge applicators, Cosmetic. Dermetics, Inc. 402,565; Aug. 3; Serial No. 450,177; published May 18, 1943.
Brilliantine. County Perfumery Company. 402,575; Aug. 3; Serial No. 455,908; published May 18, 1943.
Chemical liquid. Standard Oil Company (Incorporated in New Jersey). 177,087; renewed Dec. 11, 1943.
Chemical mixture for lowering the burning temperature of soot deposits. Alken-Murray Corporation. 402,663; Aug. 3.
Composition of chemicals for treating batteries. V. H. Rowlett. 402,585; Aug. 3; Serial No. 457,864; published May 25, 1943.
Cosmetic preparation for the legs, skin cream cleanser, citrus cream remover, etc. E. R. Lamont. 402,661; Aug. 3.
Counter etch used in removing oxides and foreign matter from the grained surfaces of lithographic plates. Davidson Manufacturing Corporation. 402,632; Aug. 3; Serial No. 459,730; published May 25, 1943.
Cream, Vanishing and massage. A. J. Krank Mfg. Co. 170,745; renewed July 24, 1943.
Fountain etches employed in the lithographic process. Davidson Manufacturing Corporation. 402,636; Aug. 3; Serial No. 459,734; published May 25, 1943.
Hair dressing and dandruff remedy. A. J. Krank. 170,193; renewed July 10, 1943.
Jelly, Vaginal. Julius Schmid, Inc. 402,595; Aug. 3; Serial No. 458,617; published May 4, 1943.
Liniment. S. W. Mills. 402,609; Aug. 3; Serial No. 458,989; published May 25, 1943.
Medicinal and toilet preparations. Independent Drug Company. 177,175; renewed Dec. 11, 1943.
Medicinal tablet. Grove Laboratories, Inc. 402,596; Aug. 3; Serial No. 458,685; published May 18, 1943.
Mixture comprising dextrose, lactose, carotene, etc. E. D. Fear. 402,612; Aug. 3; Serial No. 459,171; published May 18, 1943.
Perfume, toilet water, powder and rouge compacts, etc. Avon Products, Inc. 402,664; Aug. 3.

Perfume, toilet water, rouges, etc. E. Daltroff & Cie. 170,278; renewed July 10, 1943.
Perfume, toilet water, rouges, etc. E. Daltroff & Cie. 171,100; renewed July 31, 1943.
Plant growth promoting substances. A. E. Staley Manufacturing Company. 402,629; Aug. 3; Serial No. 459,500; published May 18, 1943.
Poison for gophers and rodents. C. G. Woods Chemical Co. 402,657; Aug. 3.
Powder, cake make-up, eye shadow, etc., Face. Miner's, Inc. 402,658; Aug. 3.
Powder, Talcum. Sears, Roebuck and Co. 172,238; renewed Aug. 28, 1943.
Preparation containing sulphur for the treatment of rheumatism, obesity, sciatica, etc. S. Pollack. 402,552; Aug. 3; Serial No. 446,632; published Oct. 14, 1941.
Preparation for the extermination of rats. W. C. Cowley, 402,640; Aug. 3.
Preparation for the treatment for loose dandruff. V. E. Beasley. 402,618; Aug. 3; Serial No. 459,253; published May 25, 1943.
Preparation used to preserve lithographic plates. Davidson Manufacturing Corporation. 402,635; Aug. 3; Serial No. 459,733; published May 25, 1943.
Product used to relieve transient nasal congestion through local application. Wm. S. Merrell Company. 402,582; Aug. 3; Serial No. 457,398; published Mar. 23, 1943.
Purgative tea in dry form. A. W. Niedzielski. 177,049; renewed Dec. 11, 1943.
Sizing preparation. American Cyanamid & Chemical Corporation. 402,563; Aug. 3; Serial No. 448,749; published Dec. 8, 1943.
Solution used for making a lithographic plate photosensitive. Davidson Manufacturing Corporation. 402,633; Aug. 3; Serial No. 459,731; published May 25, 1943.
Solution used to clean blankets and rollers used in printing machines. Davidson Manufacturing Corporation. 402,634; Aug. 3; Serial No. 459,732; published May 25, 1943.
Solvent, Chemical drain pipe. United Gilsonite Laboratories. 402,627; Aug. 3; Serial No. 459,446; published May 18, 1943.
Vitamin and iron tablets. E. Aronberg. 402,652; Aug. 3.
Vitamin product, Multiple. McKesson & Robbins, Incorporated. 402,625; Aug. 3; Serial No. 459,343; published May 18, 1943.
Water repellent compounds. Warwick Chemical Company. 402,628; Aug. 3; Serial No. 459,455; published May 18, 1943.
Yeast and iron tablets, tablets for relief of simple headache, neuralgia, etc. National Toilet Company. 402,641; Aug. 3.

CLASS 7

Cotton, braided cotton, and cabled rope, etc. Wm. E. Hooper, & Sons Co. 171,461; renewed Aug. 7, 1943.

CLASS 8

Pipes, cigar holders and cigarette holders. Tobacco. Alfred Dunhill Limited. 402,578; Aug. 3; Serial No. 456,866; published May 25, 1943.

CLASS 11

Inks, Printing. Lewis Roberts, Inc. 174,900; renewed Oct. 23, 1943.

CLASS 12

Building blocks. Celotex Corporation. 402,564; Aug. 3; Serial No. 449,639; published May 25, 1943.
Cement, Fire-resisting. Jointless Fire-brick Co. 176,070; renewed Nov. 13, 1943.

CLASS 13

Hollow ware, Table. American Art Alloys, Inc. 402,591; Aug. 3; Serial No. 458,136; published May 25, 1943.

CLASS 15

Oils, Lubricating. Standard Oil Company (Incorporated in New Jersey). 176,079; renewed Nov. 13, 1943.

CLASS 16

Paint, Ready-mixed or paste. Nitrose Co. 172,247; renewed Aug. 28, 1943.
Paints and shellac, Wood preserving. Davey Tree Expert Company. 176,399; renewed Nov. 27, 1943.
Paints and shellac, Wood-preserving. Davey Tree Expert Company. 176,549; renewed Nov. 27, 1943.
Paints, Moth-proofing. Mothtone Company. 402,616; Aug. 3; Serial No. 459,227; published May 25, 1943.
Paints, Ready-mixed. Regulation Paint Co. 176,546; renewed Nov. 27, 1943.
Paints, Ready-mixed. Regulation Paint Co. 176,548; renewed Nov. 27, 1943.
Waterproofing and protective coating for concrete, steel, wood, etc. Inertol Company, Inc. 402,589; Aug. 3; Serial No. 458,071; published May 25, 1943.

CLASS 17

Tobacco, Cigars and cigarettes. Alfred Dunhill Limited. 402,579; Aug. 3; Serial No. 456,867; published May 25, 1943.

CLASS 19

Airplanes and structural parts. Vega Aircraft Corporation. 402,573–4; Aug. 3; Serial Nos. 455,808–9; published May 25, 1943.
Boats. Penn Yan Boats, Incorporated. 402,592; Aug. 3; Serial No. 458,465; published May 25, 1943.
Reenforcing backs for brake shoes. American Brake Shoe and Foundry Company. 402,586–7; Aug. 3; Serial Nos. 457,964–5; published May 25, 1943.

CLASS 21

Articles and molded plastic parts. Richardson Company. 402,014; Aug. 3; Serial No. 437,014; published May 25, 1943.
Boxes, battery jars, and other battery parts made of rubber, Battery. Hood Rubber Company. 169,483; renewed June 19, 1943.
Condensers, Electrical. Sprague Specialties Company. 402,614; Aug. 3; Serial No. 459,209; published May 25, 1943.
Electric apparatus. Combustion Control Corporation. 402,580; Aug. 3; Serial No. 457,198; published May 25, 1943.
Electrical equipment. Evans-Winter-Hebb, Inc. 402,572; Aug. 3; Serial No. 455,204; published May 25, 1943.
Generators and switchboards, Electric. Rogers Diesel and Aircraft Corporation. 402,590; Aug. 3; Serial No. 458,120; published May 25, 1943.

CLASS 22

Pistols and canary songsters, Repeating cap. Victory Sparkler & Specialty Co. 172,679; renewed Sept. 11, 1943.
Toy dishes. Geo. Borgfeldt Corporation. 402,630; Aug. 3; Serial No. 459,506; published May 25, 1943.

CLASS 23

Ax, adz, pick, etc. Hartwell Brothers. 176,653; renewed Nov. 27, 1943.
Ax, adz, pick, etc. Hartwell Brothers. 176,655; renewed Nov. 27, 1943.
Ax, adz, pick, etc. Hartwell Brothers. 176,657; renewed Nov. 27, 1943.
Ax, adz, pick, etc. Hartwell Brothers. 176,663; renewed Nov. 27, 1943.
Ax, adz, pick, etc. Hartwell Brothers. 176,675–8; renewed Nov. 27, 1943.
Collets and drawbars. General Die Stamping Tool Company. 402,659; Aug. 3.
Elevators. Humphrey Elevator Co. 176,674; renewed Nov. 27, 1943.
Files and rasps. C. O. Oberg & Co: s Aktiebolag. 169,287; renewed June 12, 1943.
Shovels, spades, scoops, etc. Baldwin Tool Works. 173,433; renewed Sept. 25, 1943.

CLASS 24

Electric laundry drier. A. C. Purpura. 402,603; Aug. 3; Serial No. 458,869; published May 25, 1943.

CLASS 26

Calipers, compasses, dividers, etc. Durkee Marine Products Corporation. 402,619; Aug. 3; Serial No. 459,262; published May 25, 1943.
Indicator, Electrically operated time controlled. L. A. Durocher. 402,568; Aug. 3; Serial No. 451,490; published May 25, 1943.
Metallic sheets having a light sensitive coating thereon. Di-Noc-Cramer Corporation. 402,597–9; Aug. 3; Serial Nos. 458,752–4; published May 25, 1943.
Mountings and lenses and parts thereof, Ophthalmic. Harlequin Corporation. 402,604; Aug. 3; Serial No. 458,878; published May 25, 1943.

CLASS 30

Candy boxes, pottery fern dishes, pottery flower bowls, etc., Pottery. Ignaz Strauss Co. 402,600; Aug. 3; Serial No. 458,797; published May 25, 1943.
Dishes, cups, saucers, etc. Stetson China Company. 402,581; Aug. 3; Serial No. 457,258; published May 25, 1943.

CLASS 31

Filtering apparatus. American Seitz Filter Corporation. 402,651; Aug. 3.
Sheets, Filter. American Seitz Filter Corporation. 402,642; Aug. 3.

CLASS 34

Lighters, Pyrophoric, catalytic, and pilot cigarette. Beattie Products, Inc. 402,605; Aug. 3; Serial No. 458,929; published May 25, 1943.
Stoves and ranges, Cooking and heating. Favorite Stove and Range Company, The. 23,886; re-renewed Nov. 28, 1943.
Ventilating prefabricated duct sections, panels for forming ducts, duct connectors, etc. Chrysler Corporation. 402,570; Aug. 3; Serial No. 453,888; published May 25, 1943.

Ventilators and deck plates, hood ventilators, porthole air scoops, etc. Durkee Marine Products Corporation. 402,620; Aug. 3; Serial No. 459,263; published May 25, 1943.

CLASS 35

Belting, hose, fire hose, filter tubing, etc., Woven. Wm. E. Hooper & Sons Co. 172,285; renewed Aug. 28, 1943.
Retreads for pneumatic tires. General Tire & Rubber Company. 402,602; Aug. 3; Serial No. 458,838; published May 25, 1943.
Tires. Miller Rubber Company. 170,629; renewed July 17, 1943.
Tires and tubes, Rubber vehicle. Hood Rubber Company. 169,179; renewed June 12, 1943.

CLASS 36

Boxes for phonographs, Sound. Sears, Roebuck and Company. 172,002; renewed Aug. 21, 1943.

CLASS 37

Paper, Craft. Aktiebolaget Mölnbacka-Trysil. 169,364; renewed June 12, 1943.
Paper in sheets and rolls, alkali-proof paper, and other papers, Book. New York & Pennsylvania Company. 173,119; renewed Sept. 18, 1943.
Tools, Hand operated. Fastener Corporation. 402,567; Aug. 3; Serial No. 451,230; published May 25, 1943.

CLASS 38

Booklets and pamphlets. American Radio Relay League, Inc. 175,771; renewed Nov. 13, 1943.

CLASS 39

Apparel, Women's sports. Katzenberg & Rivkin, Inc. 402,644; Aug. 3.
Boots and shoes, rubber overshoes, etc., Rubber. Hood Rubber Company. 170,759; renewed July 24, 1943.
Coats, Women's, misses' and girls'. Philip Shlansky & Bro. Inc. 402,647; Aug. 3.
Hats. Dunlap & Co. 176,834; renewed Dec. 4, 1943.
Hosiery. Hudson Hosiery Company. 402,660; Aug. 3.
Overcoats and topcoats. C. B. Shane Corporation. 402,571; Aug. 3; Serial No. 455,089; published Oct. 20, 1942.
Skirts, Women's and children's. R. Camhi. 402,645; Aug. 3.
Wraps, coats, suits, and dresses, Ladies' and misses' Samuel Chapman, Inc. 402,648; Aug. 3.

CLASS 40

Art needlework. T. Buettner & Co. 170,645; renewed July 17, 1943.

CLASS 42

Cotton goods and linens in the piece. F. Sichel. 169,669; renewed June 26, 1943.
Dress goods, and all knit fabrics. Gropper Knitting Mills, Inc. 175,077; renewed Oct. 30, 1943.
Fabric in the piece, Pile. S. Stroock & Company, Inc. 174,026; renewed Oct. 2, 1943.
Linen in the piece and linen table covers and napkins, Pure. T. Buettner & Co. 171,482; renewed Aug. 7, 1943.
Piece goods, Woolen. Farnsworth Mills Inc. 174,203; renewed Oct. 9, 1943.
Ribbons in the piece, Silk and cotton. O. Lion. 177,152; renewed Dec. 11, 1943.

CLASS 44

Removers, Hair. Beauty Aids, Inc. 402,662; Aug. 3.

CLASS 46

Bakery products. T. A. Huston & Co. 172,470; renewed Aug. 28, 1943.
Biscuit. National Biscuit Company. 173,121; renewed Sept. 18, 1943.
Biscuits. Bishop & Company. 170,663; renewed July 17, 1943.
Bread, rolls, biscuits, etc. Ward Baking Company. 176,852; renewed Dec. 4, 1943.
Butter, oleomargarine, eggs in the shell, etc. Dunlevy Packing Company. 177,138; renewed Dec. 11, 1943.
Butter, oleomargarine, eggs in the shell, etc. Dunlevy Packing Company. 177,143; renewed Dec. 11, 1943.
Candy. Bunte Brothers. 171,320; renewed Aug. 7, 1943.
Candy. C. E. Gheens. 171,370; renewed Aug. 7, 1943.
Candy. Bunte Brothers. 171,457; renewed Aug. 7, 1943.
Candy. Hawley & Hoops. 175,009; renewed Oct. 30, 1943.
Canned fruits. Markets, Inc. 402,569; Aug. 3; Serial No. 451,900; published May 25, 1943.
Canned mushrooms. Mid-West Mushroom Company. 402,551; Aug. 3; Serial No. 441,708; published May 25, 1943.
Canned tomato juice. E. F. Hurff Company. 402,607; Aug. 3; Serial No. 458,965; published May 25, 1943.
Canned vegetables. McKeon Canning Co. 402,631; Aug. 3; Serial No. 459,524; published May 25, 1943.
Celery. Sarasota Celery Company. 402,656; Aug. 3.
Cheese. C. E. Zuercher & Co. 172,534; renewed Sept. 4, 1943.
Coffee. Buffett & Son. 402,649; Aug. 3.
Coffee substitute. Household Products Co. 402,621; Aug. 3; Serial No. 459,267; published May 25, 1943.
Cookies. Bishop & Company. 176,679; renewed Nov. 27, 1943.
Cookies. Bishop & Company. 176,698; renewed Nov. 27, 1943.
Feed, Horse and mule. Josey-Miller Company. 176,179; renewed Nov. 20, 1943.
Flour for biscuits and premixed flour for cakes, Premixed. V. E. Wikstrand. 402,637; Aug. 3.
Flour, Wheat. Trenton Milling Company. 176,505; renewed Nov. 27, 1943.
Food, Breakfast cereal. Albers Bros. Milling Co. 171,265; renewed July 31, 1943.
Food products. Libby, McNeill & Libby. 176,267; renewed Nov. 20, 1943.
Food products. Libby, McNeill & Libby. 176,503; renewed Nov. 27, 1943.
Food products and ingredients of foods. Mills Brothers Company. 177,112; renewed Dec. 11, 1943.
Fruits and canned fruits and vegetables, Dried. O. A. Harlan & Co. 174,625; renewed Oct. 23, 1943.
Fruits, Fresh citrus. Allen & Sandilands. 402,617; Aug. 3; Serial No. 459,250; published May 25, 1943.
Glacé, glacé assorted fruits, and crystallized ginger, Pineapple. Causse Manufacturing & Importing Co. 173,762; renewed Oct. 2, 1943.
Gum, Chewing. American Chicle Company. 173,489; renewed Sept. 25, 1943.
Ice cream. Eskimo Pie Corporation. 402,566; Aug. 3; Serial No. 451,105; published May 25, 1943.
Matzos. Schapiro & Sons. 402,646; Aug. 3.
Oils, and oleomargarine and cooking fats. Proctor & Gamble Company. 177,189; renewed Dec. 11, 1943.
Preparation of flour, salt, burnt sugar, etc., for the making of gravy. Serv-Agen Corp. 402,622; Aug. 3; Serial No. 459,273; published May 25, 1943.
Pretzels. York Pretzel Bakery. 172,474–5; renewed Aug. 28, 1943.
Sausage. L. S. Briggs, Inc. 402,639; Aug. 3.
Sausage, breakfast bacon, pure lard with beef fat added, etc. E. Kahn's Sons Company. 177,158; renewed Dec. 11, 1943.
Stock and poultry foods. Ubiko Milling Company. 177,022; renewed Dec. 11, 1943.
Syrup, Corn. Hubinger Co. 402,650; Aug. 3.

CLASS 48

Ale. Liebmann Breweries, Inc. 402,665; Aug. 3.
Beer. Camden County Beverage Company. 402,624; Aug. 3; Serial No. 459,296; published May 11, 1943.
Beer, ale, and packages of bottled beer and ale. Drewrys Limited U. S. A., Inc. 402,643; Aug. 3.

CLASS 50

Package including V-mail stationery, writing fluid, etc. W. A. Sheaffer Pen Company. 402,610; Aug. 3; Serial No. 459,087; published May 25, 1943.
Paper weight souvenir. Conley & Stone. 402,606; Aug. 3; Serial No. 458,933; published May 25, 1943.
Plastic composition in sheet form. Plax Corporation. 402,577; Aug. 3; Serial No. 456,431; published Feb. 2, 1943.
Plates, seals, and tags, Name, number, and letter. Metal Decorating & Mfg. Co. 402,584; Aug. 3; Serial No. 457,610; published Mar. 30, 1943.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 3D DAY OF AUGUST, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Arpin, Leonard G., Montclair, N. J. Producing beads. Re. 22,358; Aug. 3.

Bell Aircraft Corp. (See Salisbury, Frank M., assignor.)

Christensen, Martin, Milwaukee, Wis. Signature handling machine. Re. 22,359; Aug. 3.

Hirschfeld, Rudolf, New York, N. Y. Garment construction. Re. 22,360; Aug. 3.

Salisbury, Frank M., Kenmore, assignor to Bell Aircraft Corp., Buffalo, N. Y. Adapter for mounting machine guns. Re. 22,361; Aug. 3.

LIST OF PLANT PATENTEES

Ruggeri, Peter, San Francisco, Calif. African violet. 597; Aug. 3.

LIST OF DESIGN PATENTEES

American Optical Company. (See Chaney, Austin B., assignor.)

Birenbaum, William, Haverhill, Mass. Shoe. 136,076; Aug. 3.

Bromberg, Louis, Rockaway Park, N. Y. Piano. 136,083; Aug. 3.

Brown, Phelps, Jr., Springfield, assignor to Southworth Company, West Springfield, Mass. Envelope. 136,084; Aug. 3.

Casey, Clyde, Detroit, Mich. Weather indicating device. 136,108; Aug. 3.

Cashin, Bonnie, New York, N. Y. Dress. 136,112; Aug. 3.

Chalk, Benjamin, New York, N. Y. Mitten. 136,094; Aug. 3.

Chaney, Austin B., San Francisco, Calif., assignor to American Optical Company, Southbridge, Mass. Ophthalmic-mounting lens. 136,095; Aug. 3.

Chaney, Austin B., San Francisco, Calif., assignor to American Optical Company, Southbridge, Mass. Pair of spectacles. 136,096; Aug. 3.

Chernow, Michael, New York, N. Y. Earring. 136,077; Aug. 3.

Chieng, George L., New York, N. Y. Automobile. 136,106; Aug. 3.

Chieng, George L., New York, N. Y. Automobile. 136,107; Aug. 3.

Constantine, George, New York, N. Y. Dress. 136,113; Aug. 3.

Eaton Manufacturing Company. (See Findley, Howard J., assignor.)

Findley, Howard J., Shaker Heights, assignor to Eaton Manufacturing Company, Cleveland, Ohio. Thermoelectric generator. 136,109; Aug. 3.

Goodman, Edward, New York, N. Y. Head scarf. 136,097; Aug. 3.

Hartman, William E., Sr., assignor to Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Dispensing cap for container. 136,098; Aug. 3.

Herz, Erwin, assignor to Samuel Lowe Company, New York, N. Y. Foldable paper Christmas crib. 136,085; Aug. 3.

Hudson, Richard L., Worland, Wyo. Sheep clipper comb. 136,086; Aug. 3.

Ivers-Lee Company. (See Salfisberg, Leroy L., assignor.)

Kuznetz, Samuel, New York, N. Y. Lady's suit. 136,115; Aug. 3.

Kuznetz, Samuel, New York, N. Y. Lady's suit. 136,116; Aug. 3.

Levy, Henry, New York, N. Y. Mask for dolls or similar article. 136,087; Aug. 3.

Lion, Oscar, New York, N. Y. Wrapping paper or the like. 136,088; Aug. 3.

Lorenzen, Roger E., Niles, Mich. Dial for aircraft attitude indicating device. 136,099; Aug. 3.

Lowe, Samuel, Company. (See Herz, Erwin, assignor.)

Morow, Rose, Washington, D. C. Doughnut or the like. 136,111; Aug. 3.

Novikoff, George J., Baltimore, Md. Airplane or similar article. 136,078; Aug. 3.

Page, George A., Jr., Creve Coeur, Mo. Airplane. 136,100; Aug. 3.

Pennsylvania Salt Manufacturing Company. (See Hartman, William E., Sr., assignor.)

Philippe, Alfred, Cranston, R. I. Brooch or similar article. 136,079; Aug. 3.

Philippe, Alfred, Cranston, R. I. Brooch or similar article. 136,080; Aug. 3.

Ray, Harry S., assignor to Visible Index Corp., New York, N. Y. Card index cabinet. 136,089; Aug. 3.

Ross, Howard L., New York, N. Y. Combined salt and pepper shaker. 136,081; Aug. 3.

Salfisberg, Leroy L., South Orange, assignor to Ivers-Lee Company, Newark, N. J. Folding dispensing package or similar article. 136,101; Aug. 3.

Schneider, Karl, assignor to Sears, Roebuck and Co., Chicago, Ill. Handle for a coffeepot or the like. 136,102; Aug. 3.

Schreiber, Rudolph E., Chicago, Ill. Garment hanger. 136,082; Aug. 3.

Sears, Roebuck and Co. (See Schneider, Karl, assignor.)

Southworth Company. (See Brown, Phelps, Jr., assignor.)

Spielberg, Erna, New York, N. Y. Brooch or similar article. 136,110; Aug. 3.

Steinberg, Abe H., New York, N. Y. Dress. 136,103; Aug. 3.

Stephens, Joseph J. W., Los Angeles, Calif. Shade holder. 136,114; Aug. 3.

Tripp, Alphonso E., Detroit, Mich. Parallel triangle. 136,090; Aug. 3.

Tripp, Alphonso E., Detroit, Mich. Isometric drafter. 136,091; Aug. 3.

Urdang, Maurice, New York, N. Y. Necktie or similar article. 136,104; Aug. 3.

Urdang, Maurice, New York, N. Y. Necktie or similar article. 136,105; Aug. 3.

Visible Index Corp. (See Ray, Harry S., assignor.)

Walker, Joset, New York, N. Y. Dress. 136,117; Aug. 3.

Walker, Joset, New York, N. Y. Dress. 136,118; Aug. 3.

Walker, Joset, New York, N. Y. Dress. 136,119; Aug. 3.

Walker, Joset, New York, N. Y. Dress. 136,120; Aug. 3.

Wandt, Carl, New York, N. Y. Lapel ornament or similar article. 136,092; Aug. 3.

Weinstein, Herman, New York, N. Y. Billfold. 136,093; Aug. 3.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 3D DAY OF AUGUST, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abel, Gerhard. (See Trommsdorff, E., and Abel.)
Acker, Harold L., Hollywood, assignor to W. P. Fuller & Co., San Francisco, Calif. Calking compound. 2,325,726; Aug. 3.
Adams, Pierrepont. (See Swain, R. C., and Adams.)
Adams, Roger, Urbana, Ill., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Dihydroisobenzofurans and preparing them. 2,325,727; Aug. 3.
Adamson, Nicholas F., assignor to Twin Disc Clutch Company, Racine, Wis. Air cooled transmission. 2,325,647; Aug. 3.
Agriculture of the United States of America, Claude R. Wickard, and to his successors in office, Secretary of. (See Horner, G. M., and Naffziger, assignors.)
Aktiengesellschaft Brown, Boveri & Cie. (See Seippel, Claude, assignor.)
Alien Property Custodian. (See Baumbach, Georg.)
Alien Property Custodian. (See Cohn, Henny.)
Alien Property Custodian. (See Gartenmeister, Walter.)
Alien Property Custodian. (See Hepp, G., and van der Mark.)
Allen, Roy O., Athens, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Driving device. 2,325,728; Aug. 3.
Allin, George S., assignor to Isaacson Iron Works, Seattle, Wash. Hydraulic power system for tractors. 2,325,729; Aug. 3.
Allinson, John J. J. W. Poole, and F. R. Grant, assignors to Lion Oil Refining Company, El Dorado, Ark. Treating gasoline. 2,325,581; Aug. 3.
American Cyanamid and Chemical Corporation. (See Clark, Le Roy V., assignor.)
American Cyanamid Company. (See Dolt, M. L., and Hill, assignors.)
American Cyanamid Company. (See Liddel, Urner, assignor.)
American Cyanamid Company. (See Moore, W., and Roblin, Jr., assignors.)
American Cyanamid Company. (See Swain, R. C., and Adams, assignors.)
American Flange & Manufacturing Co. (See Amesbury, E. M., McCormack, Roberts, and Sample, assignors.)
American-Marsh Pumps, Inc. (See Barton, Benjamin D., assignor.)
American Optical Company. (See Canning, William P., assignor.)
American Radiator & Standard Sanitary Corporation. (See Holtman, Clemens W., assignor.)
American Steel Foundries. (See Baselt, Walter H., and Tack, assignors.)
American Viscose Corporation. (See Fry, Horace P., assignor.)
American Viscose Corporation. (See McDermott, Henry J., assignor.)
American Viscose Corporation. (See McDermott, H. J., and Stanley, assignors.)
Amesbury, Earl M., Chicago, Ill., J. G. Macormack, New York, N. Y., S. M. Roberts, Chicago, Ill., and F. W. Sample, Forest Hills, assignors to American Flange & Manufacturing Co., Inc., New York, N. Y. Die mechanism and method. 2,325,929; Aug. 3.
Andersen, Henry A., Swampscott, Mass., assignor to General Electric Company. Instrument deflection modifier. 2,325,582; Aug. 3.
Anderson, Joseph K., Painesville, Ohio. Airplane construction. 2,325,900; Aug. 3.
Anderson, Perle J., Portland, N. Y. Ground working tool for agricultural implements. 2,325,579; Aug. 3.
Ann Arbor Foundry Company, Inc. (See Betts, Everett D., assignor.)
Arentzen, Einar M., Charlerol, and A. L. Lee, Oakmont, assignors, by mesne assignments, to Joy Manufacturing Company, Franklin, Pa. Mine haulage vehicle. 2,325,730; Aug. 3.
Arentzen, Einar M., Charlerol, and A. L. Lee, Oakmont, assignors to Joy Manufacturing Company, Franklin, Pa. Mine haulage vehicle. 2,325,731; Aug. 3.
Ariotti, Guido, and E. H. Bucy, Stamford, Conn., assignors to Atlas Powder Company, Wilmington, Del. Simulated hammered metal finish. 2,326,001; Aug. 3.
Armstrong Cork Company. (See Spencer, Virgil, assignor.)
Artsay, Nicholas C., Valhalla, assignor to Foster Wheeler Corporation, New York, N. Y. Vapor generator. 2,325,583; Aug. 3.
Arvey Corporation. (See Godell, Sidney, assignor.)
Associated Patentees, Inc. (See Borton, Alwyn E., assignor.)
Atkinson, Frank, Oxford, Ind. Fender de-icer. 2,325,901; Aug. 3.

Atlantic Coast Fisheries Company, The. (See Hunt, William H., assignor.)
Atlas Powder Company. (See Ariotti, G., and Bucy, assignors.)
Autogiro Company of America. (See Pullin, Cyril G., assignor.)
Autoxygen, Inc. (See Kokatnur, V. R., and Jacobs, assignor.)
Avigdor, Rifat, Geneva, Switzerland. Submersible Electric motor. 2,325,930; Aug. 3.
Avigdor, Rifat, Leaside, Ontario, Canada. Fuel feeding device for aircraft. 2,325,931; Aug. 3.
Baak, Albert E., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Control of fuel feeding devices. 2,326,002; Aug. 3.
Badgley, Laurie C., Springfield, Ill. Pipe lock and the like. 2,325,580; Aug. 3.
Bailey, Harry W., and G. A. Clay, Kansas City, Mo. Tank closure. 2,326,003; Aug. 3.
Banker, Oscar H., assignor to New Products Corporation, Chicago, Ill. Valve actuating mechanism. 2,325,932; Aug. 3.
Barber, Alfred W., Flushing, N. Y., assignor to Boonton Radio Corporation, Boonton, N. J. Wide range amplifier. 2,325,933; Aug. 3.
Barnhart, Philip S., Westfield, assignor to Westfield River Paper Company, Inc., Russell, Mass. Making coated laminated paper. 2,325,584; Aug. 3.
Barrett, Arthur, London, England. Lamp fitting for use in flashlight photography. 2,326,004; Aug. 3.
Barrett, Harry B., St. Louis, Mo. Grinding machine. 2,325,826; Aug. 3.
Barton, Benjamin D., assignor to American-Marsh Pumps, Inc., Battle Creek, Mich. Tank for vehicles. 2,325,648; Aug. 3.
Baselt, Walter H., and C. E. Tack, assignors to American Steel Foundries, Chicago, Ill. Brake arrangement. 2,325,934; Aug. 3.
Batten, Percy H., trustee, et al. (See Lysholm, A., and Boestad, assignor.)
Batterson, Dwight C., Hinsdale, Ill., assignor to Reeves Pulley Company, Columbus, Ind. Constant belt position resiliently expansible pulley. 2,325,649; Aug. 3.
Bauer, William G., Brooklyn, Md. Emergency alarm system. 2,325,902; Aug. 3.
Baum, Donald H. (See Williams, H. W., Martin, and Baum.)
Baumbach, Georg, Berlin, Germany; vested in Alien Property Custodian. Electron tube mounting. 2,325,825; Aug. 3.
Baxter, Harold G., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Circuit breaker. 2,325,650; Aug. 3.
Bazell, Jacob, Stapleton, Staten Island, assignor to International Projector Corporation, New York, N. Y. Film splicing machine. 2,325,651; Aug. 3.
Becker, Rudolph, North Plainfield, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Thread-controlling mechanism for sewing machines. 2,325,995; Aug. 3.
Bedell, Lester D. (See Deerwester, C. H., and Bedell.)
Belden Manufacturing Company. (See Christensen, M. P., assignor.)
Bell Telephone Laboratories, Inc. (See Hampton, L. N., and Smith, assignors.)
Bell Telephone Laboratories, Inc. (See Henning, Harley A., assignor.)
Bell Telephone Laboratories, Inc. (See Morris, Charles M., assignor.)
Bell Telephone Laboratories, Inc. (See Morton, E. R., and Stoller, assignors.)
Bell Telephone Laboratories, Incorporated. (See Van Wynen, Kenneth G., assignor.)
Bendix Aviation Corporation. (See Frank, Frederick C., assignor.)
Bendix Aviation Corporation. (See Van Ness, H. E., and MacBlane, assignors.)
Benton, Kenneth H., Pittsfield, Mass., assignor to General Electric Company. Electrical protective device. 2,325,935; Aug. 3.
Berger, Hans H. (See Cusack, C. E., and Berger.)
Bergman, Charles P., San Francisco, Calif., and M. Cornell, Cleveland, Ohio, assignors, by mesne assignments, to Pittsburgh Equitable Meter Company, Pittsburgh, Pa. Repeating mechanical valve shut-off system. 2,325,732; Aug. 3.
Berry, Wallace S. (See Wahlberg, N. E., Phelps, and Berry.)
Bertell, Paul. (See La Hodny, W., and Bertell.)

Betts, Everett D., Fowlerville, assignor to Ann Arbor Foundry Company, Inc., Ann Arbor, Mich. Outdoor cooking stove. 2,325,828; Aug. 3.
Bickel, Clifford A., assignor to The Monarch Machine Tool Co., Sidney, Ohio. Rapid traverse mechanism for lathes. 2,325,733; Aug. 8.
Bierwirth, Rudolph A., Haddon Heights, N. J., assignor to Radio Corporation of America. Drying method. 2,325,652; Aug. 3.
Bingham, William A., Euclid, Ohio. Wall construction. 2,325,653; Aug. 3.
Bishop, Robert H., Jr., Readfield, Maine. Lycopodium harvester or clipper. 2,325,734; Aug. 3.
Black, Lawrence F., and C. H. Mellor, U. S. Army, Denver, Colo. Electrical heating device. 2,325,585; Aug. 3.
Blair, George W., and V. H. Bodle, assignors to Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind. Making sponge rubber material. 2,325,903; Aug. 3.
Blake, Edward S., Nitro, W. Va., assignor to Monsanto Chemical Company, St. Louis, Mo. Vulcanization of rubber. 2,325,735; Aug. 3.
Blaw-Knox Company. (See Fuchs, Oscar M., assignor.)
Blume, Louis F., Pittsfield, Mass., assignor to General Electric Company. Regulating circuit. 2,325,936; Aug. 3.
Bodle, Virgil. (See Blair, G. W., and Bodle.)
Boestad, Gustav K. W. (See Lysholm, A., and Boestad, assignor.)
Bolton, Elmer K., and D. D. Coffman, Wilmington, and L. Gilman, Arden, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Polymeric guanidines and preparing the same. 2,325,586; Aug. 3.
Boonton Radio Corporation. (See Barber, Alfred W., assignor.)
Borchers, Irvin E., LaFayette, Ind., assignor to De Kalb Agricultural Association, Inc., De Kalb, Ill. Corn sheller. 2,325,654; Aug. 3.
Borden Company, The. (See Erekson, Arthur B., assignor.)
Borg-Warner Corportion. (See Osborne, William B., assignor.)
Borton, Alwyn E., South Orange, assignor to Associated Patentees, Inc., Ampere, N. J. Reel. 2,326,092; Aug. 3.
Boswau, Hans P., assignor to The Lorain County Radio Corp., Lorain, Ohio. Signaling system. 2,325,829; Aug. 3.
Bowdil, Company, The. (See Morrow, Harry M., assignor.)
Bowman, Samuel, Hollywood, Calif. Sheet metal brake. 2,325,736; Aug. 3.
Boyer, Chauncey A. (See Simmons, James T., assignor.)
Boys, Clyde H., Drexel Hill, Pa., assignor to Hercules Powder Company, Wilmington, Del. Rubber compounding. 2,325,737; Aug. 3.
Bradley, Anson K., assignor to Morgan Construction Company, Worcester, Mass. Feeding mechanism. 2,326,005; Aug. 3.
Brandt, David G., Westfield, N. J., assignor to Cities Service Oil Company, New York, N. Y. Conversion of mineral oils. 2,325,587; Aug. 3.
Brandt, David G., Westfield, N. J., assignor to Cities Service Oil Company, New York, N. Y. Recovery and fractionation of light hydrocarbons. 2,325,588; Aug. 3.
Brangle, Edward M., Newburgh Heights, and V. W. Kolasinski, Garfield Heights, Ohio. Traveling strip guide. 2,325,738; Aug. 3.
Brasher, Philip, Kent, Conn. Method of and apparatus for collapsing water waves. 2,325,937; Aug. 3.
Brebeck, Charles, Herkimer, N. Y. Sine bar. 2,325,904; Aug. 3.
Bressler, Robert E., assignor to Kol-Master Corporation, Oregon, Ill. Apparatus for burning fuel. 2,325,655; Aug. 3.
Bried, Edward A., Elsmere, assignor to Hercules Powder Company, Wilmington, Del. Acetaldehyde-formaldehyde condensation product. 2,325,589; Aug. 3.
Brillo Manufacturing Company. (See Field, C., and Toole, assignors.)
Brock, Clarence A., assignor to Rexair, Inc., Detroit, Mich. Nozzle for vacuum cleaners. 2,325,739; Aug. 3.
Brook, Arthur F., Madison, N. J. Binding. 2,325,938; Aug. 3.
Brophy, John J., Salem, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Reinforcing shoe parts. 2,325,656; Aug. 3.
Brown, E. Mary. (See Poutain, M. D., assignor.)
Brown Instrument Company. (See Moore, Coleman B., assignor.)
Brunstrum, Lawrence C. (See Weitkamp, A. W., and Brunstrum.)
Bruson, Herman A., assignor to The Resinous Products & Chemical Company, Philadelphia, Pa. Synthetic resin from polyacetoacetates of polyhydric alcohols and formaldehyde. 2,326,006; Aug. 3.
Bucy, Edmond H. (See Ariotti, G., and Bucy.)
Budd Wheel Company. (See Strickland, Harold A., Jr., assignor.)
Buehler, Allan M., Preston, Ontario, Canada. Garden implement. 2,325,939; Aug. 3.
Burdick, Richard, Dallas, Tex. Display. 2,325,830; Aug. 3.
Burkness, Neal B., Los Angeles, Calif. Combined filter, dehydrator, and indicator. 2,325,657; Aug. 3.
C. Lorenz Aktiengesellschaft. (See Baumbach, Georg, assignor.)
Cameron, William J., Chicago, Ill. Cavity inspection device. 2,325,831; Aug. 3.
Candor, Robert R., Oakwood, assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,325,658; Aug. 3.
Canning, William P., assignor to American Optical Company, Southbridge, Mass. Lens surfacing device. 2,325,740; Aug. 3.
Capstaff, John G., assignor to Eastman Kodak Company, Rochester, N. Y. Sensitometry. 2,326,007; Aug. 3.
Carlisle, Richard W., Elmsford, and A. J. Mastropole, New York, assignors to Sonotone Corporation, Elmsford, N. Y. Earphone. 2,325,590; Aug. 3.
Carter, Franklyn Y., assignor to Detroit Lubricator Company, Detroit, Mich. Refrigerating system. 2,326,093; Aug. 3.
Casco Products Corporation. (See Lehmann, Herbert G., assignor.)
Castle, John E. (See Neilson, David, assignor.)
Caulfield, Edward W., St. Petersburg, Fla. Suppressor. 2,325,905; Aug. 3.
Celanese Corporation of America. (See Moss, W. H., assignor.)
Chace, Thomas B., Winnetka, assignor to Clad Metals Industries, Inc., Chicago, Ill. Composite metal stock. 2,325,659; Aug. 3.
Chamberlain, Harold L., Knoxville, Tenn., assignor to Electro Manganese Corporation, Minneapolis, Minn. Electrodeposition of manganese and cathode therefor. 2,325,660; Aug. 3.
Chamberlain, Inc. (See Faber, Robert E., assignor.)
Chenault, Roy L., Oakmont, assignor to Gulf Research & Development Company, Pittsburgh, Pa. Filter for inverted pumps. 2,325,661; Aug. 3.
Chertok, Oscar J., Brooklyn, N. Y. Shoe tip protector. 2,325,741; Aug. 3.
Christensen, Mitchell P., Chicago, Ill., assignor to Belden Manufacturing Company. Magnet casting. 2,325,832; Aug. 3.
Christiansen, Walter G., Glen Ridge, N. J., and J. M. Ort, Rockville Centre, assignors to E. R. Squibb & Sons, New York, N. Y. Preparing cyclopropane. 2,325,591; Aug. 3.
Cities Service Oil Company. (See Brandt, David G., assignor.)
Clad Metals Industries, Inc. (See Chace, Thomas B., assignor.)
Claffey, Thomas J., Oconomowoc, Wis. Identification tag. 2,325,906; Aug. 3.
Clark, Le Roy V., Latrobe, Pa., assignor to American Cyanamid and Chemical Corporation, New York, N. Y. Initiator and cap. 2,325,742; Aug. 3.
Clark, Le Roy V., Latrobe, Pa., assignor to American Cyanamid & Chemical Corporation, New York, N. Y. Use of lead salts of nitroamino guanidine as initiating charge in firing devices. 2,326,008; Aug. 3.
Clarke, Oliver H., Washington, D. C. Razor. 2,325,662; Aug. 3.
Clay, George A. (See Bailey, H. W., and Clay.)
Claybourn, Glen L., Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. System of electric power distribution. 2,325,663; Aug. 3.
Clayton, James O. (See Farrington, B. B., Clayton, and Rutherford.)
Cleveland Pneumatic Tool Company, The. (See Wallace, John F., assignor.)
Cobel, Ray C., assignor to A. H. Heisey & Company, Newark, Ohio. Glass prism. 2,326,009; Aug. 3.
Coffmen, Donald D. (See Bolton, E. K., Coffman, and Gilman.)
Cohn, Henny, Eidenhoven, Netherlands; vested in the Alien Property Custodian. Electron discharge device. 2,325,664; Aug. 3.
Collins, Gilbert L., Birmingham, Ala. Device for electric welding. 2,325,743; Aug. 3.
Colmbus Auto Parts Company, The. (See Flumerfelt, William A., assignor.)
Columbus McKinnon Chain Corporation. (See Parker, H. F., Robbins, and Gilbert, assignors.)
Converse Rubber Company. (See Nute, E. L., and Willey, assignors.)
Cook, Harold H., Steward, Ill. Loader. 2,325,833; Aug. 3.
Cooper, Benjamin, Jersey City, N. J. Motor operated key identifier. 2,325,744; Aug. 3.
Cooper, Harry G. (See Downer, C. P., and Cooper.)
Cornell, Mead. (See Bergman, C. P., and Cornell.)
Corning Glass Works. (See Dalton, Robert H., assignor.)
Corning Glass Works. (See Jackson, John K., assignor.)
Corning Glass Works. (See Littleton, Jesse T., assignor.)
Corning Glass Works. (See Nordberg, Martin E., assignor.)
Coss, Harold T., Somerville, N. J., assignor to Johns-Manville Corporation, New York, N. Y. Method and apparatus for producing mineral wool. 2,325,940; Aug. 3.

Cox, David C., assignor to Electric Sorting Machine Company, Grand Radips, Mich. Sorting machine. 2,325,665; Aug. 3.

Craig, Harvey A., Darien, Conn., assignor to Rheem Manufacturing Company, Richmond, Calif. Reducer attachment for pouring spouts. 2,325,834; Aug. 3.

Crane, Albert. (See Walther, Lucian E., assignor.)

Crane Co. (See Schmidt, E. G., and Yant, assignors.)

Crane Packing Company. (See Teeple, Charles P., assignor.)

Crom, John M., Jackson Heights, N. Y. Leakproof construction of tanks and the like. 2,326,010; Aug. 3.

Crum, Roland R., Whittier, Calif. Rotary drilling bit. 2,325,745; Aug. 3.

Currie, Gilbert, Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Switch mechanism. 2,326,011; Aug. 3.

Curtis, Frank W., assignor to Van Norman Machine Tool Company, Springfield, Mass. Metal cutting tool with inserted teeth. 2,325,746; Aug. 3.

Cusack, Charles E., and H. H. Berger, assignors to The McCass Company, Los Angeles, Calif. Apparatus for roasting coffee. 2,326,094; Aug. 3.

Cutler-Hammer, Inc. (See Millemaster, R. A., and Writzmann, assignors.)

Czachorski, Robert S., Grand Rapids, Mich. Signalling device. 2,325,666; Aug. 3.

Dailey, Gardner A., San Francisco, Calif. Demountable roof. 2,325,747; Aug. 3.

Dailey, Hampton J.., Bloomfield, and W. J. Knochel, Irvington, N. J., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Supporting pin. 2,325,748; Aug. 3.

Dalton, Robert H., assignor to Corning Glass Works, Corning, N. Y. Glass article and making it. 2,326,012; Aug. 3.

Damrow, George E., Glen Ridge, assignor to Pie-Pak Company, Inc., Hoboken, N. J. Display package. 2,326,013; Aug. 3.

Damrow, George E., Glen Ridge, assignor to Pie-Pak Company, Inc., Hoboken, N. J. Display package. 2,326,014; Aug. 3.

Davis, Ernest, assignor to The Prosperity Company, Inc., Syracuse, N. Y. Textile ironing press. 2,326,015; Aug. 3.

De Boer, Jan H., London, England, assignor to The Hartford National Bank and Trust Company, Hartford, Conn. Flash lamp. 2,325,667; Aug. 2, 1943.

Deems, Edward M. (See Lavarack, F. C., and Deems.)

Deerwester, Charles H., Washington, D. C., and L. D. and L. D. Bedell, Harrisburg, Pa. Stabilizer. Aug. 3.

Degler, Edward T., Elkins, W. Va. Trestle. 2,325,592; Aug. 3.

De Kalb Agricultural Association, Inc. (See Borchers, Irvin E., assignor.)

Delamere, Rudolf D., V. G. Williams, E. R. Grange, and H. Heaton, Toronto, Ontario, Canada. Targaret apparatus. 325,593; Aug. 3.

Delay, Fernand, assignor of one-half to C. A. Schmitt, Geneva, Switzerland. Time fuse for projectiles. 3,325,749; Aug. 3.

Denman, Harry B., assignor to Detroit Gasket & Mfg. Co., Detroit, Mich. Sheet metal sound damping material. 2,325,594; Aug. 3.

Detroit Gasket & Mfg. Co. (See Denman, Harry B., assignor.)

Detroit Lubricator Company. (See Carter, Franklyn Y., assignor.)

Detroit Lubricator Company. (See Dillman, Earnest J., assignor.)

De Vries, Margaret, Roslyn Heights, N. Y. Convertible doll. 2,325,750; Aug. 3.

D'Ianni, James D., assignor to Wingfoot Corporation, Akron, Ohio. Brominated acrylonitriles and method of preparing the same. 2,326,095; Aug. 3.

Dickey, Joseph B. (See McNally, J. G., and Dickey.)

Dickson, Arthur H.. Scarsdale, assignor to International Business Machines Corporation, New York, N. Y. Statistical machine. 2,325,941; Aug. 3.

Dieke, Frederick G., St. Petersburg, Fla. Brush holder. 2,325,595; Aug. 3.

Dillman, Earnest J., assignor to Detroit Lubricator Company, Detroit, Mich. Thermostatic control device. 2,326,090; Aug. 3.

Dillon-Beck Manufacturing Co. (See Dillon Daniel C., Jr., assignor.)

Dillon, Daniel C., Jr., East Orange, assignor to Dillon-Back Manufacturing Co., Irvington, N. J. Collapsible safety razor. 2,325,751; Aug. 3.

Dodge, Howard M., Wabash, Ind., assignor to The General Tire & Rubber Company, Akron, Ohio. Molding apparatus for making thin walled hollow articles. 2,325,752; Aug. 3.

Doering, Charles, Chicago, Ill. Edible plastic substance cutter. 2,326,016; Aug. 3.

Dolt, Maurice L., Plainfield, and A. G. Hill, North Branch, N. J., assignor to American Cyanamid Company, New York, N. Y. Making dinitro cresol. 2,325,753; Aug. 3.

Doughty, William E., assignor to James Vernor Company, Detroit, Mich. Device for washing glasses and the like. 2,326,017; Aug. 3.

Doughty, William E., assignor to James Vernor Company, Detroit, Mich. Device for sterilizing glasses and the like. 2,326,018; Aug. 3.

Downer, Charles P., Winchester, and H. G. Cooper, West Medford, Mass., assignors to The Prosperity Company, Inc., Syracuse, N. Y. Completely machine-ironing shirts. 2,325,907; Aug. 3.

Dowty, George H., Cheltenham, England. Landing gear of aircraft. 2,326,019; Aug. 3.

Dowty, George H., Cheltenham, England. Aircraft landing gear. 2,326,020; Aug. 3.

Drake, William E., assignor to Hynson, Westcott & Dunning, Incorporated, Baltimore, Md. Dispensing envelope. 2,325,942; Aug. 3.

Dreyfus, Camille, New York, N. Y. Composite material. 2,325,668; Aug. 3.

Dreyfus, Camille, New York, N. Y. Laminated wood product. 2,325,669; Aug. 3.

Drummond, Robert S., Detroit, Mich. Gear crowning. 2,325,836; Aug. 3.

Drycor Felt Company. (See Kopriva, C. J., and Gates, assignors.)

Du Pont, E. I., de Nemours & Company. (See Adams, Roger, assignor.)

Du Pont, E. I., de Nemours & Company. (See Bolton, E. K., Coffman, and Gilman, assignors.)

Dyer, John B., assignor to General Motors Corporation, Dayton, Ohio. Domestic appliance. 2,325,837; Aug. 3.

Dyrr, Jacob V., Bell, Calif., assignor to International Harvester Company. Implement control device. 2,325,838; Aug. 3.

Eastman, Du Bois, Port Arthur, Tex., and L. P. Scoville, Yonkers, assignors, by mesne assignments, to The Texas Company, New York, N. Y. Rectifying hydrocarbons. 2 325,839; Aug. 3.

Eastman Kodak Company. (See Capstaff, John G., assignor.)

Eastman Kodak Company. (See Gillon, J. W., and Haraden, assignors.)

Eastman Kodak Company. (See McNally, J. G., and Dickey, assignors.)

Eastman Kodak Company. (See McNally, J. G., Fordyce, and Talbot, assignors.)

Eastman Kodak Company. (See Morris, Robert A., assignor.)

Eastman Kodak Company. (See Nadeau, Gale F., assignor.)

Eastman Kodak Company. (See Nadeau, G. F., and Slack, assignors.)

Eastman Kodak Company. (See Zabriskie, John W., assignor.)

Eaton Manufacturing Company. (See Findley, Howard J., assignor.)

Ebert, Edward A., Buffalo, N. Y. Portable electric fan. 2,325,754; Aug. 3.

Edstrom, Karl A., assignor to The Electric Alarms Company, Inc., Denver, Colo. Inertia switch. 2,325,908; Aug. 3.

Eggebrecht, Oscar, Wausau, assignor to Marathon Paper Mills Company, Rothschild, Wis. Shell carton. 2,325,755; Aug. 3.

Eggebrecht, Oscar, Wausau, K. Koehler, Neenah, and F. J. Gruper, Jr., Menasha, assignors to Marathon Paper Mills Company, Rothschild, Wis. Cartridge carton. 2,325,756; Aug. 3.

Ehlers, Edward, Montclair, N. J. Heating furnace. 2,325,757; Aug. 3.

Eisele, Andrew, Detroit, Mich. Gauge. 2,325,996; Aug. 3.

Electric Alarms Company, The. (See Edstrom, Karl A., assignor.)

Electric Sorting Machine Company. (See Cox, David C., assignor.)

Electro Manganese Corporation. (See Chamberlain, Harold L., assignor.)

Electro Manganese Corporation. (See Wanamaker, E. M., and Morgan, Jr., assignors.)

Erekson, Arthur B., Plymouth, Wis., assignor to The Borden Company, New York, N. Y. Packaging apparatus. 2,325,670; Aug. 3.

Erickson, John A., Jackson, Mich. Waterproofing fuel briquettes. 2,325,840; Aug. 3.

Ericsson, Ralph L., East Orange, N. J., assignor to Westvaco Chlorine Products Corporation, New York, N. Y. Brominating wool. 2,326,021; Aug. 3.

Evans, Edwin R., Orchard Lake, Mich. Disk brake. 2,325,596; Aug. 3.

Everett Developments Limited. (See Everett, Samuel J., assignor.)

Everett, Samuel J., assignor to Everett Developments Limited, Thornton Heath, England. Manufacture of needles and needle-like articles. 2,326,022; Aug. 3.

Ex-Cell-O Corporation. (See Seyferth, Harold N., assignor.)

Faber, Robert E., assignor to Chamberlain, Inc., Chicago, Ill. Handle for utensils. 2,325,841; Aug. 3.

Farrington, Bruce B., J. O. Clayton, and J. T. Rutherford, Berkeley, assignors to Standard Oil Company of California, San Francisco, Calif. Compounded mineral oil. 2,325,597; Aug. 3.

Fatland, Conrad, Chicago, Ill. Dust mop. 2,325,598; Aug. 3.

Ferguson, Selma O., Los Angeles, Calif. Waterhead device. 2,325,758; Aug. 3.

Fessler Machine Company. (See Tyrrell, Emmet R., assignor.)

Fidelman, Paul, assignor of one-half to N. P. Zablow, New York, N. Y. Device for indicating improper trigger pulling. 2,325,599; Aug. 3.

Field, Crosby, Brooklyn, and G. C. Toole, St. Albans, N. Y., assignors to Brillo Manufacturing Company, Inc. Apparatus for forming and impregnating fibrous pads. 2,325,600; Aug. 3.

Finch, Donald I., assignor to Leeds & Northrup Company, Philadelphia, Pa. Ferrous alloy thermocouple element. 2,325,759; Aug. 3.

Findley, Howard J., Shaker Heights, assignor to Eaton Manufacturing Company, Cleveland, Ohio. Ventilating apparatus. 2,325,842; Aug. 3.

Finley Tilbert L., Bonham, Tex. Shoeshining apparatus. 2,325,843; Aug. 3.

Fischer, Friedrich E., Zurich-Erlenbach, Switzerland. Magnetic recording and reproducing apparatus for use with steel bands, wires, or the like. 2,325,844; Aug. 3.

Fitzky, Wilhelm, Frankfort-on-the-Main-Hochst, Germany, assignor, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y. Cyclic acetals of formaldehyde and preparing them. 2,325,760; Aug. 3.

Fleischer, Max, Miami Beach, Fla. Calculator. 2,325,761; Aug. 3.

Fletcher, Arthur T., Bristol, Conn. Glass cutter. 2,325,943; Aug. 3.

Fletcher, Ed. (See Thomas, J. H., and Fletcher.)

Flumerfelt, William A., assignor to The Columbus Auto Parts Company, Columbus, Ohio. Joint construction. 2,325,845; Aug. 3.

Folmer Graflex Corporation. (See Smith, B. L., and Whitman, assignors.)

Folmer Graflex Corporation, The. (See Steiner, Oscar, assignor.)

Food Machinery Corporation. (See Kerr, Charles E., assignor.)

Food Machinery Corporation. (See Porch, Howard L., assignor.)

Food Machinery Corporation. (See Thompson, A. R., and Magnuson, assignors.)

Forbes, Joseph A., assignor to Kelsy-Hayes Wheel Company, Detroit, Mich. Braking apparatus. 2,325,846: Aug. 3.

Ford, Carl F., Sigourney, Iowa. Boat loading attachment for automobiles. 2,325,762; Aug. 3.

Fordyce, Charles R. (See McNally, J. G., Fordyce, and Talbot.)

Foster Wheeler Corporation. (See Artsay, Nicholas C., assignor.)

Frank, Frederick C., assignor to Bendix Aviation Corporation, South Bend, Ind. Brake. 2,325,944; Aug. 3.

Fredricksen, Cheney S., Jensen, Fla. Adjustable handle. 2,326,023; Aug. 3.

Frost, Bernard J., assignor to Richards, Boggs & King, Inc., Chicago, Ill. Snap fastener. 2,325,847; Aug. 3.

Fry, Horace P., Jr., Swarthmore, Pa., assignor to American Viscose Corporation, Wilmington, Del. Spinning bucket. 2,325,763; Aug. 3.

Fuchs, Oscar M., assignor to Blaw-Knox Company, Pittsburgh, Pa. Furnace door. 2,325,945; Aug. 3.

Fuller, W. P., & Co. (See Acker, Haroid L., assignor.)

Gail, Charles C., Richmond Hill, N. Y. Musical directing device. 2,325,764; Aug. 3.

Gartenmeister, Walter, Bergfeld, Germany; vested in the Alien Property Custodian. Rotation-symmetric reflector. 2,325,765; Aug. 3.

Garvey, Benjamin S., Jr., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Softening synthetic rubber. 2,325,946; Aug. 3.

Garvey, Benjamin S., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Softener for synthetic rubber. 2,325,947; Aug. 3.

Garvey, Benjamin S., Jr., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Softeners for synthetic rubber. 2,325,948; Aug. 3.

Gates, Percival T. (See Kopriva, C. J., and Gates.)

Gats, Thomas L., Villa Park, assignor of one-half to W. S. Stone, Glen Ellyn, Ill. Can-opening key. 2,325,601; Aug. 3.

Gay, Paul S., assignor to Wilcox-Gay Corporation, Charlotte, Mich. Power and brake control for recording apparatus. 2,325,602; Aug. 3.

Gayer, John D., Springfield, Pa., assignor to General Electric Company. Electric circuit breaker. 2,325,949; Aug. 3.

General Aniline & Film Corporation. (See Fitzky, Wilhelm, assignor.)

General Aniline & Film Corporation. (See Nusslein, J., and Muller, assignors.)

General Aniline & Film Corporation. (See Schmidt, K., and Wahl, assignors.)

General Electric Company. (See Andersen, Henry A., assignor.)

General Electric Company. (See Benton, Kenneth H., assignor.)

General Electric Company. (See Blume, Louis F., assignor.)

General Electric Company. (See Gayer, John D., assignor.)

General Electric Company. (See Macchi, Aldo, assignor.)

General Electric Company. (See McArthur, Elmer D., assignor.)

General Electric X-Ray Corporation. (See Kizaur, Arthur J., assignor.)

General Motors Corporation. (See Candor, Robert R., assignor.)

General Motors Corporation. (See Dyer, John B., assignor.)

General Motors Corporation. (See Perrine, Lester E., assignor.)

General Railway Signal Company. (See Smith, P. W., assignor.)

General Spring Corporation. (See Wood, Joseph K., assignor.)

General Tire & Rubber Company, The. (See Dodge, Howard M., assignor.)

Genest, Homer A., Danbury, Conn., assignor to United States Hat Machinery Corporation, New York, N. Y. Machine for shrinking and felting hat bats. 2,325,909; Aug. 3.

George, James E., South Charleston, W. Va., assignor to Westvaco Chlorine Products Corporation, New York, N. Y. Evaporator. 2,326,024; Aug. 3.

Germeshausen, Kenneth J., Cambridge, assignor to Raytheon Manufacturing Company, Newton, Mass. Igniter mercury-pool tubes. 2,325,603; Aug. 3.

Gerry, William R., assignor to Shakespeare Products Company, Kalamazoo, Mich. Control mechanism. 2,325,671; Aug. 3.

Gibbs, William J., and E. F. Smith, Brooklyn, N. Y. Dispenser for tableware. 2,325,604; Aug. 3.

Gilbert, Lowell B. (See Parker, H. F., Robins, and Gilbert.)

Gilden, Charles W., and J. A. Hausmann, Fort Wayne, Ind., assignors to International Harvester Company. Tire carrier. 2,325,848; Aug. 3.

Gillette Safety Razor Company. (See Hanley, John A., assignor.)

Gillon, John W., and G. A. Haraden, assignors to Eastman Kodak Company, Rochester, N. Y. Camera back latch. 2,326,025; Aug. 3.

Gilman, Lucius. (See Bolton, E. K., Coffman, and Gilman.)

Gisondi, Emanuel, Scarsdale, N. Y. Nail and fastener. 2,325,766; Aug. 3.

Glouton, Paul, Philadelphia, Pa. Micrometer gauge. 2,325,767; Aug. 3.

Godell, Sidney, assignor to Arvey Corporation, Chicago, Ill. Toy vehicle. 2,326,026; Aug. 3.

Godell, Sidney, assignor to Arvey Corporation, Chicago, Ill. Toy vehicle. 2,326,027; Aug. 3.

Goodrich, B. F., Company, The. (See Garvey, Benjamin S., Jr., assignor.)

Goodrich, B. F., Company, The. (See Garvey, Benjamin S., assignor.)

Goodrich, B. F., Company, The. (See Gresham, T. L., assignor.)

Goodrich, B. F., Company, The. (See Leguillon, Charles W., assignor.)

Goodrich, B. F., Company, The. (See Sarbach, Donald V., assignor.)

Goodrich, B. F., Company, The. (See Semon, Waldo L., assignor.)

Grange, Edward R. (See Delamere, R. D., Williams, Grange, and Heaton.)

Grant, Francis R. (See Allinson, J. J., Poole, and Grant.)

Greene, Fred C., Freeport, Maine. Ax. 2,325,768; Aug. 3.

Greene, Nathan J., Worthington, and G. C. Reese, assignors to National Electric Coil Company, Columbus, Ohio. Drying oven. 2,325,950; Aug. 3.

Greener, Charles I. (See Manaster, Ben B., assignor.)

Gresham, Thomas L., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Polyvinyl halide composition. 2,325,951; Aug. 3.

Griffiths, William T., Battledown, Cheltenham, England. assignor to The International Nickel Company, Inc., New York, N. Y. Sparking plug electrode. 2,326,028; Aug. 3.

Grinsfelder, Henry. (See Lott, de F., Grinsfelder, and Hamway.)

Groene, William F., and H. J. Siekmann, assignors to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Steady rest for lathes. 2,325,849; Aug. 3.

Groff, Joseph C., Allentown, Pa. Reciprocating plunger pump. 2,325,672; Aug. 3.

Gruender, Oscar C., and E. Werner, assignors to Nordberg Manufacturing Co., Milwaukee, Wis. Impact member for impact crushers and securing means therefor. 2,325,605; Aug. 3.

Grunt, Max, Summit, N. J. Filing system. 2,326,029; Aug. 3.

Gruper, Frank J., Jr. (See Eggebrecht, O., Koehler, and Gruper.)

Gulf Research & Development Company. (See Chenault, Roy L., assignor.)

Gurley, W. & L. E. (See Wilbur, Donald A., assignor.)

Gurley, W. & L. E. (See Witham, George S., Jr., assignor.)

Gurwick, Irving, assignor to Shellman Products Company, Mount Vernon, Ohio. Tobacco pouch and method of making same. 2,325,673; Aug. 3.

Gustafson, August W., Hutto, assignor of one-half to G. R. Lundelius, Round Rock, and one-fourth to C. V. Landsberry, Round Tree, Tex. Suction controlled filling attachment for tractor fuel tanks. 2,325,674; Aug. 3.

Gustafson, Hilding B., assignor to Infilco Incorporated, Chicago, Ill. Liquid treatment. 2,325,675; Aug. 3.

Haag, Joseph, assignor of sixty-six and two-thirds to J. J. Wittal, New York, N. Y. Machine for manufacturing linked sausages. 2,325,769; Aug. 3.

Hamilton, Francis E. (See Lake, C. C., and Hamilton.)

Hamilton, Perry H., Baltimore, Md., assignor, by mesne assignments, to Poor & Company, Chicago, Ill. Tie plate interlocking two-way rail anchor. 2,325,851; Aug. 3.

Hampton, Leon N., New York, N. Y., and G. G. Smith, Orange, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Signaling device. 2,325,952; Aug. 3.

Hamway, Edward G. (See Lott, de F., Grinsfelder, and Hamway.)

Hanley, John A., Noroton, Conn., assignor to Gillette Safety Razor Company, Boston, Mass. Shaving implement. 2,325,606; Aug. 3.

Hannaford, Cleon M., Toledo, Ohio, deceased; M. L. Hannaford, executrix. Combined journal box and sealing closure. 2,325,852; Aug. 3.

Hannaford, Marie L., executrix. (See Hannaford, Cleon M.)

Hanson, Gordon B., Houston, Tex., assignor to Petrolite Corporation, Ltd., Wilmington, Del. Treating oil. 2,325,850; Aug. 3.

Haraden, George A. (See Gillon, J. W., and Haraden, assignors.)

Harding, William G. (See Murtagh, H., and Harding.)

Harlem, Lewis W., Boston, Mass. Shopping bag. 2,325,853; Aug. 3.

Harris, Frederic R., New York, N. Y. Floating dry dock. 2,325,607; Aug. 3.

Hartford National Bank and Trust Company, The. (See de Boer, Jan H., assignor.)

Haug, Eugene H. (See Young, H. E., and Haug.)

Hauschild, Frederick J., Oneonta, N. Y. Vehicle wheel. 2,325,953; Aug. 3.

Hausmann, Joseph A. (See Gildea, C. W., and Hausmann.)

Hayes, John E., Montreal, Quebec, Canada. Low reactance switching device. 2,325,854; Aug. 3.

Hearn, William R., Cincinnati, Ohio. Pupillary scales. 2,326,030; Aug. 3.

Heaton, Hugh. (See Delamere, R. D., Williams, Grange, and Heaton.)

Heckmanns, Franz. (See Urbschat, E., and Heckmanns.)

Heisey, A. H., & Company. (See Cobel, Ray C., assignor.)

Hemphill, Stanley R., Seattle, Wash. Throttle brake control mechanism. 2,325,771; Aug. 3.

Henderson, Kenneth L., Irondequoit, assignor to Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Electrical shielding and locking means for thermionic tubes. 2,325,770; Aug. 3.

Hennessy, John F., assignor to Geo. D. Roper Corporation, Rockford, Ill. Kitchen heating gas range. 2,325,772; Aug. 3.

Hennessy, John F., assignor to Geo. D. Roper Corporation, Rockford, Ill. Oven observation window construction. 2,325,773; Aug. 3.

Henning, Harley A., Basking Ridge, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Coin disposal unit. 2,325,954; Aug. 3.

Hepp, Gerard, and J. van der Mark, Eindhoven, Netherlands; vested in the Alien Property Custodian. Cathode ray tube device. 2,325,676; Aug. 3.

Hercules Powder Company. (See Boys, Clyde H., assignor.)

Hercules Powder Company. (See Bried, Edward A., assignor.)

Hercules Powder Company. (See Lorand, Eugene J., assignor.)

Hetzel, Frank L., Hermosa Beach, Calif. Automotive brake testing machine. 2,325,910; Aug. 3.

Higgins, Thilda, Spokane, Wash. Insulated milk bottle cover. 2,325,955; Aug. 3.

Hill, Alfred G. (See Dolt, M. L., and Hill.)

Hoak, Clarence B., Steubenville, Ohio. Annealing furnace. 2,325,677; Aug. 3.

Hodnette, John K., and M. G. Leonard, Sharon, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Protective device for electrical apparatus and systems. 2,326,031; Aug. 3.

Hoffmann-La Roche Inc. (See Isler, Otto, assignor.)

Hofstetter, Robert, Alexandria, Va. Nut and bolt lock. 2,325,608; Aug. 3.

Hohl, George I., East Orange, N. J. Packaging machinery for razor blades and like articles. 2,325,774; Aug. 3.

Holman, Tom W., trustee. (See Snyder, Herald T., assignor.)

Holmes, Morris P., Claremont, N. H., assignor to Jones & Lamson Machine Company, Springfield, Vt. Backlash take-up for cross feed screw and taper attachments. 2,325,678; Aug. 3.

Holtman, Clemens W., Louisville, Ky., assignor to American Radiator & Standard Sanitary Corporation. Device for preventing back flow in liquid-carrying lines. 2,325,956; Aug. 3.

Homfeldt, William, Azcapotzalco, Mexico. Low pressure refining and cracking plant for hydrocarbons. 2,326,032; Aug. 3.

Hoover Company, The. (See Kitto, William H., assignor.)

Hoover Company, The. (See Pierce, F. L., White, and Whitaker, assignors.)

Hoover Company, The. (See White, Harry B., assignor.)

Horner, Glen M., and L. M. Naffziger, Pullman, Wash., assignors to C. R. Wickard, as Secretary of Agriculture of the United States of America, and his successors in office. Hinged moldboard plow. 2,326,097; Aug. 3.

Hornish, Mars M., Washington, Ill. Tractor drawn implement. 2,325,855; Aug. 3.

Hornish, Mars M., Washington, Ill. Tractor drawn implement. 2,325,856; Aug. 3.

Horton, Erwin C., Hamburg, assignor to Trico Products Corporation, Buffalo, N. Y. Window operator. 2,325,775; Aug. 3.

Hoyer, Arnold, Conshohocken, Pa., assignor to Kimble Glass Company, Vineland, N. J. Hydrometer. 2,325,776; Aug. 3.

Hraha, Edward. (See Moberg, Adolph L., assignor.)

Huddle, Edwin F., Elmwood Park, Ill., assignor to International Harvester Company. Harvesting machine. 2,325,857; Aug. 3.

Huffman, Hal C., Long Beach, assignor to Union Oil Company of California, Los Angeles, Calif. Catalytic dehydrogenation. 2,325,911; Aug. 3.

Hughes, Walter J., Chicago, Ill., assignor to Infilco Incorporated. Stabilization of liquids. 2,325,679; Aug. 3.

Hunt, William H., National City, Calif., assignor to The Atlantic Coast Fisheries Company, New York, N. Y. Filleting machine. 2,325,680; Aug. 3.

Hutcheson, John A., Catonsville, Md., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Apparatus for vibration testing. 2,326,033; Aug. 3.

Hynson, Westcott & Dunning, Incorporated. (See Drake, William E., assignor.)

Industrial Patents Corporation. (See Walter, Charles T., assignor.)

Infilco Incorporated. (See Gustafson, Hilding B., assignor.)

Infilco Incorporated. (See Hughes, Walter J., assignor.)

Ingersoll-Rand Company. (See Allen, Roy O., assignor.)

Interchemical Corporation. (See Pizzarello, Roy A., assignor.)

International Business Machines Corporation. (See Dickinson, Arthur H., assignor.)

International Business Machines Corp. (See Johnson, R. B., assignor.)

International Business Machines Corp. (See Lake, Clair D., assignor.)

International Business Machines Corp. (See Lake, C. D., and Hamilton, assignors.)

International Business Machines Corporation. (See Leathers, Ward, assignor.)

International Business Machines Corporation. (See Mills, Albert W., assignor.)

International Harvester Company. (See Dyrr, Jacob V., assignor.)

International Harvester Company. (See Gildea, C. W., and Hausmann, assignors.)

International Harvester Company. (See Huddle, Edward F., assignor.)

International Harvester Company. (See Mott, Carl W., assignor.)

International Harvester Company. (See Scarlett, Arthur A., assignor.)

International Harvester Company. (See Sisulak, Michael S., assignor.)

International Harvester Company. (See Smith, Hiram P., assignor.)

International Nickel Company, The. (See Griffiths, William T., assignor.)

International Projector Corporation. (See Baxell, Jacob, assignor.)

International Standard Electric Corporation. (See Litton, Charles V., assignor.)

Isaacson Iron Works. (See Allin, George S., assignor.)

Isler, Otto, Basel, Switzerland, assignor to Hoffmann-La Roche Inc., Nutley, N. J. Producing condensation products of 1,4-naphthydroquinones. 2,325,681; Aug. 3.

Ivers-Lee Company. (See Sabfisberg, Leroy L., assignor.)

Jackson, John K., assignor to Corning Glass Works, Corning, N. Y. Article grinding apparatus. 2,326,034; Aug. 3.

Jacobs, F. L., Co. (See Visser, John, assignor.)

Jacobs, F. L., Co. (See Westrope, Frederick J., assignor.)

Jacobs, Joseph J., Jr. (See Kokatnur, V. R., and Jacobs.)

Jacoel, Isidore, Buffalo, N. Y. Tool for splicing cables. 2,325,777; Aug. 3.

Jalbert, Adrien L., Haverhill, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Making prewelt shoes. 2,325,682; Aug. 3.

Jepson, Percy, Oakland, Calif. Multiple loading track or conveyer for fruit or vegetables. 2,325,862; Aug. 3.

Jessup, Markus W., Brazil, Ind. Vapor bath cabinet. 2,326,035; Aug. 3.

Johns-Manville Corporation. (See Coss, Harold T., assignor.)

Johns-Manville Corporation. (See Pearce, Gale T., assignor.)

Johnson, Carl E., Lomita, Calif. Crate for water bottles or carboys. 2,325,863; Aug. 3.

Johnson, Gladstone A., U. S. Army, Toulumne, Calif. Trailer. 2,325,609; Aug. 3.

Johnson, Reynold B., Binghamton, assignor to International Business Machines Corporation, New York, N. Y. Printing mechanism. 2,325,958; Aug. 3.

Jones & Lamson Machine Company. (See Holmes, M. P., assignor.)

Jones, Ruel C., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Circuit controlling apparatus. 2,326,036; Aug. 3.

Joy, Joseph F., Claremont, N. H. Fire control instrument. 2,325,610; Aug. 3.

Joy Manufacturing Company. (See Arentzen, E. M., and Lee, assignors.)

Jung, Albert H., Flushing, assignor to United American Metals Corporation, Brooklyn, N. Y. Fluid passage swivel joint. 2,326,037; Aug. 3.

Junkune, Stephen, Jr. (See Lessman, Gerhard, assignor.)

Katsaros, James. (See Moore, Edwin.)

Kayden, Gustave L., Woodmere, N. Y. Coffee roaster and percolator. 2,325,683; Aug. 3.

Kayden, Gustave L., Woodmere, N. Y. Combined coffee roaster and percolator. 2,325,684; Aug. 3.

Keefe, Arthur, Akron, Ohio. Air valve. 2,325,685; Aug. 3.

Kellermann, Marvin A., and D. W. Price, Chicago, Ill. Ball reprojector. 2,325,858; Aug. 3.

Kelly, Ernest, and H. J. Shepherd, Spokane, Wash.; said Shepherd assignor to said Kelly. Subsoil breaker. 2,325,997; Aug. 3.

Kelsey-Hayes Wheel Company. (See Forbes, Joseph A., assignor.)

Kennedy, John J. (See Von Ohlsen, L. H., and Kennedy.)

Keranen, George M., Homewood, assignor to Standard Oil Company, Chicago, Ill. Catalytic treatment of hydrocarbon oils. 2,325,611; Aug. 3.

Kerr, Charles E., Hoopeston, Ill., assignor to Food Machinery Corporation, San Jose, Calif. Corn husker. 2,325,859; Aug. 3.

Kerr, Clarence A., Kent, Wash. Core for concrete molds. 2,325,686; Aug. 3.

Kimble Glass Company. (See Hoyer, Arnold, assignor.)

Kimmich, Elmer G., assignor to Wingfoot Corporation, Akron, Ohio. Conveyer system. 2,326,098; Aug. 3.

Kirkpatrick, Wendell V., San Diego, Calif. Mechanical shorthand writing means. 2,325,612; Aug. 3.

Kirlin, Otis M., Detroit, Mich. Toggle C clamp. 2,325,613; Aug. 3.

Kitto, William H., Canton, assignor to The Hoover Company, North Canton, Ohio. Refrigeration. 2,325,778; Aug. 3.

Kizaur, Arthur J., Cicero, assignor to General Electric X-Ray Corporation, Chicago, Ill. Impulse timer. 2,325,860; Aug. 3.

Klaber, John J., New York, N. Y. Lintel. 2,325,614; Aug. 3.

Knochel, William J. (See Dailey, H. J., and Knochel.)

Koehler, Karl. (See Eggebrecht, O., Koehler, and Gruper.)

Kokatnur, Vaman R., Beechhurst, and J. J. Jacobs, Jr., Brooklyn, assignors to Autoxygen, Inc., New York, N. Y. Evaporating solvents from solutions. 2,326,099; Aug. 3.

Kolasinski, Vincent W. (See Brangle, Edward M.)

Kol-Master Corporation. (See Bressler, Robert E., assignor.)

Kopriva, Charles J., Bloomfield, and P. T. Gates, Montclair, assignors to Drycor-Felt Company, Belleville, N. J. Carrier or felting needle. 2,326,038; Aug. 3.

Kovalsky, Joseph F., Turtle Creek, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Regulator. 2,326,039; Aug. 3.

Kraber, Frank J., Los Angeles, Calif. Juice extractor. 2,325,779; Aug. 3.

Kreb, Gustave A., Milwaukee, Wis. Fishing reel. 2,325,861; Aug. 3.

Krogel, Christopher J., assignor to Western Electric Company, Incorporated, New York, N. Y. Cleaning metal. 2,325,957; Aug. 3.

Kronmiller, Carl G., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Combination switch. 2,326,040; Aug. 3.

Kux, Albert S., Chicago, Ill. Press for forming tablets and the like. 2,325,687; Aug. 3.

La Hodny, William, and P. Bertell, assignors to Standard Mirror Company, Buffalo, N. Y. Mounting for rear vision mirrors. 2,325,615; Aug. 3.

Lake, Clair D., Binghamton, assignor to International Business Machines Corporation, New York, N. Y. Printing control device. 2,325,959; Aug. 3.

Lake, Clair D., Binghamton, and F. E. Hamilton, Endicott, assignors to International Business Machines Corporation, New York, N. Y. Digit transmitting system. 2,325,960; Aug. 3.

Landis, Daniel O., Upper Darby, Pa., assignor to Radio Corporation of America. Sound translating apparatus. 2,325,688; Aug. 3.

Landweber, Louis, Bethesda, Md. Shroud ring. 2,325,616; Aug. 3.

Langford, Le Roy, Toccoa, Ga., assignor to R. G. Le Tourneau, Inc., Stockton, Calif. Yieldable coupling. 2,325,780; Aug. 3.

Lankford, Lyle G. (See Nurnberger, J. S., and Lankford.)

Lansberry, C. V., et al. (See Gustafson, August W., assignor.)

Lavallee, Louis J. A., Springfield, Mass. Plastic molding. 2,326,041; Aug. 3.

Lavarack, Frederick C., Montclair, N. J., and E. M. Deems, Forest Hills, assignors to Railroad Accessories Corporation, New York, N. Y. Wire terminal. 2,326,100; Aug. 3.

Leathers, Ward, Brooklyn, assignor to International Business Machines Corporation, New York, N. Y. Tape perforating apparatus. 2,325,961; Aug. 3.

Le Blanc, Edmond, Montreal, Quebec, Canada. Animated toy. 2,325,689; Aug. 3.

Le Blond, R. K., Machine Tool Company. (See Groene, W. F., and Siekmann, assignors.)

Lee, Arthur L. (See Arentzen, E. M., and Lee.)

Leeds & Northrup Company. (See Finch, Donald I., assignor.)

Legatski, Harold R., Bartlesville, Okla., assignor to Phillips Petroleum Company. Gas separation system. 2,325,781; Aug. 3.

Leguillon, Charles W., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Driving apparatus for crawler type vehicles. 2,325,690; Aug. 3.

Lehmann, Herbert G., Wood-Ridge, N. J., assignor to Casco Products Corporation, Bridgeport, Conn. Coffee maker. 2,325,912; Aug. 3.

Leishman, Le Roy J., Los Angeles, Calif. Turning control shafts to pre-selected angular positions. 2,325,864; Aug. 3.

Lennox Furnace Company, The. (See Vollmer, Earl C., assignor.)

Leonard, Merrill G. (See Hodnette, J. K., and Leonard.)

Lessman, Gerhard, Chicago, assignor to Stephen Junkune, Jr., Oak Park, Ill. Projector and viewing screen. 2,326,042; Aug. 3.

Le Tourneau, R. G., Inc. (See Langford, Le Roy, assignor.)

Le Tourneau, R. G., Inc. (See Le Tourneau, Robert G., assignor.)

Le Tourneau, Robert G., Peoria, Ill., assignor to R. G. Le Tourneau, Inc., Stockton, Calif. Rotary die caster. 2,325,782; Aug. 3.

Libbey-Owens-Ford Glass Company. (See Putnam, Erle T., assignor.)

Liddell, Urner, Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y. Guanidine ammonium ferrocyanide. 2,326,107; Aug. 3.

Liebig, William, Huntingdon, Pa. Artificial yarn and producing same. 2,326,043; Aug. 3.

Lily, Eli, and Company. (See Rohrmann, Ewald, assignor.)

Lion Oil Refining Company. (See Allinson, J. J., Poole, and Grant, assignors.)

Littleton, Jesse T., assignor to Corning Glass Works, Corning, N. Y. Glass forming apparatus. 2,326,044; Aug. 3.

Litton, Charles V., Redwood City, Calif., assignor to International Standard Electric Corporation, New York, N. Y. Electrode structure for velocity modulation tubes. 2,325,865; Aug. 3.

Litwin & Sons. (See Litwin, M., and Milner, assignors.)

Litwin, Max, and B. Milner, assignors to Litwin & Sons, Cincinnati, Ohio. Pin and socket connection. 2,325,691; Aug. 3.

Logan, Milon G., Albrook Field, Canal Zone. Typewriter hood. 2,325,962; Aug. 3.

Lorain County Radio Corp. (See Boswau, Hans P., assignor.)

Lorand, Eugene J., assignor to Hercules Powder Company, Wilmington, Del. Separation of lower polyhydric alcohols from polyhydric alcohol mixtures. 2,325,783; Aug. 3.

Lott, de Forest, H. Grinsfelder, and E. G. Hamway, assignors to Textileather Corporation, Toledo, Ohio. Thermoplastic adhesive composition. 2,325,963; Aug. 3.

Lundelius, G. R., et al. (See Gustafson, August W., assignor.)

Lysholm, Alf, Stockholm, and G. K. W. Boestad, Lidingo, Sweden, assignors, by mesne assignments, to J. C. Marble, L. M. Merrill, and P. H. Batten, as trustees. Rotor. 2,325,617; Aug. 3.

Lysholm, Alf, Stockholm, Sweden. Motive fluid for prime movers. 2,325,618; Aug. 3.

Lysholm, Alf, Stockholm, Sweden. Power plant for submarines and the like. 2,325,619; Aug. 3.

MacBlane, James. (See Van Ness, H. E., and MacBlane.)

Macchi, Aldo, Belleville, N. J., assignor to General Electric Company. Oil burner control. 2,325,964; Aug. 3.

MacKenzie Wilbur L., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Cementer for platform sole and wedge heel units. 2,325,784; Aug. 3.

Macormack, James G., et al. (See Amesbury, E. M., Macormack, Roberts, and Sample.)

Maddox, Guy R., Borger, Tex. Air conditioner. 2,325,692; Aug. 3.

Maeser, Mieth, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Cutting block. 2,325,620; Aug. 3.
Magnuson, Roy M. (See Thompson, A. R., and Magnuson.)
Manaster, Ben B., assignor of one-half to C. I. Greener, Chicago, Ill. Collar stay. 2,325,866; Aug. 3.
Marathon Paper Mills Company. (See Eggebrecht, Oscar, assignor.)
Marathon Paper Mills Company. (See Eggebrecht, O., Koehler, and Gruper, assignors.)
Marble, Jarvis C., trustee, et al. (See Lysholm, A., and Boestad, assignors.)
Marcus, Meyer M., Cleveland Heights, Ohio. Game device. 2,325,693; Aug. 3.
Marshall, Allen F., Dallas, Tex. Wall and partition construction. 2,325,694; Aug. 3.
Martin, Glenn L., Company, The. (See Miller, Leslie T., assignor.)
Martin, Paul M. (See Williams, H. W., Martin, and Baum.)
Mastropole, Alfred J. (See Carlisle, R. W., and Mastropole.)
Matsakas, Michael, Chicago, Ill. Painting device. 2,325,867; Aug. 3.
Matthes, Samuel S., assignor to The Ohio Brass Company, Mansfield, Ohio. Trolley wire support. 2,325,788; Aug. 3.
McAfee, Jerry, assignor to Universal Oil Products Company, Chicago, Ill. Fluid meter. 2,325,695; Aug. 3.
McArthur, Elmer D., Schenectady, N. Y., assignor to General Electric Company. Electric valve frequency changer. 2,325,965; Aug. 3.
McCabe, Ira E., Chicago, Ill. Enclosed mercury switch. 2,325,785; Aug. 3.
McCass Company, The. (See Cusack, C. E., and Berger, assignors.)
McConnaughay, Kenneth E., West Lafayette, Ind. Process of paving. 2,326,045; Aug. 3.
McCormick, Harold V., Westfield, assignor to Westinghouse Electric Elevator Company, Jersey City, N. J. Elevator safety apparatus. 2,326,046; Aug. 3.
McCracken, John H. (See Nygaard, E. M., McCracken, and Seger.)
McDermott, Henry J., Prospect Park, Pa., assignor to American Viscose Corporation, Wilmington, Del. Spinning box. 2,325,786; Aug. 3.
McDermott, Henry J., Prospect Park, and R. W. Stanley, Drexel Hill, Pa., assignors to American Viscose Corporation, Wilmington, Del. Centrifugal spinning bucket. 2,325,787; Aug. 3.
McLemore, Price P., Jr., Greenwood, Miss. Tractor fan guard. 2,325,913; Aug. 3.
McNally, James G., and J. B. Dickey, assignors to Eastman Kodak Company, Rochester, N. Y. Anthraquinone compound. 2,326,047; Aug. 3.
McNally, James G., C. R. Fordyce, and R. H. Talbot, assignors to Eastman Kodak Company, Rochester, N. Y. Preparing polyvinyl acetal resins. 2,326,048; Aug. 3.
Meier, Julian C., Detroit, Mich. Gear cutting machine. 2,325,696; Aug. 3.
Mellor, Clarence H. (See Black, L. F., and Mellor.)
Merdan, Alexander, New York, N. Y. Motor antifreeze device. 2,326,050; Aug. 3.
Merrill, Leslie M., trustee, et al. (See Lysholm, A., and Boestad, assignor.)
Miller, Ambrose C., Glenside, assignor to Philco Radio and Television Corporation, Philadelphia, Pa. Pilot light circuit for radio receivers and the like. 2,325,789; Aug. 3.
Miller, Leslie T., Stoneleigh, assignor to Glenn L. Martin Company, Baltimore, Md. Lubricating system. 2,326,051; Aug. 3.
Miller, Samuel C., New York, N. Y. High tension sign insulator and attaching means therefor. 2,325,621; Aug. 3.
Millermaster, Ralph A., and A. A. Writzmann, assignors to Cutler-Hammer, Inc., Milwaukee, Wis. Electric switch. 2,325,697; Aug. 3.
Millermaster, Ralph A., Whitefish Bay, and A. A. Writzmann, assignors to Cutler-Hammer, Inc., Milwaukee, Wis. Fuse clamps. 2,325,698; Aug. 3.
Mills, Albert W., Endicott, assignor to International Business Machines Corporation, New York, N. Y. Printing mechanism. 2,325,966; Aug. 3.
Milner, Bertram. (See Litwin, M., and Milner.)
Minneapolis-Honeywell Regulator Company. (See Baak, Albert E., assignor.)
Minneapolis-Honeywell Regulator Company. (See Kronmiller, Carl G., assignor.)
Mishawaka Rubber and Woolen Manufacturing Company. (See Blair, G. W., and Bodle, assignors.)
Miska, John. (See Stephansko, Michael T., assignor.)
Moberg, Adolph L., assignor of one-half to E. Hraha, Des Moines, Iowa. Door stop. 2,325,914; Aug. 3.
Monarch Machine Tool Co., The. (See Bickel, Clifford A., assignor.)
Monopower Corporation, The. (See Tyler, Tracy B., assignor.)
Monsanto Chemical Company. (See Blake, Edward S., assignor.)
Montgomery Ward & Co., Incorporated. (See Muerle, Richard W., assignor.)
Moore, Coleman B., Carroll Park, assignor to The Brown Instrument Company, Philadelphia, Pa. Air control instrument. 2,325,967; Aug. 3.
Moore, Dewey R., Holdenville, Okla. Pipe handling and racking platform. 2,326,052; Aug. 3.
Moore, Edwin, and J. Katsaros, Los Angeles, Calif. Cosmetic-applicating aid. 2,325,968; Aug. 3.
Moore, William, Stamford, and R. O. Roblin, Jr., Old Greenwich, Conn., assignors to American Cyanamid Company, New York, N. Y. Diallyl maleate as an insecticide. 2,325,790; Aug. 3.
Moore, William, Stamford, and R. O. Roblin, Jr., Old Greenwich, Conn., assignors to American Cyanamid Company, New York, N. Y. Diamyl maleate as an insecticide. 2,325,791; Aug. 3.
Moran, Terence J., Freeport, N. Y. Cowl fastener. 2,325,699; Aug. 3.
Morgan Construction Company. (See Bradley, Anson K., assignor.)
Morgan, William D., Jr. (See Wanamaker, E. M., and Morgan.)
Morris, Charles M., East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Coil for relays and inductive apparatus. 2,326,053; Aug. 3.
Morris, Chester L., Falls City, Nebr. Rod joint cutting tool. 2,325,969; Aug. 3.
Morris, Robert A., assignor to Eastman Kodak Company, Rochester, N. Y. Dye bleaching process. 2,326,055; Aug. 3.
Morrow, Emmet H., Chicago, Ill. Razor blade handle. 2,325,868; Aug. 3.
Morrow, Harry M., Canton, Ohio, assignor to The Bowdil Company. Making mining machine chain lugs. 2,325,792; Aug. 3.
Morton, Edmund R., New York, N. Y., and H. M. Stoller, Mountain Lakes, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Multiunit relay. 2,326,054; Aug. 3.
Mosling, Bernhard A., Oshkosh, Wis. Apparatus for coupling tractors to trailers. 2,325,869; Aug. 3.
Moss, William H., London, England, assignor to Celanese Corporation of America. Composite material. 2,325,700; Aug. 3.
Mott, Carl W., La Grange, Ill., assignor to International Harvester Company. Tractor cultivator. 2,325,870; Aug. 3.
Muerle, Richard W., Springfield, assignor to Montgomery Ward & Co., Incorporated, Chicago, Ill. Cream separator or the like. 2,325,871; Aug. 3.
Muller, Erich. (See Nusslein, J., and Muller.)
Mumbrauer, William, New York, N. Y. Stepladder. 2,325,793; Aug. 3.
Murray, Ernest E., Detroit, Mich. Buffing machine. 2,325,622; Aug. 3.
Murray, Ernest E., Detroit, Mich. Polishing machine. 2,325,701; Aug. 3.
Murtagh, Hugh, Laleham-on-Thames, and W. G. Harding, Whitton, England, assignors to Sperry Gyroscope Company, Incorporated, Brooklyn, N. Y. Locating bearing for horizontal shafts. 2,325,623; Aug. 3.
Musher Foundation, Incorporated. (See Musher, Sidney, assignor.)
Musher, Sidney, assignor to Musher Foundation, Incorporated, New York, N. Y. Treatment of paper and paperboard. 2,325,624; Aug. 3.
Myers, David M., Larchmont, N. Y. Fire extinguisher means. 2,325,625; Aug. 3.
Myers, Walter R., Altoona, Pa. Sander. 2,325,970; Aug. 3.
Nadeau, Gale F., and A. D. Slack, assignors to Eastman Kodak Company, Rochester, N. Y. Antihalation film. 2,326,056; Aug. 3.
Nadeau, Gale F., and A. D. Slack, assignors to Eastman Kodak Company, Rochester, N. Y. Antihalation film. 2,326,057; Aug. 3.
Nadeau, Gale F., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic stripping material. 2,326,058; Aug. 3.
Naffziger, Loy M. (See Horner, G. M., and Naffziger.)
Nash-Kelvinator Corporation. (See Philipp, Lawrence A., assignor.)
Nash-Kelvinator Corporation. (See Wahlberg, N. E., Phelps, and Berry, assignors.)
National Electric Coil Company. (See Greene, N. J., and Reese, assignors.)
National Enameling & Stamping Company. (See Waltman, Chauncey E., assignor.)
Naul, James M., Fanwood, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Permanent magnet motor. 2,325,915; Aug. 3.
Nay, Lafayette M., Placentia, Calif. Fluid brake. 2,325,626; Aug. 3.
Neilson, David, assignor of seventy per cent to J. E. Castle, Detroit, Mich. Thread cutting tool. 2,325,627; Aug. 3.
New Products Corporation. (See Banker, Oscar H., assignor.)
Newbrough, Bessie M., Seattle, Wash. Current collector. 2,325,971; Aug. 3.
Nichols, William T., near St. Albans, W. Va., assignor to Westvaco Chlorine Products Corporation, New York, N. Y. Diaphragm for chlorine cells. 2,326,101; Aug. 3.

Nilsson, Axel T., Goteborg, Sweden. Safety sling. 2,325,872; Aug. 3.
Noble, Gerard D. (See Turnock, J. E., and Noble.)
Nordberg Manufacturing Co. (See Gruender, O. C., and Werner, assignors.)
Nordberg, Martin E., assignor to Corning Glass Works, Corning, N. Y. Glass having an expansion lower than that of silica. 2,326,059; Aug. 3.
Novick, Abraham, Flushing, assignor to F. L. Smithe Machine Co., Inc., New York, N. Y. Clasp fastener. 2,325,702; Aug. 3.
Nurnberger, Joseph S., and L. G. Lankford, St. Albans, W. Va. Drill. 2,325,973; Aug. 3.
Nusslein, Josef, and C. E. Muller, Frankfort-on-the-Main, Germany, assignors to General Aniline & Film Corporation, New York, N. Y. Dyeing mixed fibrous material. 2,325,972; Aug. 3.
Nute, Edwin L., Wakefield, and E. A. Willey, assignors to Converse Rubber Company, Malden, Mass. Receptacle for inflammable fluids. 2,325,703; Aug. 3.
Nygaard, Edwin M., and J. H. McCracken, Woodbury, and F. M. Segar, Pitman, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Diesel fuel. 2,326,102; Aug. 3.
Oblad, Alex G. (See Weitkamp, A. W., and Oblad.)
Ocon, Cecilio L. and E. A., Yonkers, N. Y.; said C. L. Ocon assignor to E. A. Ocon. Manufacture of liquid hydrocarbons from gaseous and solid carbonaceous materials. 2,325,916; Aug. 3.
Ocon, Ernest A. (See Ocon, Cecilio L. (assignor) and E. A.)
Ohio Brass Company, The. (See Matthes, Samuel S., assignor.)
Ohio Citizens Trust Company, The. (See Replogle, D. B., assignor.)
O'Leary, Charles M., Jr., Los Angeles, Calif. Pumping gear unit. 2,325,874; Aug. 3.
O'Mealey, John W., Boston, Mass. Safety razor. 2,325,794; Aug. 3.
Oplinger, Kirk A., Verona, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electrical switching apparatus. 2,326,060; Aug. 3.
Ort, John M., Rockville Centre, assignor to E. R. Squibb & Sons, New York, N. Y. Preparing cyclopropane. 2,325,628; Aug. 3.
Ort, John M. (See Christiansen, W. G., and Ort.)
Osborn Manufacturing Company, The. (See Peterson, Ruben O., assignor.)
Osborne, William B., Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill. Transmission synchronizer. 2,325,873; Aug. 3.
Oswald, Louis, Napa, Calif. Land leveler. 2,325,875; Aug. 3.
Ow, Joseph W., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. High speed circuit breaker reclosing mechanism. 2,326,061; Aug. 3.
Owens-Corning Fiberglas Corporation. (See Thomas, J. H., and Fletcher, assignors.)
Pace, Percy L., Mount Shasta, Calif. Combined kitchen stool and stepladder. 2,325,795; Aug. 3.
Parker, Arthur H. (See Sebell, Harry, assignor.)
Parker, Beatrice, Brooklyn, N. Y. Portable folding ironing board. 2,326,062; Aug. 3.
Parker, Humphrey F., Kenmore, E. E. Robins, Tonawanda, and L. B. Gilbert, Kenmore, assignors to Columbus McKinnon Chain Corporation, Tonawanda, N. Y. Load brake. 2,325,917; Aug. 3.
Pasquerello, Peter C., Lanark, Pa. Creel apparatus. 2,325,974; Aug. 3.
Passa, Edward P. (See Passa, John F., assignor.)
Passa, John F., assignor to E. P. Passa, Oslo, Minn. Beet loader. 2,325,704; Aug. 3.
Pearce, Gale T., Somerville, N. J., assignor to Johns-Manville Corporation, New York, N. Y. Mineral wool felting apparatus. 2,325,975; Aug. 3.
Perkins, Julian L., assignor to Perkins Machine and Gear Company, West Springfield, Mass. Work indexing apparatus. 2,326,103; Aug. 3.
Perkins Machine and Gear Company. (See Perkins, Julian L., assignor.)
Perrine, Lester E., assignor, by mesne assignments, to General Motors Corporation, Detroit, Mich. Automatic choke valve. 2,325,918; Aug. 3.
Peter, Leslie H., King's Cross, London, England, assignor, by mesne assignments, to The Union Switch & Signal Company, Swissvale, Pa. Manufacture of alternating current rectifiers. 2,326,063; Aug. 3.
Peterson, Ruben O., South Euclid, assignor to The Osborn Manufacturing Company, Cleveland, Ohio. End brush. 2,325,629; Aug. 3.
Petrich, Jerry, New York, N. Y. Multidrive airplane. 2,326,104; Aug. 3.
Petrolite Corporation, Ltd. (See Hanson, Gordon B., assignor.)
Petty, James N., Maricopa County, Ariz. Glider launching device. 2,325,630; Aug. 3.
Phelps, Ross H. (See Wahlberg, N. E., Phelps, and Berry.)
Philco Corporation. (See Shoemaker, Malcolm G., assignor.)
Philco Radio and Television Corporation. (See Miller, Ambrose C., assignor.)
Philco Radio and Television Corporation. (See Stephan, Ingo L., assignor.)
Philco Radio and Television Corporation. (See Thompson, Elmer O., assignor.)
Philipp, Lawrence A., assignor to Nash-Kelvinator Corporation, Detroit, Mich. Refrigerating apparatus. 2,325,705; Aug. 3.
Philipp, Lawrence A., assignor to Nash-Kelvinator Corporation, Detroit, Mich. Refrigerating apparatus. 2,325,706; Aug. 3.
Phillips, Clifford T., Red Hook, N. Y. Poultry feeder. 2,325,976; Aug. 3.
Phillips Petroleum Company. (See Legatski, Harold R., assignor.)
Pickles, John. (See Pickles, Robert and J.)
Pickles, Robert and J., Burnley, England. Manufacture of elastic tubular garments. 2,325,977; Aug. 3.
Pie-Pak Company. (See Damrow, George E., assignor.)
Pierce, Frank L., Garden City, N. Y., H. B. White, North Canton, Ohio, and U. A. Whitaker, New York, N. Y., assignors to The Hoover Company, North Canton, Ohio. Suction cleaner. 2,325,796; Aug. 3.
Pinelli, John R., U. S. Navy. Radio speed key. 2,325,631; Aug. 3.
Pittman, Walter V., Riverside, Calif. Rotary wardrobe. 2,326,064; Aug. 3.
Pittsburgh Coke & Iron Company. (See Riethof, George, assignor.)
Pittsburgh Equitable Meter Company. (See Bergman, C. P., and Cornell, assignors.)
Pityo, Albert F., Clifton, assignor to Tri State Cap & Cap Machinery Co., Inc., Newark, N. J. Container cover applying machine. 2,325,978; Aug. 3.
Pizzarello, Roy A., Mount Vernon, assignor to Interchemical Corporation, New York, N. Y. Manufacture of 3-nitro-4-amino anisol. 2,325,797; Aug. 3.
Pluth, Edward M., et al. (See Schleif, Robert L., assignor.)
Pollard, Willard L., Evanston, Ill. Transmission. 2,325,876; Aug. 3.
Ponstingl, John C. (See Schaelchlin, W., and Ponstingl.)
Poole, John W. (See Allinson, J. J., Poole, and Grant.)
Poor & Company. (See Hamilton, Perry H., assignor.)
Porch, Howard L., Riverside, assignor to Food Machinery Corporation, San Jose, Calif. Apparatus for handling fruit. 2,325,919; Aug. 3.
Porter, Laurence W., Westbrook, Maine, assignor to S. D. Warren Company, Boston, Mass. Coating flexible web. 2,325,798; Aug. 3.
Pountain, Melvin D., assignor of fifty-one per cent to E. M. Brown, Seattle, Wash. Curl heater. 2,325,799; Aug. 3.
Powell, Winfred T., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Automatic telephone system. 2,325,877; Aug. 3.
Preston, Robert A., Pasadena, Calif. Means and method for controlling motive forces. 2,325,707; Aug. 3.
Price, Duane W. (See Kellermann, M. A., and Price.)
Prosperity Company, The. (See Davis, Ernest, assignor.)
Prosperity Company. (See Downer, C. P., and Cooper, assignors.)
Prosperity Company, The. (See Rohr, Alton J., assignor.)
Pullin, Cyril G., Genista, Newton, Mearns, Scotland, assignor to Autogiro Company of America, Willow Grove, Pa. Rotary wing aircraft. 2,325,632; Aug. 3.
Pure Oil Company, The. (See Terrell, Charles F., Jr., assignor.)
Pure Oil Company, The. (See Throckmorton, John W., assignor.)
Putnam, Erle T., Detroit, Mich., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Building unit. 2,325,800; Aug. 3.
Radio Corporation of America. (See Bierwirth, Rudolph A., assignor.)
Radio Corporation of America. (See Landis, Daniel O., assignor.)
Radio Corporation of America. (See Runge, Frank E., assignor.)
Radio Corporation of America. (See Wendt, Karl R., assignor.)
Railroad Accessories Corporation. (See Lavarack, F. C., and Deems, assignors.)
Ray, William A., Glendale, Calif. Fluid control valve. 2,325,878; Aug. 3.
Raytheon Manufacturing Company. (See Germeshausen, Kenneth J., assignor.)
Razek, Joseph, Llanerch, assignor to Thwing-Albert Instrument Company, Philadelphia, Pa. Recording potentiometer. 2,325,801; Aug. 3.
Reese, George C. (See Greene, N. J., and Reese.)
Reeves Pulley Company. (See Batterson, D. C., assignor.)
Replogle, Daniel B., Berkeley, Calif., assignor to The Ohio Citizens Trust Company, Toledo, Ohio. Indicator for suction cleaning systems. 2,325,633; Aug. 3.
Resinous Products & Chemical Company, The. (See Bruson, Herman A., assignor.)
Rexair, Inc. (See Brock, Clarence A., assignor.)
Rheem Manufacturing Company. (See Craig, Harvey A., assignor.)
Richards, Boggs & King, Inc. (See Frost, Bernard J., assignor.)

Rico, Richard, Byers, Colo. Bean harvester. 2,325,879; Aug. 3.

Rideout, Theodore R., Glenshaw, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Trolley pole head. 2,326,065; Aug. 3.

Riethof, George, Mount Lebanon, assignor to Pittsburgh Coke & Iron Company, Pittsburgh, Pa. Lutidine compounds. 2,325,880; Aug. 3.

Rigby, Thomas S., Coconut Grove, Fla., assignor, by mesne assignments, to Waterbury Button Company. Syphon. 2,325,920; Aug. 3.

Roberts, Seward M., et al. (See Amesbury, E. M., Macormack, Roberts, and Sample.)

Robertson, Milton S., Campbell, Calif. Recovery apparatus. 2,325,881; Aug. 3.

Robins, Erford E. (See Parker, H. F., Robins, and Gilbert.)

Robinson, Bryan S., Warren, Maine. Device for use in refinishing fulling mill rolls. 2,326,066; Aug. 3.

Roblin, Richard O., Jr. (See Moore, W., and Roblin.)

Rod, Lester S., Dublin, Pa. Pinking machine. 2,325,634; Aug. 3.

Röhm & Haas Company. (See Trommsdorff, E., and Abel, assignors.)

Rohr, Alton J., assignor to The Prosperity Company, Inc., Syracuse, N. Y. Level control for washing machines. 2,326,067; Aug. 3.

Rohrmann, Ewald, assignor to Eli Lilly and Company, Indianapolis, Ind. Intermediates for estrogenic therapeutic agents. 2,326,068; Aug. 3.

Roper, Geo. D., Corporation. (See Hennessy, John F., assignor.)

Runge, Frank E., Oaklyn, N. J., assignor to Radio Corporation of America. Phonograph. 2,325,708; Aug. 3.

Rutherford, John T. (See Farrington, B. B., Clayton, and Rutherford.)

Safety Car Heating and Lighting Company, The. (See Von Ohlsen, L. H., and Kennedy, assignors.)

St. Charles Manufacturing Co. (See Waller, Alfred F., assignor.)

Salfisberg, Leroy L., South Orange, assignor to Ivers-Lee Company, Newark, N. J. Composite package. 2,325,921; Aug. 3.

Sample, Fleck W., et al. (See Amesbury, E. M., Macormack, Roberts, and Sample.)

Samstegman, Ewel, London, England. Sliding clasp fastener. 2,325,709; Aug. 3.

Samzelius, John W., Forest Hills, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Cabinet latch. 2,326,069; Aug. 3.

Sarbach, Donald V., Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Softening synthetic rubber. 2,325,979; Aug. 3.

Sarbach, Donald V., Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Softeners for copolymers of butadiene and acrylonitrile. 2,325,980; Aug. 3.

Sarbach, Donald V., Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Synthetic rubber composition. 2,325,981; Aug. 3.

Sarbach, Donald V., Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Softener for synthetic rubber. 2,325,982; Aug. 3.

Sarbach, Donald V., Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Softener for synthetic rubber. 2,325,983; Aug. 3.

Sarbach, Donald V., Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Oil-resistant synthetic rubber cement and preparing same. 2,325,984; Aug. 3.

Scarlett, Arthur A., Hamilton, Ontario, Canada, assignor, by mesne assignments, to International Harvester Company, Chicago, Ill. Rod weeder. 2,325,882; Aug. 3.

Schaelchlin, Walter, Forest Hills, Pa., and J. C. Ponstingl, Cleveland, Ohio, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Automatic bus transfer equipment. 2,326,070; Aug. 3.

Schleif, Robert L., assignor of one-third to R. T. Wilson, and one-third to E. M. Pluth, Lincoln, Ill. Illuminated crucifix. 2,325,883; Aug. 3.

Schmidt, Edward G., and C. W. Yant, assignors to Crane Co., Chicago, Ill. Valve. 2,325,802; Aug. 3.

Schmidt, Karl, Cologne-Mulheim, and O. Wahl, Leverkusen I. G.-Werk, Germany, assignors to General Aniline & Film Corporation. Condensation products. 2,325,803; Aug. 3.

Schmitt, Cesar A. (See Delay, Fernand, assignor.)

Schnell Steve, Kirkwood, assignor to Wagner Electric Corporation, St. Louis, Mo. Single anchor mounting construction for brake shoes. 2,325,998; Aug. 3.

Schorn, Carl F., Detroit, Mich. Flowmeter. 2,325,884; Aug. 3.

Schutte, August H., Tuckahoe, N. Y. Continuous filter. 2,325,635; Aug. 3.

Schutte, August H., Westfield, N. J. Continuous filter. 2,326,071; Aug. 6.

Schweitzer, Samuel, Shaker Heights, Ohio. Advertising novelty. 2,325,710; Aug. 3.

Scoville, L. P. (See Eastman, D., and Scoville.)

Seaman, David J., Battle Creek, Mich. Hydraulic door check. 2,325,711; Aug. 3.

Sebell, Harry, Newton, assignor of one-half to A. H. Parker, Lexington, Mass. Container. 2,325,922; Aug. 3.

Seger, Francis M. (See Nygaard, E. M., McCracken, and Seger.)

Seippel, Claude, Ennetbaden, assignor to Aktiengesellschaft Brown, Boveri & Cie, Baden, Switzerland. Gas turbine plant. 2,326,072; Aug. 3.

Semon, Waldo L., Silver Lake, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Softener for synthetic rubber. 2,325,985; Aug. 3.

Serrurier, Iwan, Los Angeles, Calif. Film winding mechanism. 2,325,885; Aug. 3.

Seyferth, H. N., East Detroit, assignor to Ex-Cell-O Corporation, Detroit, Mich. Dressing mechanism. 2,326,073; Aug. 3.

Shakespeare Products Company. (See Gerry, William R., assignor.)

Sheliman Products Company. (See Gurwick, Irving, assignor.)

Shepherd, Harry J. (See Kelly, E., and Shepherd.)

Shoemaker, Malcolm G., Abington, assignor, by meane assignments, to Philco Corporation, Philadelphia, Pa. Crankshaft. 2,325,804; Aug. 3.

Shoffner, John R., Kittanning, Pa. Cable reel truck. 2,325,805; Aug. 3.

Shurmur, Leonard G., Wyandotte, Mich. Container holder. 2,325,712; Aug. 3.

Siekmann, Harold J. (See Groene, W. F., and Siekmann.)

Simmons, James T., assignor of one-fifth to C. A. Boyer, Orlando, Fla. Garment case. 2,325,806; Aug. 3.

Simons, Aaron, Bronx, N. Y. Apparatus for shaping and polishing diamond dies. 2,325,713; Aug. 3.

Singer Manufacturing Company, The. (See Becker, Rudolph, assignor.)

Singer Manufacturing Company, The. (See Naul, James M., assignor.)

Singer Manufacturing Company, The. (See Zeier, Frederick F., assignor.)

Sisulak, Michael S., Chicago, Ill., assignor to International Harvester Company. Mill. 2,325,886; Aug. 3.

Slack, Alfred D. (See Nadeau, G. F., and Slack.)

Slepian, Joseph, Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Circuit interrupter. 2,326,074; Aug. 3.

Smith, Byron L., East Rochester, and V. E. Whitman, assignors to The Folmer Graflex Corporation, Rochester, N. Y. Cut film holder for photographic cameras. 2,326,075; Aug. 3.

Smith, Ernest F. (See Gibbs, William J., and Smith.)

Smith, George G. (See Hampton, L. N., and Smith.)

Smith, Hiram P., Canton, Ill., assignor to International Harvester Company. Potato hoe attachment for tractors. 2,325,887; Aug. 3.

Smith, Percy W., New York, assignor to General Railway Signal Company, Rochester, N. Y. Coded continuous inductive train control system. 2,326,049; Aug. 3.

Smithe, F. L., Machine Co. (See Novick, Abraham, assignor.)

Snyder, Herald T., Seattle, Wash., assignor to T. W. Holman, as trustee. Spectacle cleaning tissue booklet. 2,325,999; Aug. 3.

Socony-Vacuum Oil Company, Incorporated. (See Nygaard, E. M., McCracken, and Seger, assignors.)

Solem, Peter A., Rockford, Ill. Resilient roller. 2,326,076; Aug. 3.

Solomon, Samuel, Union City, N. J. Shaver. 2,325,636; Aug. 3.

Sonotone Corporation. (See Carlisle, R. W., and Mastropole, assignors.)

Spencer, Isidor, Chicago, Ill. Garment. 2,325,888; Aug. 3.

Spencer, Virgil, assignor to Armstrong Cork Company, Lancaster, Pa. Making flexible hard surface coverings and apparatus therefor. 2,326,105; Aug. 3.

Sperry Gyroscope Company, Incorporated. (See Murtagh, H., and Harding, assignors.)

Squibb, E. R., & Sons. (See Christiansen, W. G., and Ort, assignors.)

Squibb, E. R., & Sons. (See Ort, John M., assignor.)

Standard Mirror Company. (See La Hodny, W., and Bertell, assignors.)

Standard Oil Company. (See Keranen, George M., assignor.)

Standard Oil Company. (See Weitkamp, A. W., and Brunstrum, assignors.)

Standard Oil Company. (See Weitkamp, A. W., and Oblad, assignors.)

Standard Oil Company of California. (See Farrington, B. B., Clayton, and Rutherford, assignors.)

Stanley, Richard W. (See McDermott, H. J., and Stanley.)

Steiner, Oscar, assignor to The Folmer Graflex Corporation, Rochester, N. Y. High-speed between-the-lens photographic shutter. 2,326,077; Aug. 3.

Steltner, George W., Los Angeles, Calif. Black-out equipment for windows. 2,325,923; Aug. 3.

Stephan, Ingo L., Delanco, N. J., assignor to Philco Radio and Television Corporation, Philadelphia, Pa. Phonograph mounting. 2,325,807; Aug. 3.

Stephansko, Michael T., assignor of one-half to J. Miska, Chicago, Ill. Garbage can. 2,325,808; Aug. 3.

Stephansko, Michael T., assignor of one-half to J. Miska, Chicago, Ill. Disinfectant receptacle for garbage cans. 2,325,809; Aug. 3.

Stewart, William E., Cuyahoga Falls, assignor of one-half to T. A. Te Grotenhuis, Olmstead Falls, Ohio. Formation of porous rubber products. 2,325,637; Aug. 3.

Stoller, Hugh M. (See Morton, E. R., and Stoller.)

Stone, Wilfred S. (See Gats, Thomas L., assignor.)

Stover, Emory F., Wynnewood, Pa. Flowmeter. 2,325,714; Aug. 3.

Strain, George H., Seaford, England. Apparatus for conveying pulverulent, broken, or like materials. 2,325,715; Aug. 3.

Streit, Carlyle F., Cincinnati, Ohio. Chain. 2,325,716; Aug. 3.

Strickland, Harold A., Jr., Detroit, Mich., assignor to Budd Wheel Company, Philadelphia, Pa. Billet heating apparatus. 2,325,638; Aug. 3.

Strickland, Harold A., Jr., Detroit, Mich., assignor to Budd Wheel Company, Philadelphia, Pa. Heating coil. 2,325,810; Aug. 3.

Stritter, Karl A., Nahant, Mass. Shoemaking. 2,325,639; Aug. 3.

Stromberg-Carlson Telephone Manufacturing Company. (See Henderson, Kenneth L., assignor.)

Stromberg-Carlson Telephone Manufacturing Company, The. (See Powell, Winfred T., assignor.)

Swain, Robert C., Riverside, and P. Adams, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Polymeric rubber coating composition. 2,325,986; Aug. 3.

Swain, Robert C., Riverside, and P. Adams, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Polystyrene coating composition. 2,325,987; Aug. 3.

Swingle, Ralph H., Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Circuit breaker. 2,325,717; Aug. 3.

Tack, Carl E. (See Baselt, W. H., and Tack.)

Talbot, Ralph H. (See McNally, J. G., Fordyce, and Talbot.)

Teeple, Charles P., Wilmette, assignor to Crane Packing Company, Chicago, Ill. Bearing material. 2,326,000; Aug. 3.

Te Grotenhuis, Theodore A. (See Stewart, William E., assignor.)

Terrell, Charles F., Jr., Olney, assignor to The Pure Oil Company, Chicago, Ill. Drilling sleeve. 2,325,811; Aug. 3.

Terry, Trent B., Charlottesville, Va. Pajama pants. 2,325,924; Aug. 3.

Texas Company, The. (See Eastman, D., and Scoville, assignors.)

Textileather Corporation. (See Lott, de F., Grinsfelder, and Hamway, assignors.)

Thomas, Frank E., Chicago, Ill. Toy seesaw. 2,325,988; Aug. 3.

Thomas, John H., and E. Fletcher, Newark, Ohio, assignors, by mesne assignments, to Owens-Corning Fiberglas Corporation. Traversing means for high speed winding. 2,325,640; Aug. 3.

Thompson, Albert R., Los Gatos, and R. M. Magnuson, Campbell, assignors to Food Machinery Corporation, San Jose, Calif. Box elevator. 2,325,889; Aug. 3.

Thompson, Elmer O., Grasmere, N. Y., assignor to Philco Radio and Television Corporation, Philadelphia, Pa. Clock controlled mechanism. 2,325,812; Aug. 3.

Thompson, George K., Randolph, Ill. Dairy sediment trap. 2,325,890; Aug. 3.

Thomson, Patrick E. M., West Brighton, Staten Island, assignor to Visible Index Corp., New York, N. Y. Accounting and filing system. 2,325,641; Aug. 3.

Throckmorton, John W., Wilton, Conn., assignor to The Pure Oil Company, Chicago, Ill. Conversion of hydrocarbon gases. 2,325,813; Aug. 3.

Thwing-Albert Instrument Company. (See Razek, Joseph, assignor.)

Tide Water Associated Oil Company. (See Viland, Clare K., assignor.)

Toepfer, Adolph H., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Low current igniter. 2,325,718; Aug. 3.

Tokheim Oil Tank and Pump Company. (See Waugh, Paul E., assignor.)

Toole, Gerald C. (See Field, C., and Toole.)

Trayer Products, Incorporated. (See Tryon, William A., assignor.)

Trico Products Corporation. (See Horton, Erwin C., assignor.)

Tri State Cap & Cap Machinery Co. (See Pityo, Albert F., assignor.)

Trommsdorff, Ernest, and G. Abel, Darmstadt, Germany, assignors to Röhm & Haas Company, Philadelphia, Pa. Polymerizing methacrylic acid. 2,326,078; Aug. 3.

Tryon, William A., Geneva, assignor to Trayer Products, Incorporated, Elmira, N. Y. Production of gears or the like. 2,325,989; Aug. 3.

Turner, Herbert, Jr., Boscobel, Wis. Reduction crusher. 2,325,719; Aug. 3.

Turnock, Joseph E., Riverton, N. J., and G. D. Noble, Philadelphia, Pa. Machine for acting on cartridge cases. 2,325,642; Aug. 3.

Twin Disc Clutch Company. (See Adamson, N. F., assignor.)

Tyler, Tracy Brooks, Chicago, Ill., assignor to The Monopower Corporation, Detroit, Mich. Speed responsive fluid control means. 2,325,814; Aug. 3.

Tyrrell, Emmet R., Youngstown, Ohio, assignor to Fessler Machine Company, Sharon, Pa. Apparatus for supplying strip. 2,326,079; Aug. 3.

Underwood Elliott Fisher Company. (See Wise, Elmer L., assignor.)

Union Oil Company of California. (See Huffman, Hal C., assignor.)

Union Switch & Signal Company, The. (See Peter, Leslie H., assignor.)

United American Metals Corporation. (See Jung, Albert H., assignor.)

United Shoe Machinery Corporation. (See Brophy, John J., assignor.)

United Shoe Machinery Corporation. (See Jalbert, Adrian L., assignor.)

United Shoe Machinery Corporation. (See MacKenzie, Wilbur L., assignor.)

United Shoe Machinery Corporation. (See Maeser, Mieth, assignor.)

United Shoe Machinery Corporation. (See Winkley, Erastus E., assignor.)

United States Hat Machinery Corporation. (See Genest, Homer A., assignor.)

Universal Hydraulic Stress Equalizer, Inc. (See Zoll, Carl M., assignor.)

Universal Oil Products Company. (See McAfee, Jerry, assignor.)

Urbschat, Ewald, and F. Heckmanns, Leverkusen I. G.-Werk, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y. Parasiticides. 2,325,720; Aug. 3.

V. Berlichingen, Margot. (See v. Berlichingen, Maximilian and Margot.)

V. Berlichingen, Maximilian and M., Jamaica, N. Y. Metalworking machine. 2,325,827; Aug. 3.

Van der Mark, Jan. (See Hepp, G., and van der Mark.)

Van Hoorn, Albert W. W., Holly Oak, Del. Boat hull construction. 2,326,080; Aug. 3.

Van Ness, Henry E., and J. MacBlane, Elmira, N. Y., assignors to Bendix Aviation Corporation, South Bend, Ind. Automatic cut-off and swaging machine tool. 2,326,106; Aug. 3.

Van Norman Machine Tool Company. (See Curtis, Frank W., assignor.)

Van Wynen, Kenneth G., Ramsey, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Two-way telephone transmission system. 2,326,081; Aug. 3.

Vernor, James, Company. (See Doughty, William E., assignor.)

Viland, Clare K., Martinez, assignor to Tide Water Associated Oil Company, San Francisco, Calif. Manufacture of antiknock gasoline. 2,325,891; Aug. 3.

Viland, Clare K., Martinez, assignor to Tide Water Associated Oil Company, San Francisco, Calif. Manufacture of antiknock gasoline. 2,325,892; Aug. 3.

Visible Index Corp. (See Thomson, Patrick E. M., assignor.)

Visser, John, Grand Rapids, assignor to F. L. Jacobs Co., Detroit, Mich. Ash receiver. 2,325,721; Aug. 3.

Vollmer, Earl C., Rock Island, Ill., assignor, by mesne assignments, to The Lennox Furnace Company, Marshalltown, Iowa. Liquid fuel burner. 2,325,893; Aug. 3.

Von Ohlsen, Louis H., and J. J. Kennedy, New Haven, Conn., assignors to The Safety Car Heating and Lighting Company, Inc. Electrical system. 2,325,815; Aug. 3.

Wagner Electric Corporation. (See Schnell, Steve, assignor.)

Wahl, Ottmar. (See Schmidt, K., and Wahl.)

Wahlberg, Nils E., R. H. Phelps, and W. S. Berry, assignors to Nash-Kelvinator Corporation, Kenosha, Wis. Automotive suspension. 2,325,894; Aug. 3.

Wales, George F., Kenmore, N. Y. Sheet material punching apparatus. 2,325,990; Aug. 3.

Walter, Charles T., assignor to Industrial Patents Corporation, Chicago, Ill. Marking sausage. 2,326,082; Aug. 3.

Walther, Lucian E., Del Mar, assignor of one-half to A. Crane, Hollywood, Calif. Electric water heater. 2,325,722; Aug. 3.

Waltman, Chauncey E., Chicago, Ill., assignor to National Enameling & Stamping Company, Milwaukee, Wis. Cover operating means for cooking appliances. 2,325,897; Aug. 3.

Wallace, John F., University Heights, assignor to The Cleveland Pneumatic Tool Company, Cleveland, Ohio. Caster wheel mounting. 2,325,895; Aug. 3.

Waller, Alfred, assignor to St. Charles Manufacturing Co., St. Charles, Ill. Drawer slide. 2,325,896; Aug. 3.

Wanamaker, Elmer M., and W. D. Morgan, Jr., Knoxville, Tenn., assignors to Electro Manganese Corporation, Minneapolis, Minn. Purification in electrowinning of manganese. 2,325,723; Aug. 3.

Warren, S. D., Company. (See Porter, Laurence W., assignor.)

Waterbury Button Company. (See Rigby, Thomas S., assignor.)

Waters, Lawrence W., Ontario, Calif. Container filling machine. 2,325,816; Aug. 3.
Watrous, Ward W., Jr., East Orange, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Contact member and electrical device. 2,325,817; Aug. 3.
Waugh, Paul E., assignor to Tokheim Oil Tank and Pump Company, Fort Wayne, Ind. Delayed closing automatic water discharge valve. 2,325,925; Aug. 3.
Weed, Joseph P., Hawthorne, Calif. Welding rod holder. 2,325,926; Aug. 3.
Weis, Albert H., Nyack, assignor to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Feeding mechanism. 2,325,643; Aug. 3.
Weis, Albert H., Nyack, assignor to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Sewing machine. 2,325,644; Aug. 3.
Weitkamp, Alfred W., Whiting, Ind., and A. G. Oblad, assignors to Standard Oil Company, Chicago, Ill. Vapor and liquid contacting apparatus. 2,325,818; Aug. 3.
Weitkamp, Alfred W., Whiting, Ind., and L. C. Brunstrum, assignors to Standard Oil Company, Chicago, Ill. Vapor and liquid contacting apparatus. 2,325,819; Aug. 3.
Wendt, Karl R., Audubon, N. J., assignor to Radio Corporation of America. Television apparatus. 2,326,083; Aug. 3.
Werner, Ewald. (See Gruender, O. C., and Werner.)
Western Cartridge Company. (See Williams, David M., assignor.
Western Electric Company. (See Krogel, Christopher J., assignor.)
Westfield River Paper Company, Inc. (See Barnhart, Philip S., assignor.)
Westinghouse Electric Elevator Company. (See McCormick, Harold V., assignor.)
Westinghouse Electric Elevator Company. (See Williams, H. W., Martin, and Baum, assignors.)
Westinghouse Electric & Manufacturing Company. (See Baxter, Harold G., assignor.)
Westinghouse Electric & Manufacturing Company. (See Claybourne, Glen L., assignor.)
Westinghouse Electric & Manufacturing Company. (See Currie, Gilbert, assignor.)
Westinghouse Electric & Manufacturing Company. (See Dailey, H. J., and Knochel, assignors.)
Westinghouse Electric & Manufacturing Company. (See Hodnette, J. K., and Leonard, assignors.)
Westinghouse Electric & Manufacturing Company. (See Hutcheson, John A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Jones, Ruel C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Kovalsky, Joseph F., assignor.)
Westinghouse Electric & Manufacturing Company. (See Oplinger, Kirk A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Ow, Joseph W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Rideout, Theodore R., assignor.)
Westinghouse Electric & Manufacturing Company. (See Samzelius, John W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Schaelchlin, W., and Ponstingl, assignors.)
Westinghouse Electric & Manufacturing Company. (See Slepian, Joseph, assignor.)
Westinghouse Electric & Manufacturing Company. (See Swingle, Ralph H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Toepfer, Adolph H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Watrous, Ward W., Jr., assignor.)
Westinghouse Electric & Manufacturing Company. (See Williams, Carroll M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Yadon, John M., assignor.)
Westrope, Frederick J., Pleasant Ridge, Mich., assignor, by mesne assignments, to F. L. Jacobs Co. Window lock. 2,326,084; Aug. 3.
Westvaco Chlorine Products Corporation. (See Ericsson, Ralph L., assignor.)
Westvaco Chlorine Products Corporation. (See George, James E., assignor.)
Westvaco Chlorine Products Corporation. (See Nichols, William T., assignor.)
Whitaker, Uncas A. (See Pierce, F. L., White, and Whitaker.)
White, Harry B. (See Pierce, F. L., White, and Whitaker.)
White, Harry B., Canton, assignor to The Hoover Company, North Canton, Ohio. Suction cleaner dirt bag. 2,325,820; Aug. 3.
White, Harry B., Canton, assignor to The Hoover Company, North Canton, Ohio. Suction cleaner. 2,325,821; Aug. 3.
White, John L., Chattanooga, Tenn. Tent. 2,325,645; Aug. 3.
White, Marshall J., Marysville, Calif. Bucket tooth unit. 2,325,991; Aug. 3.
Whitman, Vernon E. (See Smith, B. L., and Whitman.)
Whitmer, Lewis W., Columbus, Ohio. Truck for trailer vehicles. 2,325,822; Aug. 3.
Whittal, Julian J. (See Haag, Joseph, assignor.)
Wilbur, Donald A., assignor to W. & L. E. Gurley, Troy, N. Y. Speed indicator. 2,325,927; Aug. 3.
Wilcox-Gay Corporation. (See Gay, Paul S., assignor.)
Willard, Rudolph, Ridgewood, N. J. Drawer compressor. 2,326,087; Aug. 3.
Willcox & Gibbs Sewing Machine Company. (See Weis, Albert H., assignor.)
Willey, Edward A. (See Nute, E. L., and Willey.)
Williams, Carroll M., Swissvale, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Filler. 2,326,085; Aug. 3.
Williams, David M., assignor to Western Cartridge Company, New Haven, Conn. Receiver and trigger-plate construction for firearms. 2,325,646; Aug. 3.
Williams, Harold W., Nutley, P. M. Martin, Jersey City, and D. H. Baum, Ridgewood, assignors to Westinghouse Electric Elevator Company, Jersey City, N. J. Inductor switch. 2,326,086; Aug. 3.
Williams, Victor G. (See Delamere, R. D., Williams, Grange, and Heaton.)
Wilson, Robert E., Belleville, N. J. Detachable film loading guide for developing tank reels. 2,325,823; Aug. 3.
Wilson, Robert T., et al. (See Schleif, Robert L., assignor.)
Wingfoot Corporation. (See D'Ianni, James D., assignor.)
Wingfoot Corporation. (See Kimmich, Elmer G., assignor.)
Winkley, Erastus E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Leather manufacturing machine. 2,325,724; Aug. 3.
Winthrop Chemical Company. (See Urbschat, E., and Heckmanns, assignors.)
Wirthman, John C., Delaware, Ohio. Black-out device. 2,325,992; Aug. 3.
Wise, Elmer L., Bridgeport, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Machine for typewriting. 2,325,898; Aug. 3.
Witham, George S., Jr., Hudson Falls, assignor to W. & L. E. Gurley, Troy, N. Y. Apparatus for determining the tendency of paper to shrink. 2,326,088; Aug. 3.
Wittman, Richard C., Emporium, Pa. Humidifier. 2,326,089; Aug. 3.
Wood, Joseph K., assignor to General Spring Corporation, New York, N. Y. Emergency shutoff for steam lines. 2,325,725; Aug. 3.
Wood, William H., Jr., Ansonia, Conn. Water heating unit for oil burners. 2,325,824; Aug. 3.
Writzmann, Alex A. (See Millermaster, R. A., and Writzmann.)
Yadon, John M., Oakland, Calif., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Terminal connector. 2,326,090; Aug. 3.
Yant, Chester W. (See Schmidt, E. G., and Yant.)
Young & Haug Trust Estate. (See Young, H. E., and Haug, assignor.)
Young, Hugh E., and E. H. Haug, assignors to Hugh E. Young, trustee of Young & Haug Trust Estate. Voltage regulator system. 2,325,899; Aug. 3.
Zablow, Nathan P. (See Fidelman, Paul, assignor.)
Zabriskie, John W., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y. Stirring assembly. 2,326,091; Aug. 3.
Zeier, Frederick F., Fairfield, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Sewing machine frame. 2,325,928; Aug. 3.
Zoll, Carl M., assignor to Universal Hydraulic Stress Equalizer, Inc., Dundalk, Md. Airplane carrier and seadrome. 2,325,993; Aug. 3.
Zoll, Carl M., assignor to Universal Hydraulic Stress Equalizer, Inc., Dundalk, Md. Lift equalizing repair dock. 2,325,994; Aug. 3.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 3D DAY OF AUGUST, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Adapter for mounting machine guns. F. M. Salisbury. Re. 22,361; Aug. 3.
Beads, Producing. L. G. Arpin. Re. 22,358; Aug. 3.
Garment construction. R. Hirschfeld. Re. 22,360; Aug. 3.
Signature handling machine. M. Christensen. Re. 22,359; Aug. 3.

LIST OF PLANT INVENTIONS

Violet, African. P. Ruggeri. 597; Aug. 3.

LIST OF DESIGN INVENTIONS

Airplane. G. A. Page, Jr. 136,100; Aug. 3.
Airplane or similar article. G. J. Novikoff. 136,078; Aug. 3.
Automobile. G. L. Chieng. 136,106–7; Aug. 3.
Billfold. H. Weinstein. 136,093; Aug. 3.
Brooch or similar article. A. Philippe. 136,079–80; Aug. 3.
Brooch or similar article. E. Spielberg. 136,110; Aug. 3.
Cabinet, Card index. H. S. Ray. 136,089; Aug. 3.
Cap for container, Dispensing. W. E. Hartman, Sr. 136,098; Aug. 3.
Comb, Sheep clipper. R. L. Hudson. 136,086; Aug. 3.
Crib, Foldable paper Christmas. E. Herz. 136,085; Aug. 3.
Dial for aircraft attitude indicating device. R. E. Lorenzen. 136,099; Aug. 3.
Doughnut or the like. R. Morow. 136,111; Aug. 3.
Drafter, Isometric. A. E. Tripp. 136,091; Aug. 3.
Dress. B. Cashin. 136,112; Aug. 3.
Dress. G. Constantine. 136,113; Aug. 3.
Dress. A. H. Steinberg. 136,103; Aug. 3.
Dress. J. Walker. 136,117–20; Aug. 3.
Earring. M. Chernow. 136,077; Aug. 3.
Envelope. P. Brown, Jr. 136,084; Aug. 3.
Generator, Thermoelectric. H. J. Findley. 136,109; Aug. 3.
Handle for a coffeepot or the like. K. Schneider. 136,102; Aug. 3.
Hanger, Garment. R. E. Schreiber. 136,082; Aug. 3.
Holder, Shade. J. J. W. Stephens. 136,114; Aug. 3.
Lens, Ophthalmic-mounting. A. B. Chaney. 136,095; Aug. 3.
Mask for dolls or similar article. H. Levy. 136,087; Aug. 3.
Mitten. B. Chalk. 136,094; Aug. 3.
Necktie or similar article. M. Urdang. 136,104–5; Aug. 3.
Ornament or similar article, Lapel. C. Wandt. 136,092; Aug. 3.
Package or similar article, Folding dispensing. L. L. Salfisberg. 136,101; Aug. 3.
Paper, or the like, Wrapping. O. Lion. 136,088; Aug. 3.
Piano. L. Bromberg. 136,083; Aug. 3.
Scarf, Head. E. Goodman. 136,097; Aug. 3.
Shaker, Combined salt and pepper. H. L. Ross. 136,081; Aug. 3.
Shoe. W. Birenbaum. 136,076; Aug. 3.
Spectacles, Pair of. A. B. Chaney. 136,096; Aug. 3.
Suit, Lady's. S. Kuznetz. 136,115–16; Aug. 3.
Triangle, Parallel. A. E. Tripp. 136,090; Aug. 3.
Weather indicating device. C. Casey. 136,108; Aug. 3.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 3D DAY OF AUGUST, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Accounting and filing system. P. E. M. Thomson 2,325,641; Aug. 3.
Acetaldehyde-formaldehyde condensation product. E. A. Bried. 2,325,589; Aug. 3.
Adjustable handle. C. S. Fredricksen. 2,326,023; Aug. 3.
Advertising novelty. S. Schweitzer. 2,325,710; Aug. 3.
Air conditioner. G. R. Maddox. 2,325,692; Aug. 3.
Air control instrument. C. B. Moore. 2,325,967; Aug. 3.
Air valve. A. Keefe. 2,325,685; Aug. 3.
Aircraft landing gear. G. H. Dowty. 2,326,020; Aug. 3.
Aircraft, Rotary wing. C. G. Pullin. 2,325,632; Aug. 3.
Airplane construction. J. K. Anderson. 2,325,900; Aug. 3.
Airplane, Multidrive. J. Petrich. 2,326,104; Aug. 3.
Alarm system, Emergency. W. G. Bauer. 2,325,902; Aug. 3.
Amplifier, Wide range. A. W. Barber. 2,325,933; Aug. 3.
Annealing furnace. C. B. Hoak. 2,325,677; Aug. 3.
Anthraquinone compound. J. G. McNally and J. B. Dickey. 2,326,047; Aug. 3.
Antifreeze device, Motor. A. Merdan. 2,326,050; Aug. 3.
Apparatus for burning fuel. R. E. Bressler. 2,325,655; Aug. 3.
Apparatus for conveying pulverulent broken or like materials. G. H. Strain. 2,325,715; Aug. 3.
Apparatus for coupling tractors to trailers. B. A. Mosling. 2,325,869; Aug. 3.
Apparatus for determining the tendency of paper to shrink. G. S. Witham, Jr. 2,326,088; Aug. 3.
Apparatus for forming and impregnating fibrous pads. C. Field and G. C. Toole. 2,324,600; Aug. 3.
Apparatus for handling fruit. H. L. Porch. 2,325,919; Aug. 3.
Apparatus for roasting coffee. C. E. Cusack and H. H. Berger. 2,326,094; Aug. 3.
Apparatus for shaping and polishing diamond dies. A. Simons. 2,325,713; Aug. 3.
Apparatus for supplying strip. E. R. Tyrrell. 2,326,079; Aug. 3.
Apparatus for vibration testing. J. A. Hutcheson. 2,326,033; Aug. 3.
Applicating aid, Cosmetic. E. Moore and J. Katsaros. 2,325,968; Aug. 3.
Article grinding apparatus. J. K. Jackson. 2,326,034; Aug. 3.
Automatic choke valve. L. E. Perrine. 2,325,918; Aug. 3.
Automatic cutoff and swaging machine tool. H. E. VanNess and J. MacBlane. 2,326,106; Aug. 3.
Automotive suspension. N. E. Wahlberg, R. H. Phelps, and W. S. Berry. 2,325,894; Aug. 3.
Ax. F. C. Greene. 2,325,768; Aug. 3.
Back-lash take-up for cross feed screw and taper attachment. M. P. Holmes. 2,325,678; Aug. 3.
Bag: *See*—
Shopping bag. Suction cleaner dirt bag.
Ball reprojector. M. A. Kellermann and D. W. Price. 2,325,858; Aug. 3.
Bar: *See*—
Sine bar.
Bearing material. C. P. Teeple. 2,326,000; Aug. 3.
Belt position resiliently expansible pulley, Constant. D. C. Batterson. 2,325,649; Aug. 3.
Billet heating apparatus. H. A. Strickland, Jr. 2,325,638; Aug. 3.
Binding. A. F. Brook. 2,325,938; Aug. 3.
Bit: *See*—
Rotary drilling bit.
Black-out device. J. C. Wirthman. 2,325,992; Aug. 3.
Blackout equipment for windows. G. W. Steltner. 2,325,923; Aug. 3.
Block: *See*—
Cutting block.
Board: *See*—
Portable folding ironing board.
Boat loading attachment for automobiles. C. F. Ford. 2,325,762; Aug. 3.
Boat hull construction. A. W. W. van Hoorn. 2,326,080; Aug. 3.
Box: *See*—
Spinning box.
Brake: *See*—
Disk brake. Load brake.
Fluid brake. Sheet metal brake.
Brake. F. C. Frank. 2,325,944; Aug. 3.
Brake arrangement. W. H. Baselt and C. E. Tack. 2,325,934; Aug. 3.

Brake testing machine, Automotive. F. L. Hetzel. 2,325,910; Aug. 3.
Braking apparatus. J. A. Forbes. 2,325,846; Aug. 3.
Brominated acrylonitrile and preparing the same. J. D. D'Ianni. 2,326,095; Aug. 3.
Brush, End. R. O. Peterson. 2,325,629; Aug. 3.
Brush holder. F. G. Dieke. 2,325,595; Aug. 3.
Bucket, Centrifugal spinning. H. J. McDermott and R. W. Stanley. 2,325,787; Aug. 3.
Bucket, Spinning. H. P. Fry, Jr. 2,325,763; Aug. 3.
Bucket tooth unit. M. J. White. 2,325,991; Aug. 3.
Buffing machine. E. E. Murray. 2,325,622; Aug. 3.
Building unit. E. T. Putnam. 2,325,800; Aug. 3.
Burner: *See*—
Liquid fuel burner.
Cabinet: *See*—
Vapor bath cabinet.
Cabinet latch. J. W. Samzelius. 2,326,069; Aug. 3.
Calculator. M. Fleischer. 2,325,761; Aug. 3.
Calking compound. H. L. Acker. 2,325,726; Aug. 3.
Camera back latch. J. W. Gillon and G. A. Haraden. 2,326,025; Aug. 3.
Can: *See*—
Garbage can.
Carrier: *See*—
Tire carrier.
Carrier and seadrome, Airplane. C. M. Zoll. 2,325,993; Aug. 3.
Carrier or felting needle. C. J. Kopriva and P. T. Gates. 2,326,038; Aug. 3.
Carton, Cartridge. O. Eggebrecht, K. Koehler, and F. J. Gruper, Jr. 2,325,756; Aug. 3.
Carton, Shell. O. Eggebrecht. 2,325,755; Aug. 3.
Case: *See*—
Garment case.
Caster wheel mounting. J. F. Wallace. 2,325,895; Aug. 3.
Catalytic dehydrogenation. H. C. Huffman. 2,325,911; Aug. 3.
Catalytic treatment of hydrocarbon oils. G. M. Keranen. 2,325,611; Aug. 3.
Cathode ray tube device. G. Hepp and J. van der Mark. 2,325,676; Aug. 3.
Cavity inspection device. W. J. Cameron. 2,325,831; Aug. 3.
Cementer for platform sole and wedge heel units. W. L. MacKenzie. 2,325,784; Aug. 3.
Chain. C. F. Streit. 2,325,716; Aug. 3.
Circuit: *See*—
Regulating circuit.
Circuit breaker. H. G. Baxter. 2,325,650; Aug. 3.
Circuit breaker. R. H. Swingle. 2,325,717; Aug. 3.
Circuit breaker, Electric. J. D. Gayer. 2,325,949; Aug. 3.
Circuit breaker reclosing mechanism, High-speed. J. W. Ow. 2,326,061; Aug. 3.
Circuit controlling apparatus. R. C. Jones. 2,326,036; Aug. 3.
Circuit interrupter. J. Slepian. 2,326,074; Aug. 3.
Clamp: *See*—
Fuse clamp. Toggle clamp.
Clasp fastener. A. Novick. 2,325,702; Aug. 3.
Cleaner: *See*—
Suction cleaner.
Clock controlled mechanism. E. O. Thompson. 2,325,812; Aug. 3.
Coating composition, Polystyrene. R. C. Swain and P. Adams. 2,325,987; Aug. 3.
Coffee maker. H. G. Lehmann. 2,325,912; Aug. 3.
Coffee roaster and percolator, Combined. G. L. Kayden. 2,325,684; Aug. 3.
Coil for relays and inductive apparatus. C. M. Morris. 2,326,053; Aug. 3.
Coil, Heating. H. A. Strickland, Jr. 2,325,810; Aug. 3.
Combination switch. C. G. Kronmiller. 2,326,040; Aug. 3.
Composite material. C. Dreyfus. 2,325,668; Aug. 3.
Composite material. W. H. Moss. 2,325,700; Aug. 3.
Composite package. L. L. Salfisberg. 2,325,921; Aug. 3.
Compressor, Drawer. R. Willard. 2,326,087; Aug. 3.
Condensation products. K. Schmidt and O. Wahl. 2,325,803; Aug. 3.
Condensation products of 1,4-naphthydroquinones, Producing. O. Isler. 2,325,681; Aug. 3.
Connector: *See*—
Terminal connector.
Contact member and electrical device. W. W. Watrous, Jr. 2,325,817; Aug. 3.
Container. H. Sebell. 2,325,922; Aug. 3.

Container cover applying machine. A. F. Pityo. 2,325,978; Aug. 3.
Container filling machine. L. W. Waters. 2,325,816; Aug. 3.
Container holder. L. G. Shurmur. 2,325,712; Aug. 3.
Continuous filter. A. H. Schutte. 2,325,635; Aug. 3.
Continuous filter. A. H. Schutte. 2,326,071; Aug. 3.
Control mechanism. W. R. Gerry. 2,325,671; Aug. 3.
Control of fuel feeding device. A. E. Baak. 2,326,002; Aug. 3.
Control shafts to pre-selected angular positions, Turning. L. R. J. Leishman. 2,325,864; Aug. 3.
Conveyer system. E. G. Kimmich. 2,326,098; Aug. 3.
Core for concrete molds. C. A. Kerr. 2,325,686; Aug. 3.
Corn husker. C. E. Kerr. 2,325,859; Aug. 3.
Coupling: *See*—
Yieldable coupling.
Cover: *See*—
Milk bottle cover.
Cover operating means for cooking appliances. C. E. Waltman. 2,325,897; Aug. 3.
Cowl fastener. T. J. Moran. 2,325,699; Aug. 3.
Crankshaft. M. G. Shoemaker. 2,325,804; Aug. 3.
Crate for water bottles or carboys. C. E. Johnson. 2,325,863; Aug. 3.
Cream separator or the like. R. W. Muerle. 2,325,871; Aug. 3.
Creel apparatus. P. C. Pasquerello. 2,325,974; Aug. 3.
Crucifix, Illuminated. R. L. Schleif. 2,325,883; Aug. 3.
Curl heater. M. D. Pountain. 2,325,799; Aug. 3.
Current collector. B. M. Newbrough. 2,325,971; Aug. 3.
Cutter: *See*—
Edible plastic substance cutter.
Glass cutter.
Cutting block. M. Maeser. 2,325,620; Aug. 3.
Cyclic acetals of formaldehyde and preparing them. W. Fitzky. 2,325,760; Aug. 3.
Cyclopropane, Preparing. W. G. Christiansen and J. M. Ort. 2,325,591; Aug. 3.
Cyclopropane, Preparing. J. M. Ort. 2,325,628; Aug. 3.
Dairy sediment trap. G. K. Thompson. 2,325,890; Aug. 3.
Delayed closing automatic water discharge valve. P. E. Waugh. 2,325,925; Aug. 3.
Device for electric welding. G. L. Collins. 2,325,743; Aug. 3.
Device for indicating improper trigger pulling. P. Fidelman. 2,325,599; Aug. 3.
Device for preventing backflow in liquid-carrying lines. C. W. Holtman. 2,325,956; Aug. 3.
Device for sterilizing glasses and the like. W. E. Doughty. 2,326,018; Aug. 3.
Device for use in refinishing fulling mill rolls. B. S. Robinson. 2,326,066; Aug. 3.
Device for washing glasses and the like. W. E. Doughty. 2,326,017; Aug. 3.
Diallyl maleate as an insecticide. W. Moore and R. O. Roblin, Jr. 2,325,790; Aug. 3.
Diamyl maleate as an insecticide. W. Moore and R. O. Roblin, Jr. 2,325,791; Aug. 3.
Diaphragm for chlorine cells. W. T. Nichols. 2,326,101; Aug. 3.
Die caster, Rotary. R. G. Le Tourneau. 2,325,782; Aug. 3.
Die mechanism and method. E. M. Amesbury, J. G. Macormack, S. M. Roberts, and F. W. Sample. 2,325,929; Aug. 3.
Digit transmitting system. C. D. Lake and F. E. Hamilton. 2,325,960; Aug. 3.
Dihydroisobenzofurans and preparing them. R. Adams. 2,325,727; Aug. 3.
Dinitro cresol, Making. M. L. Dolt and A. G. Hill. 2,325,753; Aug. 3.
Disk brake. E. R. Evans. 2,325,596; Aug. 3.
Dispenser for tableware. W. J. Gibbs and E. F. Smith. 2,325,604; Aug. 3.
Display. R. Burdick. 2,325,830; Aug. 3.
Display package. G. E. Damrow. 2,326,013–4; Aug. 3.
Disposal unit, Coin. H. A. Henning. 2,325,954; Aug. 3.
Doll, Convertible. M. De Vries. 2,325,750; Aug. 3.
Door: *See*—
Furnace door.
Door stop. A. L. Moberg. 2,325,914; Aug. 3.
Domestic appliance. J. B. Dyer. 2,325,837; Aug. 3.
Dressing mechanism. H. N. Seyferth. 2,326,073; Aug. 3.
Drill. J. S. Nurnberger and L. G. Lankford. 2,325,973; Aug. 3.
Driving apparatus for crawler type vehicles. C. W. Leguillon. 2,325,690; Aug. 3.
Driving device. R. O. Allen. 2,325,728; Aug. 3.
Dry dock, Floating. F. R. Harris. 2,325,607; Aug. 3.
Drying method. R. A. Bierwirth. 2,325,652; Aug. 3.
Dye bleaching process. R. A. Morris. 2,326,055; Aug. 3.
Earphone. R. W. Carlisle and A. J. Mastropole. 2,325,590; Aug. 3.
Edible plastic substance cutter. C. Doering. 2,326,016; Aug. 3.
Electric power distribution, System of. G. L. Claybourn. 2,325,663; Aug. 3.
Electric switch. R. A. Millermaster and A. A. Writzmann. 2,325,697; Aug. 3.
Electric valve frequency changer. E. D. McArthur. 2,325,965; Aug. 3.
Electric water heater. L. E. Walther. 2,325,722; Aug. 3.
Electrical heating device. L. F. Black and C. H. Mellor. 2,325,585; Aug. 3.
Electrical protective device. K. H. Benton. 2,325,935; Aug. 3.
Electrical shielding and locking means for thermionic tubes. K. L. Henderson, 2,325,770; Aug. 3.
Electrical switching apparatus. K. A. Oplinger. 2,326,060; Aug. 3.
Electrical system. L. H. Von Ohlsen and J. J. Kennedy. 2,325,815; Aug. 3.
Electrode structure for velocity modulation tubes. C. V. Litton. 2,325,865; Aug. 3.
Electrodeposition of manganese and cathode therefor. H. L. Chamberlain. 2,325,660; Aug. 3.
Electron discharge device. H. Cohn. 2,325,664; Aug. 3.
Electron tube mounting. G. Baumbach. 2,325,825; Aug. 3.
Electrowinning of manganese, Purification in. F. M. Wannamaker and W. D. Morgan, Jr. 2,325,723; Aug. 3.
Elevator, Box. A. R. Thompson and R. M. Magnuson. 2,325,889; Aug. 3.
Enclosed mercury switch. I. E. McCabe. 2,325,785; Aug. 3.
Envelope, Dispensing. W. E. Drake. 2,325,942; Aug. 3.
Evaporating solvents from solutions. V. R. Kokatnur and J. J. Jacobs, Jr. 2,326,099; Aug. 3.
Evaporator. J. E. George. 2,326,024; Aug. 3.
Extractor: *See*—
Juice extractor.
Fan guard, Tractor. P. P. McLemore, Jr. 2,325,913; Aug. 3.
Fan, Portable electric. E. A. Ebert. 2,325,754; Aug. 3.
Fastener: *See*—
Clasp fastener. Sliding clamp fastener.
Cowl fastener. Snap fastener.
Feeder: *See*—
Poultry feeder.
Feeding mechanism. A. K. Bradley. 2,326,005; Aug. 3.
Feeding mechanism. A. H. Weis. 2,325,643; Aug. 3.
Felting apparatus, Mineral wool. G. T. Pearce. 2,325,975; Aug. 3.
Fender, de-icer. F. Atkinson. 2,325,901; Aug. 3.
Ferrous alloy thermocouple element. D. I. Finch. 2,325,759; Aug. 3.
Filing system. M. Grunt. 2,326,029; Aug. 3.
Filler. C. M. Williams. 2,326,085; Aug. 3.
Filleting machine. W. H. Hunt. 2,325,680; Aug. 3.
Filling attachment for tractor fuel tanks, Suction controlled. A. W. Gustafson. 2,325,674; Aug. 3.
Film, Antihalation. G. F. Nadeau and A. D. Slack. 2,326,056–7; Aug. 3.
Film loading guide for developing tank reels, Detachable. R. E. Wilson. 2,325,823; Aug. 3.
Film splicing machine. J. Bazell. 2,325,651; Aug. 3.
Film winding mechanism. I. Serrurier. 2,325,885; Aug. 3.
Filter: *See*—
Continuous filter.
Filter, dehydrator, and indicator, Combined. N. B. Burkness. 2,325,657; Aug. 3.
Filter for inverted pumps. R. L. Chenault. 2,325,661; Aug. 3.
Fire extinguisher means. D. M. Myers. 2,325,625; Aug. 3.
Fishing reel. G. A. Kreb. 2,325,861; Aug. 3.
Flash lamp. J. H. de Boer. 2,325,667; Aug. 3.
Flexible hard surface coverings and apparatus therefor, Making. V. Spencer. 2,326,105; Aug. 3.
Flowmeter. C. F. Schorn. 2,325,884; Aug. 3.
Flowmeter. E. F. Stover. 2,325,714; Aug. 3.
Fluid brake. L. M. Nay. 2,325,626; Aug. 3.
Fluid control means, Speed responsive. T. B. Tyler. 2,325,814; Aug. 3.
Fluid control valve. W. A. Ray. 2,325,878; Aug. 3.
Fluid meter. J. McAfee. 2,325,695; Aug. 3.
Fluid passage swivel joint. A. H. Jung. 2,326,037; Aug. 3.
Formation of porous rubber products. W. E. Stewart. 2,325,637; Aug. 3.
Frame: *See*—
Sewing machine frame.
Fuel briquettes, Waterproofing. J. A. Erickson. 2,325,840; Aug. 3.
Fuel, Diesel. E. M. Nygaard, J. H. McCracken, and F. M. Seger. 2,326,102; Aug. 3.
Fuel feeding device for aircraft. R. Avigdor. 2,325,931; Aug. 3.
Furnace: *See*—
Annealing furnace. Heating furnace.
Furnace door. O. M. Fuchs. 2,325,945; Aug. 3.
Fuse clamp. R. A. Millermaster and A. A. Writzmann. 2,325,698; Aug. 3.
Game device. M. M. Marcus. 2,325,693; Aug. 3.
Garbage can. M. T. Stephansko. 2,325,808; Aug. 3.
Garden implements. A. M. Buehler. 2,325,939; Aug. 3.
Garment. I. Spencer. 2,325,888; Aug. 3.
Garment case. J. T. Simmons. 2,325,806; Aug. 3.
Garments, Manufacture of elastic tubular. R. and J. Pickles. 2,325,977; Aug. 3.
Gas range, Kitchen heating. J. F. Hennessy. 2,325,772; Aug. 3.

Gas separation system. H. R. Legatski. 2,325,781; Aug. 3.
Gas turbine plant. C. Seippel. 2,326,072; Aug. 3.
Gasoline, Manufacture of antiknock. C. K. Viland. 2,325,891–2; Aug. 3.
Gasoline, Treating. J. J. Allinson, J. W. Poole, and F. R. Grant. 2,325,581; Aug. 3.
Gauge: *See*—
Micrometer gauge.
Gauge. A. Eisele. 2,325,996; Aug. 3.
Gear: *See*—
Aircraft landing gear.
Gear crowning. R. S. Drummond. 2,325,836; Aug. 3.
Gear cutting machine. J. C. Meier. 2,325,696; Aug. 3.
Gears or the like, Production of. W. A. Tryon. 2,325,989; Aug. 3.
Generator: *See*—
Vapor generator.
Glass article and making it. R. H. Dalton. 2,326,012; Aug. 3.
Glass cutter. A. T. Fletcher. 2,325,943; Aug. 3.
Glass forming apparatus. J. T. Littleton. 2,326,044; Aug. 3.
Glass having an expansion lower than that of silica. M. E. Nordberg. 2,326,059; Aug. 3.
Glass prism. R. C. Cobel. 2,326,009; Aug. 3.
Grinding machine. H. B. Barrett. 2,325,826; Aug. 3.
Ground working tool for agricultural implements. P. J. Anderson. 2,325,579; Aug. 3.
Guanidine ammonium ferrocyanide. U. Liddel. 2,326,107; Aug. 3.
Handle: *See*—
Razor blade handle.
Handle for utensils. R. E. Faber. 2,325,841; Aug. 3.
Handling and racking platform, Pipe. D. R. Moore. 2,326,052; Aug. 3.
Harvester, Bean. R. Rico. 2,325,879; Aug. 3.
Harvester or clipper, Lycopodium. R. H. Bishop, Jr. 2,325,734; Aug. 3.
Harvesting machine. E. F. Huddle. 2,325,857; Aug. 3.
Heater: *See*—
Electric water heater.
Heating furnace. E. Ehlers. 2,325,757; Aug. 3.
Holder: *See*—
Brush holder. Welding rod holder.
Container holder.
Holder for photographic cameras, Cut film. B. L. Smith and V. E. Whitman. 2,326,075; Aug. 3.
Humidifier. R. C. Wittman. 2,326,089; Aug. 3.
Hydraulic door check. D. J. Seaman. 2,325,711; Aug. 3.
Hydraulic power system for tractors. G. S. Allin. 2,325,729; Aug. 3.
Hydrocarbon gases, Conversion of. J. W. Throckmorton. 2,325,813; Aug. 3.
Hydrocarbons, Recovery and frictionation of light. D. G. Brandt. 2,325,588; Aug. 3.
Hydrocarbons, Rectifying. Du B. Eastman and L. P. Scoville. 2,325,839; Aug. 3.
Hydrometer. A. Moyer. 2,325,776; Aug. 3.
Igniter, Low current. A. H. Toepfer. 2,325,718; Aug. 3.
Impact member for impact crushers and securing means therefor. O. C. Gruender and E. Werner. 2,325,605; Aug. 3.
Implement control device. J. V. Dyrr. 2,325,838; Aug. 3.
Indicator: *See*—
Speed indicator.
Indicator for suction cleaning system. D. B. Replogle. 2,325,633; Aug. 3.
Inductor switch. H. Williams, P. M. Martin, and D. H. Baum. 2,326,086; Aug. 3.
Inertia switch. K. A. Edstrom. 2,325,908; Aug. 3.
Initiator and cap. LeR. V. Clark. 2,325,742; Aug. 3.
Instrument deflection modifier. H. A. Andersen. 2,325,582; Aug. 3.
Instrument, Fire control. J. F. Joy. 2,325,610; Aug. 3.
Intermediates for estrogenic therapeutic agents. E. Rohrmann. 2,326,068; Aug. 3.
Joint: *See*—
Fluid passage swivel joint.
Joint construction. W. A. Flumerfelt. 2,325,845; Aug. 3.
Journal box and sealing closure, Combined. C. M. Hannaford. 2,325,852; Aug. 3.
Juice extractor. F. J. Kraber. 2,325,779; Aug. 3.
Key, Can-opening. T. L. Gats. 2,325,601; Aug. 3.
Key, Radio speed. J. R. Pinelli. 2,325,631; Aug. 3.
Lamp: *See*—
Flask lamp.
Lamp fitting for use in flashlight photography. A. Barrett. 2,326,004; Aug. 3.
Landing gear of aircraft. G. H. Dowty. 2,326,019; Aug. 3.
Latch: *See*—
Cabinet latch. Camera back latch.
Launching device, Glider. J. N. Petty. 2,325,630; Aug. 3.
Leather manufacturing machine. E. E. Winkley. 2,325,724; Aug. 3.
Lens surfacing device. W. P. Canning. 2,325,740; Aug. 3.
Level control for washing machines. A. J. Rohr. 2,326,067; Aug. 3.
Leveler, Land. L. Oswald. 2,325,875; Aug. 3.
Lintel. J. J. Klaber. 2,325,614; Aug. 3.
Liquid fuel burner. E. C. Vollmer. 2,325,893; Aug. 3.
Liquid hydrocarbons from gaseous and solid carbonaceous materials, Manufacture of. C. L. and E. A. Ocon. 2,325,916; Aug. 3.
Liquid treatment. H. B. Gustafson. 2,325,675; Aug. 3.
Load brake. H. F. Parker, E. E. Robins, and L. B. Gilbert. 2,325,917; Aug. 3.
Loader. H. H. Cook. 2,325,833; Aug. 3.
Loader, Beet. J. F. Passa. 2,325,704; Aug. 3.
Locating bearing for horizontal shafts. H. Murtagh and W. G. Harding. 2,325,623; Aug. 3.
Lock: *See*—
Nut and bolt lock. Window lock.
Lubricating system. L. T. Miller. 2,326,051; Aug. 3.
Lutidine compounds. G. Riethof. 2,325,880; Aug. 3.
Machine for acting on cartridge cases. J. E. Turnock and G. D. Noble. 2,325,642; Aug. 3.
Machine for manufacturing linked sausages. J. Haag. 2,325,769; Aug. 3.
Machine for shrinking and felting hat bats. H. A. Genest. 2,325,909; Aug. 3.
Machine for typewriting. E. L. Wise. 2,325,898; Aug. 3.
Machine-ironing shirts, Completely. C. P. Downer and H. G. Cooper. 2,325,907; Aug. 3.
Magnet casting. M. P. Christensen. 2,325,832; Aug. 3.
Magnetic recording and reproducing apparatus for use with steel bands, wires, or the like. F. E. Fischer. 2,325,844; Aug. 3.
Material, Dyeing mixed fibrous. J. Nusslein and C. E. Muller. 2,325,972; Aug. 3.
Means and method for controlling motive forces. R. A. Preston. 2,325,707; Aug. 3.
Mechanical shorthand writing means. W. V. Kirkpatrick. 2,325,612; Aug. 3.
Mechanical valve shutoff system, Repeating. C. P. Bergman and M. Cornell. 2,325,732; Aug. 3.
Metal, Cleaning. C. J. Krogel. 2,325,957; Aug. 3.
Metal finish, Simulated hammered. G. Ariotti and E. H. Bucy. 2,326,001; Aug. 3.
Metal stock, Composite. T. B. Chace. 2,325,659; Aug. 3.
Metalworking machine. M. v. and M. v. Berlichingen. 2,325,827; Aug. 3.
Meter: *See*—
Fluid meter.
Method and apparatus for collapsing water waves. P. Brasher. 2,325,937; Aug. 3.
Method and apparatus for producing mineral wool. H. T. Coss. 2,325,940; Aug. 3.
Micrometer gauge. P. Glouton. 2,325,767; Aug. 3.
Milk bottle cover, Insulated. T. Higgins. 2,325,955; Aug. 3.
Mill. M. S. Sisulak. 2,325,886; Aug. 3.
Mine haulage vehicle. E. M. Arentzen and A. L. Lee. 2,325,730–1; Aug. 3.
Mineral oils, Conversion of. D. G. Brandt. 2,325,587; Aug. 3.
Mining machine chain lugs, Making. H. M. Morrow. 2,325,792; Aug. 3.
Molding apparatus for making thin walled hollow articles. H. M. Dodge. 2,325,752; Aug. 3.
Mop, Dust. C. Fatland. 2,325,598; Aug. 3.
Motive fluid for primer movers. A. Lysholm. 2,325,618; Aug. 3.
Motor: *See*—
Permanent magnet motor. Submersible electric motor.
Motor operated key identifier. B. Cooper. 2,325,744; Aug. 3.
Mounting: *See*—
Caster wheel mounting. Phonograph mounting.
Mounting construction for brake shoes, Single anchor. S. Schnell. 2,325,998; Aug. 3.
Mounting for rear vision mirrors. W. La Hodny and P. Bertell. 2,325,615; Aug. 3.
Musical directing device. C. C. Gall. 2,325,764; Aug. 3.
Nail and fastener. E. Gisondi. 2,325,766; Aug. 3.
Needles and needlelike articles, Manufacture of. S. J. Everett. 2,326,022; Aug. 3.
Nitroamino guanidine as initiating charge in firing devices, Use of lead salts of. Le R. V. Clark. 2,326,008; Aug. 3.
Nozzle for vacuum cleaners. C. A. Brock. 2,325,739; Aug. 3.
Nut and bolt lock. R. Hofstetter. 2,325,608; Aug. 3.
Oil burner control. A. Macchi. 2,325,964; Aug. 3.
Oil, Compounded mineral. B. B. Farrington, J. O. Clayton, and J. T. Rutherford. 2,325,597; Aug. 3.
Oil, Treating. G. B. Hanson. 2,325,850; Aug. 3.
Operator, Window. E. C. Horton. 2,325,775; Aug. 3.
Outdoor cooking stove. E. D. Betts. 2,325,828; Aug. 3.
Oven, Drying. N. J. Greene and G. C. Reese. 2,325,950; Aug. 3.
Oven observation window construction. J. F. Hennessy. 2,325,773; Aug. 3.
Packaging apparatus. A. B. Erekson. 2,325,670; Aug. 3.
Packaging machinery for razor blades and like articles. G. I. Hohl. 2,325,774; Aug. 3.
Painting device. M. Matsakas. 2,325,867; Aug. 3.
Pants, Pajama. T. B. Terry. 2,325,924; Aug. 3.
Paper and paperboard, Treatment of. S. Musher. 2,325,624; Aug. 3.
Paper, Making coated laminated. P. S. Barnhart. 2,325,584; Aug. 3.
Parasiticides. E. Urbschat and F. Heckmanns. 2,325,720; Aug. 3.
Paving. K. E. McConnaughay. 2,326,045; Aug. 3.

Permanent magnet motor. J. M. Naul. 2,325,915; Aug. 3.
Phonograph. F. E. Runge. 2,325,708; Aug. 3.
Phonograph mounting. I. L. Stephan. 2,325,807; Aug. 3.
Photographic shutter, High-speed between-the-lens. O. Steiner. 2,326,077; Aug. 3.
Pilot light circuit for radio receivers and the like. A. C. Miller. 2,325,789; Aug. 3.
Pin: *See*—
Supporting pin.
Pin and socket connection. M. Litwin and B. Milner. 2,325,691; Aug. 3.
Pinking machine. L. S. Rod. 2,325,634; Aug. 3.
Pipe lock and the like. L. C. Badgley. 2,325,580; Aug. 3.
Plastic molding. L. J. A. Lavallee. 2,326,041; Aug. 3.
Plow, Hinged moldboard. G. M. Horner and L. M. Naffziger. 2,326,097; Aug. 3.
Polishing machine. E. E. Murray. 2,325,701; Aug. 3.
Polymeric guanidines and preparing the same. E. K. Boltan, D. D. Coffman, and L. Gilman. 2,325,586; Aug. 3.
Polymerizing methacrylic acid. E. Trommsdorff and G. Abel. 2,326,078; Aug. 3.
Polyvinyl acetal resins, Preparing. J. G. McNally, C. R. Fordyce, and R. H. Talbot. 2,326,048; Aug. 3.
Polyvinyl halide composition. T. L. Gresham. 2,325,951; Aug. 3.
Portable folding ironing board. B. Parker. 2,326,062; Aug. 3.
Potato hoe attachment for tractors. H. P. Smith. 2,325,887; Aug. 3.
Pouch and making same, Tobacco. I. Gurwick. 2,325,673; Aug. 3.
Poultry feeder. C. T. Phillips. 2,325,976; Aug. 3.
Power and brake control for recording apparatus. P. S. Gay. 2,325,602; Aug. 3.
Power plant for submarines and the like. A. Lysholm. 2,325,619; Aug. 3.
Press: *See*—
Textile ironing press.
Press for forming tablets and the like. A. S. Kux. 2,325,687; Aug. 3.
Printing control device. C. D. Lake. 2,325,959; Aug. 3.
Printing mechanism. R. B. Johnson. 2,325,958; Aug. 3.
Printing mechanism. A. W. Mills. 2,325,966; Aug. 3.
Projector and viewing screen. G. Lessman. 2,326,042; Aug. 3.
Protective device for electrical apparatus systems. J. K. Hodnette and M. G. Leonard. 2,326,031; Aug. 3.
Protector: *See*—
Shoe tip protector.
Pump: *See*—
Reciprocating plunger pump.
Pumping gear unit. C. M. O'Leary, Jr. 2,325,874; Aug. 3.
Pupillary scale. W. R. Hearn. 2,326,030; Aug. 3.
Rapid traverse mechanism for lathes. C. A. Bickel. 2,325,733; Aug. 3.
Razor. O. H. Clarke. 2,325,662; Aug. 3.
Razor blade handle. E. H. Morrow. 2,325,868; Aug. 3.
Razor, Collapsible safety. D. C. Dillon, Jr. 2,325,751; Aug. 3.
Razor, Safety. J. W. O'Mealey. 2,325,794; Aug. 3.
Receiver and trigger-plate construction for firearms. D. M. Williams. 2,325,646; Aug. 3.
Receiver, Ash. J. Visser. 2,325,721; Aug. 3.
Receptacle for garbage cans, Disinfectant. M. T. Stephansko. 2,325,809; Aug. 3.
Receptacle for inflammable fluids. E. L. Nute and E. A. Willey. 2,325,703; Aug. 3.
Reciprocating plunger pump. J. C. Groff. 2,325,672; Aug. 3.
Recording potentiometer. J. Razek. 2,325,801; Aug. 3.
Recovery apparatus. M. S. Robertson. 2,325,881; Aug. 3.
Rectifiers, Manufacture of alternating current. L. H. Peter. 2,326,063; Aug. 3.
Reducer attachment for pouring spouts. H. A. Craig. 2,325,834; Aug. 3.
Reduction crusher. H. Turner, Jr. 2,325,719; Aug. 3.
Reel: *See*—
Fishing reel.
Reel. A. E. Borton. 2,326,092; Aug. 3.
Refining and cracking plant for hydrcarbons, Low pressure. W. Imhoffeldt. 2,326,032; Aug. 3.
Reflector, Rotation-symmetric. W. Gartenmeister. 2,325,765; Aug. 3.
Refrigerating apparatus. R. R. Candor. 2,325,658; Aug. 3.
Refrigerating apparatus. L. A. Philipp. 2,325,705–6; Aug. 3.
Refrigerating system. F. Y. Carter. 2,326,093; Aug. 3.
Refrigeration. W. H. Kitto. 2,325,778; Aug. 3.
Regulating circuit. L. F. Blume. 2,325,936; Aug. 3.
Regulator. J. F. Kovalsky. 2,326,039; Aug. 3.
Relay, Multiunit. E. R. Morton and H. M. Stoller. 2,326,054; Aug. 3.
Repair dock, Lift equalizing. C. M. Zoll. 2,325,994; Aug. 3.
Resilient roller. P. A. Solem. 2,326,076; Aug. 3.
Rest for lathes, Steady. W. F. Groene and H. J. Siekman. 2,325,849; Aug. 3.
Ring: *See*—
Shroud ring.
Roaster and percolator. G. L. Kayden. 2,325,683; Aug. 3.
Rod joint cutting tool. C. L. Morris. 2,325,969; Aug. 3.
Roof, Demountable. G. A. Dailey. 2,325,747; Aug. 3.
Rotary drilling bit. R. R. Crum. 2,325,745; Aug. 3.
Rotor. A. Lysholm and G. K. W. Boestad. 2,325,617; Aug. 3.
Rubber coating composition, Polymeric. R. C. Swain. 2,325,986; Aug. 3.
Rubber composition, Synthetic. D. V. Sarbach. 2,325,981; Aug. 3.
Rubber compounding. C. H. Boys. 2,325,737; Aug. 3.
Rubber, Softening synthetic. D. V. Sarbach. 2,325,979; Aug. 3.
Rubber, Vulcanization of. E. S. Blake. 2,325,735; Aug. 3.
Safety apparatus, Elevator. H. V. McCormick. 2,326,046; Aug. 3.
Safety sling. A. T. Nilsson. 2,325,872; Aug. 3.
Sander. W. R. Myers. 2,325,970; Aug. 3.
Sausage, Marking. C. T. Walter. 2,326,082; Aug. 3.
Screen: *See*—
Projector and viewing screen.
Sensitometry. J. G. Capstaff. 2,326,007; Aug. 3.
Separation of lower polyhydric alcohols from polyhydric alcohol mixtures. E. J. Lorand. 2,325,783; Aug. 3.
Sewing machine. A. H. Weis. 2,325,644; Aug. 3.
Sewing machine frame. F. F. Zeier. 2,325,928; Aug. 3.
Shaver. S. Solomon. 2,325,636; Aug. 3.
Shaving implement. J. A. Hanley. 2,325,606; Aug. 3.
Sheet material punching apparatus. G. F. Wales. 2,325,990; Aug. 3.
Sheet metal brake. S. Bowman. 2,325,736; Aug. 3.
Sheller, Corn. I. E. Borchers. 2,325,654; Aug. 3.
Shoemaking. K. A. Stritter. 2,325,639; Aug. 3.
Shoe parts, Reinforcing. J. J. Brophy. 2,325,656; Aug. 3.
Shoeshining apparatus. T. L. Finley. 2,325,843; Aug. 3.
Shoe tip protector. O. J. Chertok. 2,325,741; Aug. 3.
Shoes, Making prewelt. A. L. Jalbert. 2,325,682; Aug. 3.
Shopping bag. L. W. Harlem. 2,325,853; Aug. 3.
Shroud ring. L. Landweber. 2,325,616; Aug. 3.
Shutoff for steam lines, Emergency. J. K. Wood. 2,325,725; Aug. 3.
Sign insulator and attaching means therefor, High tension. S. C. Miller. 2,325,621; Aug. 3.
Signaling device. R. S. Czachorski. 2,325,666; Aug. 3.
Signaling device. L. N. Hampton and G. G. Smith. 2,325,952; Aug. 3.
Signaling system. H. P. Boswau. 2,325,829; Aug. 3.
Sine bar. C. Brebeck. 2,325,904; Aug. 3.
Sleeve, Drilling. C. F. Terrell, Jr. 2,325,811; Aug. 3.
Slide, Drawer. A. Waller. 2,325,896; Aug. 3.
Sliding clamp fastener. E. Samstegman. 2,325,709; Aug. 3.
Snap fastener. B. J. Frost. 2,325,847; Aug. 3.
Softener for synthetic rubber. B. S. Garvey. 2,325,947–8; Aug. 3.
Softener for synthetic rubber. D. V. Sarbach. 2,325,982–3; Aug. 3.
Softener for synthetic rubber. W. L. Semon. 2,325,985; Aug. 3.
Softness for copolymers of butadiene and acrylonitrile. D. V. Sarbach. 2,325,980; Aug. 3.
Sorting machine. D. C. Cox. 2,325,665; Aug. 3.
Sound damping material, Sheet metal. H. B. Denman. 2,325,594; Aug. 3.
Sound translating apparatus. D. O. Landis. 2,325,688; Aug. 3.
Sparking plug electrode. W. T. Griffiths. 2,326,028; Aug. 3.
Speed indicator. D. A. Wilbur. 2,325,927; Aug. 3.
Spinning box. H. J. McDermott. 2,325,786; Aug. 3.
Sponge rubber material, Making. G. W. Blair and V. H. Bodle. 2,325,903; Aug. 3.
Stabilization of liquids. W. J. Hughes. 2,325,679; Aug. 3.
Stabilizer. C. H. Deerwester and L. D. Bedell. 2,325,835; Aug. 3.
Statistical machine. A. H. Dickinson. 2,325,941; Aug. 3.
Stay, Collar. B. B. Manaster. 2,325,866; Aug. 3.
Stepladder. W. Mumbrauer. 2,325,793; Aug. 3.
Stirring assembly. J. W. Zabriskie. 2,326,091; Aug. 3.
Stool and stepladder, Combined kitchen. P. L. Pace. 2,325,795; Aug. 3.
Strip guide, Traveling. E. M. Brangle and V. W. Kolasinski. 2,325,738; Aug. 3.
Stripping material, Photographic. G. F. Nadeau. 2,326,058; Aug. 3.
Submersible electric motor. R. Avigdor. 2,325,930; Aug. 3.
Subsoil breaker. E. Kelly and H. J. Shepherd. 2,325,997; Aug. 3.
Suction cleaner. F. L. Pierce, H. B. White, and U. A. Whitaker. 2,325,796; Aug. 3.
Suction cleaner. H. B. White. 2,325,821; Aug. 3.
Suction cleaner dirt bag. H. B. White. 2,325,820; Aug. 3.
Support: *See*—
Trolley wire support.
Supporting pin. H. J. Dailey and W. J. Knochel 2,325,748; Aug. 3.
Suppressor. E. W. Caulfield. 2,325,905; Aug. 3.

Switch: *See*—
Combination switch. Inertia switch.
Inductor switch.
Switch mechanism. G. Currie. 2,326,011; Aug. 3.
Switching device, Low reactance. J. E. Hayes. 2,325,854; Aug. 3.
Synthetic resin from polyacetonecetates of polyhydric alcohols and formaldehyde. H. A. Bruson. 2,326,006; Aug. 3.
Synthetic rubber cement and preparing same, Oil resistant. D. V. Sarbach. 2,325,984; Aug. 3.
Synthetic rubber, Softening. B. S. Garvey, Jr. 2,325,946; Apr. 3.
Siphon. T. S. Rigby. 2,325,920; Aug. 3.
Tag, Identification. T. J. Claffey. 2,325,906; Aug. 3.
Tank for vehicles. B. D. Barton. 2,325,648; Aug. 3.
Tank closure. H. W. Bailey and G. A. Clay. 2,326,003; Aug. 3.
Tanks and the like, Leakproof construction of. J. M. Crom. 2,326,010; Aug. 3.
Tape perforating apparatus. W. Leathers. 2,325,961; Aug. 3.
Target apparatus. R. D. Delamere, V. G. Williams, E. R. Grange, and H. Heaton. 2,325,593; Aug. 3.
Telephone system, Automatic. W. T. Powell. 2,325,877; Aug. 3.
Telephone transmission system, Two-way. K. G. Van Wynen. 2,326,081; Aug. 3.
Television apparatus. K. R. Wendt. 2,326,083; Aug. 3.
Tent. J. L. White. 2,325,645; Aug. 3.
Terminal connector. J. M. Yadon. 2,326,090; Aug. 3.
Textile ironing press. E. Davis. 2,326,015; Aug. 3.
Thermoplastic adhesive composition, de F. Lott, H. Grinsfelder, and E. G. Hamway. 2,325,963; Aug. 3.
Thermostatic control device. E. J. Dillman. 2,326,096; Aug. 3.
Thread controlling mechanism for sewing machines. R. Becker. 2,325,995; Aug. 3.
Thread cutting tool. D. Neilson. 2,325,627; Aug. 3.
3-nitro-4-amino anisol, Manufacture of. R. A. Pizzarello. 2,325,797; Aug. 3.
Throttle brake control mechanism. S. R. Hemphill. 2,325,771; Aug. 3.
Time fuse for projectiles. F. Delay. 2,325,749; Aug. 3.
Timer, Impulse. A. J. Kizaur. 2,325,860; Aug. 3.
Tire carrier. C. W. Gildea and J. A. Hausmann. 2,325,848; Aug. 3.
Tissue booklet, Spectacle cleaning. H. T. Snyder. 2,325,999; Aug. 3.
Toggle C clamp. O. M. Kirlin. 2,325,613; Aug. 3.
Tool: *See*—
Automatic cutoff and Rod joint cutting tool.
swaging machine tool. Thread cutting tool.
Tool for splicing cables. I. Jacoel. 2,325,777; Aug. 3.
Tool with inserted teeth, Metal cutting. F. W. Curtis. 2,325,746; Aug. 3.
Toy, Animated. E. De Blanc. 2,325,689; Aug. 3.
Toy seesaw. F. E. Thomas. 2,325,988; Aug. 3.
Toy vehicle. S. Godell. 2,326,026–7; Aug. 3.
Tractor drawn implement. M. M. Hornish. 2,325,855–6; Aug. 3.
Track or conveyer for fruit or vegetables. Multiple loading. P. Jepson. 2,325,862; Aug. 3.
Tractor cultivator. C. W. Mott. 2,325,870; Aug. 3.
Trailer. G. A. Johnson. 2,325,609; Aug. 3.
Train control system, Coded continuous inductive. P. W. Smith. 2,326,049; Aug. 3.
Transfer equipment, Automatic bus. W. Schaelchlin and J. C. Ponstingl. 2,326,070; Aug. 3.
Transmission. W. L. Pollard. 2,325,876; Aug. 3.
Transmission, Air cooled. N. F. Adamson. 2,325,647; Aug. 3.
Transmission synchronizer. W. B. Osborne. 2,325,873; Aug. 3.
Trap: *See*—
Dairy sediment trap.
Traversing means for high speed winding. J. H. Thomas and E. Fletcher. 2,325,640; Aug. 3.
Trestle. E. T. Degler. 2,325,592; Aug. 3.
Trolley pole head. T. R. Rideout. 2,326,065; Aug. 3.
Trolley wire support. S. S. Matthes. 2,325,788; Aug. 3.
Truck, Cable reel. J. R. Shoffner. 2,325,805; Aug. 3.
Truck for trailer vehicles. L. W. Whitmer. 2,325,822; Aug. 3.
Tubes, Igniter mercury-pool. K. J. Germeshausen. 2,325,603; Aug. 3.
Two-way rail anchor, Tie plate interlocking. P. H. Hamilton. 2,325,851; Aug. 3.
Typewriter hood. M. G. Logan. 2,325,962; Aug. 3.
Valve: *See*—
Air valve. matic water discharge
Automatic choke valve. valve.
Delayed closing auto- Fluid control valve.
Valve. E. B. Schmidt and C. W. Yant. 2,325,802; Aug. 3.
Valve actuating mechanism. O. H. Banker. 2,325,932; Aug. 3.
Vapor and liquid contacting apparatus. A. W. Weitkamp and A. G. Oblad. 2,325,818; Aug. 3.
Vapor and liquid contacting apparatus. A. W. Weitkamp and L. C. Brunstrum. 2,325,819; Aug. 3.
Vapor bath cabinet. M. W. Jessup. 2,326,035; Aug. 3.
Vapor generator. N. C. Artsay. 2,325,583; Aug. 3.
Vehicle: *See*—
Mine haulage vehicle. Toy vehicle.
Vehicle wheel. F. J. Hauschild. 2,325,953; Aug. 3.
Ventilating apparatus. H. J. Findley. 2,325,842; Aug. 3.
Voltage regulator system. H. E. Young and E. H. Haug. 2,325,899; Aug. 3.
Wall and partition construction. A. F. Marshall. 2,325,694; Aug. 3.
Wall construction. W. A. Bingham. 2,325,653; Aug. 3.
Wardrobe, Rotary. W. V. Pittman. 2,326,064; Aug. 3.
Waterhead device. S. O. Ferguson. 2,325,758; Aug. 3.
Water heating unit for oil burners. W. H. Wood, Jr. 2,325,824; Aug. 3.
Web, Coating flexible. L. W. Porter. 2,325,798; Aug. 3.
Weeder, Rod. A. A. Scarlett. 2,325,882; Aug. 3.
Welding rod holder. J. P. Weed. 2,325,926; Aug. 3.
Wheel: *See*—
Vehicle wheel.
Wire terminal. F. C. Lavarack and E. M. Deems. 2,326,100; Aug. 3.
Window lock. F. J. Westrope. 2,326,084; Aug. 3.
Wood product, Laminated. C. Dreyfus. 2,325,669; Aug. 3.
Wool, Brominating. R. L. Ericsson. 2,326,021; Aug. 3.
Work indexing apparatus. J. L. Perkins. 2,326,103; Aug. 3.
Yarn and producing same, Artificial. W. Liebig. 2,326,043; Aug. 3.
Yieldable coupling. Le R. Langford. 2,325,780; Aug. 3.

CLASSIFICATION OF PATENTS

ISSUED AUGUST 3, 1943

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

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This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

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THE

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Reissues	3	No. 22,362	to No. 22,364,	inclusive.
Patents	627	No. 2,326,108	to No. 2,326,734,	inclusive.
Designs	37	No. 136,121	to No. 136,157,	inclusive.
Total	889			

Notice

In accordance with the provisions of rule 17 of the Rules of Practice in the United States Patent Office, an examination for the registration of attorneys and agents to practice before the United States Patent Office will be held on Wednesday, October 13, 1943.

This examination may be taken in any of the large cities of the country and will be given under the direction of the Civil Service Commission. Applications to take the examination should be made to the Commissioner of Patents and such applications must be received in the Patent Office not later than September 27, 1943.

Application blanks may be obtained from the Chief Clerk of the Patent Office.

HENRY VAN ARSDALE,
Chairman of the Committee on Enrollment and Disbarment.

Disclaimer

2,305,645.—*Edward A. Sweeley*, Alexandria, Va., and *Norman T. Anderson*, Washington, D. C. AIR REFRIGERATING AND CIRCULATING FACILITIES. Patent dated December 22, 1942. Disclaimer filed July 21, 1943, by the patentees.

Hereby enter this disclaimer to claims 14, 15, 16, 17, 18, and 21 of said patent.

Notices of Cancellation

U. S. PATENT OFFICE, *Richmond, Va., July 9, 1943.*

Technical Lubricants Company, its assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Sulflo, Inc., 1143–45 E. Jersey St., Elizabeth, N. J., to effect the cancellation of trade-mark registration of Technical Lubricants Company, 1012 Baltimore Ave., Kansas City, Mo., No. 287,241, dated September 15, 1931, and the notice of such proceeding sent by registered mail to the said Technical Lubricants Company at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Technical Lubricants Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

U. S. PATENT OFFICE, *Richmond, Va., July 17, 1943*

John N. Melahoures, his assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Theodoros S. Dooganiotis, 103 Liberty St., Newburgh, N. Y., to effect the cancellation of trade-mark registration of John N. Melahoures, 108 William St., Newburgh, N. Y., No. 306,695, dated September 26, 1933, and the notice of such proceeding sent by registered mail to the said John N. Melahoures at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said John N. Melahoures, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

Adjudicated Patents

(C. C. A. N. Y.) Henwood patent, No. 2,001,726, for writing pen, *Held* valid and infringed. *O. Howard Hunt Pen Co.* v. *Radiant Point Pen Corp.*, 135 F.(2d) 870.

(C. C. A. Va.) Clayton, Kerrick and Stadt patent, No. 2,100,274, for process for refining oils, claims 2, 9, 10, 11, 15, 22, 27, and 30 *Held* valid and infringed. *Procter & Gamble Mfg. Co.* v. *Refining, Inc.*, 135 F.(2d) 900.

(C. C. A. N. Y.) Henwood patent, No. 2,121,541, for method for manufacturing pen points, claims 1 and 2 *Held* valid, claim 1 *Held* infringed. *O. Howard Hunt Pen Co.* v. *Radiant Point Pen Corp.*, 135 F.(2d) 870.

(C. C. A. Wis.) Chandler reissue patent, No. 19,445, for remote control system, claims 22–24, 27–29, 31–33, 42, 44, and 45 *Held* not infringed, claim 41 *Held* invalid. *Chandler* v. *Cutler-Hammer, Inc.*, 135 F.(2d) 885.

Conditions of Applications Under Examination at Close of Business July 24, 1943

(Total number of applications awaiting action, excluding Trade-Mark Division, 39,599. Trade-Mark Division, 965. Oldest new case, Sept. 14, 1942. oldest amended, Oct. 2, 1942)
(The dates given are 1943 except where † indicates 1942)

Divisions, Examiners, and Subjects of Inventions	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
1. TUCKER, M. W., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons, Domestic Cooking Vessels; Sewerage.	Mar. 30	Apr. 5	270
2. HERRMANN, D., Fishing and Trapping; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Textile Wringers; Butchering.	Mar. 24	Mar. 31	273
3. WOLFFE, S., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	†Oct. 12	†Oct. 13	934
4. BISHOP, WALTER C., Conveyors; Hoists; Handling Apparatus; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds; Pneumatic Dispatch; Store Service; Mining, Quarrying and Ice Harvesting.	Feb. 11	Feb. 8	430
5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Clasps	Jan. 2	Jan. 1	473
6. GENIESSE, E. W., Carbon Chemistry (part)	†Dec. 29	Jan. 8	1,014
7. JARBOE, C. G., Optics, Photography	Feb. 16	Feb. 25	757
8. ADAMS, F. L., Furniture; Kitchen and Table Articles; Racks and Cabinets	Feb. 4	Feb. 5	530
9. BENSON, R. B., Pumps and Fans; Fluid and Fluid-Current Motors	Jan. 2	Jan. 9	743
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	Jan. 13	Jan. 14	349
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Stop Mechanisms	Jan. 29	†Dec. 21	366
13. DONNELLY, A. E., Metal Working (part); Gear Cutting, Milling and Planing; Needle and Pin Making	Feb. 1	Feb. 5	572
14. HANLIN, GEORGE, Metal Working (part); Farriery; Wire Fabrics	Mar. 4	Mar. 19	505
15. HENKIN, BENJ., Glass, Plastic Block and Earthenware Apparatus; Plastics	Jan. 14	Feb. 1	733
16. SPENCER, C. J., Telegraphy; Telephony	†Dec. 21	†Dec. 21	580
17. HABECKER, LEON B., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet or Web Feeding; Type Setting.	†Oct. 23	†Oct. 7	718
18. KURZ, J. A., Motors, Expansible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal Combustion Engines.	†Dec. 1	†Dec. 12	568
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	†Nov. 14	†Nov. 9	540
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Undertaking; Bread, Pastry, and Confection Making; Laminated Fabrics (part).	Feb. 8	†Dec. 17	486
21. THOMPSON, T. J., Textiles	Feb. 27	Mar. 3	311
22. RINGLE, D., Aeronautics; Firearms; Ordnance and Explosive Devices	†Oct. 19	†Oct. 19	1,781
23. BARROWS, B., Cash Registers; Calculators (part)	Jan. 21	Feb. 1	160
24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines	Mar. 22	Apr. 8	427
26. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Feb. 3	Jan. 15	582
26. YOUNG, R. R., Electricity—Generation and Motive Power	†Dec. 5	†Dec. 16	783
27. CLARK, W. N., Brush, Broom, and Mop Making; Brushing, Scrubbing and General Cleaning; Textiles, Fluid Treating Apparatus; Ironing; Washing Apparatus.	†Dec. 9	†Nov. 18	538
28. SOLYOM, H. L., Internal-Combustion Engines (part); Cylinders and Pistons	†Oct. 23	†Oct. 28	676
29. SHKLARIN, J. B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Package and Article Carriers; Woodworking; Tools; Metal Working, Assembling.	Mar. 6	Mar. 23	397
30. McCANN, LEO P., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	Apr. 19	Mar. 27	270
31. DUNCOMBE, C. S., Hydrocarbons; Mineral Oils	Feb. 8	Feb. 4	1,345
32. LESH, K., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; Earth Boring.	Jan. 1	Jan. 1	625
33. HULL, J. S., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements	Feb. 13	Feb. 15	637
34. SAPERSTEIN, S., Electricity—Meters and Transmission to Vehicles; Railways; Track Sanders; Signals and Indicators.	Mar. 4	Feb. 16	428
35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles	Feb. 25	Feb. 20	505
36. McFADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring	Mar. 30	Apr. 14	301
37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Mar. 4	Feb. 25	417
38. KRAFFT, C. F., Coating Processes; Coating or Plastic Compositions (part)	Jan. 20	†Dec. 17	607
39. WHITNEY, F. I., Fluid-Pressure Regulators; Valves; Water Distribution	Apr. 14	Apr. 3	393
40. DRUMMOND, E. J., Receptacles	Apr. 21	May 1	406
41. HERTZ, M., Coin Handling; Recorders; Deposit Receptacles; Counters and Calculators (part); Typewriting Machines; Check-Controlled Apparatus.	Jan. 25	Jan. 15	382
42. MARANS, H., Electric Signaling	Apr. 10	Apr. 10	337
43. FEDERICO, P. J., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Fluid Treatment of Textiles; Azo Compounds.	†Oct. 5	†Oct. 7	820
44 HARVEY, L. P., Refrigeration	Feb. 3	†Nov. 21	273
45. HILL, H. D., Shafting and Flexible Shaft Couplings; Wheels and Axles; Resilient Tires and Wheels; Lubrication; Bearings and Guides; Motors; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding; Land Vehicles (part).	Jan. 30	Feb. 16	701
46. BLEECKER, V. E., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers; Heating Systems; Coating Apparatus.	†Dec. 12	Feb. 17	355
47. KANOF, WM. J., Clutches and Power Stops; Brakes; Boring and Drilling; Land Vehicles (part)	†Dec. 24	Jan. 9	981
48. ROEPKE, O. B., Electricity, General Applications; Igniters	†Dec. 12	†Dec. 17	757
49. SHEFFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Purification.	Jan. 13	Jan. 29	575
50. LEVIN, SAMUEL, Resins; Rubber; Carbohydrates and Derivatives	Jan. 8	Jan. 12	1,215
51. BACKUS, C. D., Radiant Energy	†Dec. 31	†Dec. 22	1,110
52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Pipes and Tubular Conduits	Feb. 13	Jan. 18	648
53. PECK, M. K. Label Pasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas and Canes; Curtains, Shades and Screens; Cutlery.	Feb. 24	Mar. 9	189
54. STRACHAN, O. W., Electric Lamp and Discharge Devices (part)	†Nov. 16	†Nov. 21	546
55. BOWEN, S. T., Artificial Body Members; Dentistry; Surgery	†Oct. 10	†Oct. 12	805
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Laminated Fabrics (part); Paper Making	Jan. 14	Jan. 18	724
57. NICOLSON, G. D., Toys; Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	†Sept. 14	†Oct. 24	469
58. DOWELL, E. F. Abrading; Bottles and Jars; Stone Working	Feb. 15	Jan. 25	529
59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds; Compositions (part).	†Sept. 28	†Oct. 2	1,192
60. GLASS, R. L., Electricity, Heating and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Marine Propulsion; Consumable Electrode Lamp and Discharge Devices.	†Nov. 23	†Nov. 26	499
61. YUNG KWAI, B., Winding and Reeling; Pushing and Pulling; Horology, Time-Controlling Apparatus; Railway Mail Delivery; Laminated Electrical Insulation, Belt, Hose, Tire and Ball Making; Boats and Buoys.	†Dec. 7	Jan. 14	482
62. PUGH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors	Feb. 20	Feb. 26	453
63. WINKELSTEIN, A. H., Preserving; Poisons; Fermentation; Foods and Beverages; Proteins; Oils and Fats.	†Nov. 19	†Nov. 16	1,038
64. NASH, P. M., Acetylene; Gas Mixers; Compositions (part); Distillation; Fuel	Mar. 1	Mar. 1	1,053
65. McDERMOTT, F. P., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave Transmission, Telephony, Repeaters and Relays.	†Nov. 21	†Dec. 2	732
Trade Marks RICHMOND, F. A.	June 4	June 15	965
Designs: KALUPY, H. H.	June 19	July 9	252

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

In re Freshman

No. 4,712. Decided April 5, 1943

[135 F.(2d) 222]

1. Appeal—Effect of General Affirmance Below.

"We do not think the statement of the Board that the references other than Litner 'have but a remote bearing on the subject matter in issue and discussion of same is not deemed necessary' is an express reversal of the grounds of rejection by the Examiner by the use of those references * * *. We are of opinion that the Board's general affirmance of the Examiner requires that we, in revising the decision of the Board, take into consideration the applicability of certain of said references when considered with Litner."

2. Patentability—Cabinet.

Certain claims to a knock-down cabinet to be installed under a kitchen sink *Held* unpatentable over the prior art.

Appeal from the Patent Office. Affirmed.

Lenroot, *J.*, concurring in the conclusion.

Garrett, *P. J.*, dissenting.

Mr. John H. Cassidy for Freshman.

Mr. W. W. Cochran (*Mr. R. F. Whitehead* of counsel) for the Commissioner of Patents.

Bland, *J.*:

Appellant has appealed here from a decision of the Board of Appeals of the United States Patent Office affirming that of the Primary Examiner, who rejected claims 1, 2, 4, 6, 9, 10, and 11 of appellant's application for a patent relating to a sink cabinet. Claim 8 was allowed.

Claims 1 and 6 seem to be illustrative of the subject-matter of all the claims on appeal. They read:

1. A knock-down cabinet structure adapted to be installed under a sink and drain board including a unitary front structure which can be tilted for installation back of a skirt on the sink in a vertical position, one or two detachable panels fitting and adapted to be secured to the front structure, and a detachable compartment having means to cooperate with means on the front structure for its support.

6. A knock-down cabinet structure adapted to be installed under a sink and drain board including a unitary front structure which can be tilted for installation back of a skirt on the sink in a vertical position and having an opening closed by a door, a detachable compartment open at its front to register with said opening in the front structure, and cooperating interlocking means secured to the compartment and front structure by which the compartment may be arranged after the front structure is in vertical position as aforesaid to support the compartment.

The references relied upon are: Purdie, 1,406,758, Feb. 14, 1922; Klute, 2,039,539, May 5, 1936; Litner, 2,050,617, Aug. 11, 1936; Macready et al., 2,051,874, Aug. 25, 1936.

Appellant's invention is that of a knock-down cabinet which, by tilting, is to be installed under a kitchen sink. It has what appellant styles a "unitary front," which in its knock-down condition is not connected with the side panels. The front contains openings or doors suitably placed so as to make available storage space in such compartments as drawers, bins, etc. Appellant's device cannot be inserted unless it is in a knock-down condition. The front panel, being separate from the side panels, is inserted underneath the skirt of the sink and then pressed in at the bottom until it stands in a vertical position. Side panels are then inserted, employing the same principle. Certain blocks are provided on the inside of the cabinet to receive and support the bins, drawers, and side members.

In this court, appellant urges that—

> The keystone of applicant's improvement by which this object is obtained is a separate or separable unitary front structure which can be tilted for installation back of a skirt on the sink in a vertical position.

The Examiner, in his statement, rejected all the appealed claims on Litner when considered with either Klute or Purdie and additionally upon those references in view of Macready et al. Claims 1, 9, 10, and 11 were also rejected as calling for an "incomplete combination."

The Board of Appeals discussed the Litner patent but made no application of the other references. In its original opinion, it stated:

> The main reference cited against the appealed claims is the patent to Litner which also shows a cabinet to be positioned beneath a sink. This patent shows the four openings in the front panel, corner members and side members. In addition it is provided with a bottom and a back. Instead of attaching the same to the wall of the room, legs are provided by which the cabinet may be clamped in position under the sink. This patented structure is probably made of sheet metal. While the patent shows a shallow door at the top, the space beneath is not provided with a bin structure as in appellant's application. This difference does not appear to be a matter of patentable moment. By locating a bin within the space available, it must be at the sacrifice of storage space within the cabinet. The provision of a bin of the type claimed appears to be a matter of choice. It must be conceded that the references do not show appellant's specific means for suspending the bin structure from the wall of the casing, but it is not seen that the details of such structure are such as to amount to invention. The other references cited show cabinet structures that have but a remote bearing on the subject matter in issue and discussion of same is not deemed necessary.
> The decision of the Examiner is affirmed.

Upon petition for reconsideration, appellant laid special emphasis upon the detachable feature of his structure and its adaptability for placing it under the sink by a tilting operation. The Board granted the petition for reconsideration but adhered to its former decision and in answer to appellant's petition stated:

> It is not seen that this petition presents any points not considered by us before rendering our former decision. Appellant is now stressing the fact that his cabinet is of the knock-down type. No mention is made of this feature in the Litner patent but the inturned flanges * * * are held together by fastenings which are apparently common stove bolts having hexagonal nuts. Therefore the component parts of the cabinet can readily be assembled or disassembled.
> It is noted also that in the Litner patent it is stated that cabinets of this type which extend to the floor are old. There appears to be no good reason why the Litner cabinet should not extend to the floor if so desired.
> The petition for reconsideration has been granted, but our former decision remains unchanged.

[1] Appellant here, in reasons of appeal and in argument (both oral and in brief), contends that the action of the Board as above set out amounts to a rejection of the claims upon the Litner patent alone, and he does not discuss the applicability of the other references (nor does the Solicitor for the Patent Office except for a brief mention of the Macready et al. patent). We do not think the

statement of the Board that the references other than Litner "have but a remote bearing on the subject matter in issue and discussion of same is not deemed necessary" is an express reversal of the grounds of rejection by the Examiner by the use of those references as is above set out. We are of opinion that the Board's general affirmance of the Examiner requires that we, in revising the decision of the Board, take into consideration the applicability of certain of said references when considered with Litner. We think it also proper to say that unless the view of the Solicitor for the Patent Office in this court is adopted, we would have some difficulty in agreeing with the holding of the Board in affirming a rejection of the claims on the basis of the Litner patent alone.

The Solicitor stated:

> To so put a panel, or like member, in place in building operations is so common that the court can take judicial notice of it. * * *

and he went on to point out that the Macready et al. patent shows that the concept of installing a panel under a skirt or rim by tilting is an old one. He was referring to appellant's "unitary front structure which can be tilted for installation back of a skirt on the sink in a vertical position." However, in view of our conclusion above set out as to the effect of the action of the Board and the language used in its decision, it is not necessary for us to take judicial notice of said subject-matter since it is shown in the art cited, and we do not mean to suggest any view on the question as to whether we would or would not be privileged to do so.

The patent to Litner is for a cabinet to be placed under a sink previously installed. Litner inserts his cabinet after it has been fully constructed, the height of the cabinet being shorter than the distance from the floor to the bottom of the sink skirt. After the cabinet is in position underneath the skirt, it is raised upward by the use of brackets on metal posts. When the correct height is reached, set screws are tightened to hold the cabinet in place underneath the apron of the sink. Litner provides conveniently arranged drawers and containers within the cabinet structure opposite doors and openings in the front panel of the cabinet.

The Macready et al. patent relates to a refrigerating apparatus, which is enclosed in a "cabinet having readily removable panels for access into the interior." The panels may be inserted by placing the upper ends thereof under the rim of the cabinet top at an angle and then pushing in at the bottom, much in the same way as appellant installs his panels.

The Klute patent relates to "stove construction" and refers to the same as "stove cabinet construction." Klute places the panels together in such a manner that they are readily adjustable by avoiding rivets and employing bolts. The Examiner pointed out that this cabinet is made of panels separably joined together, the front wall of which has an opening closed by a door, and that a compartment is secured to the front wall and closed by the door.

The patent to Purdie shows a "portable kitchenette" which has compartments with open sides. These compartments are secured to the inner face of a front door by readily detachable means.

One of the grounds of rejection by the Examiner was upon the patents to Litner, Purdie, and Klute, in view of Macready et al. This rejection seems to be grounded upon the proposition that, in view of the showing of Macready et al. that it was old to insert a panel in a cabinet by tilting the panel, placing it under the rim of the cabinet top, and then making it stand in a vertical position by pressing in on the bottom, it would not be inventive to apply the same principle to the Litner device, as the Examiner thinks appellant has done. It is our view that the Examiner correctly applied the references and that, in the light of the state of the art as shown by the references, it was not inventive for appellant to make a knock-down cabinet, having features which were old in the art and being designed for installation underneath a kitchen sink by tilting in the manner described.

We are not impressed with the Board's answer, on reconsideration, to appellant's contention with reference to the "knock-down" character of his alleged invention. Litner's showing of a bolting together of the parts with hexagonal nuts does not seem to us to be any answer to appellant's contention that his structure is one which is designed primarily to be inserted under the skirt of the sink in a knock-down condition and which, in fact, cannot be inserted otherwise. Litner's structure, as the Board pointed out, could be easily disassembled, but this adaptability to disassembly does not, in our view, solve the problem of installation. Nevertheless, we think the effect of this knock-down character in appellant's disclosure has been sufficiently discussed hereinbefore. It is lacking in inventive concept in view of the art cited. Appellant has placed his main reliance upon the tilting feature of his front panel. The art shows the application of this principle to cabinets to be old, and we do not believe that applying it to the particular cabinet here involved, for the purpose described, required the exercise of inventive genius.

Appellant also stresses the "success, actual as well as theoretical," of his invention and suggests the lack of success flowing from the structures described in the cited references. Even if this contention were supported by a proper showing (and it is not), it is entirely possible that such success might flow directly from the application of the skill of a mechanic versed in the art or from other causes which we need not discuss here.

Having arrived at the conclusion above stated, we do not regard it as essential that we discuss the other grounds of rejection on the part of the Examiner.

[2] The decision of the Board of Appeals, affirming that of the Examiner in rejecting the appealed claims as not being inventive over the art of record, is affirmed.

Affirmed.

LENROOT, *J.*, concurs in the conclusion.

GARRETT, *P. J.*, dissents.

U. S. Court of Customs and Patent Appeals

IN RE COOPER ET AL.

No. 4,706. Decided March 1, 1943

[134 F.(2d) 630]

1. PATENTABILITY—PROPORTIONS.
   "It may be, as appellants argue, that the patentees of the Houdremont et al. references had not discovered the value of proportional quantities of the various alloy materials with reference to the quantity of carbon to be used to produce the results sought by appellants, or that that value may have been purposely left in broad language without stating any specific examples of making such alloys. Nevertheless, if the prior art shows a range, as appellants apparently admit it does in this case, which includes the range claimed in their application, in the absence of the production of a different product they are not entitled to a patent."
2. SAME—PATENTABLE SUBJECT MATTER.
   "The appellants have set out a formula for determination of the carbon content of steel corresponding to given quantities of the alloying elements. This, however, is not patentable per se as it does not fall within any of the statutory classes of invention as set out in section 4886 R. S. Patentability of the claims may not rest solely on the fact that the carbon contents specified therein are calculated from the formula."
3. SAME—STEEL.
   Claims to a high speed tool steel *Held* unpatentable over the prior art.

APPEAL from the Patent Office. Affirmed.

Messrs. Busser & Harding (*Mr. Frank S. Busser* of counsel) for Cooper et al.

Mr. W. W. Cochran (*Mr. R. F. Whitehead* of counsel) for the Commissioner of Patents.

JACKSON, *J.*:

This is an appeal from a decision of the Board of Appeals of the United States Patent Office affirming the rejection by the Primary Examiner of all of the claims, 1 to 4 inclusive, 8, 9, 11, 12, and 15, of an application for a patent for alleged new and useful improvement in "High Speed Tool Steel".

Claim 1 is illustrative of the subject matter involved and reads as follows:

> 1. A high speed tool steel containing more than 3% of each of the carbide-forming elements chromium, tungsten, molybdenum and vanadium, said carbide-forming elements being in such relative proportions that the percentage of none is as large as twice that of the percentage of any of the others, the total percentage of the four carbide-forming elements being less than 21%, the steel containing .65 to 1.65 carbon, the percentage of carbon being also between 2.5% and 3.1% of the total "tungsten equivalence" percentage of all said carbide-forming elements based on the values tungsten 1.0 tungsten, chromium .6 tungsten, molybdenum 1.7 tungsten, and vanadium 6.1 tungsten; the balance being a matrix substantially of iron.

The references cited are: Emmons, 2,084,329, June 22, 1937; Houdremont et al., 2,209,622, July 30, 1940; Houdremont et al., 2,209,623, July 30, 1940; Technische Mittellingen by Krupp, 5 Johrgang, Heft 8, Nov. 1937, Seite 232.

The application relates to the production of high speed alloy steels which are steels intended for the manufacture of high speed tools. Those steels contain carbide-forming elements of chromium, tungsten, molybdenum and vanadium with a proportion of carbon which is determined by the amount of the carbide-forming elements.

The Examiner rejected the claims on the grounds that they were indefinite and did not comply with the requirements of section 4888 R. S. The claims were also rejected by the Examiner as being unpatentable over the prior art.

The Board of Appeals did not agree with the decision of the Examiner holding the claims to be indefinite, but affirmed his rejection in view of the prior art.

There was no discussion of the prior art by the Primary Examiner, and from his viewpoint of the specification and claims we can see why he thought there was no necessity for such discussion. Neither was there any discussion of the prior art in the first decision of the Board of Appeals. In a second decision upon petition for reconsideration of its first decision the Board set out some calculations intended to show that the involved claims defined alloys falling within the upper range of the Houdremont et al. Patent No. 2,209,622.

The specification of the instant application is long, involved, and exceedingly difficult to understand, as are likewise the claims. We have not been assisted by either of the decisions below in striving to come to a clear understanding of the claimed invention. Neither has the brief for appellants been of much aid to us in that respect. The record taken as a whole is confusing.

The Emmons patent states that its principal object is to provide an article of manufacture such as a tool having a hard and brittle nitrided surface and a supporting body of great strength and hardness. The invention is directed to methods of producing the said article, and sets out several examples of the proportionate parts of the constituents entering into their manufacture. Among these examples we find the use of carbon in various quantities running from 0.50% to 1.29%, together with varying quantities of chromium, tungsten, molybdenum and vanadium.

The Houdremont et al. patent, No. 2,209,622, relates to high speed steels which contain from 1.0 to 1.6% carbon, from 1.0 to 6.0% chromium, from 1.0 to 6.0% molybdenum, from 2.0 to 6.0% vanadium, the remainder being substantially iron with the normal impurities.

The Houdremont et al. patent, No. 2,209,623, relates to steels intended for the manufacture of high speed machining tools made of steel alloys which contain from 0.6 to 1.0% carbon, from 1.0 to 6.0% chromium, from 1.0 to 6.0% molybdenum, from 1.0 to 3.0% vanadium, and tungsten in a quantity amounting to at least 50% of the molybdenum content and ranging from 1.0 to 4.0%, the remainder substantially of iron with normal impurities.

It is not necessary to discuss the fourth reference.

The Board in affirming the rejection on the prior art stated in its first decision as follows:

> However, the claims stand rejected on the art and we believe this is a proper ground of rejection. It seems to us that certain of the alloy constituents described as combined in the various references closely approximate the definitions in these claims and that being true, there can be no patentability in the discovery of a general formula if it covers a number of high speed tool steel compositions described in the prior art.
> We have noted that neither the applicants nor the Examiner discuss this matter in detail.

In its decision on the petition for reconsideration the Board pointed out wherein the Houdremont et al. patent, No. 2,209,622, disclosed in its upper range a steel within the terms of the rejected claims, and in this respect stated as follows:

> In accordance with appellants' formula, the carbon content for an alloy containing tungsten, molybdenum, vanadium and chromium in the amounts contained in the Houdremont alloy would be 1.25 and not 1.35 as set forth in the Houdremont example. However, Houdremont discloses the carbon may range from 1 to 1.6%. The patent discloses such an alloy as tungsten 3.5, chromium 3.5, molybdenum 3.5, vanadium 3.5 which in accordance with appellants' formula would give the tungsten equivalency of 32.85 and the carbon content for such in accord with the formula would be .82 to 1.01. If the alloy containing chromium, tungsten, molybdenum and vanadium were near the upper range disclosed by Houdremont, the carbon would range from 1.36 to 1.68 with chromium, molybdenum and vanadium at 6 and tungsten at 4%. We note that this is the preferred upper range. As the carbon content of the Houdremont alloy ranges from 1 to 1.6 it is clear that the claims cover practically the entire upper range of the Houdremont alloys, i. e., all alloys containing more than 3% tungsten, chromium and molybdenum coupled with the upper range of the vanadium, that is, vanadium contents between 4 and 6%. Considering, for instance, an alloy in which tungsten, chromium and molybdenum are 3.1 and vanadium 4%. The tungsten equivalency of such an alloy in accordance with appellant's formula would be 34.46 and the carbon content in accordance with the same formula would range from .86 to 1.04. Considering the same alloy as far as tungsten, chromium and molybdenum are considered with 6% vanadium, the carbon content in accordance with the formula would range from 1.17 to 1.41.

Appellants admit that one skilled in the art might, after examining the specification of the Houdremont et al. patent, No. 2,209,622, make a high speed tool steel that would come within the terms of their claims. They also admit that it might be possible, after reading the specification of the Emmons patent or the specification of the Houdremont et al. patent, No. 2,209,623, to make a steel that would come within the terms of their claims. They contend, however, that it is not a matter of certainty or even likelihood, but of speculation.

Appellants' entire contention herein is that, unless there is specifically set out in the prior art an alloy produced by their formula, such prior art may not be used in denying patentability to their claims. We cannot agree with such contention.

[1] It may be, as appellants argue, that the patentees of the Houdremont et al. references had not discovered the value of proportional quantities of the various alloy materials with reference to the quantity of carbon to be used to produce the results sought by appellants, or that that value may have been purposely left in broad language without stating any specific examples of making such alloys. Nevertheless, if the prior art shows a range, as appellants apparently admit it does in this case, which includes the range claimed in their application, in the absence of the production of a different product they are not entitled to a patent. *In re Gillett*, 30 C. C. P. A. (Patents) —, 133 F.(2d) 910; 56 U. S. P. Q. 530; *In re Becket et al.*, 24 C. C. P. A. (Patents) 992, 88 F.(2d) 684, 33 U. S. P. Q. 33, 483 O. G. 461; *In re Lothrop*, 19 C. C. P. A. (Patents) 1183, 58 F.(2d) 429, 13 U. S. P. Q. 224, 422 O. G. 609; *In re Pilling*, 18 C. C. P. A. (Patents) 703, 44 F.(2d) 878, 7 U. S. P. Q. 138, 403 O. G. 513.

[2] The appellants have set out a formula for determination of the carbon content of steel corresponding to given quantities of the alloying elements. This, however, is not patentable per se as it does not fall within any of the statutory classes of invention as set out in section 4886 R. S. Patentability of the claims may not rest solely on the fact that the carbon contents specified therein are calculated from the formula.

[3] We are of opinion that appellants' alloys do not differ in kind from the alloys of the Houdremont et al. patent, No. 2,209,622. The alloys claimed by appellants fall within the upper ranges of that patent, as is shown in the second decision of the Board, and in our opinion the claims were properly rejected for the reasons stated by the Board.

Claim 15 differs from the other claims for the reason that it does not specify limits for the carbon content in accordance with the formula. It is broader than the other claims since the ranges of carbon to be calculated in those claims are narrower than the range given in claim 15. It is therefore unpatentable for the same reasons as the other claims.

Appellants contend that the decision of the United States Court of Appeals for the District of Columbia in the case of *Becket* v. *Coe, Commissioner of Patents*, 69 App. D. C. 51, 98 F.(2d) 332, 38 U. S. P. Q. 26, 495 O. G. 215, supports their position. In that case the proportions specified by Becket were critical and the metal produced by him had properties different from those of the prior patents so that the metal of Becket was held by the court to constitute a new metal. No such condition exists here. The difference between appellants' alloys and those of the prior art is of degree only and not of kind.

For the reasons stated herein the decision of the Board of Appeals is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

JACOBS ET AL. *v.* BUXTON

No. 4,713. Decided April 5, 1943

[135 F.(2d) 237]

INTERFERENCE—PRIORITY.

"Since appellants apparently did not know until after the patent to appellee issued that it was necessary to use non-directional steel in order to carry out the process defined by the counts, they clearly had no prior conception of the invention herein. Therefore they are not entitled to an award of priority."

APPEAL from the Patent Office. Affirmed.

Mr. Frederick Schafer and *Mr. A. J. Greene* for Jacobs et al.

Messrs. Bruninga & Sutherland and *Mr. John H. Sutherland* for Buxton.

JACKSON, *J.*:

This is an appeal in an interference proceeding from a decision of the Board of Interference Examiners awarding priority of the subject matter of all of the counts to appellee. The interference arises between an application of appellants, Serial No. 329,048, filed April 11, 1940, and assigned to Remington Arms Company, Inc., and a patent of appellee, No. 2,193,245, dated March 12, 1940, on an application filed September 16, 1936, assigned to Western Cartridge Company. The application of appellants reads substantially the same as the specification of the patent, and the only claims in that application are the four claims of the patent. The claims constitute the counts in this interference.

While the appeal was taken from the decision of the Board of Interference Examiners with respect to all four counts, appellants in this court have withdrawn the reasons of appeal with respect to counts 1 and 2. Therefore the appeal as to counts 1 and 2 will be dismissed. The remaining two counts, 3 and 4, read as follows:

> 3. In the art of making ammunition cases, the process comprising, providing a disc of steel whose physical properties in all directions are substantially uniform, cold drawing the disc to cup shape without heat treating, and thereafter annealing the cup under conditions such as to relieve the strains therein.
> 4. In the art of making ammunition cases, the process comprising, providing a disc of steel whose physical properties in all directions are substantially uniform, cold drawing the disc to cup shape, and otherwise deforming the cup all without heat treating; and thereafter annealing the cup to an extent sufficient to relieve the strains therein.

The subject matter defined by the involved counts is sufficiently described therein.

Preliminary statements which are identical in all respects were filed by each of the appellants. They allege the first written description of the invention, its disclosure to others, and reduction to practice, on or about July 11, 1931.

Appellee in his preliminary statement alleged the disclosure of the invention to others on or about May 1, 1935; the first written description of the invention on October 29, 1935; reduction to practice of the invention on or about November 1, 1935; the first drawing showing the product in various stages of manufacture December 6, 1935; and the exercise of reasonable diligence in adapting and perfecting his invention from on or about May 1, 1935.

Appellants not having filed their application until after the issuance of the patent to appellee have the burden of proving priority of invention of the subject matter defined in the counts beyond a reasonable doubt. Appellants took testimony, while appellee relied upon his filing date, September 16, 1936, for conception and constructive reduction to practice.

It appears from the record that the appellants were endeavoring to substitute steel for the nonferrous metal usually employed in the manufacturing of ammunition cases and parts thereof. They carried on experiments to that end during the years 1931 to 1936, in the plant of the Peters Cartridge Company, which subsequently became a subsidiary of Remington Arms Company, Inc. In those experiments they produced from steel .22 caliber rimfire cartridge shells and the metal heads and battery cups for shotgun shells.

Considerable testimony was taken, and many documents bearing upon the results of their experiments were introduced in evidence. Likewise certain shotgun shells and exploded .22 caliber rimfire cartridge shells are exhibits. The documentary evidence shows that the cartridge and shotgun shells made in the experiments were for the most part defective when shot from firearms by reason of the splitting of shells, hang fire, misfire, and difficulty in extracting the exploded shells from the weapons. Appellants were further faced with the problem of producing cartridges and shotgun shell heads which were not scalloped after those articles were cold drawn from a disk of steel. Through various experiments they sought to master those difficulties. The scalloped condition was deemed undesirable apparently for the reason that it necessitated the grinding down of the scallops from the edge of the products.

Appellants were not producers of steel. In their experiments they used steel which came from several sources, the most satisfactory of which was the Pittsburgh Cold Rolled Steel Company. After the year 1933 steel was no longer available from that company and thereafter appellants used in their experiments steel from the Thomas Steel Company. It appears that the steel from that company did not have the same properties for cold drawing that appellants found in the steel from the Pittsburgh Company. For quite some period of time they consulted with the Thomas Steel Company, seeking to find some treatment for steel which would cold draw satisfactorily to their purposes; in other words, which would not show scalloped edges in the product. After many unsatisfactory samples had been submitted by the Thomas Company, it seems that sometime in December 1937 that company was able to produce a steel which was suitable for the purposes of appellants, and a considerable quantity of such steel was ordered from that company.

In most of the experiments the product, after having been cold drawn, was annealed, but in many of them the annealing step was omitted.

The Board of Interference Examiners, after having carefully analyzed the evidence, held that appellants had no conception of the process which comprised in part the providing of a disk of steel "whose physical properties in all directions are substantially uniform" and therefore had no conception of the invention defined by the counts; that even if appellants were assumed to have had a conception of the invention there was no satisfactory proof of reduction to practice; and that delay in filing an application for an invention allegedly reduced to practice, while not conclusive, strongly suggested that the alleged reduction to practice was merely an abandoned and unsuccessful experiment. The Board did not apply the doctrine of *Mason* v. *Hepburn*, 13 App. D. C. 86, 84 O. G. 147, invoked by appellee, apparently for the reason that there

was not sufficient evidence of reduction to practice and therefore it was not necessary to consider that case.

Appellants contend here that they had a conception of the invention and that they reduced it to practice. In support of their contentions appellants state that the meaning of the expression contained in the counts "steel whose physical properties in all directions are substantially uniform" is met by steel which withstands deep drawing and deformation and does not scallop.

Steel which possesses the properties defined by the counts seems to be designated in the steel-making art as "non-directional steel".

It may be that the Pittsburgh Company's steel used by appellants was non-directional. If this were so, there is nothing in the record to show that either appellants or the Pittsburgh Steel Company knew that it was. The testimony of a witness appearing in rebuttal for appellee was that from 1924 to 1933 he was Vice-President and General Manager of the Pittsburgh Cold Rolled Steel Company; that he did not know

"whether the physical properties of the transversal axis varies from the physical properties of the longitudinal axis; all the elongation in strip steel being in one direction";

and that his company never represented to the trade that steel such as that supplied for appellants' experiments had non-directional properties. The appellants, as far as this record is concerned, certainly did not realize that they needed non-directional steel; they did not know, any more than did the Pittsburgh Cold Rolled Steel Company official, that the steel of that company might have been non-directional. If they were acquainted with those physical properties, they certainly would have informed the Thomas Steel Company that they desired to secure non-directional steel. This they did not do.

Since appellants apparently did not know until after the patent to appellee issued that it was necessary to use non-directional steel in order to carry out the process defined by the counts, they clearly had no prior conception of the invention herein. Therefore they are not entitled to an award of priority. *Rowe* v. *Holtz*, 19 C. C. P. A. (Patents) 970, 55 F.(2d) 468, 12 U. S. P. Q. 234, 419 O. G. 295; *Mergenthaler* v. *Scudder*, 11 App. D. C. 264, 81 O. G. 1417; *Electro Metallurgical Company et al.* v. *Krupp Nirosta Co., Inc.*, 33 F. Supp. 324, 45 U. S. P. Q. 541, affirmed 122 F.(2d) 314, 50 U. S. P. Q. 158, cert. den. 314 U. S. 699.

In view of our conclusion it is not necessary to consider any other ground set out in the decision of the Board for awarding priority of invention of the involved subject matter to appellee.

The appeal as to counts 1 and 2 is dismissed and the decision of the Board of Interference Examiners awarding priority of the subject matter defined by counts 3 and 4 to appellee is affirmed.

Affirmed.

TRADE-MARKS

OFFICIAL GAZETTE, AUGUST 10, 1943

[VOL. 553. No. 2]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser No. 458,020. THE PORCELAIN ENAMEL & MFG. CO. OF BALTIMORE, doing business as The Porcelain Enamel & Mfg. Co., Baltimore, Md. Filed Jan. 19, 1943.

PEMROCK

FOR COMPOSITE MATERIAL COMPRISING A MIXTURE IN DIVIDED FORM OF A CERAMIC BASE AND A LOW FUSING GLASS BONDING AGENT THEREFOR; A HOT PRESSED COMPOSITE INTEGRAL MATERIAL COMPRISING A CERAMIC BASE, THE PARTICLES OF WHICH ARE BONDED TOGETHER WITH A LOW FUSION POINT GLASS; SAID MATERIALS IN GENERAL BEING IN SHEET, BLOCK, SPECIAL SHAPES, AND BULK FORM.
Claims use since Nov. 13, 1942.

Ser. No. 460,446. THE FIRESTONE TIRE & RUBBER COMPANY, Akron, Ohio. Filed May 6, 1943.

Colpro

FOR RECLAIMED RUBBER.
Claims use since Apr. 10, 1943.

Ser. No. 460,560. WILMINGTON CHEMICAL CORPORATION, Wilmington, Del. Filed May 11, 1943.

NAFTEX

FOR VISCOUS LIQUID, OR SEMI-LIQUID CHEMICAL RAW MATERIAL OF UNSATURATED HYDROCARBON NATURE AND CONTAINING CARBON BLACK.
Claims use since Mar. 18, 1943.

Ser. No. 461,113. HERCULES POWDER COMPANY, Wilmington, Del. Filed June 3, 1943.

MELHI

FOR RESIN FOR USE AS A RAW MATERIAL IN PROTECTIVE COATINGS, SYNTHETIC RESINS, INKS, ADHESIVES, CORE OILS, AND RESINATES.
Claims use since Feb. 22, 1943.

Ser. No. 461,124. R. WOLFENDEN & SONS, Attleboro, Mass. Filed June 3, 1943.

WOLFENIZED

FOR FIBRES, SILVER, SLUBBING, AND ROVING.
Claims use since July 1, 1942.

CLASS 2

RECEPTACLES

Ser. No. 461,092. RICHARD G. EHRLICH, New York, N. Y. Filed June 2, 1943.

FORIDGE

FOR FOLDING BOXES OF PAPER AND/OR CARDBOARD.
Claims use since May 7, 1943.

Ser. No. 461,468. THE PETROLEUM IRON WORKS COMPANY, INC., Petroleum, Hubbard Township, Trumbull County, Ohio, and Sharon, Pa. Filed June 17, 1943.

P.I.W.

FOR SHEET METAL BARRELS, SHEET METAL DRUMS AND SHEET METAL PAILS.
Claims use since Jan. 1, 1917.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 461,118. NOVELTY KITS, LIMITED, New York, N. Y. Filed June 3, 1943.

Applicant disclaims the name Novelty Kits Ltd. apart from the mark.



FOR HANDBAGS, PURSES, KEY CASES, DUFFEL BAGS, AND KIT BAGS.

Claims use since May 1, 1943.

Ser. No. 461,432. COBLENTZ BAG COMPANY, INC., New York, N. Y. Filed June 16, 1943.

DUFFLER

FOR LADIES' HANDBAGS.

Claims use since Apr. 1, 1943.

Ser. No. 461,448. MURRAY SELTZER, New York, N. Y. Filed June 16, 1943.

SELCORD

FOR LADIES' CORD FABRIC HANDBAGS.

Claims use since June 24, 1942.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 457,614. F. RANIVILLE COMPANY, Grand Rapids, Mich. Filed Dec. 26, 1942.



The words "Belt Dressing" are disclaimed apart from the mark.

FOR BELT DRESSING.

Claims use since Sept. 15, 1942.

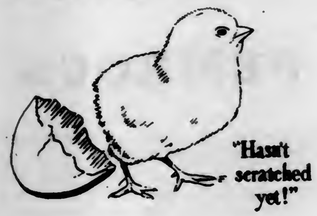
Ser. No. 458,315. KITCHEN ART FOODS INC., Chicago, Ill. Filed Feb. 3, 1943.



FOR CLEANING PREPARATIONS FOR UPHOLSTERY, RUGS, PAINTED WALLS, WINDOWS, PORCELAIN, ETC.

Claims use since Oct. 5, 1942.

Ser. No. 460,414. THE BON AMI COMPANY, New York, N. Y. Filed May 5, 1943.



FOR SCOURING SOAP IN CAKE AND POWDERED FORM.

Claims use since Dec. 11, 1901.

Ser. No. 461,004. PARFUMS CHARBERT, INC., New York, N. Y. Filed May 28, 1943.

"AS YOU WERE"

FOR GENTLEMEN'S TOILETRIES CONSISTING OF SHAVING CREAM, SHAVING SOAP, AND TOILET SOAP.

Claims use since Apr. 5, 1943.

Ser. No. 461,285. PINAUD, INCORPORATED, New York, N. Y. Filed June 10, 1943.

AMMUNITIA

FOR TOILET SOAP.

Claims use since May 26, 1943.

Ser. No. 461,379. THE MARLIN FIREARMS COMPANY, New Haven, Conn. Filed June 14, 1943. Under section 5b of the act of 1905 as amended in 1920.

Marlin

FOR LATHER SHAVING CREAM AND BRUSHLESS SHAVING CREAM.

Claims use since Feb. 25, 1938.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 454,703. STIX, BAER AND FULLER COMPANY, St. Louis, Mo. Filed Aug. 3, 1942.

Arline

FOR COSMETICS AND TOILET PREPARATIONS—NAMELY, DRY SKIN MIXTURE, DOUBLE WHIPPED CLEANSING CREAM, EMOLLIENT CREAM, LIQUEFYING CREAM, ESSENTIAL CREAM, APPLE BLOSSOM CLEANSING CREAM, HAND CREAM, HAND LOTION, ALL PURPOSE CREAM, SKIN FRESHENER, CREAM DEODORANT, SHAMPOO, PINE BATH OIL, WATER SOFTENER, EPSOM SALTS, BUBBLE BATH, ANTISEPTIC AND MOUTH WASH, DENTIFRICE AND MOUTH WASH, COLOGNE, LEG MAKE-UP, AND BATH SALT.

Claims use on epsom salts since July 1, 1912; on all purpose cream since Aug. 1, 1912; on dry skin mixture, emollient cream, essential cream, hand cream, cream deodorant, cleansing creams, liquefying cream, hand lotion, skin freshener, and shampoo since Aug. 15, 1927; on antiseptic and mouth wash, bath salts, water softener, dentifrice and mouth wash, and cologne since Jan. 1, 1932; on pine bath oil and bubble bath since Apr. 1, 1935; on apple blossom cleansing cream since Mar. 10, 1938; and on leg make-up since June 8, 1942.

Ser. No. 454,810. THE PURE OIL COMPANY, Chicago, Ill. Filed Aug. 8, 1942.

No claim is made to the word "Freeze" apart from the mark.

SAVO-FREEZE

FOR CHEMICAL COMPOSITION TO BE ADDED TO USED ANTI-FREEZE SOLUTIONS TO PROTECT COOLING SYSTEMS OF INTERNAL COMBUSTION ENGINES AGAINST ACID, RUST, CORROSION, AND SCALE FORMATION.

Claims use since Apr. 6, 1942.

Ser. No. 456,918. DOUBLE-MIX, INC., Kansas City, Mo. Filed Nov. 19, 1942.

Applicant is owner of Reg. No. 400,599 for the term "Double Mix." The word "Mix" is disclaimed apart from the mark.

DOUBLE-MIX

FOR COMPOSITION OF MATTER IN TABLET OR POWDERED FORM FOR ADMIXING WITH MILK AND BUTTER OR OLEOMARGARINE TO PRODUCE A SPREAD.

Claims use since Sept. 11, 1942.

Ser. No. 457,686. WILLIAM PUGSLEY, doing business as Pugsley's Remedies, Toronto, Ontario, Canada. Filed Dec. 31, 1942.



FOR OINTMENT FOR THE RELIEF OF CUTS, BURNS, BOILS, AND THE LIKE.

Claims use since 1907.

Sed. No. 459,051. NICHOLAS PROPRIETARY LIMITED, South Melbourne, Australia. Filed Mar. 12, 1943.

UNGVITA

FOR UNGUENT OR OINTMENT CONTAINING VITAMINS AND USEFUL IN THE TREATMENT OF WOUNDS, BURNS, ULCERS, BED SORES, AND SKIN CONDITIONS GENERALLY.

Claims use since January 1942.

Ser. No. 459,312. NATIONAL SYNTHETICS, New York, N. Y. Filed Mar. 24, 1943.

Kalmojel

FOR MEDICINAL PREPARATION USED AS AN ANTACID FOR TREATMENT OF CONDITIONS OF HYPERACIDITY.

Claims use since November 1942.

Ser. No. 460,054. INDIUM CORPORATION OF AMERICA, Utica, N. Y. Filed Apr. 21, 1943.



FOR CHEMICALS AND SOLUTIONS USED IN ELECTROPLATING.

Claims use since Mar. 5, 1943.

Ser. No. 460,278. WARWICK CHEMICAL COMPANY, West Warwick, R. I. Filed Apr. 29, 1943.

WAWACO

FOR AMORPHOUS AND CRYSTALLINE HYDROCARBON WAXES AND DERIVATIVES THEREOF FOR USE GENERALLY IN THE INDUSTRIAL AND CHEMICAL ARTS.
Claims use since Apr. 15, 1943.

Ser. No. 460,349. PRACK LABORATORIES, INC., New York, N. Y. Filed May 1, 1943.
Applicant disclaims the notations "Kreme" and "Skin Protector" apart from the mark.



FOR PREPARATION TO BE APPLIED TO THE SKIN AND FINGERNAILS AS A PROTECTIVE COATING.
Claims use since Jan. 22, 1943; and since June 15, 1933, as to the notation "Practi-Kreme."

Ser. No. 460,389. PINAUD, INCORPORATED, New York, N. Y. Filed May 3, 1943.

LEGTONE

FOR LOTION USED ON THE LEGS TO SIMULATE STOCKINGS.
Claims use since Mar. 25, 1943.

Ser. No. 460,409. JULIUS BLACKMAN CORP., doing business as Supreme Pharmaceutical Company, New York, N. Y. Filed May 4, 1943.

Day-Plex

One's Enough

The words "One's Enough" are disclaimed apart from the mark.
FOR VITAMINS.
Claims use since Dec. 19, 1942.

Ser. No. 460,557. SCHERING CORPORATION, Bloomfield, N. J. Filed May 11, 1943.

TRIOPAX

FOR PREPARATION FOR INTERNAL USE FOR THE PURPOSE OF FACILITATING THE TAKING OF X-RAY PICTURES OF INTERNAL ORGANS.
Claims use since Mar. 31, 1943.

Ser. No. 460,816. T-LAX PRODUCTS COMPANY, Birmingham, Ala. Filed May 21, 1943.

KO RAKE

FOR MEDICINAL PREPARATION AS AN AID FOR THE RELIEF OF HEAD COLDS AND RESULTING THROAT IRRITATIONS.
Claims use since Feb. 1, 1940.

Ser. No. 460,855. U. S. A. BRANDS, INC., New York, N. Y. Filed May 22, 1943.

CAL-D-PAN

FOR MEDICINAL COMPOUNDS CONSISTING OF VARIOUS VITAMINS.
Claims use since June 13, 1942.

Ser. No. 460,939. MURRAY L. SCHUSTER, doing business as United Sanitary Chemicals Company, Baltimore, Md. Filed May 26, 1943.

BUGITE

FOR BED BUG SPRAY.
Claims use since June 1940.

Ser. No. 460,942. MURRAY L. SCHUSTER, doing business as United Sanitary Chemicals Company, Baltimore, Md. Filed May 26, 1943.

KOLTEX

FOR DISINFECTANT.
Claims use since June 1940.

Ser. No. 460,943. MURRAY L. SCHUSTER, doing business as United Sanitary Chemicals Company, Baltimore, Md. Filed May 26, 1943.

KONSECTO

FOR INSECTICIDE.
Claims use since June 1940.

Ser. No. 460,945. MURRAY L. SCHUSTER, doing business as United Sanitary Chemicals Company, Baltimore, Md. Filed May 26, 1943.

PACPINE

FOR DISINFECTANT, DEODORANT.
Claims use since June 1940.

Ser. No. 460,958. INTERNATIONAL LABORATORIES LIMITED, London, England. Filed May 27, 1943.

NEODEX

FOR MEDICATED PREPARATIONS FOR USE IN THE TREATMENT OF ASTHMA.
Claims use since May 1939.

Ser. No. 460,961. KOCH BUTCHERS' SUPPLY COMPANY, North Kansas City, Mo. Filed May 27, 1943.

SUICIDE



FOR INSECTICIDES.
Claims use since May 12, 1943.

Ser. No. 460,989. ENDO PRODUCTS INC., New York, N. Y. Filed May 28, 1943.

STRONTATE

FOR PREPARATION USED IN GENITAL URINARY DISTURBANCES.
Claims use since Feb. 1, 1933.

Ser. No. 460,990. FLORIDIN COMPANY, Warren Pa. Filed May 28, 1943.

DILUEX

FOR DILUENT OR CARRIER FOR AN INSECTICIDAL AGENT.
Claims use since May 14, 1943.

Ser. No. 461,002. ELIODORA MUNIER, Brooklyn, N. Y. Filed May 28, 1943.
No claim is made to the name "Munier" apart from the mark.



FOR TOILET PREPARATIONS—NAMELY, PREPARATIONS FOR THE CARE AND TREATMENT OF HAIR, SCALP, EYELASHES AND EYEBROWS.
Claims use since May 13, 1943.

Ser. No. 461,067. FREDERICK STEARNS & COMPANY, Detroit, Mich. Filed May 31, 1943.

GERAMINS

FOR VITAMIN PREPARATION.
Claims use since May 22, 1943.

Ser. No. 461,286. PINAUD, INCORPORATED, New York, N. Y. Filed June 10, 1943.

AMMUNITIA

FOR PERFUME.
Claims use since Apr. 9, 1943.

Ser. No. 461,401. WISCONSIN PHARMACAL COMPANY, Milwaukee, Wis. Filed June 14, 1943.

SKRI

FOR RAT POISON.
Claims use since Aug. 14, 1929.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 460,844. J. W. MORTELL COMPANY, Kankakee, Ill. Filed May 22, 1943.

Mortell

FOR WEATHERPROOF COATINGS AND COMPOUNDS IN THE FORM OF PLASTIC TAPES.
Claims use since Aug. 27, 1929.

Ser. No. 460,909. THE RUBEROID CO., Boundbrook, N. J., and New York, N. Y. Filed May 25, 1943.

BATTLE AXE

FOR ASPHALT ROLL FELT ROOFING.
Claims use since January 1923.

Ser. No. 460,949. CHESTER B. CAMP, Indianapolis, Ind. Filed May 27, 1943.

HEALTHRAY

FOR TRANSLUCENT, IMPERFORATE, CELLULOSE ACETATE OR LIKE COMPARATIVELY NON-INFLAMMABLE SCREENS FOR LIGHT PASSAGE AND WEATHER STOPPAGE OF BUILDING OPENINGS.
Claims use since Aug. 1, 1942.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 447,677. UNITED SHOE MACHINERY CORPORATION, Boston, Mass. Filed Oct. 10, 1941.

No claim is made to the word "Tempered" apart from the mark.

VITA-TEMPERED

FOR METAL SHANKS FOR BOOTS AND SHOES.
Claims use since June 1, 1941.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 459,789. INLAND STEEL COMPANY, Chicago, Ill. Filed Apr. 10, 1943.

ELTRON

FOR ELECTROLYTIC TIN PLATE.
Claims use since Mar. 25, 1943.

Ser. No. 461,338. CHASE BRASS & COPPER CO. INCORPORATED, Waterbury, Conn. Filed June 12, 1943.

TELNIC

FOR RODS OF COPPER BASE ALLOYS.
Claims use since May 13, 1943.

CLASS 16

PAINTS AND PAINTERS' MATERIALS

Ser. No. 458,851. SOUTHPORT PAINT COMPANY, INC., Savannah, Ga. Filed Mar. 1, 1943.

SCO-CO

FOR DRY PAINTS, PASTE PAINTS, READY MIXED PAINTS, PRUNING PAINT, PAINT ENAMEL, VARNISH, KALSOMINE, STAINS, STUCCO PRIMING AND FINISHING PAINTS, AND METALLIC PAINT.
Claims use since January 1909.

Ser. No. 461,595. SAPOLIN CO. INC., New York, N. Y. Filed June 22, 1943.

Tri-O-Lux

FOR OIL BASE PAINTS FOR INTERIOR USE.
Claims use since June 11, 1943.

CLASS 17

TOBACCO PRODUCTS

Ser. No. 461,157. RICARDO VIDAL, Habana, Cuba. Filed June 4, 1943.

LA PREDILECTA

FOR CIGARS.
Claims use since August 1935.

CLASS 19

VEHICLES, NOT INCLUDING ENGINES

Ser. No. 454,494. AMERICAN STEEL FOUNDRIES, Chicago, Ill. Filed July 25, 1942.

The word "Brake" is disclaimed apart from the mark. Applicant is owner of Reg. Nos. 137,535 (renewed), 217,699, and 296,593.

DUO SIMPLEX BRAKE ASF

FOR RAILWAY EQUIPMENT—NAMELY, RAILWAY BRAKE RIGGING, CLASP BRAKES, AND THE PARTS THEREOF.
Claims use since Jan. 5, 1942.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 460,228. ALLIED CONTROL COMPANY, INC., New York, N. Y. Filed Apr. 28, 1943.



FOR ELECTRICAL RELAYS.
Claims use since Apr. 23, 1943.

Ser. No. 460,231. AMERICAN PHENOLIC CORPORATION, Chicago, Ill. Filed Apr. 28, 1943.

COPOLENE

FOR ELECTRICAL CABLE.
Claims use since September 1941.

Ser. No. 460,675. KELSO NORMAN, San Francisco, Calif. Filed May 17, 1943.

KELNOR

FOR ELECTRIC SOLDERING IRONS.
Claims use since Apr. 28, 1943.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 461,254. MELVILLE KEIM, Chicago, Ill. Filed June 9, 1943.

No claim is made to the word "Balanced" apart from the mark.

BALANCED M K

FOR GOLF BAGS.
Claims use since May 17, 1943.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 459,973. A. FINKL & SONS COMPANY, Chicago, Ill. Filed Apr. 16, 1943.

Applicant disclaims the word "Die" apart from the mark.

MO-LYB-DIE

FOR FINISHED DIE BLOCKS AND SOW BLOCKS MADE OF STEEL ALLOY.
Claims use since Dec. 16, 1921.

Ser. No. 460,806. RESEARCH TOOL COMPANY, Saginaw, Mich. Filed May 21, 1943.

The word "Form" and the representation of the tool or tools are disclaimed apart from the association shown.

micro form

FOR BURRS, NEW AND REGROUND ROTARY FILES AND CUTTERS SUCH AS ARE USED IN METAL WORKING.
Claims use since Feb. 1, 1943.

Ser. No. 460,950. CARDOX CORPORATION, Chicago, Ill. Filed May 27, 1943.

CARDOX

FOR MOTOR-DRIVEN OR TRACTOR-DRAWN FIRE EXTINGUISHING TRUCKS AND MOBILE FIRE EXTINGUISHING UNITS.
Claims use since Mar. 24, 1942, for motor-driven or tractor-drawn fire extinguishing trucks; and since Sept. 30, 1942, for mobile fire extinguishing units.

Ser. No. 461,412. LUPOMATIC TUMBLING MACHINE CO., INC., New York, N. Y. Filed June 15, 1943.

DEBURRMASTER

FOR TUMBLING BARRELS, MACHINES, AND APPARATUS FOR CUTTING DOWN, ABRADING, DEBURRING, BURNISHING AND POLISHING ARTICLES OF METAL, WOOD, NATURAL OR ARTIFICIAL STONE, AND OF PLASTIC MATERIAL, AND PARTS OF SAID MACHINES, BARRELS, AND APPARATUS.
Claims use since November 1942.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 454,532. CLAY-ADAMS CO., INC., New York, N. Y. Filed July 27, 1942.

ADAMS

FOR MICROSCOPES, MICROSCOPE SLIDES, MICROSCOPE SLIDE CONTAINERS, SUBSTAGE LAMPS FOR MICROSCOPES, MAGNIFYING GLASSES, MUSEUM JARS, LABORATORY TONGS, LABORATORY TALLYING COUNTERS, BALANCES, AND, AS DESIGNED FOR SCIENTIFIC USES, FOR RUBBER TUBING, SCREW COMPRESSORS FOR RUBBER TUBING, CENTRIFUGES—HAND AND ELECTRIC, AND TUNING FORKS.
Claims use since Feb. 3, 1939.

Ser. No. 458,891. BAUSCH & LOMB OPTICAL COMPANY, Rochester, N. Y. Filed Mar. 4, 1943.

The trade-mark consists of an equilateral, solid color, triangular figure with truncated corners and oriented with a base uppermost, said figure being surrounded by a narrow contrasting border having substantially the same outline as the figure and having widened portions opposite the truncated corners of the figure.



FOR TELESCOPES, BINOCULARS, APPARATUS

FOR PROJECTING IMAGES OF TRANSPARENT AND/OR OPAQUE OBJECTS, PROJECTION SCREENS, MICROSCOPES AND ACCESSORIES, TOOLMAKER'S MICROSCOPES, MICROTOMES, METALLOGRAPHIC APPARATUS, SPECTROPHOTOMETERS, VIEWING BOXES FOR SPECTROGRAMS, PHOTOMICROGRAPHIC APPARATUS, CAMERAS, SPECTROSCOPES, SPECTROGRAPHS AND ACCESSORIES, SACCHARIMETERS, POLARISCOPES, MONOCHROMATORS, PHOTOMETERS, APPARATUS FOR MEASURING OPACITY OF PAPER, COLORIMETERS, LENS TESTING AND MEASURING APPARATUS, APPARATUS FOR MEASURING THICKNESS OF GLASS ARTICLES, ANALYTICAL CENTRIFUGES, APPARATUS FOR COUNTING DUST PARTICLES IN ATMOSPHERE, HEMOGLOBINOMETERS, CONTOUR MEASURING PROJECTORS, REFRACTOMETERS, APPARATUS FOR TESTING AND EXAMINING EYES (OPHTHALMOSCOPES, PERIMETERS, KERATOMETERS, TANGENT SCREENS, SLIT LAMPS, INTERPUPILLARY DISTANCE GAUGES, DEVICES FOR TESTING VISUAL ACUITY, LIGHT SENSE TESTERS, AND OPHTHALMIC INSTRUMENT STANDS).

Claims use since 1933 on telescopes; since 1934 on apparatus for projecting images of transparent and/or opaque objects; and since 1936 on the remainder of the goods.

Ser. No. 459,361. CRISE ELECTRIC MANUFACTURING COMPANY, Columbus, Ohio. Filed Mar. 26, 1943.

SURF-A-STAT

FOR THERMOSTATICALLY CONTROLLED SWITCH APPARATUS FOR REGULATING THE OPERATION OF HEATERS AND FURNACES.

Claims use since April 1936.

Ser. No. 460,466. AMERICAN ALLSAFE COMPANY, INC., Buffalo, N. Y. Filed May 7, 1943.

MONOGoggle

No claim is made to the word "Goggle" apart from the mark.

FOR GOGGLES.

Claims use since Feb. 5, 1943.

Ser. No. 460,748. SIMPLICITY PATTERN CO. INC., New York, N. Y. Filed May 19, 1943.

Modern Miss

FOR PAPER GARMENT PATTERNS.

Claims use since May 1, 1943.

Ser. No. 460,892. EDROY PRODUCTS COMPANY, New York, N. Y. Filed May 25, 1943.

MAGNI-FOCUSER

AN EDROY PRODUCT

The words "Focuser," "An," and "Product" are disclaimed apart from the mark.

FOR BINOCULAR LOOP.

Claims use since Apr. 1, 1941.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 459,937. LATHIN WATCH COMPANY, New York, N. Y. Filed Apr. 16, 1943.

LATHIN

FOR WATCHES AND WATCH MOVEMENTS.

Claims use since Mar. 1, 1943.

Ser. No. 460,262. HOROWITZ & SON, INC., New York, N. Y. Filed Apr. 29, 1943.

RESISTAL

FOR WATCHES.

Claims use since February 1934.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 458,036. HORNSTEIN SALES, Chicago, Ill. Filed Jan. 20, 1943.

The words "Quality Products" are disclaimed apart from the mark. The portrait is fanciful.



FOR PICTURE FRAMES.

Claims use since Dec. 18, 1942.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 453,750. ENDLESS BELT CORPORATION, Pisgah Forest, N. C. Filed June 19, 1942.

The representation of the belt and the words "Endless Woven" are claimed only in combination with the representation of the globe to form the composite mark as shown.



FOR LINEN, COTTON, AND OTHER FABRIC ENDLESS BELTS SUITABLE FOR FORMING, ELEVATING AND CONVEYING PURPOSES.

Claims use since Nov. 27, 1918.

CLASS 36

MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 461,404. ZENITH RADIO CORPORATION, Chicago, Ill. Filed June 14, 1943.

ZENITH

FOR TALKING MACHINES AND TALKING MACHINE RECORDS.

Claims use since June 1922 on talking machines; and since May 6, 1938, on talking machine records.

CLASS 37

PAPER AND STATIONERY

Ser. No. 461,108. EASTMAN KODAK COMPANY, Jersey City, N. J., and Rochester, N. Y. Filed June 3, 1943.

KODACOLOR

FOR FOLDERS OR EASEL FOLDERS FOR PHOTOGRAPHIC PRINTS.

Claims use since May 27, 1942.

Ser. No. 461,150. PEPPERELL MANUFACTURING COMPANY, Boston, Mass. Filed June 4, 1943.

Q-A

FOR WRITING PAPER.

Claims use since Mar. 2, 1943.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 432,253. HOLOPHANE COMPANY, INC., New York, N. Y. Filed May 23, 1940.

ARCHITEXTS

FOR PERIODICAL PUBLICATION RELATED SOLELY TO LIGHTING.

Claims use since May 20, 1940.

Ser. No. 460,604. CARL H. MOTE, Indianapolis, Ind. Filed May 13, 1943.

The name "America" is hereby disclaimed apart from the mark.

America Preferred

FOR MONTHLY PUBLICATION COMPRISING A JOURNAL OF CURRENT OPINION AND DISCUSSIONS OF WORLD AFFAIRS.

Claims use since Apr. 1, 1943.

Ser. No. 460,956. CHARLES E. GILLESPIE, Seymour, Ind. Filed May 27, 1943.

TODAY'S PICTURE

FOR NEWSPAPER COLUMN.

Claims use since May 10, 1943.

Ser. No. 461,472. TRADITION HOUSE, Chicago, Ill. Filed June 17, 1943.

TRADITION

FOR GREETING CARDS.

Claims use since Jan. 1, 1943.

CLASS 39

CLOTHING

Ser. No. 455,705. CHARLES S. GELLES, doing business as Charles S. Gelles & Son, Boston, Mass. Filed Sept. 23, 1942.

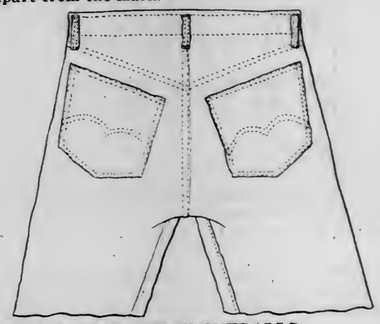
Shangri-la

FOR MEN'S AND BOYS' NECKTIES AND MUFFLERS, AND NECKTIE AND HANDKERCHIEF SETS.

Claims use since July 1, 1941.

Ser. No. 455,769. LEVI STRAUSS & COMPANY, San Francisco, Calif. Filed Sept. 25, 1942.

The trade-mark consists of double arcuate designs of orange color displayed on the hip pockets of the overalls. No claim is made to the representation of a pair of overalls apart from the mark.



FOR WAISTBAND TYPE OVERALLS.

Claims use since 1873.

Ser. No. 456,146. WILLIAM HOLLINS & COMPANY, LIMITED, Nottingham, England. Filed Oct. 12, 1942. Under the act of February 20, 1905, as amended June 10, 1938.

Clydella

FOR WOMEN'S AND CHILDREN'S DRESSES AND FROCKS, INCLUDING SPORT DRESSES AND SPORT FROCKS; HOSIERY; WOMEN'S AND CHILDREN'S SLACKS; SWIMMING TRUNKS AND SUITS; PAJAMAS FOR MEN, WOMEN, AND CHILDREN; WOMEN'S AND CHILDREN'S BLOUSES; OUTER SHIRTS FOR MEN, WOMEN, AND CHILDREN.

Claims use since Apr. 17, 1940.

Ser. No. 456,147. WILLIAM HOLLINS & COMPANY, LIMITED, Nottingham, England. Filed Oct. 12, 1942. Under the act of February 20, 1905, as amended June 10, 1938.

Viyella

FOR WOMEN'S AND CHILDREN'S DRESSES AND FROCKS, INCLUDING SPORT DRESSES AND SPORT FROCKS; HOSIERY; WOMEN'S AND CHILDREN'S SLACKS; SWIMMING TRUNKS AND SUITS; PAJAMAS FOR MEN, WOMEN, AND CHILDREN; WOMEN'S AND CHILDREN'S BLOUSES; OUTER SHIRTS FOR MEN, WOMEN, AND CHILDREN.
Claims use since Apr. 17, 1940.

Ser. No. 460,127. SIEGEL BROTHERS KIKI MAID KOATS, INC., New York, N. Y. Filed Apr. 23, 1943.

LUSTRA-SHAG

The word "Shag" is disclaimed apart from the mark.
FOR LADIES' AND MISSES' COATS AND SUITS.
Claims use since May 15, 1936.

Ser. No. 460,631. SIEGEL BROTHERS KIKI MAID KOATS, INC., New York, N. Y. Filed May 14, 1943.

LUSTRASHEEN

FOR LADIES' AND MISSES' COATS AND SUITS.
Claims use since May 15, 1936.

Ser. No. 460,725. AMERICAN WOOLEN COMPANY, Boston, Mass., and New York, N. Y. Filed May 19, 1943. Under the act of February 20, 1905, as amended June 10, 1938.
Applicant disclaims the word "Bloom" except as shown.

DUV-BLOOM

FOR WOMEN'S COATS.
Claims use since November 1936.

Ser. No. 461,057. NATHAN SCHECHTER, doing business as Childcraft Coat Co., New York, N. Y. Filed May 31, 1943.



FOR INFANTS' AND CHILDREN'S COATS, HATS, COAT AND LEGGING COMBINATIONS, HOODS, AND SNOW SUITS.
Claims use since Jan. 5, 1943.

Ser. No. 461,140. INTERWOVEN STOCKING COMPANY, New Brunswick, N. J. Filed June 4, 1943.

Ba zoo kas

FOR HOSIERY.
Claims use since May 19, 1943.

Ser. No. 461,221. KAY & ZUCKERMAN, New York, N. Y. Filed June 8, 1943.

Velva-Glamour

FOR LADIES' AND MISSES' COATS, SUITS, AND COAT AND SUIT ENSEMBLES.
Claims use since Apr. 14, 1942.

Ser. No. 461,281. INTERWOVEN STOCKING COMPANY, New Brunswick, N. J. Filed June 10, 1943.

DEVIL DOGS

FOR HOSIERY.
Claims use since Aug. 11, 1942.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS

Ser. No. 455,552. ARTCRAFT SPORTWEAR COMPANY, New York, N. Y. Filed Sept. 16, 1942.



FOR TABLE CLOTHS, NAPKINS, TABLE SCARVES, VEILS, WINDOW CURTAINS, QUILTS, BED SPREADS, AND RIBBON AND LACE SOLD BY THE YARD, PIECE, OR BOLT.
Claims use since May 1, 1941.

CLASS 43

THREAD AND YARN

Ser. No. 460,843. FRED B. LEMMOND, Greensboro, N. C. Filed May 22, 1943.

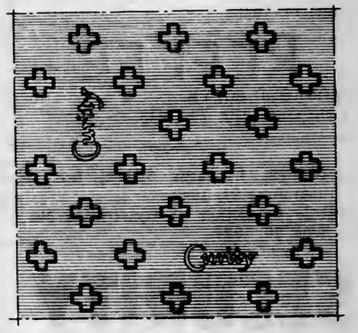


FOR YARN FOR USE IN THE MANUFACTURE OF KNITTED AND WOVEN FABRICS.
Claims use since Apr. 22, 1943.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 460,960. THE KENDALL COMPANY, Walpole, Mass. Filed May 27, 1943.
The drawing is lined for blue.



FOR ABSORBENT GAUZE, ABSORBENT COTTON, ABSORBENT WASTE COTTON, STERILIZED GAUZE, BANDAGES, BANDAGE ROLLS, AND ADHESIVE PLASTERS.
Claims use since Sept. 15, 1942.

Ser. No. 461,256. MASTER SURGICAL INSTRUMENT CORP., Irvington, N. J. Filed June 9, 1943.
The representation of the Western Hemisphere and the representation of the surgical scissors are disclaimed apart from the mark.



FOR HAEMOSTATIC FORCEPS, TISSUE FORCEPS, SKIN CLIPS, OPERATING SCISSORS, DISSECTING SCISSORS, AND HOLDERS FOR SURGICAL NEEDLES.
Claims use since Mar. 25, 1943.

CLASS 45

BEVERAGES, NONALCOHOLIC

Ser. No. 459,724. THE CASA PRIMA CITRUS COMPANY, San Francisco, Calif. Filed Apr. 9, 1943.



FOR FRUIT CONCENTRATE TO BE MIXED WITH PURE WATER, WHICH IS USED AS A BASE FOR MAKING MIXED DRINKS SUCH AS COCKTAILS AND OTHER ALCOHOLIC AND NONALCOHOLIC MIXTURES.
Claims use since Feb. 27, 1943.

Ser. No. 460,328. RAY B. KUENZ, St. Louis, Mo. Filed May 1, 1943.
The word "Drinks" is disclaimed apart from the mark.

RIO PRINCE OF DRINKS

FOR NON-ALCOHOLIC, NON-CEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SIRUPS AND EXTRACTS FOR MAKING THE SAME.
Claims use since Feb. 18, 1942.

Ser. No. 460,524. JOHN GRAF COMPANY, Milwaukee, Wis. Filed May 10, 1943.
Applicant disclaims the name "Graf's" apart from the mark. The picture is fanciful.



FOR ROOT BEER AND NON-ALCOHOLIC, NON-CEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS.
Claims use since Mar. 3, 1943; and since Sept. 6, 1940, for the words "Gran'pa Graf's."

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 458,604. JOHN H. WILKINS COMPANY, Washington, D. C. Filed Feb. 17, 1943.

Cere-o-Lay

FOR CEREAL BEVERAGE PREPARATION FOR USE AS A COFFEE SUBSTITUTE OR FOR MIXING WITH ROASTED COFFEE.
Claims use since Dec. 26, 1942.

Ser. No. 458,834. EELBECK MILLING COMPANY, Columbus, Ga. Filed Mar. 1, 1943.

Rosecliff

FOR TABLE SYRUP.
Claims use since July 24, 1942.

Ser. No. 459,461. CENTRAL SOYA COMPANY, INC., Fort Wayne, Ind. Filed Mar. 29, 1943.
No claim is made to the word "Soy" apart from the mark.

ME-T-SOY

FOR SOY GRITS.
Claims use since Dec. 28, 1942.

Ser. No. 459,462. CENTRAL SOYA COMPANY, INC., Fort Wayne, Ind. Filed Mar. 29, 1943.
No claim is made to the word "Soy" apart from the mark.

MEL-K-SOY

FOR SOY FLOUR.
Claims use since Dec. 17, 1942.

Ser. No. 460,704. LACTO-VEE PRODUCTS COMPANY, Dayton, Ohio. Filed May 18, 1943.
No claim is made to the word "Lacto" except as shown.

Lacto-Vita

FOR BLEND OF PROTEINS, VITAMINS, IODINE, AND MINERALS USED IN THE PREPARATION OF POULTRY RATIONS, TURKEY AND DUCK FEED, HOG CONCENTRATES, DOG AND FOX FEEDS, PIG MEAL, AND DAIRY RATION CONCENTRATES.
Claims use since July 1938.

Ser. No. 460,896. ICE KIST PACKING COMPANY, Salinas, Calif. Filed May 25, 1943.

STARS 'N STRIPES

FOR FRESH VEGETABLES.
Claims use since April 1943.

Ser. No. 461,318. KASCO MILLS, INC., Waverly, N. Y. Filed June 11, 1943.

KASCO

FOR DOG RATION OR DOG FOOD.
Claims use since April 1936.

Ser. No. 461,385. REELEE FOODS, INC., Los Angeles, Calif. Filed June 14, 1943.

REELEE

FOR PACKAGED SOUPS.
Claims use since Apr. 29, 1943.

Ser. No. 461,572. SECURITY MILLS, INC., Knoxville, Tenn. Filed June 21, 1943.
Applicant is the owner of registration No. 189,892, registered Sept. 30, 1924.

SECURITY

FOR MANUFACTURED FOOD MIXTURES FOR ANIMALS AND POULTRY—TO WIT, DAIRY COW, BEEF CATTLE AND CALF FEEDS, HORSE AND MULE FEEDS, HOG AND PIG FEEDS, DOG AND CAT FEEDS, RABBIT FEEDS, GOAT FEEDS, CHICKEN, TURKEY, AND OTHER POULTRY FEEDS.
Claims use on dairy, horse, mule, and scratch feeds since January 1917; on chicken, hog, pig, and rabbit feeds since March 1920; on calf feeds since January 1930; on dog and cat feeds since September 1931; on turkey feeds since July 1934; on beef cattle feeds since June, 1939; and on goat feeds since September 1942.

Ser. No. 461,594. MCCORMICK & CO., INCORPORATED, Baltimore, Md. Filed June 22, 1943.

McCAFE

The word "Cafe" is claimed only in the association shown.
FOR COFFEE CONCENTRATE.
Claims use since May 4, 1943.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 460,792. THE DOBECKMUN COMPANY, Cleveland, Ohio. Filed May 21, 1943.

VISOBACK

FOR PROTECTIVE BACKING MATERIAL OF LAMINATED OR COATED FILM USED AS A SUBSTITUTE OF REPLACEMENT FOR HOLLAND CLOTH, VARNISHED CAMBRIC, AND THE LIKE (SAID PROTECTIVE BACKING MATERIAL BEING SOLD IN ROLLED WEB OR SHEET FORM).
Claims use since Sept. 29, 1942.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

AUGUST 10, 1943

402,666. CANNED FRUITS AND VEGETABLES, FROZEN FRUITS; FRESH VEGETABLES EXCEPT LETTUCE; FRESH FRUITS, EXCEPT CANTALOUPES; CANNED SAUERKRAUT, DRY BEANS, BOTTLED MILK AND CREAM, AND CANNED TOMATO JUICE. HAXTON CANNING COMPANY, INC., Oakfield, N. Y.
Filed May 15, 1939. Serial No. 419,423. PUBLISHED SEPTEMBER 1, 1942. Class 46.

402,667. METAL, COMPOSITION, AND WOODEN CROCHET HOOKS. THE BOYE NEEDLE COMPANY, Chicago, Ill.
Filed March 9, 1940. Serial No. 429,392. PUBLISHED MAY 18, 1943. Class 40.

402,668. METAL COMPOSITION, AND WOODEN CROCHET HOOKS. THE BOYE NEEDLE COMPANY, Chicago, Ill.
Filed March 16, 1940. Serial No. 429,641. PUBLISHED MAY 18, 1943. Class 40.

402,669. CANDY, CONFECTIONERY—NAMELY, ICE CREAM AND FROZEN DESSERTS, AND BAKERY PRODUCTS—NAMELY, CAKES, PIES, COFFEE CAKES, FRENCH AND DANISH PASTRIES, MUFFINS, DOUGHNUTS, BUNS, MERINQUE SHELLS, SOFT ROLLS, COOKIES, PATTY SHELLS, PIE COVERS, CHOCOLATE GINGER BREAD, AND BUTTERHORNS. PIG'N WHISTLE CORPORATION, San Francisco, Calif.
Filed July 2, 1940. Serial No. 433,625. PUBLISHED SEPTEMBER 29, 1942. Class 46.

402,670. SPAGHETTI DINNERS COMPRISING SPAGHETTI, MUSHROOM SAUCE, AND GRATED CHEESE, SPAGHETTI SAUCE, ETC. HENRI FOODS, INC., Long Island City, N. Y.
Filed November 2, 1940. Serial No. 437,510. PUBLISHED JUNE 1, 1943. Class 46.

402,671. SHOE-SHINING OUTFITS—NAMELY, A CLOTH BAG CONTAINING SHOE POLISH, A SHOE BRUSH, DAUBER, LACES, AND A SHINE CLOTH. ACE SALES CORPORATION, New York, N. Y.
Filed March 17, 1941. Serial No. 441,597. PUBLISHED JUNE 1, 1943. Class 4.

402,672. HOISTING UNITS DESIGNED FOR INSTALLATION ON ANY STANDARD MOTOR TRUCK CHASSIS AND CAPABLE OF PICKING UP, CARRYING, AND DUMPING DROP-BOTTOM AND OTHER DETACHABLE BUCKETS AND CONTAINERS, AND DETACHABLE BUCKETS AND CONTAINERS. DEMPSTER BROTHERS, INCORPORATED, Knoxville, Tenn.
Filed March 29, 1941. Serial No. 442,061. PUBLISHED JUNE 1, 1943. Class 23.

402,673. HOISTING UNITS, DESIGNED FOR INSTALLATION ON ANY STANDARD MOTOR TRUCK CHASSIS AND CAPABLE OF PICKING UP, CARRYING, AND DUMPING DROP-BOTTOM AND OTHER DETACHABLE BUCKETS AND CONTAINERS AND DETACHABLE BUCKETS AND CONTAINERS. DEMPSTER BROTHERS, INCORPORATED, Knoxville, Tenn.
Filed March 29, 1941. Serial No. 442,062. PUBLISHED JUNE 1, 1943. Class 23.

402,674. TOOLS—NAMELY, A RECESSING CUTTER FOR CUTTING A RECESS ADJACENT THE PIN BOSSES IN A PISTON. ULRICH MANUFACTURING CORPORATION, Shelbyville, Ill.
Filed June 24, 1941. Serial No. 444,812. PUBLISHED MAY 25, 1943. Class 23.

402,675. HOSIERY. BRYAN FULL FASHIONED MILLS, INC., Chattanooga, Tenn.
Filed August 28, 1941. Serial No. 446,613. PUBLISHED MAY 25, 1943. Class 39.

402,676. FLUID MILK OF HIGHER THAN AVERAGE PURITY AND QUALITY. DAIRYMEN'S LEAGUE COOPERATIVE ASSOCIATION, INC., New York N. Y.
Filed November 10, 1941. Serial No. 448,500. PUBLISHED JUNE 1, 1943. Class 46.

402,677. SHOES OF LEATHER OR FABRIC OR COMBINATIONS OF BOTH MATERIALS. GALE SHOE MFG. CO., Boston, Mass.
Filed November 29, 1941. Serial No. 449,046. PUBLISHED MAY 18, 1943. Class 39.

402,678. YARNS OF WOOL AND RAMIE WITH OR WITHOUT ADMIXTURE OF COTTON, SILK, OR RAYON. MANAWUL PATENT CORPORATION, Boston, Mass.
Filed January 8, 1942. Serial No. 450,073. PUBLISHED MAY 18, 1943. Class 43.

402,679. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS, AND SIRUPS AND EXTRACTS FOR MAKING THE SAME. MONROE HARRISON, Chicago, Ill.
Filed March 4, 1942. Serial No. 451,382. PUBLISHED JULY 7, 1942. Class 45.

402,680. COOKED HAM IN TINS, AND WEINERS. KINGAN & CO., INCORPORATED, Indianapolis, Ind.
Filed March 14, 1942. Serial No. 451,626. PUBLISHED JUNE 23, 1942. Class 46.

402,681. SHOES OF LEATHER, RUBBER, FABRIC, OR COMBINATIONS THEREOF. SCHOLNICK SHOE CORP., Boston, Mass.
Filed March 14, 1942. Serial No. 451,631. PUBLISHED MAY 11, 1943. Class 39.

402,682. FLOOR WAX, GAMBLE STORES INCORPORATED, Minneapolis, Minn.
Filed March 31, 1942. Serial No. 452,042. PUBLISHED JUNE 1, 1943. Class 16.

402,683. INFANTS' AND CHILDREN'S HIGH SHOES MADE OF LEATHER AND FABRIC AND COMBINATIONS OF THE SAME. TRIMFOOT COMPANY, St. Louis, Mo.
Filed April 2, 1942. Serial No. 452,112. PUBLISHED MAY 11, 1943. Class 39.

402,684. DRUM HEADS. WHITTLE MUSIC COMPANY, Dallas, Tex.
Filed April 9, 1942. Serial No. 452,257. PUBLISHED JUNE 1, 1943. Class 36.

402,685. TEXTILE FABRICS IN THE PIECE OF RAYON, SILK, COTTON, AND COMBINATIONS THEREOF. A. M. PERLMAN, INC., New York, N. Y.
Filed April 27, 1942. Serial No. 452,620. PUBLISHED MAY 11, 1943. Class 42.

402,686. COLLAPSIBLE BAGS ON FRAMES PROVIDED WITH ROLLERS FOR CARRYING BUNDLES. PEARL-WICK CORPORATION, Astoria, Long Island, N. Y.
Filed May 1, 1942. Serial No. 452,733. PUBLISHED AUGUST 18, 1942. Class 2.

402,687. PAINT BRUSH CLEANER, JAPAN DRIER, BRONZING LIQUID, GRAINING COMPOUND, WAX REMOVER, PAINTER'S WALL SIZE, PAINT THINNER, AND CRACK FILLER. WILLIAM W. EDGERLY, doing business as Royal Palm Products, Scranton, Pa.
Filed May 7, 1942. Serial No. 452,855. PUBLISHED JUNE 1, 1943. Class 16.

402,688. HOLDERS MADE OF SYNTHETIC MATERIALS FOR SAFETY RAZOR BLADES, WHICH HOLDERS MAY SUBSEQUENTLY BE USED FOR CIGARETTES, AND COMBINED HOLDERS AND VAULTS MADE OF CARDBOARD OR SYNTHETIC MATERIALS TO BE USED FOR SAFETY RAZOR BLADES. CONRAD RAZOR BLADE CO., INC., Long Island City, N. Y.
Filed July 9, 1942. Serial No. 454,113. PUBLISHED JUNE 1, 1943. Class 2.

402,689. CABINETS FOR RADIO RECEIVING APPARATUS AND STANDS FOR PHONOGRAPH RECORD ALBUMS. PHILCO CORPORATION, Philadelphia, Pa.
Filed July 21, 1942. Serial No. 454,377. PUBLISHED JUNE 1, 1943. Class 32.

402,690. POEMS AND SONGS PUBLISHED AT INTERVALS. HUGUETTE J. AKOUN, New York, N. Y.
Filed July 25, 1942. Serial No. 454,491. PUBLISHED JUNE 1, 1943. Class 38.

402,691. FOODS IN CONCENTRATED AND DEHYDRATED, PACKAGED FORM FOR PET ANIMALS SUCH AS DOGS AND CATS. N. C. COAN, doing business as Animal Foods Company, Alert Products Co., Bar-None Sales Co., Delight Dog Food Co., and Hi-Test Products Co., San Jose, Calif., and Houston, Tex.
Filed August 7, 1942. Serial No. 454,776. PUBLISHED MAY 25, 1943. Class 46.

402,692. SHAMPOO. THE COUNTY PERFUMERY COMPANY, INC., Bloomfield, N. J.
Filed August 10, 1942. Serial No. 454,824. PUBLISHED JUNE 1, 1943. Class 6.

402,693. MATTRESS PADS, MATTRESS PROTECTORS, QUILTS, TABLE PADS, AND FURNITURE PADS. HOLLAND COTTON PRODUCTS COMPANY, Holland, Mich.
Filed August 26, 1942. Serial No. 455,120. PUBLISHED MAY 11, 1943. Class 42.

402,694. RAYON PIECE GOODS. CANTOR GREENSPAN CO., INC., New York, N. Y.
Filed August 31, 1942. Serial No. 455,203. PUBLISHED MAY 11, 1943. Class 42.

402,695. WOMEN'S AND MISSES' DRESSES, SKIRTS, AND BLOUSES. NATHAN SHATZ SPORTSWEAR, INC., St. Louis, Mo.
Filed September 1, 1942. Serial No. 455,243. PUBLISHED JUNE 1, 1943. Class 39.

402,696. PIECE GOODS OF SILK, WOOL, COTTON, RAYON, AND MIXTURES OF SILK AND RAYON. MALLINSON FABRICS CORPORATION, New York, N. Y.
Filed September 4, 1942. Serial No. 455,346. PUBLISHED MAY 18, 1943. Class 42.

402,697. ELECTRIC ENERGY TRANSLATING DEVICES—NAMELY, ELECTRIC LAMPS, ELECTRON TUBES, AND COMPONENT PARTS THEREOF. SYLVANIA ELECTRIC PRODUCTS INC., Salem, Mass.
Filed October 7, 1942. Serial No. 456,051. PUBLISHED JUNE 1, 1943. Class 21.

402,698. ELECTRIC ENERGY TRANSLATING DEVICES—NAMELY, ELECTRIC LAMPS, ELECTRON TUBES AND COMPONENT PARTS THEREOF. SYLVANIA ELECTRIC PRODUCTS INC., Salem, Mass.
Filed October 7, 1942. Serial No. 456,052. PUBLISHED JUNE 1, 1943. Class 21.

402,699. ELECTRIC ENERGY TRANSLATING DEVICES—NAMELY, ELECTRIC LAMPS, ELECTRON TUBES AND COMPONENT PARTS THEREOF. SYLVANIA ELECTRIC PRODUCTS INC., Salem, Mass.
Filed October 7, 1942. Serial No. 456,053. PUBLISHED JUNE 1, 1943. Class 21.

402,700. ELECTRIC ENERGY TRANSLATING DEVICES—NAMELY, ELECTRIC LAMPS, ELECTRON TUBES, AND COMPONENT PARTS THEREOF. SYLVANIA ELECTRIC PRODUCTS INC., Salem, Mass.
Filed October 7, 1942. Serial No. 456,054. PUBLISHED JUNE 1, 1943. Class 21.

402,701. PREPARATION FOR THE TREATMENT OF ATHLETE'S FOOT. ADA MACHIN, New York, N. Y.
Filed October 27, 1942. Serial No. 456,468. PUBLISHED JUNE 1, 1943. Class 6.

402,702. WOOLENS, SILKS, COTTONS, RAYONS, AND COMBINATIONS THEREOF IN THE PIECE. SEYMOUR GOTTESMAN, New York, N. Y.
Filed November 6, 1942. Serial No. 456,670. PUBLISHED MAY 25, 1943. Class 42.

402,703. GOGGLES. BACHMANN BROTHERS, INC., Philadelphia, Pa.
Filed November 12, 1942. Serial No. 456,764. PUBLISHED JUNE 1, 1943. Class 26.

402,704. RAZOR STROPS. ILLINOIS RAZOR STROP COMPANY, Chicago, Ill.
Filed November 18, 1942. Serial No. 456,893. PUBLISHED JUNE 1, 1943. Class 4.

402,705. HANDBAGS, SEWING BAGS, PURSES, SHOPPING BAGS, MADE OF TEXTILE FABRICS AND/OR LEATHER, BRIEF CASES, SHOULDER STRAP POUCHES, SUITCASES, ETC. MARK CROSS COMPANY, New York, N. Y.
Filed November 21, 1942. Serial No. 456,956. PUBLISHED JUNE 1, 1943. Class 3.

402,706. BOYS' AND GIRLS' LEATHER AND FABRIC SHOES. THE MUNICIPAL SHOE CO., INC., Brooklyn, N. Y.
Filed December 18, 1942. Serial No. 457,504. PUBLISHED MAY 11, 1943. Class 39.

402,707. CHAIRS, TABLES, DAVENPORTS, BEDS, DRESSERS, DRESSING TABLES, STOOLS, CHESTS, BOOKCASES, DESKS, AND BUFFETS MADE OF PLASTICS, METAL, OR WOOD, AND WITH OR WITHOUT UPHOLSTERING. PROMOTIONS, INC., Youngstown, Ohio., assignor to American Homes Institute, Inc., Youngstown, Ohio.
Filed December 18, 1942. Serial No. 457,510. PUBLISHED JUNE 1, 1943. Class 32.

402,708. FLUID AGITATING AND MIXING DEVICES FOR CONTAINERS FOR PROCESSING PETROLEUM AND RUBBER. MIXING EQUIPMENT CO., INC., Rochester, N. Y.
Filed December 30, 1942. Serial No. 457,654. PUBLISHED MAY 18, 1943. Class 23.

402,709. PIECE GOODS OF SILK, RAYON, AND COTTON, SOLD AS YARDAGE, OR IN THE FORM OF FLAT, SHAPED PIECES FOR DECORATIVE AND INDUSTRIAL PURPOSES. CONTINENTAL LITHOGRAPH CORPORATION, Cleveland, Ohio.
Filed January 2, 1943. Serial No. 457,721. PUBLISHED MAY 11, 1943. Class 42.

402,710. YARNS. DURENE ASSOCIATION OF AMERICA, New York, N. Y.
Filed January 9, 1943. Under the act of February 20, 1905, as amended June 10, 1938. Serial No. 457,826. PUBLISHED MAY 11, 1943. Class 43.

402,711. MEN'S AND BOYS' PAJAMAS, UNDERWEAR, NECKTIES, NEGLIGEE SHIRTS, AND SPORT SHIRTS, AND SHOES OF LEATHER, FABRIC, AND RUBBER AND COMBINATIONS THEREOF. DAVEGA-CITY RADIO, INC., New York, N. Y.
Filed January 11, 1943. Serial No. 457,848. PUBLISHED MAY 11, 1943. Class 39.

402,712. SHOE LACES. DAVID LIPPEY, doing business as The Lippey Company, Los Angeles, Calif.
Filed January 16, 1943. Serial No. 457,959. PUBLISHED MAY 18, 1943. Class 40.

402,713. PIECE GOODS OF RAYON AND COTTON AND MIXTURES THEREOF. ROSENSTEIN BROTHERS, Paterson, N. J.
Filed January 18, 1943. Serial No. 457,995. PUBLISHED MAY 11, 1943. Class 42.

402,714. WOMAN'S HAT OR CAP. JORDAN MARSH COMPANY, Boston, Mass.
Filed January 19, 1943. Serial No. 458,014. PUBLISHED MAY 11, 1943. Class 39.

402,715. WATERPROOFING AND PROTECTIVE PAINT OR ENAMEL COATING FOR CONCRETE, STEEL, WOOD, PLASTER, MASONRY, AND METAL SURFACES IN GENERAL. INERTOL COMPANY, INC., Newark, N. J.
Filed January 21, 1943. Serial No. 458,070. PUBLISHED JUNE 1, 1943. Class 16.

402,716. HOSIERY, ANKLETS, AND PROTECTIVE SOCKS. JULIUS KAYSER & CO., New York, N. Y.
Filed January 22, 1943. Serial No. 458,100. PUBLISHED MAY 25, 1943. Class 39.

402,717. NEWSPAPER SECTION OR DEPARTMENT. KING FEATURES SYNDICATE, INC., New York, N. Y.
Filed January 22, 1943. Serial No. 458,102. PUBLISHED MAY 25, 1943. Class 38.

402,718. SPORT SHIRTS AND SWEATERS FOR MEN AND BOYS. COOPER'S, INCORPORATED, Kenosha, Wis.
Filed January 23, 1943. Serial No. 458,111. PUBLISHED MAY 25, 1943. Class 39.

402,719. HATS FOR WOMEN. ASSOCIATED RETAIL MILLINERY, INC., Dallas, Tex.
Filed January 29, 1943. Serial No. 458,217. PUBLISHED MAY 18, 1943. Class 39.

402,720. LAXATIVES. THOMAS DAIN ALLEN, New York, N. Y.
Filed February 4, 1943. Serial No. 458,322. PUBLISHED JUNE 1, 1943. Class 6.

402,721. CHART BOARD FOR GRAPHICAL REPRESENTATIONS. WASSELL ORGANIZATION, Westport, Conn.
Filed February 5, 1943. Serial No. 458,361. PUBLISHED JUNE 1, 1943. Class 50.

402,722. BOOKLETS CONTAINING DATA CARDS FOR USE IN CARRYING IN A PURSE. PIERCE SPERRY, Middlefield, Ohio.
Filed February 8, 1943. Serial No. 458,421. PUBLISHED JUNE 1, 1943. Class 37.

402,723. WOMEN'S COLLARS, VESTEES, DICKEYS, AND SCARVES. HOWARDS FIFTH AVE., INC., New York, N. Y.
Filed February 10, 1943. Serial No. 458,461. PUBLISHED MAY 11, 1943. Class 39.

402,724. BEATING ENGINES COMPRISING APPARATUS FOR PAPER MAKING. PAPER AND INDUSTRIAL APPLIANCES, INC., New York, N. Y.
Filed February 16, 1943. Serial No. 458,571. PUBLISHED MAY 18, 1943. Class 23.

402,725. LADIES' AND MISSES' WAISTS, BLOUSES, DRESSES, AND SLACKS. LIVINGSTON-BRONSTEIN, New York, N. Y.
Filed February 17, 1943. Serial No. 458,595. PUBLISHED JUNE 1, 1943. Class 39.

402,726. PIECE GOODS MADE OF COTTON, RAYON, WOOL, MOHAIR, ALPACA, AND COMBINATIONS THEREOF, AND PILE FABRICS. I. A. WYNER & CO. INC., New York, N. Y.
Filed February 17, 1943. Serial No. 458,606. PUBLISHED MAY 25, 1943. Class 42.

402,727. RAYON PIECE GOODS. EASTMAN KODAK COMPANY, Jersey City, N. J., and Rochester, N. Y.
Filed February 20, 1943, under the act of February 20, 1905, as amended June 10, 1938. Serial No. 458,649. PUBLISHED MAY 11, 1943. Class 42.

402,728. BASE METAL HAVING A CORROSION RESISTANT FINISH. RHEEM MANUFACTURING COMPANY, Washington, D. C.
Filed February 20, 1943. Serial No. 458,662. PUBLISHED JUNE 1, 1943. Class 14.

402,729. DETERGENTS IN LIQUID OR PASTE FORM FOR USE IN WATER IN THE PROCESSING OF TEXTILES. ARKANSAS COMPANY, INC., Newark, N. J.
Filed February 22, 1943. Serial No. 458,673. PUBLISHED JUNE 1, 1943. Class 4.

402,730. WOMEN'S BELTS IN THE NATURE OF GARMENT ACCESSORIES. STELZER BROTHERS, INC., New York, N. Y.
Filed February 27, 1943. Serial No. 458,820. PUBLISHED MAY 11, 1943. Class 39.

402,731. METAL CUTTING TOOLS OF THE ROTARY TOOTHED TYPE. METAL CUTTING TOOLS INC., Rockford, Ill.
Filed March 1, 1943. Serial No. 458,843. PUBLISHED MAY 18, 1943. Class 23.

402,732. WOMEN'S SWEATERS, BATHING SUITS, AND JACKETS. PARK KNITWEAR CO. INC., New York, N. Y.
Filed March 1, 1943. Serial No. 458,847. PUBLISHED MAY 25, 1943. Class 39.

402,733. RAYON PIECE GOODS. PACIFIC MILLS, Boston, Mass.
Filed March 2, 1943. Serial No. 458,866. PUBLISHED MAY 25, 1943. Class 42.

402,734. COTTON AND MIXED COTTON AND RAYON PIECE GOODS. PACIFIC MILLS, Boston, Mass.
Filed March 2, 1943. Serial No. 458,868. PUBLISHED MAY 18, 1943. Class 42.

402,735. IMPERVIOUS PAPER CONTAINERS FOR THE PACKAGING OR SHIPMENT OF VARIOUS LIQUIDS. IMPERVIOUS PAPER CONTAINER CORPORATION, Washington, D. C.
Filed March 3, 1943. Serial No. 458,879. PUBLISHED JUNE 1, 1943. Class 2.

402,736. WOMEN'S CLOTHING—NAMELY, DRESSES, COATS, AND SUITS. SAKS & COMPANY, New York, N. Y.
Filed March 3, 1943. Serial No. 458,884. PUBLISHED JUNE 1, 1943. Class 39.

402,737. TOYS—NAMELY, TOY DRUMS, BLOCKS AND DIE CUT PARTS ADAPTED TO BE ASSEMBLED TO FORM TOY ANIMALS, PERSONS, AND OBJECTS. CONTAINER CORPORATION OF AMERICA, Chicago, Ill.
Filed March 5, 1943. Serial No. 458,909. PUBLISHED JUNE 1, 1943. Class 22.

402,738. CHOCOLATE. KLEIN CHOCOLATE CO., INC., Elizabethtown, Pa.
Filed March 5, 1943. Serial No. 458,919. PUBLISHED JUNE 1, 1943. Class 46.

402,739. LAC AND VARNISH GUMS. WILLIAM H. SCHEEL, INC., Brooklyn, N. Y.
Filed March 5, 1943. Serial No. 458,923. PUBLISHED JUNE 1, 1943. Class 1.

402,740. PAINTS IN READY-MIXED FORM. BENJAMIN JAMES HARDY, doing business under the name Colorthru Chemicals, New York, N. Y.
Filed March 6, 1943. Serial No. 458,937. PUBLISHED JUNE 1, 1943. Class 16.

402,741. DUNGAREES, WORK SHIRTS AND OVERALLS FOR MEN AND BOYS. PLYMOUTH WHOLESALE DRY GOODS CORPORATION, New York, N. Y.
Filed March 6, 1943. Serial No. 458,949. PUBLISHED MAY 18, 1943. Class 39.

402,742. MEN'S OUTER SHIRTS, HATS, BATH AND LOUNGING ROBES, PAJAMAS, BELTS IN THE NATURE OF GARMENT SUPPORTERS, SUSPENDERS, AND GLOVES MADE OF LEATHER, FABRIC, RUBBER, AND/OR ANY COMBINATIONS THEREOF. PLYMOUTH WHOLESALE DRY GOODS CORPORATION, New York, N. Y.
Filed March 6, 1943. Serial No. 458,950. PUBLISHED MAY 25, 1943. Class 39.

402,743. WIRE CUTTERS, WATER PUMP PLIERS, BRAKE PLIERS, BATTERY PLIERS, IGNITION PLIERS, LINEMAN PLIERS, ETC. FORGED STEEL PRODUCTS COMPANY, Newport, Pa.
Filed March 8, 1943. Serial No. 458,963. PUBLISHED MAY 18, 1943. Class 23.

402,744. PERIODICALS THE SUBJECT MATTER OF WHICH RELATES TO FOOD PRODUCTS. AMERICAN MOLASSES COMPANY, New York, N. Y.
Filed March 12, 1943. Serial No. 459,041. PUBLISHED MAY 25, 1943. Class 38.

402,745. PRINTERS' SUPPLIES MADE OF RUBBER AND RUBBER AND FABRIC—NAMELY, NEWSPAPER PRESS BLANKETS, FELT BLANKETS, NEWSPAPER CUTTING RUBBERS, LITHOGRAPH OFFSET BLANKETS, LITHOGRAPH PRESS BLANKETS, DRAWSHEETS, AND TOP BLANKETS. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio.
Filed March 13, 1943. Serial No. 459,074. PUBLISHED JUNE 1, 1943. Class 50.

402,746. PRINTERS' SUPPLIES MADE OF RUBBER AND RUBBER AND FABRIC—NAMELY, NEWSPAPER PRESS BLANKETS, FELT BLANKETS, NEWSPAPER CUTTING RUBBERS, LITHOGRAPH OFFSET BLANKETS, LITHOGRAPH PRESS BLANKETS, DRAWSHEETS, AND TOP BLANKETS. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio.
Filed March 13, 1943. Serial No. 459,075. PUBLISHED JUNE 1, 1943. Class 50.

402,747. PRINTERS' SUPPLIES MADE OF RUBBER AND RUBBER AND FABRIC—NAMELY, NEWSPAPER PRESS BLANKETS, FELT BLANKETS, NEWSPAPER CUTTING RUBBERS, LITHOGRAPH OFFSET BLANKETS, LITHOGRAPH PRESS BLANKETS, DRAWSHEETS, AND TOP BLANKETS. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio.
Filed March 13, 1943. Serial No. 459,076. PUBLISHED JUNE 1, 1943. Class 50.

402,748. PRINTERS' SUPPLIES MADE OF RUBBER AND RUBBER AND FABRIC—NAMELY, NEWSPAPER PRESS BLANKETS, FELT BLANKETS, NEWSPAPER CUTTING RUBBERS, LITHOGRAPH OFFSET BLANKETS, LITHOGRAPH PRESS BLANKETS, DRAWSHEETS, AND TOP BLANKETS. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio.
Filed March 13, 1943. Serial No. 459,077. PUBLISHED JUNE 1, 1943. Class 50.

402,749. LADIES' HOSIERY. PRIM-ERA HOSIERY MILLS, INC., Chester, Ill.
Filed March 13, 1943. Serial No. 459,082. PUBLISHED MAY 18, 1943. Class 39.

402,750. BOYS' SHIRTS, PAJAMAS, SPORTSWEAR COMPRISING KNITTED AND WOVEN POLO SHIRTS, SPORT JACKETS, AND SLACK SET ENSEMBLES COMPRISING A PAIR OF TROUSERS AND AN INNER-AND-OUTER SHIRT, BLOUSES, AND UNDERWEAR. I. JABLOW & CO., Philadelphia, Pa.
Filed March 15, 1943. Serial No. 459,114. PUBLISHED JUNE 1, 1943. Class 39.

402,751. BOYS' SHIRTS, PAJAMAS, SPORTSWEAR COMPRISING KNITTED AND WOVEN POLO SHIRTS, SPORT JACKETS, AND SLACK SET ENSEMBLES COMPRISING A PAIR OF TROUSERS AND AN INNER-AND-OUTER SHIRT, BLOUSES, AND UNDERWEAR. I. JABLOW & CO., Philadelphia, Pa.
Filed March 15, 1943. Serial No. 459,115. PUBLISHED JUNE 1, 1943. Class 39.

402,752. BOYS' SHIRTS, PAJAMAS, SPORTSWEAR COMPRISING KNITTED AND WOVEN POLO SHIRTS, SPORT JACKETS, AND SLACK SET ENSEMBLES COMPRISING A PAIR OF TROUSERS AND AN INNER-AND-OUTER SHIRT, BLOUSES, AND UNDERWEAR. I. JABLOW & CO., Philadelphia, Pa.
Filed March 15, 1943. Serial No. 459,116. PUBLISHED JUNE 1, 1943. Class 39.

402,753. CORSETS AND FOUNDATION GARMENTS. CHARIS CORPORATION, Allentown, Pa.
Filed March 17, 1943. Serial No. 459,163. PUBLISHED MAY 25, 1943. Class 39.

402,754. COTTON, RAYON, AND/OR SILK PIECE GOODS OR COMBINATIONS THEREOF. COHN-HALL-MARX CO., New York, N. Y.
Filed March 17, 1943. Serial No. 459,167. PUBLISHED MAY 25, 1943. Class 42.

402,755. PIECE GOODS OF SILK, RAYON, MIXTURES OF SILK AND RAYON, SILK AND WOOL, SILK AND COTTON, AND RAYON AND COTTON. WILLIAM SKINNER & SONS, Holyoke, Mass., and New York, N. Y.
Filed March 17, 1943. Serial No. 459,178. PUBLISHED MAY 25, 1943. Class 42.

402,756. SHOE-SHINING OUTFITS — NAMELY, A BOX CONTAINING SHOE POLISH, A BRUSH, DAUBER, LACES, AND SHINE CLOTH. ACE SALES CORPORATION, New York, N. Y., assignor to William Wolf, Maplewood, N. J., doing business as Leonard Sales Company, Newark, N. J.
Filed March 18, 1943. Serial No. 459,186. PUBLISHED JUNE 1, 1943. Class 4.

402,757. GAME PLAYED WITH CARDS. CHARLES H. TAYLOR, Springfield, Mass.
Filed March 18, 1943. Serial No. 459,210. PUBLISHED JUNE 1, 1943. Class 22.

402,758. TOOL AND DIE STEELS. FIRTH-STERLING STEEL COMPANY, McKeesport, Pa.
Filed March 19, 1943. Serial No. 459,219. PUBLISHED MAY 25, 1943. Class 14.

402,759. TOOL AND DIE STEELS. FIRTH-STERLING STEEL COMPANY, McKeesport, Pa.
Filed March 19, 1943. Serial No. 459,220. PUBLISHED MAY 25, 1943. Class 14.

402,760. SCREENS FOR USE IN SCREENING DEVICES FOR SORTING OR SIFTING CRUSHED MATERIALS. THE LUDLOW-SAYLOR WIRE COMPANY, St. Louis, Mo.
Filed March 19, 1943. Serial No. 459,225. PUBLISHED JUNE 1, 1943. Class 23.

402,761. ANTACID-ADSORBENT FOR NEUTRALIZING EXCESS ACIDITY. THE DRUG PRODUCTS CO., INC., Long Island City, N. Y.
Filed March 20, 1943. Serial No. 459,238. PUBLISHED JUNE 1, 1943. Class 6.

402,762. CHLORINATED METALS—NAMELY, ALUMINUM CHLORIDE AND ANHYDROUS HYDROGEN CHLORIDE. NEW YORK-OHIO CHEMICAL COMPANY, Lewiston, N. Y.
Filed March 20, 1943. Serial No. 459,246. PUBLISHED JUNE 1, 1943. Class 6.

402,763. PADLOCKS, DOOR, CHEST, AND DRAWER LOCKS, LATCHES, LOCK KEYS, KEYHOLE ESCUTCHEONS, ETC. DURKEE MARINE PRODUCTS CORPORATION, New York and Grasmere, Staten Island, N. Y.
Filed March 22, 1943. Serial No. 459,261. PUBLISHED JUNE 1, 1943. Class 25.

402,764. WOOLEN PIECE GOODS. THE FORSTMANN WOOLEN CO., Passaic, N. J.
Filed March 23, 1943. Serial No. 459,285. PUBLISHED MAY 25, 1943. Class 42.

402,765. ALCOHOLIC CORDIALS. BARDINET, LTD., New York, N. Y.
Filed March 24, 1943. Serial No. 459,292. PUBLISHED MAY 25, 1943. Class 49.

402,766. SHOES OF LEATHER, RUBBER, FABRIC, OR COMBINATIONS THEREOF, FOR GROWING GIRLS, MISSES, AND WOMEN. MARILYN SHOE COMPANY, Milwaukee, Wis.
Filed March 24, 1943. Serial No. 459,310. PUBLISHED MAY 25, 1943. Class 39.

402,767. DIES AND ALIGNMENT APPARATUS FOR RECLAIMING USED CONTAINER CAPS. ROYAL CROWN BOTTLING COMPANY OF NEWARK, INC., Newark, N. J.
Filed March 24, 1943. Serial No. 459,316. PUBLISHED MAY 18, 1943. Class 23.

402,768. RAYON PIECE GOODS. COLONIAL MILLS, INC., New York, N. Y.
Filed March 25, 1943. Serial No. 459,329. PUBLISHED MAY 25, 1943. Class 42.

402,769. COFFEE GRINDING MACHINES. GLENN T. SCHMIDT, doing business as Grindex Company, Cincinnati, Ohio.
Filed March 25, 1943. Serial No. 459,349. PUBLISHED MAY 18, 1943. Class 23.

402,770. HORMONE SPRAY FOR HORTICULTURAL OR AGRICULTURAL USE. AMERICAN CHEMICAL PAINT COMPANY, Ambler, Pa.
Filed March 26, 1943. Serial No. 459,355. PUBLISHED JUNE 1, 1943. Class 6.

402,771. WATCHES, WATCH-MOVEMENTS, WATCH-CASES, AND PARTS THEREOF. LOUIS HIRSCH DE METZ COMPANY, New York, N. Y.
Filed March 26, 1943. Serial No. 459,362. PUBLISHED JUNE 1, 1943. Class 27.

402,772. WATCHES, WATCH-MOVEMENTS, WATCH-CASES, AND PARTS THEREOF. LOUIS HIRSCH DE METZ COMPANY, New York, N. Y.
Filed March 26, 1943. Serial No. 459,363. PUBLISHED JUNE 1, 1943. Class 27.

402,773. TEXTILE OILS, SULPHONATED OILS, TEXTILE SIZINGS, TEXTILE FINISHES, TEXTILE PENETRATORS, WETTING AGENTS, AND DYE ASSISTANTS. STANDARD CHEMICAL PRODUCTS, INC., Hoboken, N. J.
Filed March 26, 1943. Serial No. 459,382. PUBLISHED JUNE 1, 1943. Class 6.

402,774. PROTECTIVE CREAM FOR PROTECTION AGAINST DIRT, GREASE, OILS, SOLVENTS, PAINTS, AND LACQUERS. WINDSOR-LLOYD PRODUCTS, INC., Philadelphia, Pa.
Filed March 27, 1943. Serial No. 459,456. PUBLISHED JUNE 1, 1943. Class 6.

402,775. REFRIGERANTS — NAMELY, SULPHUR DIOXIDE AND METHYL CHLORIDE; CHEMICAL FUMIGANTS—NAMELY, CHLOROPICRIN; COLLOIDAL SULPHUR FOR USE AS FUNGICIDE AND INSECTICIDE; A PREPARATION FOR TREATING SEED AND SOIL TO PREVENT DAMPING-OFF OF SEEDLINGS AND CUTTINGS. ANSUL CHEMICAL COMPANY, Marinette, Wis.
Filed March 29, 1943. Serial No. 459,459. PUBLISHED JUNE 1, 1943. Class 6.

402,776. DELOUSING LEG BANDS FOR CHICKENS, AND OTHER FOWL, COMPRISING REMOVABLE BANDS HAVING PORTIONS HOLDING CHEMICAL PACKS ADAPTED AT BODY TEMPERATURE TO RELEASE FUMES TO PASS THROUGH THE FEATHERS TO KILL POULTRY LICE AND FEATHER MITES. LAWRENCE A. LOCKWOOD, doing business as Lawrence A. Lockwood Company, Not Inc., Chicago, Ill.
Filed March 29, 1943. Serial No. 459,475. PUBLISHED JUNE 1, 1943. Class 50.

402,777. WATERERS AND FEEDERS FOR POULTRY AND FARM ANIMALS. MOORMAN MANUFACTURING COMPANY, Quincy, Ill.
Filed March 29, 1943. Serial No. 459,477. PUBLISHED JUNE 1, 1943. Class 50.

402,778. WATCHES AND WATCH MOVEMENTS, WATCHCASES AND PARTS THEREOF. R. GSELL & CO., INC., New York, N. Y.
Filed March 30, 1943. Serial No. 459,514. PUBLISHED JUNE 1, 1943. Class 27.

402,779. MEDICINAL PREPARATIONS INDICATED IN AND FOR THE TREATMENT AND THE MITIGATION OF THE SYMPTOMATIC MANIFESTATIONS OF FUNCTIONAL DISORDERS OF THE LIVER AND INTESTINES, ETC. THE KNOX COMPANY, Los Angeles, Calif.
Filed March 30, 1943. Serial No. 459,521. PUBLISHED JUNE 1, 1943. Class 6.

402,780. RAZOR STROPS AND MACHINES OR APPARATUS FOR STROPPING AND SHARPENING RAZOR BLADES, AND PARTS OF SUCH MACHINES OR APPARATUS. MEIK BROS. PROPRIETARY LIMITED, Collingwood, near Melbourne, Australia.
Filed March 31, 1943. Serial No. 459,548. PUBLISHED MAY 25, 1943. Class 23.

402,781. CHEMICAL SUBSTANCES FOR USE IN THE FINISHING OF TEXTILES. SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland.
Filed April 6, 1943. Serial No. 459,679. PUBLISHED JUNE 1, 1943. Class 6.

402,782. GRADING AND EARTH WORKING EQUIPMENT—NAMELY, PUSH GRADERS. R. G. LE TOURNEAU, INC., Stockton, Calif., and Peoria, Ill.
Filed April 7, 1943. Serial No. 459,691. PUBLISHED JUNE 1, 1943. Class 23.

402,783. FUMIGANT. PARSONS CHEMICAL WORKS, Grand Ledge, Mich.
Filed April 7, 1943. Serial No. 459,694. PUBLISHED JUNE 1, 1943. Class 6.

402,784. PHARMACEUTICAL PREPARATIONS FOR USE AS AN INTRAVENOUS ANESTHETIC AND A SHORT ACTING HYPNOTIC FOR DELAYED OR INTERRUPTED SLEEP. WINTHROP PRODUCTS INC., New York, N. Y.
Filed April 8, 1943. Serial No. 459,709. PUBLISHED JUNE 1, 1943. Class 6.

402,785. ANTIBACTERIAL SPECIFIC PREPARATION. WINTHROP PRODUCTS INC., New York, N. Y.
Filed April 8, 1943. Serial No. 459,710. PUBLISHED JUNE 1, 1943. Class 6.

402,786. ANTIMALARIAL (GAMETOCIDE) PREPARATIONS. WINTHROP PRODUCTS INC., New York, N. Y.
Filed April 8, 1943. Serial No. 459,715. PUBLISHED JUNE 1, 1943. Class 6.

402,787. ANTIANEMIC PREPARATION. WINTHROP PRODUCTS INC., New York, N. Y.
Filed April 8, 1943. Serial No. 459,718. PUBLISHED JUNE 1, 1943. Class 6.

402,788. MIXED PAINTS. DEVOE & RAYNOLDS COMPANY, INC., New York, N. Y.
Filed April 9, 1943. Serial No. 459,738. PUBLISHED JUNE 1, 1943. Class 16.

402,789. HERBICIDE AND WEED KILLER HAVING INSECTICIDAL PROPERTIES. GENERAL CHEMICAL COMPANY, New York, N. Y.
Filed April 9, 1943. Serial No. 459,752. PUBLISHED JUNE 1, 1943. Class 6.

402,790. LAXATIVE PREPARATION. SCHERING CORPORATION, Bloomfield, N. J.
Filed April 9, 1943. Serial No. 459,770. PUBLISHED JUNE 1, 1943. Class 6.

402,791. SUITCASES AND TRUNKS. THE UNITED STATES NAVY DEPARTMENT, Washington, D. C.
Filed April 10, 1943, under the act of February 20, 1905, as amended June 10, 1938. Serial No. 459,798. PUBLISHED JUNE 1, 1943. Class 3.

402,792. COMPLEXION POWDER. FERD. MULHENS, INC., New York, N. Y.
Filed April 13, 1943. Serial No. 459,846. PUBLISHED JUNE 1, 1943. Class 6.

402,793. BALL GAMES PLAYED WITH HAND OR RACQUET. THEODORE HEIL, Berkeley, Calif.
Filed April 14, 1943. Serial No. 459,874. PUBLISHED JUNE 1, 1943. Class 22.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

402,794. (CLASS 38. PRINTS AND PUBLICATIONS.) DELL PUBLISHING COMPANY, INC., New York, N. Y.
Filed Nov. 2, 1942. Serial No. 456,588.

ALL-FACT
DETECTIVE

FOR MAGAZINE PUBLISHED PERIODICALLY—NAMELY, MONTHLY.
Claims use since Mar. 17, 1942.

402,795. (CLASS 47. WINES.) ITALIAN VINEYARD COMPANY, Los Angeles, Calif. Filed June 15, 1942. Serial No. 453,672.



FOR WINES.
Claims use since June 2, 1942.

402,796. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) THE FRANKLIN COUNTY DISTILLING COMPANY, INC., Bardstown, Ky. Filed June 5, 1942. Serial No. 453,490.

THE PEAK OF PERFECTION

FOR WHISKEY.
Claims use since May 26, 1942.

402,797. (CLASS 38. PRINTS AND PUBLICATIONS.) THE DE LUXE CLOCK & MFG. CO., INC., New York, N. Y.
Filed May 29, 1942. Serial No. 453,365.



FOR FRAMED PICTURES.
Claims use since Mar. 20, 1942.

402,798. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) JULES JACKSON CO., INC., New York, N. Y. Filed May 19, 1942. Serial No. 453,110.

Quirl

FOR COMBS WHICH BOTH COMB AND CURL.
Claims use since May 11, 1942.

402,799. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) CAMEO VINEYARDS CO., Fresno, Calif. Filed Mar. 25, 1942. Serial No. 451,887.

CROIX ROYALE

BERNADOTTE

FOR LIQUEURS AND CORDIALS.
Claims use since Mar. 17, 1942.

402,800. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) POND'S EXTRACT COMPANY, New York, N. Y. Filed Feb. 11, 1942. Serial No. 450,905.

Cheeks

FOR ROUGE COMPACTS.
Claims use since Nov. 25, 1941.

402,801. (CLASS 38. PRINTS AND PUBLICATIONS.) HEARST CONSOLIDATED PUBLICATIONS, INC., Los Angeles, Calif. Filed May 15, 1941. Serial No. 443,604.



FOR A PICTORIAL SECTION OF A NEWSPAPER, MAGAZINE OR THE LIKE.
Claims use since Mar. 30, 1941.

402,802. (CLASS 15. OILS AND GREASES.) THE PURE OIL COMPANY, Chicago, Ill. Filed Mar 17, 1941. Serial No. 441,632.

GAS LIGHT

FOR GASOLINE, FUEL OIL, AND BURNING OIL FOR HEATING AND LIGHTING PURPOSES.
Claims use since Jan. 1, 1930.

402,803. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) GENERAL CABLE CORPORATION, New York, N. Y. Filed Mar. 31, 1938. Serial No. 404,704.

SUPERSHEATH

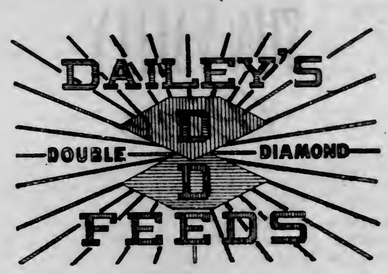
FOR INSULATED ELECTRICAL WIRES AND CABLES.
Claims use since Jan. 18, 1938.

402,804. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) JACK I. ELLERSTEIN, New York, N. Y. Filed May 18, 1943. Serial No. 460,693.

"Hold your hat!"
Sallye-Dean

FOR HAT PINS MADE OF MATERIAL OTHER THAN PRECIOUS METALS.
Claims use since May 1942.

402,805. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DAILEY MILLS, INC., Binghamton, N. Y.
Filed Apr. 29, 1943. Serial No. 460,256.



FOR LIVESTOCK AND POULTRY FEEDS—NAMELY, SUPER HATCH PRODUCER, SUPER ALL MASH BREEDER PRODUCTS, BATTERY LAY MASH, SUPER LAYING MASH, SUPER ALL MASH LAYER, EGG PRODUCER MASH, SUPER STARTING MASH, SUPER STARTER AND GROWER, REVITALIZER MASH, SPECIAL PIG AND HOG RATION, RECLEANED HEAVY WHITE POULTRY OATS, GROUND OATS, CRUSHED OATS HEAVY, GROUND CORN AND OAT CHOP, WHEAT AND BARLEY, CRACKED CORN AND WHEAT, GROWING GRAINS, SUPER GROWING MASH, RANGE GROWING MASH, TURKEY STARTING MASH, TURKEY GROWING MASH, STARTER BROILER MASH, ALL MASH BROILER, BODY PRODUCER PELLETS, SPECIAL SUPERFAT MASH, ECONOMIZER LAYING MASH, ECONOMIZER GROWING MASH, TEST RATION, HORSE FEED, PORK PRODUCER, GOAT AND KID RATION, RECLEANED OATS, CRUSHED OATS, PULVERIZED OATS, RECLEANED BARLEY, SCRATCH GRAIN, BABY CHICK GRAINS, AND PIGEON FEED.
Claims use since January 1940.

402,806. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) R. U. DELAPENHA & CO. INC., New York, N. Y.
Filed May 17, 1943. Serial No. 460,666.

CORRÉA RIBEIRO



FOR BRANDY.
Claims use since Sept. 9, 1941.

402,807. (CLASS 38. PRINTS AND PUBLICATIONS.) MARION BLODGETT, New York, N. Y. Filed Mar. 24, 1943. Serial No. 459,293.

American Viewpoint

FOR A MAGAZINE.
Claims use since Nov. 1, 1941.

402,808. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) SCHRATZ, INC., Detroit, Mich. Filed Mar. 22, 1943. Serial No. 459,272.

SUN VALLEY *Pine*

FOR TOILET AND BATH DETERGENT PREPARATIONS—NAMELY, SOAPS AND CLEANSING WATER SOFTENING PREPARATIONS HAVING OILS AND PERFUMES MIXED WITH A SAPONACEOUS INGREDIENT AND/OR SULPHONATED CASTOR OIL.
Claims use since Oct. 6, 1941.

402,809. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE THEW SHOVEL COMPANY, Lorain, Ohio. Filed Mar. 8, 1943. Serial No. 458,974.

THEW

FOR POWER CRANES, POWER SHOVELS, AND POWER DRAGLINE MACHINES.
Claims use since 1900.

402,810. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) JACK I. ELLERSTEIN-CHAS. A. GERBER CORP., New York, N. Y. Filed Dec. 26, 1942. Serial No. 457,606.

Cov-a-Pin

FOR HAT PINS IN THE NATURE OF HAT TRIMMINGS.
Claims use since May 1942.

402,811. (CLASS 38. PRINTS AND PUBLICATIONS.) ROBERT FREUND, doing business as The Twin Editions. New York, N. Y. Filed Dec. 3, 1942. Serial No. 457,196.

TWIN-PRINT

FOR COLOR PRINTS.
Claims use since February 1942.

402,812. (CLASS 38. PRINTS AND PUBLICATIONS.) DELL PUBLISHING COMPANY, INC., New York, N. Y. Filed Nov. 2, 1942. Serial No. 456,593.

SCREEN ALBUM

FOR A PRINTED PUBLICATION PERIODICALLY ISSUED—NAMELY, QUARTERLY.
Claims use since Jan. 9, 1931.

TRADE-MARK REGISTRATIONS RENEWED

23,455. **"BADGER" AND DRAWING.** RUBBER GOODS, LEATHER GOODS, AND WATER PROOF OILED FABRICS. Registered August 8, 1893. GOODYEAR RUBBER COMPANY, New York, N. Y. Re-renewed August 8, 1943, to The Goodyear Rubber Company, Middletown, Conn., a corporation of Connecticut, assignee.

23,456. **"PIONEER" AND DRAWING.** RUBBER GOODS, LEATHER GOODS, AND WATER PROOF OILED FABRICS. Registered August 8, 1893. GOODYEAR RUBBER COMPANY, New York, N. Y. Re-renewed August 8, 1943, to The Goodyear Rubber Company, Middletown, Conn., a corporation of Connecticut, assignee.

23,791. **THAT'S MEAT AND DRINK TO ME.** MALT EXTRACT AND OTHER FOOD FOR INFANTS AND INVALIDS. Registered November 7, 1893. HORLICKS FOOD COMPANY. Re-renewed November 7, 1943, to Horlick's Malted Milk Corporation, Racine, Wis., a corporation of Delaware, assignee.

152,263. **ORCO.** CHEESE. Registered February 21, 1922. OTTO ROTH. Renewed February 21, 1942, to Otto Roth & Co., Inc., New York, N. Y., a corporation of New York, successor.

167,694. **"COKER'S" AND DRAWING.** FARM AND GARDEN SEEDS. Registered May 8, 1923. PEDIGREED SEED COMPANY. Renewed May 8, 1943, to Coker's Pedigreed Seed Company, Hartsville, S. C., a corporation of South Carolina, by change of name.

167,873. **HEATOVENT.** COMBINED HEATER AND VENTILATOR. Registered May 8, 1923. THE COLUMBUS HEATING & VENTILATING COMPANY, doing business as Buckeye Blower Company, Columbus, Ohio. Renewed May 8, 1943, to John J. Nesbitt, Inc., Philadelphia, Pa., a corporation of Pennsylvania, successor.

169,285. **BLUE FEATHER.** CANNED SARDINES. Registered June 12, 1923. FRANK H. FROMM, doing business as F. H. Fromm & Company, Philadelphia, Pa. Renewed June 12, 1943, to Frank H. Fromm, New York, N. Y.

169,488. **CONQUEROR.** CANNED FRUITS AND VEGETABLES. Registered June 19, 1923. CHARLES G. SUMMERS & CO. INC., assignors, by mesne assignments, to The Torsch-Summers Co. Renewed June 19, 1943, to The Torsch Canning Company, Baltimore, Md., a corporation of Maryland, successor.

169,494. **'DE LUXE.** GARTERS AND ARM BANDS. Registered June 19, 1923. STURM & SCHEINBERG. Renewed June 19, 1943, to Sturm & Scheinberg, Incorporated, New York, N. Y., a corporation of New York, assignee.

170,001. **QUICK LUNCH.** CANDY. Registered July 10, 1923. NEW ENGLAND CONFECTIONERY COMPANY, Boston, Mass. Renewed July 10, 1943, to New England Confectionery Company, Cambridge, Mass., a corporation of Massachusetts.

170,098. **"OHIO" AND DRAWING.** GAS RANGES, GAS HEATERS, COAL RANGES, COAL HEATERS, AND COMBINATION COAL AND GAS RANGES. Registered July 10, 1923. A. H. TINNERMAN, doing business as Tinnerman Stove & Range Co. Renewed July 10, 1943, to Tinnerman Products, Inc., Cleveland, Ohio, a corporation of Ohio, assignee.

170,513. **LOBELLINE.** COUGH MIXTURE FOR HUMAN USE. Registered July 17, 1923. SQUIRE AND CO. BIRMINGHAM LIMITED, Stirchley, Birmingham, England. Renewed July 17, 1943, to Taylors (Cash Chemists) Midland, Limited, Leeds, England, a corporation of the United Kingdom of Great Britain and Northern Ireland, by change of name.

170,594. **FILTER-CEL.** MATERIAL FOR ARRESTING AND SEPARATING IMPURITIES OR OTHER MATTER FROM FLUIDS. Registered July 17, 1923. CELITE PRODUCTS COMPANY, Los Angeles, Calif., and New York, N. Y. Renewed July 17, 1943, to Johns-Manville Corporation, New York, N. Y., a corporation of New York, assignee.

170,622. **AGRINITE.** FERTILIZER. Registered July 17, 1923. THE AMERICAN AGRICULTURAL CHEMICAL COMPANY. Renewed July 17, 1943, to The American Agricultural Chemical Company, New York, N. Y., a corporation of Delaware, assignee.

171,349. **"FOX" AND DRAWING.** PAINT BRUSHES. Registered August 7, 1923. W. T. GRANT COMPANY, Lynn, Mass. and New York, N. Y. Renewed August 7, 1943, to W. T. Grant Company, New York, N. Y., a corporation of Delaware, assignee.

171,484. **SHOCK INSULATED.** MOTOR BUSSES. Registered August 7, 1923. INTERNATIONAL MOTOR COMPANY. Renewed August 7, 1943, to Mack Manufacturing Corporation, New York, N. Y., a corporation of Delaware, by change of name.

171,504. **SHOCK INSULATOR.** METAL PARTS FOR CUSHIONED CONNECTIONS IN VEHICLES. Registered August 7, 1923. INTERNATIONAL MOTOR COMPANY. Renewed August 7, 1943, to Mack Manufacturing Corporation, New York, N. Y., a corporation of Delaware, by change of name.

171,506. **"ODJ" AND DRAWING.** COIN-CONTROLLED MACHINES. Registered August 7, 1923. O. D. JENNINGS AND COMPANY. Renewed August 7, 1943, O. D. Jennings & Company, Chicago, Ill., a corporation of Illinois, assignee.

171,507. **SHOCK INSULATOR.** CUSHIONED CONNECTIONS FOR USE IN VEHICLES. Registered August 7, 1923. INTERNATIONAL MOTOR COMPANY. Renewed August 7, 1943, to Mack Manufacturing Corporation, New York, N. Y., a corporation of Delaware, by change of name.

171,627. **TOYLAND.** PEANUT BUTTER. Registered August 7, 1923. E. K. POND COMPANY. Renewed August 7, 1943, to Derby Foods, Inc., Chicago, Ill., a corporation of Illinois, by change of name.

171,808. **PLUMBALUN.** CAST METAL HAVING A SURFACE LAYER OF HARD GRANULAR MINERAL ELEMENTS AND USED FOR AGITATING OR STIRRING MATERIAL AND FOR OTHER PURPOSES. Registered August 14, 1923. AMERICAN ABRASIVE METALS COMPANY, New York, N. Y., a corporation of New York. Renewed August 14, 1943.

171,835. **TEXTOLITE.** NONMETALLIC GEAR WHEELS AND GEAR-WHEEL BLANKS. Registered August 14, 1923. GENERAL ELECTRIC COMPANY, Schenectady, N. Y., a corporation of New York. Renewed August 14, 1943.

171,842. **MOON-YEEN.** CERTAIN NAMED ARTICLES OF CLOTHING FOR WOMEN. Registered August 14, 1923. LASKIN BROTHERS. Renewed August 14, 1943, to Laskin Brothers, Inc., Philadelphia, Pa., a corporation of Pennsylvania, assignee.

171,977. **904 GINGHAM.** COTTON GOODS IN THE PIECE. Registered August 21, 1923. LORRAINE MANUFACTURING COMPANY, Pawtucket, R. I. Renewed August 21, 1943, to Lorraine Manufacturing Company, Pawtucket, R. I., and New York, N. Y., a corporation of Rhode Island.

172,019. **PHOENIX.** ICE AND REFRIGERATING MACHINERY, AMMONIA COMPRESSORS, RECEIVERS AND CONDENSERS, PIPE COILS, AND AMMONIA FITTINGS. Registered August 21, 1923. THE PHOENIX ICE MACHINE CO. Renewed August 21, 1943, to The Phoenix Machine Company, Cleveland, Ohio, a corporation of Ohio, by change of name.

172,367. **"WHIZ" AND DRAWING.** ELECTRIC MOTORS. Registered August 28, 1923. GENERAL ELECTRIC COMPANY, Schenectady, N. Y., a corporation of New York. Renewed August 28, 1943.

172,640. **WILCO.** CANNED VEGETABLES, CANNED MILK, CATCHUP, FLAVORING EXTRACTS FOR FOODS, AND MINCEMEAT. Registered September 11, 1923. D. S. WILLIAMS, doing business as Williams Brothers & Company. Renewed September 11, 1943, to Williams Brothers & Co., Wilkes-Barre, Pa., a firm, successor.

172,719. **VINCO.** HERB TABLETS FOR THE STOMACH, LIVER, BOWELS, AND BLOOD. Registered September 11, 1923. SHERMAN D. CLEGG, doing business as Vinco Herb Company, Dayton, Ohio. Renewed September 11, 1943, to Edwin R. Clegg, doing business as Vinco Herb Company, Lafayette, Ind., assignee.

172,897. **"C THRU" AND DRAWING.** WINDOW ENVELOPES. Registered September 11, 1923. WOLF BROTHERS, Philadelphia, Pa., a firm. Renewed September 11, 1943.

172,932. **BLACK DIAMOND.** SPICES, BIRD SEED, BIRD FOOD, SEASONING HERBS, AND TAPIOCA. Registered September 11, 1923. ARCHIBALD & LEWIS COMPANY. Renewed September 11, 1943, to Archibald & Kendall, Inc., New York, N. Y., a corporation of New York, assignee by mesne assignments.

173,829. **SURCHEMCO.** CHEMICAL PREPARATION FOR BLEACHING MATERIAL. Registered October 2, 1923. SURPASS CHEMICAL CO. INC., Albany, N. Y., a corporation of New York. Renewed October 2, 1943.

174,127. **FINTEX.** CLOTH AND STUFFS OF WOOL AND WORSTED. Registered October 2, 1923. PENDLE & RIVETT LIMITED, London, England, organized company of Great Britain. Renewed October 2, 1943.

174,443. **LINO-NU.** DECORATING OUTFITS COMPRISING VARNISH, COLORING MATTER, BRUSHES, AND SPONGES. Registered October 16, 1923. THE R. F. JOHNSTON PAINT COMPANY, Cincinnati, Ohio. Renewed October 16, 1943, to The Foy Paint Company, Inc., Norwood, Cincinnati, Ohio, a corporation of Ohio, assignee.

174,775. **BUSY BEE.** CANDY AND CAKES. Registered October 23, 1923. BUSY BEE CANDY COMPANY, St. Louis, Mo., a corporation of Missouri. Renewed October 23, 1943.

174,861. **PINE-O-CIDE.** DISINFECTANT. Registered October 23, 1923. NEWTON S. HILLYARD, doing business as Hillyard Chemical Company. Renewed October 23, 1943, to Hillyard Chemical Company, St. Joseph, Mo., a corporation of Missouri, assignee by mesne assignments.

174,957. **KENLASTIC.** KNITTED ELASTIC FABRIC IN THE PIECE. Registered October 30, 1923. JAMES R. KENDRICK CO. INC., Philadelphia, Pa., a corporation of Pennsylvania. Renewed October 30, 1943.

175,002. **"MARATHON" AND DRAWING.** HOSIERY. Registered October 30, 1923. E. M. TOWNSEND & CO. Renewed October 30, 1943, to Townsend, Stricker & Co., New York, N. Y., a firm, assignee by mesne assignments.

175,130. **"TRACKLESS" AND DRAWING.** FLOOR DRESSING. Registered October 30, 1923. NEWTON S. HILLYARD, doing business as Hillyard Chemical Company. Renewed October 30, 1943, to Hillyard Chemical Company, St. Joseph, Mo., a corporation of Missouri, assignee by mesne assignments.

175,173. **INLAI.** WOVEN, KNITTED, NETTED, TEXTILE, AND PILE FABRICS IN THE PIECE COMPRISED IN WHOLE OR IN PART OF SILK. Registered October 30, 1923. CHENEY BROTHERS, South Manchester, Conn. Renewed October 30, 1943, to Cheney Brothers, South Manchester, Conn., and New York, N. Y., a corporation of Connecticut.

175,184. **ARGUS.** HOSIERY. Registered October 30, 1923. JOSEPH C. BOSSONG, New York, N. Y. Renewed October 30, 1943.

175,568. **BUXTON'S.** COMPOUND FOR TREATING RHEUMATISM. Registered November 6, 1923. DAVID H. BUXTON, doing business as Buxton Rheumatic Medicine Co. Renewed November 6, 1943, to Hope Buxton, doing business as Buxton Medicine Company, Abbot Village, Maine, successor.

175,654. **STAR.** SULPHUR. Registered November 6, 1923. SAN FRANCISCO SULPHUR CO. Renewed November 6, 1943, to Stauffer Chemical Company, San Francisco, Calif., a corporation of California, assignee.

175,765. **"WEARTEX" AND DRAWING.** CERTAIN NAMED ARTICLES OF CLOTHING FOR MEN, WOMEN AND CHILDREN. Registered November 13, 1923. THE MEYER-WISE & KAICHEN COMPANY, Cincinnati, Ohio. Renewed November 13, 1943, to Cohen, Goldman & Co., Inc., New York, N. Y., a corporation of New York, assignee.

175,843. **"NA-ALD" AND DRAWING.** CERTAIN NAMED PARTS FOR RADIO APPARATUS. Registered November 13, 1923. ALDEN MANUFACTURING COMPANY, Springfield, Mass. Renewed November 13, 1943, to Alden Products Company, Brockton, Mass., a corporation of Massachusetts, assignee by mesne assignments.

175,871. **SAVON MINON.** SOAPS. Registered November 13, 1923. LIGHTFOOT SCHULTZ COMPANY, Hoboken, N. J. Renewed November 13, 1943, to Lightfoot Schultz Company, New York, N. Y., and Hoboken, N. J., a corporation of New York.

176,023. **CELASTIC.** BOOT AND SHOE TIPS AND COUNTERS. Registered November 13, 1923. GEO. E. KEITH COMPANY, Brockton, Mass. Renewed November 13, 1943, to The Celastic Corporation, Wilmington, Del., and Arlington, N. J., a corporation of Delaware, assignee by mesne assignments.

176,160. **"MARY ADAMS" AND DRAWING.** SHOES MADE WHOLLY OR IN PART OF LEATHER. Registered November 20, 1923. THE HARPER & KIRSCHTEN SHOE CO., Chicago, Ill., a corporation of Illinois. Renewed November 20, 1943.

176,178. **ANTEVITA.** MEDICINE FOR DISEASES PECULIAR TO FEMALES. Registered November 20, 1923. A. O. SCHMIDT, doing business as A. O. Schmidt Co. Renewed November 20, 1943, to Helen M. Schmidt, trading as A. O. Schmidt Company, San Francisco, Calif., successor.

176,180. **DAISY FARM.** EGGS. Registered November 20, 1923. GUDE BROTHERS, KIEFFER CO., New York, N. Y., a corporation of New York. Renewed November 20, 1943.

176,181. **DAISY.** EGGS. Registered November 20, 1923. GUDE BROTHERS, KIEFFER CO., New York, N. Y., a corporation of New York. Renewed November 20, 1943.

176,183. **REPRESENTATION OF A FARM SCENE.** EGGS. Registered November 20, 1923. GUDE BROTHERS, KIEFFER CO., New York, N. Y., a corporation of New York. Renewed November 20, 1943.

176,435. **SNOW FLAKE.** PAPER WADDING. Registered November 27, 1923. AMERICAN LACE PAPER COMPANY, Milwaukee, Wis., a corporation of Wisconsin. Renewed November 27, 1943.

176,506. **VITAMINERAL.** CATTLE, SWINE, DAIRY, AND POULTRY FEED. Registered November 27, 1923. ALBERT T. PETERS, doing business as Vitamineral Products Co. Renewed November 27, 1943, to Paul S. Casey, doing business as Vitamineral Products Co., Peoria, Ill., successor.

176,580. **DOTTY DELITE.** CAKE AND CAKE MIX. Registered November 27, 1923. JOE LOWE CO. INC., Brooklyn, N. Y. Renewed November 27, 1943, to Joe Lowe Corporation, New York, N. Y., a corporation of Delaware, assignee.

176,641. **"SLIPPERINE" AND DRAWING.** FLOOR POLISH IN THE NATURE OF POWDERED WAX. Registered November 27, 1923. WILLIAM KINNELL PETRIE. Renewed November 27, 1943, to Lavapine, Limited, Dundee, Scotland, a United Kingdom Corporation, assignee.

176,715. **GULF KIST.** CANNED SHRIMP. Registered November 27, 1923. DORGAN-MCPHILLIPS SALES CO. INC., Mobile, Ala. Renewed November 27, 1943, to Southern Shell Fish Company, Inc., Harvey, La., a corproation of Louisiana, assignee by mesne assignments.

176,727. **"SUNSWEET" AND DRAWING.** SALAD AND COOKING OILS, MACAROON PASTE, AND DE-AMYGDALINIZED KERNELS OF FRUIT PITS, CRYSTALLIZED FRUIT CANDIES, MELONS, FRESH AND DEHYDRATED VEGETABLES. Registered November 27, 1923. CALIFORNIA PRUNE & APRICOT GROWERS, INC., assignor to California Prune & Apricot Growers Association. Renewed November 27, 1943, to California Prune and Apricot Growers Association, San Jose, Calif., a corporation of California, assignee.

176,728. **ELECTROVOX.** PRINTED PUBLICATION ISSUED MONTHLY. Registered November 27, 1923. CHARLESTON ELECTRICAL SUPPLY COMPANY, Charleston, W. Va., a corporation of West Virginia. Renewed November 27, 1943.

176,749. **LILY BROOK.** CHEESE, CANNED FRESH AND EVAPORATED MILK, AND CANNED FRESH AND EVAPORATED CREAM. Registered November 27, 1923. LILY BROOK FARMS, INC., Buffalo, N. Y. Renewed November 27, 1943, to Lily Brook Farms, Inc., Bowmansville, N. Y., a corporation of New York.

176,754. **"PFO" AND DRAWING.** HORSE, POULTRY, HOG, AND DAIRY FEEDS. Registered November 27, 1923. G. FRED OBRECHT, doing business as P. Fred'k Obrecht & Son, Baltimore, Md. Renewed November 27, 1943.

176,844. **BORDER FORMED BY REPRESENTATIONS OF A CALF.** PREPARED STOCK FEED. Registered December 4, 1923. ARCADY FARMS MILLING COMPANY, Chicago, Ill., a corporation of Illinois. Renewed December 4, 1943.

176,964. **O-HOW-GOOD.** FRESH CITROUS FRUITS. Registered December 11, 1923. ARTHUR G. MADDOCK. Renewed December 11, 1943, to Duarte Foothill Citrus Association, Duarte, Calif., a corporation of California, assignee.

176,970. **"BUSTER BROWN" AND DRAWING.** BOYS' AND GIRLS' LEATHER, CANVAS, AND CLOTH SHOES. Registered December 11, 1923. BROWN SHOE COMPANY, INC., St. Louis, Mo., a corporation of New York. Renewed December 11, 1943.

177,000. **NICKEL-PLATE.** POULTRY AND STOCK FEED. Registered December 11, 1923. THE NICKEL PLATE ELEVATOR COMPANY, Cleveland, Ohio, a corporation of Ohio. Renewed December 11, 1943.

177,035. **EST SUPREME.** CONFECTIONERY—NAMELY, CHOCOLATES. Registered December 11, 1923. BUNTE BROTHERS, Chicago, Ill., a corporation of Illinois. Renewed December 11, 1943.

177,037. **"ZION" AND DRAWING.** MERCERIZED AND PLAIN COTTON THREAD. Registered December 11, 1923. AARON J. ROTHSTEIN, doing business as Triangle Thread Mills, New York, N. Y. Renewed December 11, 1943.

177,039. **GONG.** SOUPS, AND PREPARATIONS FOR MAKING SOUPS. Registered December 11, 1923. OXO, LIMITED, London, England, a United Kingdom corporation. Renewed December 11, 1943.

177,118. **"FLY'S" AND DRAWING.** WORK CLOTHING—NAMELY, OVERALLS, COATS, WORK PANTS, AND WORK SHIRTS. Registered December 11, 1923. JOEL ORVAL FLY, doing business as The Fly Manufacturing Co., Shelbyville, Tenn. Renewed December 11, 1943.

177,162. **"JOAN OF ARC" AND DRAWING.** CANNED VEGETABLES. Registered December 11, 1923. THE ILLINOIS CANNING COMPANY, Hoopeston, Ill., a corporation of Illinois. Renewed December 11, 1943.

177,163. **"OUR DARLING" AND DRAWING.** CANNED CORN. Registered December 11, 1923. THE ILLINOIS CANNING COMPANY, Hoopeston, Ill., a corporation of Illinois. Renewed December 11, 1943.

177,174. **FRENCH MAID.** COFFEE. Registered December 11, 1923. CAUCHOIS COFFEE COMPANY, New York, N. Y., a corporation of New York. Renewed December 11, 1943.

177,225. **"PENNANT" AND DRAWING.** OLEO, OLEO OIL, AND SHORTENING. Registered December 11, 1923. CONSOLIDATED RENDERING COMPANY, Boston, Mass., a corporation of Maine. Renewed December 11, 1943.

177,230. **POPSICLE.** LOLLYPOPS. Registered December 11, 1923. THE POPSICLE CORPORATION. Renewed December 11, 1943, to Joe Lowe Corporation, New York, N. Y., a corporation of Delaware, assignee by mesne assignments.

177,238. **GYPSY.** DYES. Registered December 11, 1923. GYPSY DYES, INC., Chicago, Ill., a corporation of Illinois. Renewed December 11, 1943.

177,244. **VELVET.** SULPHUR. Registered December 11, 1923. SAN FRANCISCO SULPHUR CO. Renewed December 11, 1943, to Stauffer Chemical Company, San Francisco, Calif., a corporation of California, assignee.

REISSUES

AUGUST 10, 1943

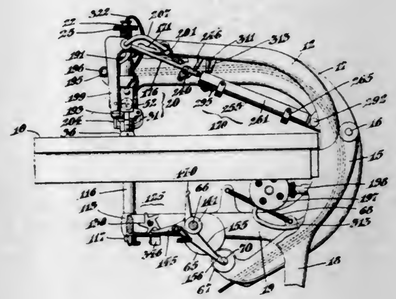
22,362

METHOD AND MEANS FOR APPLYING LABELLIKE ELEMENTS TO ARTICLES OF MANUFACTURE

Fred Autem, Mount Penn, Pa., assignor to Textile Machine Works, Wyomissing, Pa., a corporation of Pennsylvania

Original No. 2,265,769, dated December 9, 1941, Serial No. 236,386, October 22, 1938. Application for reissue June 2, 1942, Serial No. 445,448

38 Claims. (Cl. 216—55)



1. A machine of the character described having a magazine arranged to hold a stack of labels treated with heat softened adhesive, a heated platen, and means, including a pivotally mounted transfer head and a presser head, arranged to draw a label from said stack and to press it against an article on said heated platen to affix the label to the article.

22,363

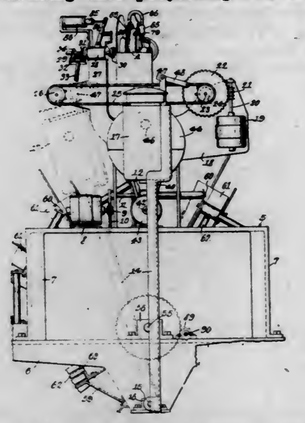
AUTOMATIC MOTION PICTURE MACHINE

Arthur W. Miller, Albany, and John H. McMahon, El Cerrito, Calif.

Original No. 2,239,241, dated April 22, 1941, Serial No. 306,386, November 27, 1939. Application for reissue September 6, 1941, Serial No. 409,904

14 Claims. (Cl. 88—24)

1. In a motion picture machine, a frame, a picture screen supported on the frame, a stator and rotor mounted on the frame in front of said picture screen, a movable arm forming a part of the stator, a projector housing secured to the free end of the movable arm, radiating arms mounted on the rotor, independently operable picture-projecting units at the free ends of the radiating arms, means for selectively moving the arms and picture-projecting units into operative projecting relation with respect to the screen, and means for moving said movable arm and projector housing into projecting relation with



respect to the picture-projecting units and screen.

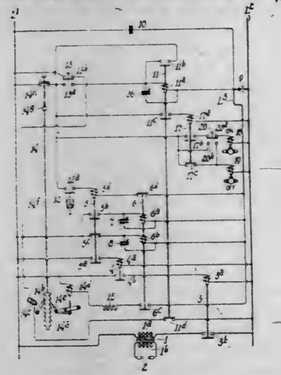
22,364

CIRCUIT CONTROLLER

Carroll Stansbury, Chevy Chase, Md., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware

Original No. 2,216,329, dated October 1, 1940, Serial No. 205,492, May 2, 1938. Application for reissue June 13, 1942, Serial No. 446,910

14 Claims. (Cl. 219—4)

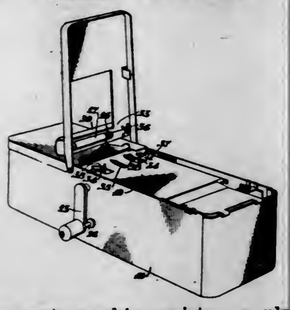


6. A control system for an electric welder having electrodes adapted to be clamped against the work and to transmit current through the work to perform the welding operation, comprising means for initiating the pressing of said electrodes against work to be welded, means for periodically energizing said welding electrodes, means for counting the number of impulses transmitted to the electrodes, and means for discontinuing the current impulses after a predetermined number have been transmitted, said counting means being readily adjustable to selectively vary the number of impulses transmitted.

PATENTS

GRANTED AUGUST 10, 1943

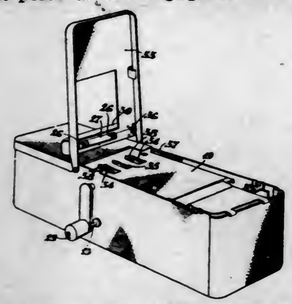
2,326,108
AUTOGRAPHIC REGISTER
Harry J. Waechter, Mount Healthy, Ohio, assignor to Paul Benninghofen and Fritz G. Diesbach, Hamilton, Ohio, as trustees
Application February 20, 1941, Serial No. 379,849
7 Claims. (Cl. 282—16)



1. In an autographic register, a platen over which superimposed continuous strips of paper forms are adapted to be moved, sets of rolls engaging the strips therebetween, said strips including three apertures in each form thereof, one located centrally of the strips and slightly ahead of the other two, and the other two located adjacent the respective edge margins of the strips, certain of said sets of feed rolls engaging the strips in alignment with the apertures along the edge margins of the strips, one roll of each of said last-named sets including a periphery having a tread portion, extending part of the distance around the roll, and a relieved portion, a pin carried by said latter roll, projecting radially from the roll and adapted to engage the apertures just prior to the engagement of the tread portion of the roll therewith, and another set of said feed rolls constituting compensating rolls located centrally of the machine, said rolls engaging the strips in alignment with the central apertures, one of said compensating rolls including a tread portion and a relieved portion, said tread portion extending substantially entirely around the roll and starting at a point corresponding to the point at which the tread portions start on the first-named feed rolls whereby after the first-named feed rolls have advanced the strips a certain distance, the compensating roll continues to engage the strips and feeds them until the central apertures are disposed between the compensating rolls and the rolls engage through the apertures for purposes of alignment.

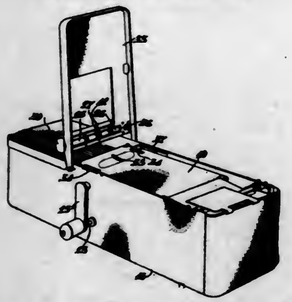
2,326,109
AUTOGRAPHIC REGISTER
Harry J. Waechter, Mount Healthy, Ohio, assignor to Paul Benninghofen and Fritz G. Diesbach, Hamilton, Ohio, as trustees
Application February 20, 1941, Serial No. 379,850
7 Claims. (Cl. 282—16)

1. In an autographic register, a platen over which superimposed continuous strips of forms are adapted to be moved, sets of rolls engaging the strips therebetween, said strips including three apertures in each form thereof disposed across the forms, the central aperture being larger than the outer two, certain of said sets of feed rolls engaging the strips in alignment with the outer apertures, one roll of each of said last-named sets including a periphery having a tread portion extending part of the distance around the roll and a relieved portion, a pin carried by said latter roll, projecting radially from the roll and adapted to engage the apertures just prior to the engagement of the tread



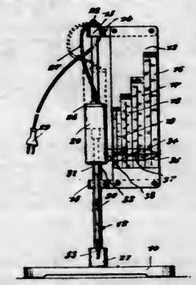
portion of the roll therewith, and a set of compensating rolls located centrally of the machine, said rolls engaging the strips in alignment with the large central aperture, whereby after the feed rolls have advanced the strips a certain distance, the compensating roll continues to engage the strips and feeds them until the large central aperture is disposed between the compensating rolls and the rolls engage through the apertures for purposes of alignment.

2,326,110
AUTOGRAPHIC REGISTER
Harry J. Waechter, Mount Healthy, Ohio, assignor to Paul Benninghofen and Fritz G. Diesbach, Hamilton, Ohio, as trustees
Application February 20, 1941, Serial No. 379,851
7 Claims. (Cl. 282—16)



1. In an autographic register, a platen over which continuous strips of sales forms are adapted to be fed, said sales forms including feeding and aligning apertures located centrally of the width of the strips at the head end of each form, upper and lower feeding rolls between and by means of which said strips are adapted to be fed, one lower roll engaging the strips centrally in alignment with the apertures and including a continuous tread portion with the exception of a recessed portion, a starting pin extending radially from said recessed portion and adapted to engage in the apertures for aligning the same, the outer lower rolls adapted to engage the side edges of the strips and including short tread portions disposed for engagement with the strips just ahead of engagement of the strips by the tread portion of the central roll, said outer rolls including cams on their peripheries adapted to spread the rolls for relieving the strips of contact as the pin enters the apertures.

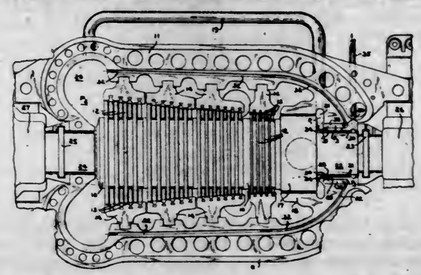
2,326,111
INSTRUMENT FOR MEASURING LIQUIDS
Louis G. Zachos, Atlanta, Ga.
Application March 20, 1941, Serial No. 384,393
3 Claims. (Cl. 33—126.7)



1. A device for determining the heighth of the surface of the liquid in a container of known capacity, comprising a base adapted to support a container, a vertical standard mounted upon the base in offset relation with respect to a container adapted to be supported by the base, a scale supported upon the standard and laterally thereof, a light-containing housing slidably supported upon the standard forwardly and laterally of the scale, means for locking the light-supporting housing in a set position upon the standard, a transparent laterally extending indicator mounted for movement with the housing and overlying the scale, a depending light-transmitting element carried by the housing and adapted to extend into a receptacle for contact with liquid poured into the receptacle, the housing having an opening through which light rays are projected, said opening being located to direct light rays toward the indicator and scale, and the light-transmitting element being adapted to transmit rays to the surface of liquid within a container whereby light rays will automatically flicker and spread over the top of the liquid in the container when the liquid contacts with the lower end of said light-transmitting element.

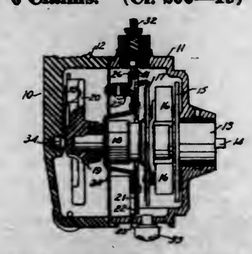
2,326,112
TURBINE APPARATUS
Eric A. Zetterquist, Drexel Hill, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 11, 1941, Serial No. 418,634
2 Claims. (Cl. 253—69)

1. In a steam turbine, a cylinder; a rotor; cooperating blading carried by the cylinder and by the rotor; a dummy piston and ring construction at the high-pressure end of the turbine; a bearing at the high-pressure end of the turbine; a gland arrangement between the dummy construction and the bearing and including a steam gland; said steam gland comprising a rotor portion, a ring portion carried by the cylinder and cooperating with the rotor portion to define a gland sealing space of annular section, and labyrinth sealing means distributed along said sealing space for sealing the latter; said turbine having a first space between the dummy construction and the gland arrangement and a second or exhaust space; an equilibrium passage connecting said first and second spaces; and a passage for supply-



ing steam from the second or exhaust space to a region of the gland sealing space near to the end of the latter opening into the first space with some of said labyrinth sealing means intervening between the region and said first space to assure of a gland pressure at the region lower than the pressure in said second or exhaust space in order that the gland leakage may be largely satisfied by steam supplied to the region from the second or exhaust space.

2,326,113
DISTRIBUTOR
Emil Zoerlein and Johannes E. Hoffmann, Dearborn, Mich., assignors to Ford Motor Company, Dearborn, Mich., a corporation of Delaware
Application September 20, 1941, Serial No. 411,642
6 Claims. (Cl. 200—19)

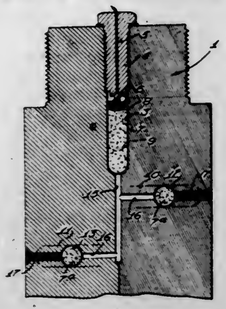


1. An internal-combustion engine distributor, comprising, a housing, a cover, a shaft journaled in said housing, support means rotatably mounted within said housing, said means carrying the distributor breaker arm assembly, a bearing bracket secured to said means and extending therefrom toward said cover, said bracket serving as an outer journal for said shaft.

2,326,114
GUN PERFORATOR
Arthur J. Zschokke, Huntington Park, Calif., assignor to Lane-Wells Company, Los Angeles, Calif., a corporation of Delaware
Application December 8, 1941, Serial No. 422,088
8 Claims. (Cl. 164—0.5)

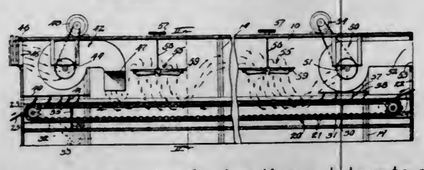
1. A gun perforator comprising: a gun body having radially directed axially displaced gun bores, a cartridge chamber having an axially extending cartridge receiving portion intersecting

at least one of said gun bores, other cartridge chambers, each having laterally disposed cartridge receiving portions for the other of said gun bores, said cartridge-receiving portions de-



fining with their respective gun bores planes which are normal to the axis of the gun body, and ignition passages connecting said cartridge bores.

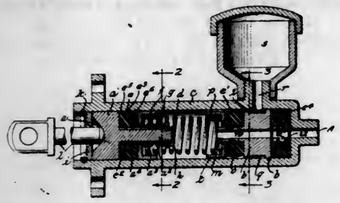
2,326,115
POTATO DRYING APPARATUS
Alexander F. Arthur, Homestead, Fla., assignor, by mesne assignments, to Frederick C. Peters, Miami Beach, Fla.
Application December 16, 1940, Serial No. 370,304
3 Claims. (Cl. 34—226)



1. In an apparatus for treating potatoes to aid in preventing soft rot, means for conveying the potatoes through a predefined area, said area including a single length longitudinal path, air impelling means including a blower for subjecting the potatoes in said area to a blast of air of relatively high velocity, means for heating said air to a temperature in excess of 100° F. and short of that which would cook the potatoes to evaporate the moisture from the skins of the potatoes by skin drying the potatoes, and additional impelling means for directing said heated air in a longitudinal undulating movement to and about the potatoes being conveyed whereby to retard the passage of the air through the path and to increase the duration thereof in the path and whereby the evaporation of moisture from the potatoes is utilized to preclude undue heating of the starchy body thereof while the heat acts upon the outer cells of the potatoes as they are dried, said impelling means moving the air through said area in an opposite direction to that in which the potatoes are conveyed by said conveying means so that said potatoes are subjected to the hottest air at the potato discharge end of the area.

2,326,116
HYDRAULIC PRESSURE TRANSMISSION SYSTEM
Philip Sidney Baldwin, Florence, Italy; vested in the Alien Property Custodian
Application May 11, 1940, Serial No. 334,661
19 Claims. (Cl. 60—54.6)

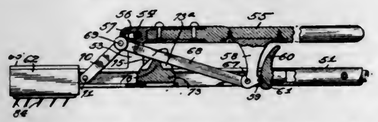
1. A hydraulic pressure transmission system comprising a master cylinder, a reserve tank in communication therewith, opposed pistons mounted in the cylinder and yieldably held in spaced relation to each other; resilient, expansible packings for the pistons, one of the pistons functioning as a prime mover and the other piston as a valve member to control communication with the reserve tank, the packing of the prime mover piston being expanded radially by mechanical means into permanent partial contact with the cylinder wall, the packing of the valve piston being initially completely spaced from the cylinder, the said packings being further expanded radially by mechanical and hydraulic pressure into sealing contact with the cylinder wall, the



said pressure increasing progressively with the compression stroke of the prime mover piston.

7. A hydraulic pressure transmission system comprising a master cylinder, a reserve tank in communication therewith, a port connecting said reservoir and cylinder, a piston and a valve in said cylinder, said valve comprising a resilient expansible packing which is disposed between said port and said piston and which is normally spaced from the cylinder wall, said packing being expanded and contracted, respectively, into and out of contact with the cylinder wall in response to the reciprocal movements of the piston in the cylinder.

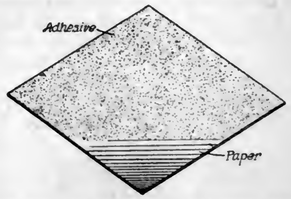
2,326,117
CARPET STRETCHER
Justin D. Bartlow, Long Beach, Calif., assignor to Jesse C. Owens, Los Angeles, Calif.
Application August 4, 1941, Serial No. 405,339
7 Claims. (Cl. 254—62)



1. In a carpet stretcher, an extensible member, a frame on the forward portion of said extensible member, a housing on the forward end of said member, a prong carrying plate positioned within said housing, a handle fulcrummed on said frame, links pivotally connected to and arranged between said handle and said housing and a block adjustably arranged within said frame and providing a fulcrum for one of said links.

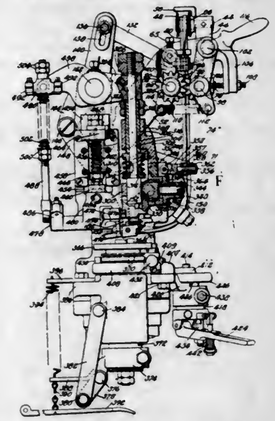
2,326,118
PREGUMMED HANGING MATERIAL
Hans F. Bauer, Chicago, Jordan V. Bauer, Elmwood Park, and Don M. Hawley, Geneva, Ill., assignors to Stein, Hall Manufacturing Company, Chicago, Ill., a corporation of Delaware
Application October 4, 1940, Serial No. 359,696
6 Claims. (Cl. 117—122)

3. A pre-gummed hanging material comprising a coating of a remoistening adhesive formed from an amylaceous conversion product by roasting an incompletely dextrinized starch conversion product having a substantial cold water solubility less than about 50% under substantially non-gelatinizing conditions with an aldehyde



compound selected from the group consisting of formaldehyde, paraformaldehyde and acetaldehyde at temperatures within the range of about 300° F. to 340° F. until the product obtained swells and forms short, soft pastes in cold water.

2,326,119
INSOLE MACHINE
Frederic E. Bertrand, Lynn, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application March 8, 1941, Serial No. 382,399
59 Claims. (Cl. 12—20)



1. In a machine for applying a ribbed strip to insoles to form a sewing rib thereon, the combination of a rotary table for supporting the insole, means for feeding the insole, a strip guide, means carried by the guide for feeding the strip, and means for pressing the strip on the insole.

2,326,120
METAL COATING COMPOSITION
George M. Black, Cleveland Heights, Ohio
No Drawing. Application March 21, 1940, Serial No. 325,187
12 Claims. (Cl. 106—219)

1. A composition of matter capable of adhering to a metal surface coated with a lubricant and of producing a hard durable film when applied to such surfaces and heated at a temperature of from 300° to 600° Fahrenheit and comprising from 8% to 60% of a chromium soap and a solvent for said soap including a mixture of resin acids and higher fatty acids in sufficient proportion to dissolve said soap, said fatty acids being of the type present in or derived from fats, vegetable oils and wood and said composition being free from inflammable ingredients which are volatile at normal temperatures and from ingredients which cause a film formed from said composition at said temperature to chip or crack when subjected to expansion, contraction or percussion.

2,326,121
PREPARATION OF COMPOSITE FABRIC
Joseph E. Bludworth, Cumberland, Md., assignor to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application May 10, 1940, Serial No. 334,361
13 Claims. (Cl. 117—143)

1. In a process for preparing laminating fabric for adhesively uniting the components in a composite fabric, wherein a fabric containing yarns of thermoplastic textile material is coated with a plasticizer for said material and the coated fabric is aged for at least five days, the steps of wetting the aged fabric with a liquid alcoholic swelling agent for said material which is a solvent for the plasticizer, and ageing the fabric for a further period of at least one day.

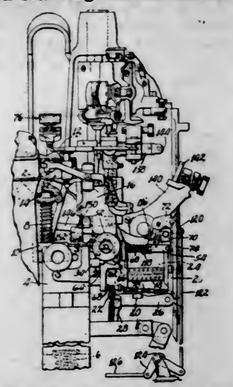
2,326,122
RECOVERY OF PHENOL IN GAS PURIFICATION SYSTEMS
William E. Chalfant, Upper Darby, and Henry F. McConomy, Philadelphia, Pa., assignors to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania
Application September 22, 1939, Serial No. 296,002
3 Claims. (Cl. 23—3)

1. A process for removing H_2S from hydrocarbon gases, which comprises scrubbing the gases with an alkali metal phenolate solution in an absorption zone, removing the phenolate solution from the lower section of said zone, regenerating said solution to drive off the H_2S, recycling the regenerated solution to the absorption zone, further washing the hydrocarbon gases with water in the upper section of said absorption zone at an elevated temperature such that the phenol entrained in said gases is rendered sufficiently soluble in the water to extract it from the hydrocarbon gases, removing the resultant aqueous solution of phenol from the upper section of said absorption zone, cooling said aqueous solution to a temperature sufficiently low so that upon introduction thereof into a settling zone two immiscible phases are formed, one comprising concentrated phenol and the other comprising water containing a minor quantity of phenol, separating the concentrated phenol phase from the aqueous phase, returning the concentrated phenol phase to the alkali metal phenolate solution, and returning the aqueous phase to the washing operation aforesaid.

2,326,123
LASTING MACHINE
Theodore P. Courchene, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application August 3, 1942, Serial No. 453,310
12 Claims. (Cl. 12—12)

1. In a power-operated lasting machine, the combination with a shoe support, of lasting means having a normal range of movement from an initial retracted position into position for operating on a shoe on said support, means for starting the power operation of the machine, and mech-

anism for preventing the starting of the machine by said starting means unless said lasting



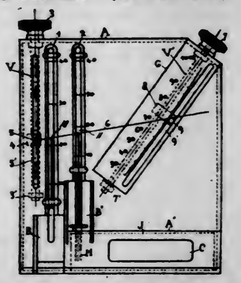
means has received substantially the full positioning movement thus provided for.

2,326,124

PSYCHROMETER

Jules Crapez, Mons-en-Baroeul, France; vested in the Alien Property Custodian

Application July 7, 1939, Serial No. 283,196
In France July 16, 1938
4 Claims. (Cl. 73—338)



3. A direct reading psychrometer comprising in combination a support, a dry bulb thermometer and a wet bulb thermometer both of the mercury type spaced parallel to each other and mounted on said support, a hygrometer scale on said support, a rod or equivalent member, two sliders, on one of which said rod or equivalent member is pivotally mounted while the other acts as a rest, a vertical guide and an obliquely inclined guide for said two sliders, and separate screw means for adjusting the positions of said two sliders to align said rod or equivalent member with the tops of the thermometer columns, the hygrometer scale being so related to the rectilinear rod when in registry with the meniscuses of the indicating columns of the thermometers that the rod intersects the scale to give a correct reading of the hygrometric state of the atmosphere being measured.

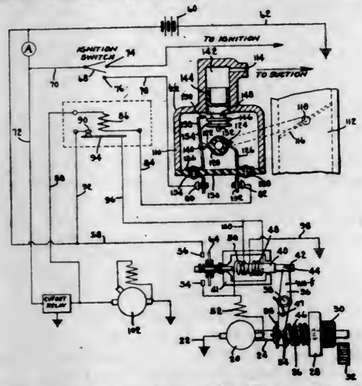
2,326,125

ENGINE STARTING APPARATUS

Lawrence C. Dermond, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application August 4, 1940, Serial No. 351,303
24 Claims. (Cl. 290—38)

1. In a starting apparatus for internal combustion engines having a starting motor, a current source, a circuit for connecting said motor and current source, a control switch for controlling said circuit, manually operable means for operating the switch, means operable by the engine for controlling the effectiveness of said manually operable means, said last named means normally occupying a position to render the



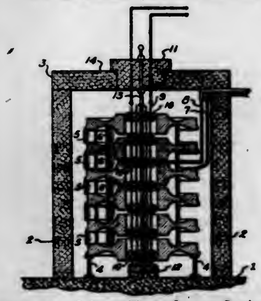
manually operable means effective and movable by the engine when the latter starts to run to render the manually operable means ineffective, and means other than the manually operable means for preventing any movement of the engine operated means as long as the control switch is closed.

2,326,126

METHOD OF HEAT-TREATING CAR WHEELS AND THE LIKE

Ralph B. Dimmick, Butler, Pa., assignor to The American Rolling Mill Company, Middletown, Ohio, a corporation of Ohio

Continuation of application Serial No. 239,691, November 9, 1938. This application May 4, 1940, Serial No. 333,355
11 Claims. (Cl. 148—13)



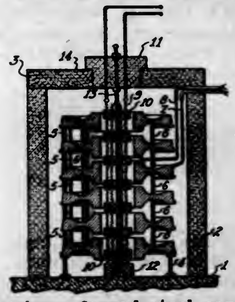
1. A process of treating forged steel car wheels which comprises heating said wheels to a temperature above the critical range, uniformly quenching said wheels, placing said wheels in an insulated space and inserting in the bores of said wheels a heating element, whereby to raise the hub portions of said wheels to a temperature sufficient to soften them and to relieve internal stresses throughout the wheels, and to spheroidize the cementite therein, to that degree at least which would result from heating said hub portion for two hours at 1050° F. and whereby to heat the rim portions of said wheels by conduction primarily from said hubs to a temperature for a draw to give to said rims a hardness suitable for service.

2,326,127

FORGED CAR WHEEL

Ralph B. Dimmick, Butler, Pa., assignor to The American Rolling Mill Company, Middletown, Ohio, a corporation of Ohio

Continuation of application Serial No. 239,691, November 9, 1938, and a division of application Serial No. 333,355, May 4, 1940. This application January 22, 1942, Serial No. 427,727
5 Claims. (Cl. 295—30)



1. A low stress forged steel car wheel of integral character and uniform composition throughout, comprising a hub, a plate, and a rim, said wheel being characterized by a spheroidized cementite structure in the hub portion thereof, and by a fine lamellar pearlite structure in the plate and rim portions thereof.

2,326,128

PRODUCTION OF COMPOSITE FABRIC

Camille Dreyfus, New York, N. Y., and George Schneider, Montclair, N. J., assignors to Celanese Corporation of America, a corporation of Delaware

No Drawing. Application May 1, 1940, Serial No. 332,734
12 Claims. (Cl. 117—122)

1. Process for preparing a laminating fabric for adhesively uniting the components in a composite fabric, which comprises applying to a fabric containing yarns of an organic derivative of cellulose and cellulose yarns a water-insoluble plasticizer for the organic derivative of cellulose in the presence of water, and drying the treated fabric to remove substantially all of the water therefrom.

2,326,129

CONTAINER

George C. Erb, Forest Hills, N. Y., assignor to American Can Company, New York, N. Y., a corporation of New Jersey

Application September 12, 1939, Serial No. 294,555
1 Claim. (Cl. 220—43)



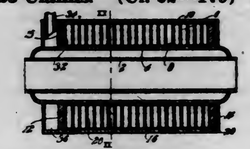
A hinge cover tablet box and the like, comprising a rectangular body member having upstanding front, rear and side walls with their top edges substantially in a single plane, a rectangular cover member having depending walls telescoping over said body walls and connected by a top wall, said cover top wall at its junction with the depending cover side wall being bent downwardly towards the top edge of the body side wall from a point adjacent the rear corner of the box cover towards the longitudinal center of the box to provide a gradually curved fulcrum shoulder which merges into a straight line of contact between cover top wall and top edge of the body side wall when the box is closed, and a floating hinge connection between the rear walls of said members permitting vertical movement between said hingedly connected members, whereby a pinching pressure applied to either rear corner of the members releases said straight line contact and rocks the cover member along said gradually curved shoulder upon the top edge of the body side wall to initially separate the respective front walls of said members and raise said cover into open position.

2,326,130

REFRIGERATOR

Nils Erland af Kleen, Stockholm, Sweden

Application July 22, 1939, Serial No. 286,011
In Sweden November 21, 1938
23 Claims. (Cl. 62—179)



4. The method of charging a boiler absorber of an absorption refrigerating system operating with dry absorbents having the characteristic of swelling upon taking up the refrigerating agent, which consists in placing in said boiler absorber 4–8 gram molecules of water-free absorbent pulverized so finely as to provide a mass of sufficient volume to occupy 60 to 95% of each liter of net volume of the boiler absorber, whereby from 40% to 5%, respectively of the net volume of said boiler absorber is left free to allow said salt to swell upon the first absorption of the refrigerating agent.

2,326,131

CLEAR VISION STEERING WHEEL

Emanuel Eschelbacher, New York, N. Y.

Application April 23, 1942, Serial No. 440,181
7 Claims. (Cl. 74—493)



1. In a steering column having a stationary tubular casing through which the steering shaft passes, a rim type steering wheel keyed on said shaft and slidable for a short distance thereon and having the front section of its rim pivotally mounted to hinge downwards, means for holding said front section of the rim of said steering wheel in its raised normal position, and means for hinging said front section of the rim of said steering wheel downwards upon moving said steering wheel downwards.

2,326,132

METHOD OF MAKING COTTAGE CHEESE

Ernest D. Fear, Kansas City, Mo., assignor of thirty per cent to Irving E. Fear and twenty per cent to Helendoris Murphy, both of Kansas City, Mo.

No Drawing. Application February 15, 1939, Serial No. 256,507
5 Claims. (Cl. 99—116)

1. A process of making cheese including the

steps of adding an alkaline agent selected from the class consisting of calcium and magnesium hydroxides to milk from which the cheese is to be made in sufficient quantity to bring the hydrogen ion concentration of the milk to a pH value between 6.6 and 7.4, and then coagulating the casein of the milk by the aid of an enzymic coagulating agent.

2,326,133

METHOD OF MAKING CHEESE

Ernest D. Fear, Kansas City, Mo., assignor of thirty per cent to Irving E. Fear and twenty per cent to Helendoris Murphy, both of Kansas City, Mo.

No Drawing. Application March 6, 1940, Serial No. 322,508

7 Claims. (Cl. 99—116)

1. A method of making cheese including the steps of pasteurizing milk, neutralizing the milk with an agent selected from a class consisting of calcium oxide and magnesium oxide, adding a lactic acid producing starter to the milk, coagulating the milk with a coagulating agent, cooking the curd, cutting the curd, cheddaring the curd, milling the curd, salting the curd, pressing the curd, and then dressing the cheese.

2,326,134

MANUFACTURE OF BAKED GOODS

Jacob Freilich, Bronx, and Charles N. Frey, Scarsdale, N. Y., assignors to Standard Brands Incorporated, New York, N. Y., a corporation of Delaware

No Drawing. Application December 15, 1939, Serial No. 309,346

6 Claims. (Cl. 99—90)

1. A method for the production of baked goods leavened without yeast, which comprises admixing flour, water and other ingredients to form a dough, the amount of water being sufficient to give an absorption of 54 to 66%, in the presence of carbon dioxide under a pressure of from about 20 to about 60 lbs. at a temperature of 60 to 90° F., and then baking substantially immediately.

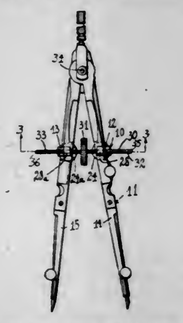
2,326,135

REMOVABLE ADJUSTING ATTACHMENT FOR DRAWING COMPASSES AND THE LIKE

Hugo Friedmann, Astoria, N. Y.

Application June 17, 1942, Serial No. 447,354

6 Claims. (Cl. 33—154)



1. In an adjusting and setting attachment for drawing and measuring instruments, like compasses and dividers, having two joined legs, and a rod having opposite threads at its two sides from about its center, whereby to cause said legs to move closer to or further away from one another, a U shaped member embracing each leg, means to removably secure one of the flanges of the U in each member on the respective leg, and oppositely screw threaded openings in said members for the respective threads of said rod.

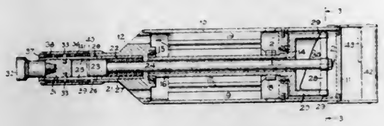
2,326,136

PERCUSSION TOOL

David L. Garrett, Denver, Colo.

Application January 24, 1942, Serial No. 428,026

9 Claims. (Cl. 172—36)



1. A percussion tool comprising, an electric motor having a hollow driven shaft, an impact assembly reciprocable axially of said shaft, spring means normally and yieldably urging said impact assembly outwardly of said shaft in one direction, and cam means engaging with said impact assembly and operable as an incident of motor shaft rotation to intermittently retract said assembly against the pressure of said spring.

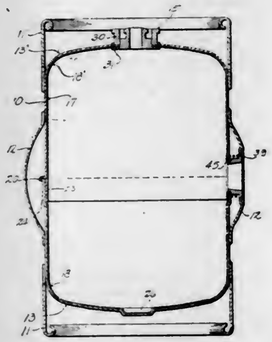
2,326,137

DOUBLE WALLED CONTAINER

Fredrick Gettelman, Milwaukee, Wis.

Application March 22, 1939, Serial No. 263,380

7 Claims. (Cl. 220—63)



1. A barrel comprising an inner container having light, flexible copper walls incapable of supporting their form under load, an access fitting hermetically connected with one of said walls and provided with an opening with which said wall has an aperture in communication, and a supporting housing having rigid form-sustaining walls in intimate contact with said copper walls substantially throughout their extent and provided with an opening in immediate proximity to the copper wall through which said access fitting extends free of direct connection with said form sustaining walls, said fitting being provided with means independently connecting it mechanically with the walls of said housing elsewhere than in immediate proximity to the hermetic connection between said fitting and copper wall and providing for slight relative movement at the aforesaid opening in the form-sustaining wall.

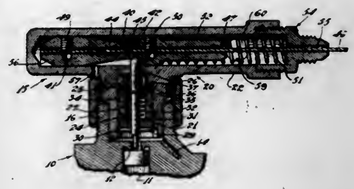
2,326,138

CONTROL HEAD

Harry C. Grant, Jr., New York, N. Y., assignor to Specialties Development Corporation, Bloomfield, N. J., a corporation of New Jersey

Application August 20, 1941, Serial No. 407,605

7 Claims. (Cl. 74—110)



1. A control head comprising a body; a casing on said body provided with a bore closed at one end and open at its other end; a cap attached to said casing at said open end; a member adapted to be operated having one end thereof extending into the bore of said casing; means for urging said member toward the bore; a plunger positioned in the bore of said casing for slidable movement therein, having a flange acting as a guide portion for said plunger and providing a pair of shoulders one of which is adapted to abut the end of said member extending into the bore of said casing, a second guide portion, and a cam portion intermediate said guide portions adapted to operate said member; and a spring having one end abutting the other shoulder of said flange and having its other end abutting said cap for urging the first shoulder of said flange against the end of said member extending into the bore of said casing.

2,326,139

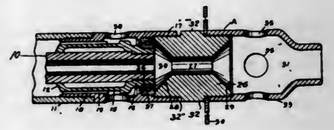
GUN BARREL MOUNTING

Samuel G. Green, Gray, Ga.

Application July 8, 1940, Serial No. 344,368

17 Claims. (Cl. 89—14)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a weapon comprising a recoil barrel, a barrel jacket surrounding the barrel, a tubular member secured to the jacket in axial prolongation thereof, a bearing on said tubular member being formed to receive the barrel in accurately fitted bearing relation rearwardly of the muzzle end of the barrel, cooperating broaching rings secured to the barrel and tubular member forwardly of said bearing and having a working clearance of one to four times the clearance of the bearing, means on the tubular member forming an acceleration chamber adjacent the muzzle end of said barrel, and means in said tubular member establishing communication between the atmosphere and the accelerating chamber upon the recoil of the barrel and intermediate said bearing and broaching rings.

2,326,140

LUBRICANT

Felix C. Gzemski, Philadelphia, Pa., assignor to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania

No Drawing. Application February 20, 1940, Serial No. 319,841

12 Claims. (Cl. 252—53)

1. A hydrocarbon oil composition comprising a relatively large proportion of a refined hydrocarbon oil normally tending to deteriorate by oxidation under normal conditions of use and in intimate admixture therewith a relatively small amount sufficient to inhibit such deterioration, of an oil-soluble, water-insoluble reaction product of an ester of phosphorous acid and a relatively high boiling aliphatic alcohol, said reaction product containing at least one and not more than two aliphatic radicals corresponding to said high boiling alcohol.

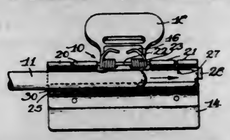
2,326,141

ELECTRIC HOME PERMANENT WAVER

Frank G. Hall, Chicago, Ill.

Application February 7, 1942, Serial No. 429,865

6 Claims. (Cl. 219—24)



1. In a hair waving apparatus, an elongated clamp having a pair of spring-pressed metallic jaws hinged on a longitudinal axis, and having a transverse partition extending between said jaws adjacent the hinged axis thereof to form a longitudinally extending socket open at one end, and an elongated, handled holding member including a heating element adapted for detachable fitting engagement in said socket in direct heat-conducting relation with said partition member and said jaws.

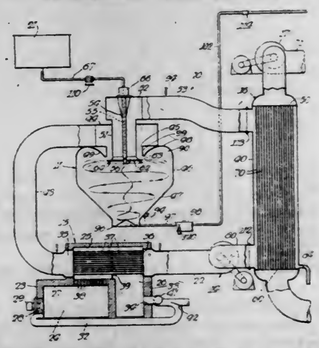
2,326,142

METHOD OF AND APPARATUS FOR CONCENTRATING LIQUID PRODUCTS

Joseph M. Hall, Chicago, Ill., assignor to Drying & Concentrating Company, a corporation of Delaware

Application February 7, 1940, Serial No. 317,722

11 Claims. (Cl. 159—17)



1. A method of concentrating a liquid product which comprises discharging the product in the form of a spray into a spirally moving current of heated air for evaporating a portion of the mois-

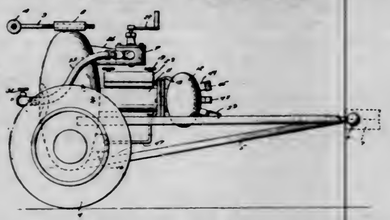
ture of said product to form a concentrate, transferring a portion of the heat of said heated air to another volume of air, causing the last-named air to move spirally into a second stage evaporator chamber, spraying said concentrate into said last-named spirally moving air, and removing the concentrate from said second-stage evaporator.

2,326,143
SELF-SEALING DETACHABLE COUPLING
George H. Hufferd, Detroit, Mich., assignor to Thompson Products Incorporated, Cleveland, Ohio, a corporation of Ohio
Application March 31, 1941, Serial No. 386,074
15 Claims. (Cl. 284—4)



1. A coupling comprising a pair of complementary parts having ports therein for fluid flow therethrough, a multi-piece valve rotatably mounted in both of said parts to detachably connect the same, and means retaining a piece of said valve in each part for sealing the ports when the parts are disconnected.

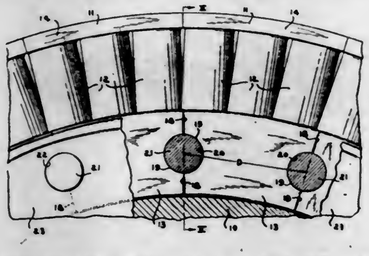
2,326,144
MEASURING VESSEL
Francis Carroll Johnston, Visalia, Calif.
Application May 15, 1941, Serial No. 393,634
3 Claims. (Cl. 73—166)



1. In a device of the class described, a vessel, a tubular neck rising from the top of the vessel, means for introducing fluid into the vessel, means of draining the fluid from the vessel, a sight gauge carried by and in communication with the neck, and a vapor dome detachably connected with the upper end of the neck and provided with a nipple adapted to be closed by a cap or to have a hose connected therewith and a pressure gauge in communication with the dome, and thermometer receive wells in the vessel and in the dome.

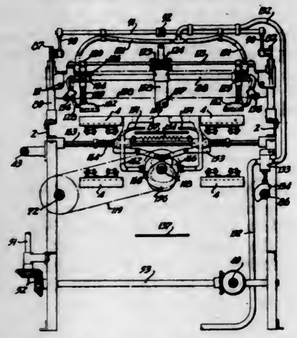
2,326,145
TURBINE BLADE FASTENING
Reinout P. Kroon, Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 18, 1941, Serial No. 383,995
6 Claims. (Cl. 253—77)

1. In a turbine, a rotor having radial flanges provided with opposed and smooth faces defining a blade groove, a circumferential series of blade groups, each blade group including a plurality of blades and a unitary root portion integral with the inner ends of the latter, the root portions being disposed circumferentially in end-to-end relation in the groove and having smooth side faces arranged contiguously to said flange faces, each root portion having only one pair of openings formed therein with the openings located at the end face regions thereof, said flanges having openings formed therein and aligned with



the root portion openings, the aligned openings extending transversely of the flanges and of the groove and being arranged substantially parallel to the rotor axis, and pins extending through the aligned openings and serving to fasten the root portions to the flanges.

2,326,146
CANNING APPARATUS
Karl Kurzbin, Monterey, Calif.
Application May 2, 1939, Serial No. 271,286
6 Claims. (Cl. 226—14)

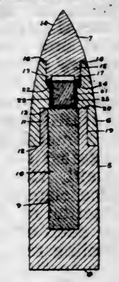


1. Apparatus for canning fish comprising means for positioning fish in a pack with end portions intermeshed over a can, means for lowering the intermeshed portions of the fish into the can, and means for conforming other portions of the fish to the can.

2,326,147
PROJECTILE
William J. Landen, Arlington, Va.
Application January 16, 1940, Serial No. 314,100
3 Claims. (Cl. 102—56)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

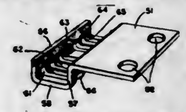
1. A projectile comprising a body part having a reduced front end, an explosive charge in the body, a neck part force fitted on the reduced front end of the body, said neck part having a counterbored recess from its front end to the front end of the body and providing an annular shoulder, a primer including a flanged cup inserted in the rear part of the counterbored recess with its flange seated on the annular shoulder thereof, an ogival head part having a reduced

portion force fitted in the front part of the counterbored recess in front of the primer and having



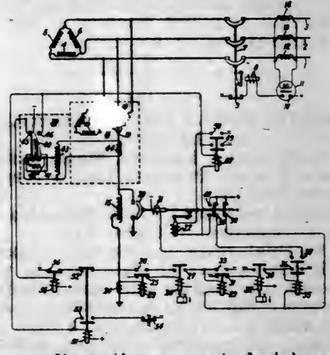
a shearable shoulder seated on the front face of the neck part.

2,326,148
SENSING APPARATUS
Edward S. Larson, Chicago, and Edwin J. Skeppstrom, Park Ridge, Ill., assignors to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Application March 3, 1941, Serial No. 381,416
11 Claims. (Cl. 178—17)



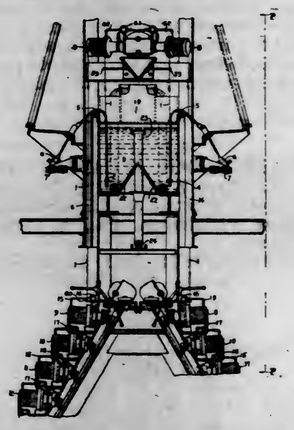
10. In a tape feeding mechanism, a plurality of bar members positioned adjacent the surface of the tape for supporting said tape during the feeding operation, said bar members being substantially parallel to the direction of travel of the tape and spaced apart with respect to each other.

2,326,149
PROTECTION OF ALTERNATING CURRENT ELECTRIC POWER SYSTEMS
Philip H. Light, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application April 24, 1942, Serial No. 440,277
12 Claims. (Cl. 175—294)



1. In an alternating current electric system of the type wherein a fault to ground on one phase conductor of the system substantially increases the capacitance current to ground of the ungrounded phase conductors of the system, a zero-sequence inductive connection to ground proportioned to provide on the occurrence of a ground on a phase conductor of the system a lagging current for effectively suppressing the capacitance current to ground at the grounded point and comprising inductive reactance means having windings respectively connected to the phase conductors of the system to provide a neutral point and a reactance device connected between said neutral point and ground and having a relatively high zero-sequence inductance compared to the zero-sequence inductance of said inductive reactance means, means for reducing the impedance of said inductive connection operative in dependence on the current flowing in the connection a predetermined time after the occurrence of a ground fault which is not suppressed by the lagging current flowing in the connection, means responsive to the increased flow of ground current in consequence of the reduction of the impedance of said inductive connection for effecting an interruption in the phase conductors of said system between the fault and the point of connection of said inductive reactance means to the system, means responsive in accordance with the heating of said inductive reactance means in consequence of the increased flow of ground current for restoring said inductive connection to its original inductive value within the current-time rating of said inductive reactance means whereby to prevent the destruction of the inductive reactance means in case of the failure of said increased ground current flow responsive means to function within said current-time rating, and means controlled by said heating responsive means for preventing a second reduction in the impedance of said inductive connection by said impedance reducing means when said increased ground current flow responsive means does not function.

2,326,150
MANUFACTURE OF THREAD OR THE LIKE
Robert D. MacLaurin, Bay Village, and Emerson B. Helm, Cleveland, Ohio, assignors to Industrial Rayon Corporation, Cleveland, Ohio, a corporation of Delaware
Application July 29, 1940, Serial No. 348,082
11 Claims. (Cl. 18—54)



1. In the process of manufacturing thread according to which thread is continuously but temporarily stored on a rotating thread-advancing device in the form of a helix characterized by a large number of turns under conditions such that substances carried by the thread tend to deposit on said thread-advancing device in the form of

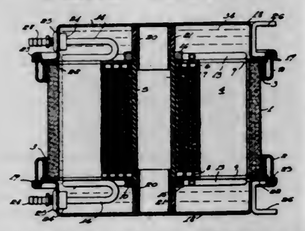
incrustations, the step of inhibiting the formation of such incrustations which comprises treating the thread on said thread-advancing device with an oleaginous substance.

2,326,151

WATER-COOLED CAPACITOR

Ralph E. Marbury, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application November 27, 1940, Serial No. 367,368
4 Claims. (Cl. 175—41)



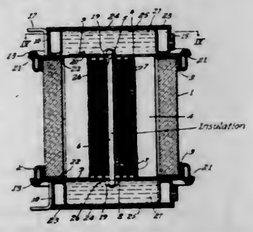
1. A capacitor unit comprising a generally cylindrical housing of insulating material, a capacitance element disposed in the housing, said capacitance element consisting of alternate layers of metallic foil and dielectric material with certain of the metallic foils extending beyond the dielectric layer at one side of the element and others of the foils extending beyond the dielectric layer at the other side of the element, a pair of circular metallic cooling plates placed one on each side of the capacitance element and clamped against it, each of said cooling plates having a plurality of generally radial slots therein, a cooling coil for the circulation of a liquid cooling medium secured to each of said cooling plates in the spaces between the slots, the extending foils of the capacitance element being permanently joined directly to the plates through at least some of said slots with connections of good thermal and electrical conductivity, and metal cover members closing each end of the housing and permanently sealed thereto, the ends of the cooling coils extending through the covers for the entrance and discharge of cooling medium and being secured thereto to provide electrical connection between the plates and the covers.

2,326,152

WATER-COOLED CAPACITOR

Ralph E. Marbury, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corportion of Pennsylvania

Application October 18, 1941, Serial No. 415,622
7 Claims. (Cl. 175—41)



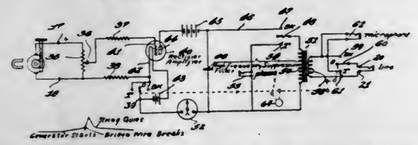
4. A capacitor unit having a generally cylindrical housing member of insulating material, a capacitance element disposed in the housing member, said capacitance element comprising alternate layers of metal foil and dielectric material, certain of the metal foils extending beyond the dielectric layers at one side of the capacitance element and others of the metal foils extending beyond the dielectric layers at the other side, and a cover assembly at each end of said housing member and sealed thereto, each of said assemblies including a metal plate, means for clamping said plate against the adjacent side of the capacitance element, the extending metal foils of the capacitance element being joined to the plate with a connection of good thermal and electrical conductivity, each of said cover assemblies also including cooling means joined to said metal plate with a connection of good thermal and electrical conductivity, said cooling means being adapted for the circulation of a liquid cooling medium therethrough, and each of said cover assemblies also having cover means for closing the end of the capacitor unit.

2,326,153

SEISMIC CIRCUIT

William Harry Mayne, San Antonio, Tex., assignor to Olive S. Petty, San Antonio, Tex.

Application March 13, 1940, Serial No. 323,828
9 Claims. (Cl. 177—352)



9. The combination with an electric seismometer, of a blasting circuit, said circuit comprising a source of direct current and the bridge wire of a blasting cap connected in series, a recording galvanometer connected to said seismometer, means associating said blasting circuit and said galvanometer so constructed and arranged that signal voltages induced in the blasting circuit at the time of "break" of the bridge wire may be so modified that they are transmitted to the galvanometer, said means including a thermionic amplifier for the signal voltages, a filter having a high capacity in the output of said amplifier, and means to limit the rate of discharge of said capacity through said wire in the event of a short circuit in said amplifier whereby it will not be heated to cap exploding temperature.

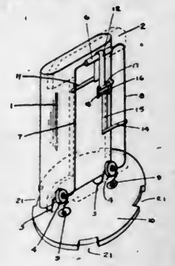
2,326,154

THERMAL RELAY FOR FLUORESCENT LAMPS

Henry J. McCarthy, Danvers, Mass., assignor to Sylvania Electric Products Inc., a corporation of Massachusetts

Application September 12, 1940, Serial No. 356,566
1 Claim. (Cl. 200—113)

In a thermal relay for electric gaseous discharge lamps: a pair of rigid lead-in wires; a relay means attached to said lead-in wires, said relay means comprising: a resistor, a contact of material such as carbon having a high contact resistance, a low resistance contact, a bimetallic strip electrically contacting said high resistance contact when said resistor is unenergized and in a position to be distorted by the heat developed in said high resistance contact when the latter passes current, and to open said contact when distorted sufficiently, said bimetallic strip also being so positioned as to be distorted by the heat developed in said resistor when the latter passes current and to short circuit said resistor by making contact with the low resistance contact, when distorted sufficiently; a mounting plate of insulating material on which said relay means is mounted through said lead-in wires, a condenser mounted through semi-flexible lead-in wires on said mounting plate on the side opposite the relay means, a base plate of insulating material to which said mounting plate is substantially perpendicular, a pair of contact pins extending from said base plate, said lead-in wires of said condenser extending through said mounting plate and base plate and into said base pins, a metal container enclosing said thermal relay and attached to said base plate and a tube of insulating paper wound around the inner walls of said container to insulate said container from said thermal relay.

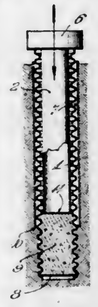


2,326,155

METHOD OF CONSTRUCTING PILES

Joseph F. McCook, Scarsdale, N. Y.

Application October 3, 1939, Serial No. 297,740
1 Claim. (Cl. 61—57)



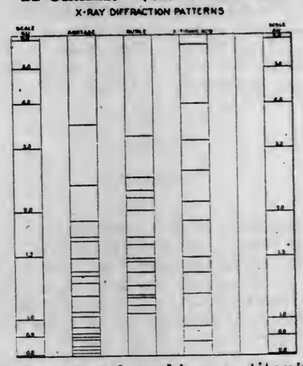
In a system for forming piles wherein a core-like ram and casing are driven into the earth, the ram withdrawn, and a shell having a concrete header therein lowered through the casing, the method of forming the pile which consists in driving the concrete header into the earth by blows delivered by said ram against the upper end of said concrete header within said shell through the casing to a distance in which the upper surface of the concrete header extends above the lower terminus of the casing for preventing direct exposure of the annular zone of said shell immediately adjacent the upper end of said concrete header to friction and abrasion against the earth, withdrawing the core-like ram, filling the shell with concrete extending from the upper surface of said concrete header through said shell and thereafter removing said casing and retaining the concrete filled shell pile in the earth.

2,326,156

PROCESS OF MAKING TITANIUM CONTAINING PIGMENTS

Andrew T. McCord, Collingswood, N. J., assignor to The Sherwin-Williams Company, a corporation of Ohio

Application August 1, 1940, Serial No. 349,345
11 Claims. (Cl. 106—300)



1. The process of making a titanium containing pigment, which includes the steps of forming a slurry of an extender and a titania hydrate both in solid form, in water containing a quantity of sulfuric acid in proportion of less than 2.47 H_2SO_4 to 1 part TiO_2 by weight, said hydrate showing on X-ray analysis the pattern characteristic of γ-titanic acid, boiling said slurry and separating the mixed solids from the acidified water.

2,326,157

ACTIVATED ANHYDRITE, PROCESS OF MAKING THE SAME, AND PRODUCT INCLUDING IT

Andrew T. McCord, Collingswood, and Harold F. Saunders, Haddonfield, N. J., assignors to The Sherwin-Williams Company, Cleveland, Ohio, a company of Ohio

No Drawing. Application December 17, 1940, Serial No. 370,486
15 Claims. (Cl. 106—306)

1. The process of making calcium sulphate in the anhydrite form, which includes reacting a calcium compound with strong sulphuric acid, said calcium compound being selected from the group consisting of calcium compounds which may be converted into the sulphate by sulphuric acid, and said sulphuric acid containing at least 0.1% and not to exceed 5% of a titanium compound selected from the group consisting of hydrous titanium oxide and compounds of titanium which will form hydrous titanium oxide under the conditions of the reaction between said calcium compounds and said sulphuric acid.

2,326,158

EXTENDED TITANIUM DIOXIDE PIGMENT

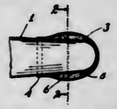
Andrew T. McCord and Harold F. Saunders, Haddonfield, N. J., assignors to The Sherwin-Williams Company, Cleveland, Ohio, a company of Ohio

No Drawing. Application October 23, 1942, Serial No. 463,081
7 Claims. (Cl. 106—300)

1. The process of forming an extended pigment composed essentially of titanium oxide in the rutile form and calcium sulphate in the an-

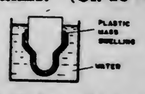
hydrite form, which includes boiling an ilmenite sulphuric acid solution containing a suspension of activated anhydrite, separating the solids from the liquid and calcining them at a temperature of 750° to 1,000° C.

2,326,159
FINGER STALL, CATHETER, SHEATH, OR THE LIKE
Alfred Mendel, New York, N. Y.
Application November 1, 1940, Serial No. 363,841
2 Claims. (Cl. 128—157)



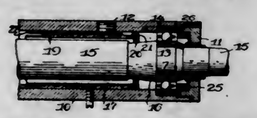
1. A surgical device comprising an elastic elongated body having a closed end, a layer of lubricating material encircling the body, and a covering surrounding the body to normally confine said layer, means for securing the covering to the body, said covering being removable to expose said layer.

2,326,160
MANUFACTURE OF ARTICLES FROM AQUEOUS RUBBER DISPERSIONS
Stephen B. Neiley, Winchester, and Emile E. Habib, Arlington, Mass., assignors to Dewey and Almy Chemical Company, North Cambridge, Mass., a corporation of Massachusetts
Application August 15, 1939, Serial No. 290,252
4 Claims. (Cl. 18—58)



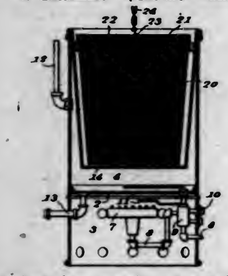
1. The method of depositing rubber of uniform thickness upon formers and of stripping the rubber deposit therefrom which comprises forming a plastic mixture of water, an active substance selected from the class of exhausters and rubber latex coagulants, and a hydrophilic colloid, coating the former with the mixture and immersing the coated former in an aqueous dispersion of rubber, swelling the colloid to loosen the rubber deposit and manipulating the former to shake the deposit therefrom.

2,326,161
OIL DISTRIBUTOR ASSEMBLY
James Holly Nelson, Racine, Wis., assignor to The Dumore Company, Racine, Wis., a corporation of Wisconsin
Application July 24, 1942, Serial No. 452,211
6 Claims. (Cl. 308—187)



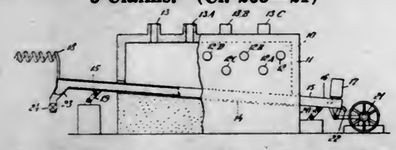
1. An oil distributor assembly for a rotatable spindle, comprising a tube of oil absorbent material, a liner therefor, said tube having a tab at one end extending beyond said liner, and a retainer cup fitting over the end of said tube and gripping said liner to hold said tube in place, said tab extending radially inward beneath said retainer cup with its end free to contact with said spindle.

2,326,162
APPARATUS FOR USE IN PREPARING POULTRY FOR THE MARKET
Vincent T. O'Connor, Revere, Mass., and Winfield C. Gardiner, Derry, N. H.
Application October 12, 1940, Serial No. 360,942
4 Claims. (Cl. 17—11.1)



1. Apparatus for use in preparing poultry for the market, said apparatus comprising a base, a water tank on said base having a water inlet and outlet, an adjustable thermostatically controlled heater in said base and a wax tank, said wax tank and said water tank being so shaped that said wax tank may be inserted in and supported by said water tank, the capacity of said water tank when said wax tank is supported therein being substantially less than the minimum amount of water needed when poultry are to be immersed therein, whereby the water may be brought to a relatively high temperature to melt said wax and its temperature reduced by the addition of sufficient water to permit the poultry to be immersed therein for semi-scalding.

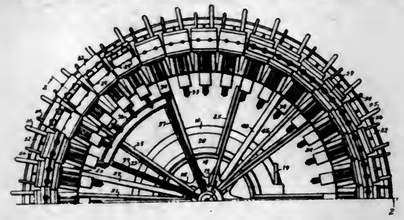
2,326,163
HEAT-TREATMENT APPARATUS
Raymond L. Patterson, New York, N. Y., assignor to Powder Metals and Alloys, Inc., New York, N. Y., a corporation of Delaware
Original application November 3, 1941, Serial No. 417,607. Divided and this application March 19, 1942, Serial No. 435,312
5 Claims. (Cl. 263—21)



1. In a furnace structure, the combination which comprises a furnace chamber, an inclined hearth passing through the furnace chamber, means for feeding solid finely divided material onto the lower end of the hearth, means for feeding a gaseous treating agent into the upper end of the hearth, means for imparting oscillations to the hearth to cause the solid material to move upwardly thereon, means for discharging a gaseous reaction product that is heavier than the gaseous treating agent from the lower end of the hearth, and means for discharging the treated solid material from the upward portion of the hearth.

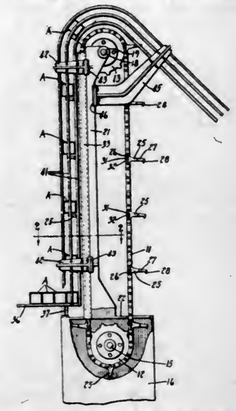
2,326,164
METAL-CASTING METHOD AND APPARATUS
Pearson M. Payne, Denver, Colo.
Application October 7, 1940, Serial No. 360,089
7 Claims. (Cl. 22—75)

1. The method of casting metal which consists of moving a gang of gated moulds along an upwardly-inclined path, providing a continuous pouring trough on the upper surface of said mould gang in heat-insulating communication through the mould gates, feeding molten metal to said trough for gravity flow therealong and consequent successive filling of progressively-lower moulds, and subsequently correlating the rate



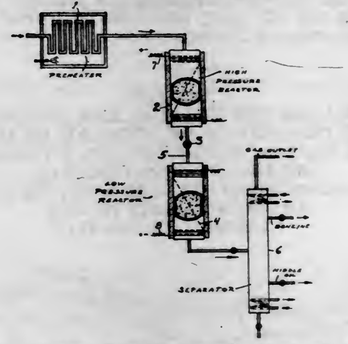
of metal flow with the speed of mould travel to maintain the point of mould filling well below the point of metal feed and at the lower end of a stream of molten metal in said trough whereunder the filled moulds travel for escape of gases and filling of shrinkage cavities during the cooling of their contents.

2,326,165
CONVEYER
Nicholas Pelosi, Newark, N. J., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application July 18, 1940, Serial No. 346,205
3 Claims. (Cl. 198—160)



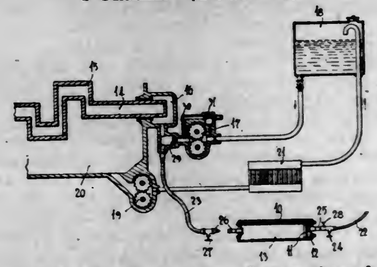
1. In a can elevator, the combination of a continuously movable endless conveyer having a straight vertical section and a connected curved section disposed above said vertical section, can retaining guide members also including a straight vertical section and a curved section respectively extending along and around said straight and curved conveyer sections and engageable with opposite sides of a can propelled by said conveyer, can carrying members disposed in spaced relation on said conveyer respectively for propelling rectangular cans in spaced relation along a predetermined connected straight and curved path of travel while the cans are retained between said straight and curved sections of the guide members, and rigid conical can engaging elements carried on and projecting laterally from said members and adapted to respectively engage against a can in point contact so that the cans may tilt on their longitudinal axes relative to said can engaging elements while being continuously propelled in spaced relation along the straight and curved conveyer sections without being crushed against said guide members.

2,326,166
PROCESS FOR THE PRODUCTION OF NON-KNOCKING MOTOR FUELS
Mathias Pier, Heidelberg, and Gerhard Free, Ludwigshafen-on-the-Rhine, Germany; vested in the Alien Property Custodian
Application July 26, 1939, Serial No. 286,564
In Germany July 27, 1938
3 Claims. (Cl. 196—49)



1. A process for the production of a non-knocking motor fuel which comprises passing all of a hydrocarbon fluid mainly boiling above 250° C. at a cracking temperature through two reaction zones in succession, maintaining a super-atmospheric pressure of about 10 atmospheres in said first reaction zone, thereby cracking the said fluid substantially by the action of temperature and pressure, reducing the pressure on the hydrocarbon fluid by at least about 5 atmospheres before passing it to said second reaction zone without substantially reducing the temperature, said last mentioned reaction zone containing a cracking catalyst, thereby further cracking said fluid substantially by the action of temperature and catalyst.

2,326,167
LUBRICATION OF AERO AND OTHER ENGINES
Emile Piquerez, Saint-Cloud, France; vested in the Alien Property Custodian
Application December 16, 1938, Serial No. 246,211
In France December 24, 1937
3 Claims. (Cl. 184—6)



1. In a lubricating system for engines having an oil pump and oil conduits connected with a crankshaft to be lubricated, a receptacle for hot oil, auxiliary means for heating the oil in said receptacle, said receptacle having an oil cham-

ber and a compressed gas chamber, means for connecting said oil chamber with said oil conduits, a source of compressed gas, means connecting the gas chamber of said receptacle with said source of compressed gas, means for opening the connection with the compressed gas source, whereby, before the engine starts, the oil in the oil chamber can be placed under higher pressure than the pressure produced by the oil pump so as to force the oil to the parts to be lubricated under pressure sufficiently high to overcome the resistance set up by congealed oil in the conduits, means for shutting off said compressed air, and means for opening said gas chamber to the atmosphere to allow hot oil to enter the oil chamber under the pressure generated by the oil pump after the oil in the lubricating system is heated.

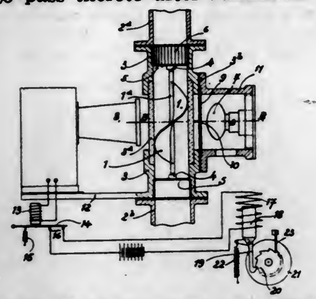
2,326,168
APPARATUS FOR TESTING AND INDICATING THE CONDITION OF VEHICLE BRAKES
Emile Piquerez, Saint-Cloud, France; vested in the Alien Property Custodian
Application January 14, 1939, Serial No. 251,010
In France January 18, 1938
3 Claims. (Cl. 73—51)



1. Apparatus for testing motor vehicles comprising, an inclined track, a part of said track having a surface which affords to the tires of the vehicle a grip comparable with that afforded by a road, said part constituting a test path, printing means associated with said test path for printing a conventional sign when the tested vehicle, while braked, descends the said path under the action of its own weight in a time greater than a predetermined standard time *t*, and means for printing another conventional sign when the said vehicle descends said path in a time less than the time *t*, both of said printing means being located at a common supervision station.

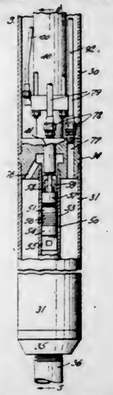
2,326,169
FLUID DELIVERY METER
Emile Piquerez, Saint-Cloud, France; vested in the Alien Property Custodian
Application March 6, 1939, Serial No. 260,164
In France March 24, 1938
3 Claims. (Cl. 73—231)

1. Apparatus for measuring the quantity of fluid passing through a conduit comprising a substantially cylindrical, transparent tube connected in said conduit and through which the fluid flows, a helical turbine rotatably mounted in said tube coaxially therewith, the diameter of said turbine being substantially the same as the internal diameter of the tube so that the outer edges of the turbine pass close to the inner surface of the tube, said turbine having light-controlling means closely adjacent the transparent tube, an indicator for indicating the quantity of liquid, means for moving said indicator in accordance with the number of rotations of said turbine, said moving means including a source of light directed through the transparent tube into the path of the rotatable turbine eccentric to the axis of said tube and turbine, a light-sensitive electric cell located in position to receive the light from the light source when permitted to pass thereto after refraction by said



tube and the fluid, the light-controlling means of said turbine passing in and out of position to vary the light beam to said cell as the turbine rotates, and indicator driving means operated in accordance with the current variations of said light-sensitive cell.

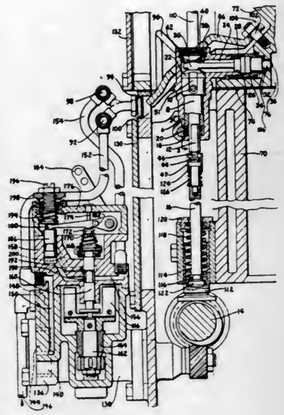
2,326,170
WELL PUMPING APPARATUS
Earle W. Rearwin, Buffalo, N. Y., assignor of one-half to Fred Dobmeier, Buffalo, N. Y.
Application November 30, 1940, Serial No. 368,012
4 Claims. (Cl. 103—220)



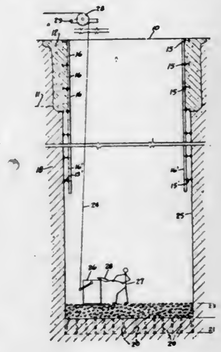
1. The combination of an oil well pump having a reciprocatory piston and adapted to deliver oil at each stroke of the piston, a stationary downwardly directed delivery duct through which oil is discharged from said pump, a sediment chamber having one side of the upper portion thereof communicating with said delivery duct, and a discharge passage leading upwardly from the opposite side of the upper end of said chamber, to form a path for the flow of oil which extends downwardly in said delivery duct, substantially horizontally in the upper portion of said sediment chamber, and then upwardly in said discharge passage.

2,326,171
FUEL INJECTION DEVICE
Ferdinando Carlo Reggio, Detroit, Mich.
Application August 17, 1940, Serial No. 353,002
16 Claims. (Cl. 123—139)

1. In combination with an internal combustion engine including a cylinder block having a machined surface, a detachable fuel injector including an injection nozzle and a plunger pump having their axes substantially at right angles; a gasket at the end of said nozzle; flange means for said injector whereby the latter may be clamped on said surface with the axis of said pump perpendicular thereto; a fuel inlet and a fuel return outlet in said injector; fuel lines having their ends adapted to be detachably connected with said inlet and said outlet; and attaching means for clamping said ends of said lines on said inlet and said return outlet thereby transmitting to said injector a load which is resolved into two component loads substantially in line with said two axes for clamping said flange means against said machined surface, and for applying sealing pressure to said gasket.

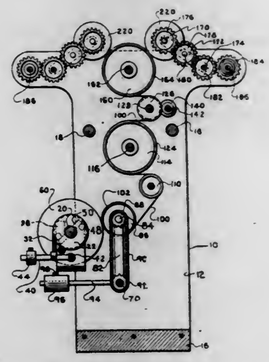


2,326,172
SHAFT SINKING APPARATUS
Joseph Murray Riddell, Minneapolis, Minn.
Application July 30, 1942, Serial No. 452,897
5 Claims. (Cl. 214—115)



1. An apparatus for sinking mine shafts of rectangular cross-section, having permanent sets spaced vertically in the shaft excavation and connected together by permanent studdles, comprising a temporary set having a peripheral contour like the permanent sets of the mine shaft and having load-bearing rail surfaces spaced along the opposite sides thereof, disconnectable temporary means for suspending the temporary set in a substantially horizontal plane below the lowermost permanent set, a platform having a length slightly less than the distance across the rectangular mine shaft from one load bearing rail surface to the other, and a width substantially less than the other cross-sectional dimension of the mine shaft, wheels on the platform positioned so as to roll upon said rails, reversible operator controlled power means mounted on the platform and connected to wheels thereof for moving the platform sidewise along the rails within the confines of the mine shaft and operator controlled power operated excavating shovel means suspended from the platform.

2,326,173
PROCESS AND APPARATUS FOR HANDLING MATERIAL
Arthur O. Russell, Fredericksburg, Va., assignor to Sylvania Industrial Corporation, Fredericksburg, Va., a corporation of Virginia
Application October 18, 1941, Serial No. 415,540
10 Claims. (Cl. 164—65)

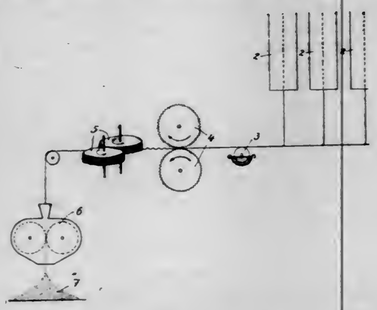


6. A slitting apparatus comprising means for rotatably supporting a supply roll of web material, means for yieldably resisting rotation of the supply roll, means for frictionally contacting the surface of the supply winding to rotate the same in a direction to unwind web material therefrom, means for rotatably supporting a winding form, means for applying a yieldable rotating force to the supply winding, means for frictionally contacting the surface of the winding form and thereafter any winding which builds up thereon to rotate the supply winding in a direction to wind material thereon, cooperating slitter knives and a grooved slitter roll, and means for passing the material unwound from the supply roll over the slitter roll in contact with the slitter knives and then onto the winding form.

2,326,174
METHOD AND APPARATUS FOR THE PRODUCTION OF CURLED THREADS FROM CELLULOSE ACETATE
Georg Rutishauser, Basel, Switzerland; vested in the Alien Property Custodian
Application July 12, 1940, Serial No. 345,220
In Germany April 22, 1939
3 Claims. (Cl. 18—54)

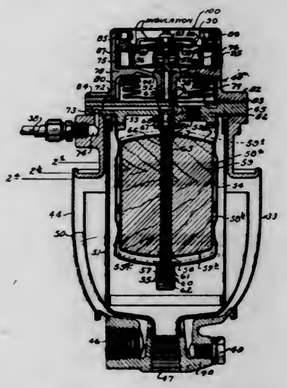
1. Method for the production of curled threads

spun by the dry spinning process from cellulose acetate, which comprises moistening with water in a proportion of from 6% to 18% freshly spun



threads still retaining from the spinning process from 4% to 10% of solvent, and then feeding the threads to curling rolls.

2,326,175
AIR ELIMINATOR
David Samiran, Fairfield, Ohio
Original application May 16, 1940, Serial No. 335,646. Divided and this application June 6, 1942, Serial No. 446,028
2 Claims. (Cl. 200—83)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



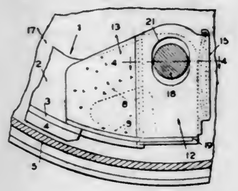
1. A pressure responsive electric switch for use in an air-vapor eliminator of a fuel dispensing system, said switch comprising a housing on the upper end of the eliminator, a wall separating said housing into an upper and a lower chamber, a bearing hub in said wall, a switch-operating stem slidable in said hub and extending through and into the upper chamber, a diaphragm in the lower chamber having its outer edge sealed to the housing and its central part sealed to said stem, thereby dividing said lower chamber into an upper and a lower compartment, said upper compartment being connected by an opening to the atmosphere, and said lower compartment being connected by an opening to the inside of the eliminator, two binding posts insulatedly mounted in spaced-apart positions in said upper chamber, a resilient strip of conductive material electrically joined at one end to one binding post, the free end being near the second binding post, a contact point on said free end, a cooperating point on said second binding post, means insulatedly joining the resilient strip intermediate its ends to the said stem, and adjusting means to raise or lower the point on said stem at which the said strip is secured.

2,326,176
HIGH-PRESSURE VESSEL
Julius Schierenbeck, Heidelberg, Germany; vested in the Alien Property Custodian
Application February 18, 1939, Serial No. 257,186
In Germany February 18, 1938
10 Claims. (Cl. 220—3)



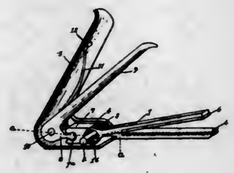
1. A high pressure vessel comprising a core tube, steel bands wound thereon in staggered relationship so that each band overlies the joint between the winding of the band beneath to form a plurality of helical layers, each band being provided with at least two projections on one surface and the same number of grooves of the same size and shape on the opposite surface, the projections of each band fitting tightly into the grooves of the adjoining band whereby said helical layers are interlocked and impart axial resistance to the vessel without welding the bands.

2,326,177
BRAKE SHOE MOUNTING CONSTRUCTION
Steve Schnell, Kirkwood, Mo., assignor to Wagner Electric Corporation, St. Louis, Mo., a corporation of Delaware
Application June 27, 1941, Serial No. 399,971
10 Claims. (Cl. 188—78)



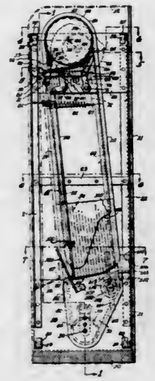
1. In braking apparatus, a drum, a support, a T-section brake shoe for cooperation with the drum and having a portion of the end of its web deformed inwardly away from the remaining portion, a member secured to the end of the web, an anchor pin carried by the support, an elongated block pivoted adjacent one end on the anchor pin, the axis of said anchor pin being opposite the deformed end of the web and the two end portions of the web engaging the block in a single plane for permitting the shoe to have sliding movement relatively to the block and toward the drum when the shoe is engaged with the drum, and means on the member for cooperating with the rear side of the block at a point between the anchor pin and the drum for preventing said block from having relative rotary movement with respect to the shoe.

2,326,178
SHEARS
Fred B. Seeberger, Yeadon, Pa.
Application September 28, 1942, Serial No. 459,907
5 Claims. (Cl. 30—245)



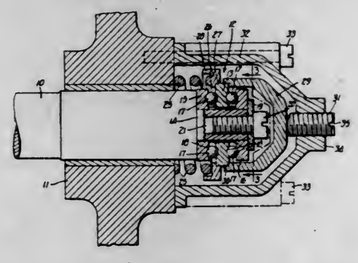
4. A shearing means comprising, a blade supporting base member having a vertically disposed angular gripping means integral therewith, an articulated blade supporting member pivotally disposed in the base member, a lever member pivotally disposed in the base member and adapted to operatively engage the articulated blade member, resilient means mounted on the articulated blade pivot member for holding the said member in operative alignment, resilient means interposed between the lever member and the gripping means for retracting the articulated blade member to operative position, adjusting means mounted in the base member to frictionally engage the articulated blade member for regulating the lateral frictional alignment between the respective blade members.

2,326,179
EXHIBITING OR DISPLAY DEVICE
John Sneed, Detroit, Mich., assignor, by mesne assignments, to Poster Machines Corporation, Detroit, Mich., a corporation of Michigan
Application March 7, 1940, Serial No. 322,779
12 Claims. (Cl. 40—36)



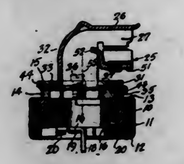
1. An exhibiting or display device comprising a plurality of display objects, conveying means engageable with said display objects for conveying the same from a display position to a storage position, feeding means for feeding one edge of each of said display objects from said storage position into engageability with said conveying means, means for operating said feeding means in timed relationship with said conveying means, and means associated with said feeding means for selectively separating and releasing an opposite edge of the display object being fed from other display objects in said storage position, said separating means being intermittently interposed between the display object being fed and the other display objects whereby to permit only the foremost display object to be fed while holding back the other display objects.

2,326,180
ADJUSTABLE THRUST BEARING
Laszlo M. Stempel, Coraopolis, Pa., assignor to The Lithograph Press Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application March 14, 1942, Serial No. 434,691
10 Claims. (Cl. 308—233)



1. An adjusting thrust bearing construction comprising a rotatable shaft, a thrust ball bearing including spaced rotating races mounted on the shaft and an intermediate non-rotating race, an abutment, a spring engaging the abutment and bearing against the non-rotating race arranged to bias the non-rotating race and shaft in an axial direction, a support, and adjusting means engaging the non-rotating race and support arranged to shift the non-rotating race and shaft axially against the pressure of the spring.

2,326,181
ADJUSTABLE ANGLE CORD GRIP PLUG CAP
John Albert Sundquist, Fairfield, and Hugo E. Aust, Bridgeport, Conn., assignors to Harvey Hubbell, Incorporated, Bridgeport, Conn., a corporation of Connecticut
Application March 18, 1942, Serial No. 435,182
11 Claims. (Cl. 173—322)



4. A plug cap comprising an insulating body, a cover on the body having an inturned flange spaced from the body, a swivel plate mounted to turn between the flange and body, a cord grip having a base mounted to turn on the outer side of the flange, a stop means mounted to turn with said base, a stop on the cover adapted to cooperate therewith to limit turning movements of the grip, and means connecting the base and

swivel plate adapted to clamp them at opposite sides of the flange to hold the grip against turning.

2,326,182

TITANIUM PIGMENT COMPOSITION AND PROCESS OF MAKING THE SAME

Seldon P. Todd, Gloucester City, Harold F. Saunders, Haddonfield, and Fredric C. Verduin, Audubon, N. J., assignors to The Sherwin-Williams Company, Cleveland, Ohio, a company of Ohio

No Drawing. Application November 27, 1940, Serial No. 367,390
17 Claims. (Cl. 106—292)

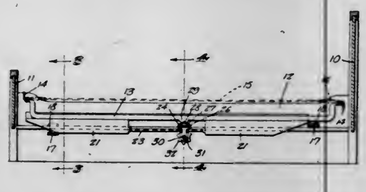
1. The process of preparing a titanium oxide pigment, which includes calcining a hydrous titanium oxide obtained by precipitation from a solution of a complex titanium ammonium fluoride, and to which has been added, after precipitation and washing, a compound of a metal of group II of the periodic table.

2,326,183

BED

John C. Urbank, St. Paul, Minn.

Application September 15, 1941, Serial No. 410,926
4 Claims. (Cl. 5—62)



1. A bed comprising a bedstead, a bed spring frame mounted for pivotal movement about a central transverse axis on the bedstead, a pair of slats secured adjacent the head and foot portions respectively of the bedstead, the slat at the foot portion lying in a plane considerably below the slat at the head portion, oppositely arranged pairs of wedge members having side flanges engaging the sides of the bed spring frame to form guides, a centrally disposed slat on the bedstead, a lever pivoted centrally on the central slat and engaged through openings in said flanges to actuate the wedge members, movement of the lever in one direction causing the wedge members to tilt the bed spring frame downwardly at an angle while movement in the opposite direction causes the wedge members to return the frame to a level position.

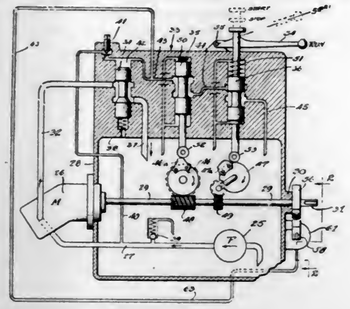
2,326,184

TIMING DEVICE FOR POWER TRANSMISSION SYSTEMS

Harry F. Vickers, Detroit, Mich., assignor to Vickers, Incorporated, Detroit, Mich., a corporation of Michigan

Application January 27, 1940, Serial No. 315,889
18 Claims. (Cl. 60—53)

5. In a hydraulic control system, a motor, a source of pressure, means to control said pressure and the movement of said motor comprising a plurality of valve means, each responsive to a different degree to the movement of said motor and cooperating at a predetermined point in the movement of said motor to influence the effect of said pressure on said motor whereby



the movement of said motor may be accurately controlled.

2,326,185

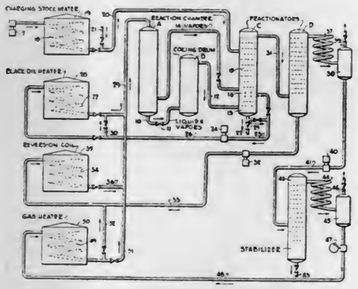
WITHDRAWN

2,326,186

CONVERSION OF HYDROCARBONS

Claude W. Watson, Tuckahoe, N. Y., assignor, by mesne assignments, to The Texas Company, New York, N. Y., a corporation of Delaware

Application May 24, 1941, Serial No. 394,979
4 Claims. (Cl. 196—9)



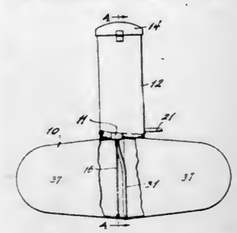
1. In the conversion of hydrocarbons for the production of gasoline, the process that comprises subjecting a mixture of cycle condensate and normally gaseous hydrocarbons to conversion temperature in a conversion zone to effect conversion into gasoline constituents, combining the resultant products of conversion with residual constituents of crude petroleum for reaction in a reaction zone maintained at cracking temperature under superatmospheric pressure and wherein separation of vapors from liquid residue takes place, preventing the accumulation of liquid in said reaction zone by rapidly withdrawing the liquid residue, including a portion of the vapors with the liquid residue thus withdrawn from the reaction zone in quantity sufficient to effect the autogenous coking thereof and delivering the mixture to a coking zone maintained under reduced pressure wherein coking takes place without priming, separately withdrawing vapors from said reaction zone, subjecting evolved vapors from the coking zone and separated vapors from the reaction zone to fractionation to separate a condensate from heavier and lighter constituents, cycling said condensate to the aforesaid conversion zone, subjecting said lighter constituents to further fractionation to separate normally liquid hydrocarbons from normally gaseous hydrocarbons comprising C_3 and C_4 hydrocarbons and cycling such normally gaseous hydrocarbons to said conversion zone.

2,326,187

LIQUEFIED GAS SYSTEM

Loyd J. White, San Antonio, Tex., assignor to Southern Steel Company, San Antonio, Tex., a corporation of Texas

Application October 12, 1939, Serial No. 299,211
9 Claims. (Cl. 62—1)



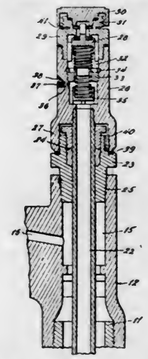
1. In a liquefied petroleum gas dispensing system of the type described having a pressure storage tank, filling and dispensing means for the tank, said dispensing means being connected to gas consuming appliances; and a liquid eduction pipe extending to the bottom of the tank and having a hose fitting at its upper end and separate from the filling means whereby liquid in the tank may be withdrawn or pumped out through a connected hose without disconnecting said dispensing means.

2,326,188

COMBINATION SLIP TUBE GAUGE AND EVACUATING MEANS FOR LIQUEFIED GAS STORAGE TANKS

Loyd J. White, San Antonio, Tex., assignor to Southern Steel Company, San Antonio, Tex., a corporation of Texas

Application October 12, 1939, Serial No. 299,213
6 Claims. (Cl. 62—1)



1. In a liquefied gas system having an underground pressure storage tank, a standpipe contubular depth gauge slidably carried by said nected to the tank; filling and gas dispensing means connected to said standpipe; a valved standpipe and projecting through the bottom thereof into the bottom portion of the tank; a check valve and hose fitting in the upper end of the gauge tube; and a small bleeder valve below the check valve.

2,326,189

PREPARATION OF LAMINATING FABRIC

William Whitehead, Rye, N. Y., assignor to Celanese Corporation of America, a corporation of Delaware

No Drawing. Application May 4, 1940, Serial No. 333,387
5 Claims. (Cl. 8—131)

1. Process for preparing a laminating fabric, which comprises impregnating a fabric containing yarns of a compound, selected from the group consisting of cellulose carboxylic esters and cellulose ethers, with a plasticizer for said compound, ageing the impregnated fabric for at least 5 days at a temperature of 85 to 160° F. and then heating the aged fabric to a temperature of 250 to 300° F. for from 10 to 20 seconds, whereby superficial plasticizer is removed and there is obtained a laminating fabric free from greasiness and capable, under heat and pressure, of adhesively uniting the components in a composite fabric.

2,326,190

PROCESS FOR THE PREPARATION OF LAMINATING FABRICS

William Whitehead, Rye, N. Y., assignor to Celanese Corporation of America, a corporation of Delaware

No Drawing. Application May 11, 1940, Serial No. 334,614
5 Claims. (Cl. 8—131)

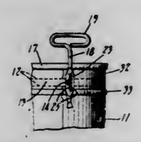
1. Process for preparing a laminating fabric, which comprises applying to a fabric containing yarn of a thermoplastic compound, selected from the group consisting of cellulose carboxylic esters, cellulose ethers, mixed carboxylic esters of cellulose and synthetic linear polyamide condensation products and non-thermoplastic yarns, an aqueous dispersion of a plasticizer for said thermoplastic compound, said dispersion containing an organic derivative of cellulose as the sole dispersing agent, whereby there is obtained a laminating fabric free of greasiness and capable, under heat and pressure, of adhesively uniting the components in a composite fabric.

2,326,191

CONTAINER OPENING KEY

Erwin E. Zabler, Chicago, Ill., assignor to American Can Company, New York, N. Y., a corporation of New Jersey

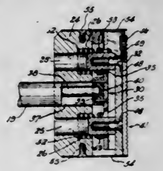
Application June 26, 1941, Serial No. 399,892
2 Claims. (Cl. 220—51)



2. A key for opening sealed tearing strip containers, comprising a round wire shank terminating in a looped handle portion at one end thereof, a portion of said shank being flattened and provided with an elongated opening for receiving the end of the container tearing strip, opposite sides of said opening being defined by outwardly bent complementary serrations on the

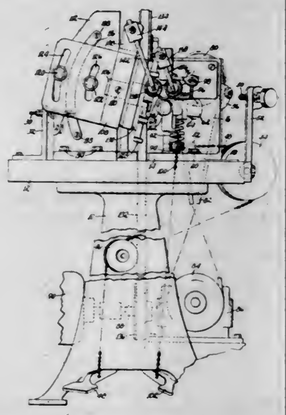
flattened shank portion extending in opposite directions out of the plane of the flattened shank, whereby to insure a firm biting grip upon said container tearing strip when the key is applied to the end thereof to open the container by winding said tearing strip onto said key.

2,326,192
SHAVING DEVICE
Mathew Andis and Matthew G. Andis, Jr., Racine, Wis., assignors to Andis Clipper Company, Racine, Wis., a corporation of Wisconsin
Application February 6, 1937. Serial No. 124,416
8 Claims. (Cl. 30—43)



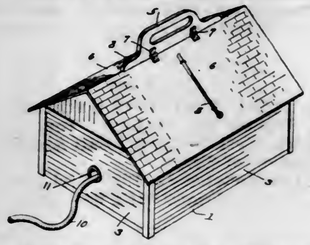
3. In an automatic hair shearing unit, a handle member having a relatively flat support, a relatively flat shearing assembly, means removably affixing said assembly to said support, said support having guard ledge elements apart from said affixing means and rising from said support along the end edges of the flat shearing assembly for protecting the latter.

2,326,193
MACHINE FOR SHAPING SHOE UPPERS OVER LASTS
Corwin W. Baker, Stoneham, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application July 23, 1941, Serial No. 403,737
21 Claims. (Cl. 12—7)



1. In a machine for shaping uppers over lasts, a pair of power-driven rolls arranged to grip the margin of an upper upon a last and to effect feeding movement thereof, the axes of said rolls being oblique to the last bottom and so disposed with respect to the path of feeding movement as to tension the upper over the last, and means for moving said axes angularly with respect to said path of feeding movement to increase or diminish the tensioning effect upon the upper.

2,326,194
DEMONSTRATION DEVICE
Edward G. Barton, Cleveland, Ohio
Application November 2, 1942, Serial No. 464,221
1 Claim. (Cl. 35—19)

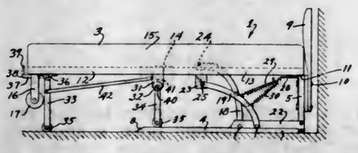


A device for demonstrating the insulating value of different materials including walls cooperating to provide an inner casing, a base on which the inner casing is erected and to which it is connected, a partition having an integral portion connected to and extending upwardly from the inner casing at the top thereof constituting a handle, walls connected to and extending upwardly from the base and spaced throughout from the walls of the inner casing to provide an outer casing, closures hingedly connected to the handle portion and normally bearing on the walls of the outer casing, said closures simulating a roof, an insulating material between the inner and outer casings at one side thereof, a heating element within the inner casing, and heat-indicating means on the closures at the two sides of the handle portion and above the insulated and the non-insulated portions of the device.

2,326,195
PROTEIN RECOVERY
Lawrence W. Bass and Harold S. Olcott, Pittsburgh, Pa., assignors to Cotton Research Foundation, a corporation of Tennessee
No Drawing. Application August 2, 1940, Serial No. 350,128
1 Claim. (Cl. 260—112)

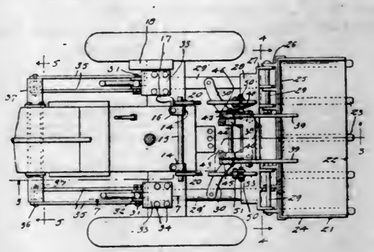
The method herein described of recovering from oil-free cottonseed meal, after the separation from it of its water-soluble protein, its remaining protein content, which consists in extracting by means of an alkaline solvent such remaining protein content, and bubbling the solution through with carbon dioxide in gaseous state, whereby, over-acidification being avoided, the pH value of the solution is brought within and maintained within the iso-electric region of the protein, with precipitation of the protein.

2,326,196
CONVERTIBLE BED
Joseph D. Bell, San Francisco, Calif.
Application August 28, 1940, Serial No. 354,467
11 Claims. (Cl. 5—47)



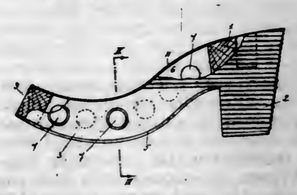
5. In a convertible bed, an L-frame comprising a horizontal track, a rear vertical member and a head piece rising from the vertical member and forming an off-set therewith, a mattress frame comprising two sections, one a back section and the other a seat section, hinged together with freedom of movement between bed and chair positions, means for supporting the mattress frame in chair position comprising a leg for supporting the front edge of the seat section and two pairs of links carried by the track and supporting the back section in upright position adjacent the head member, the links being operable to guide the back section forward on an arc and in upright position to a predetermined point on the down grade of the arc and to then rock the same toward horizontal position, and a relatively short leg projecting from the rear edge of the seat section over the track so as to strike the latter and to give support to the hinge connection when the back has reached said predetermined point, the links being operable to position the rear end of the mattress frame on the off-set with the rear face thereof up against the head piece, and the latter being sufficiently high to form a cushion-retaining abutment for the horizontal mattress frame.

2,326,197
HYDRAULIC REVERSE SCRAPER
John Blecha, Kremmling, Colo.
Application August 27, 1942, Serial No. 456,384
4 Claims. (Cl. 37—124)



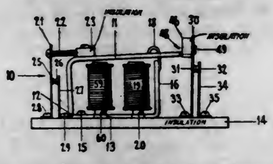
1. A structure of the class described comprising lifting bars adapted to be pivoted to a tractor, a mounting bar connecting the lifting bars, a scraper, pivotal connections between the scraper and the mounting bar providing means for mounting the scraper on the mounting bar in various selected positions laterally and latch means between the mounting bar and scraper.

2,326,198
SHOE AND THE LIKE
Serge Brandel, Villefrancha-sur-Mar, Alpes-Maritimes, and Henri Perrot, Paris, France; vested in the Alien Property Custodian
Application August 8, 1939, Serial No. 289,028
In France May 22, 1939
2 Claims. (Cl. 36—3)



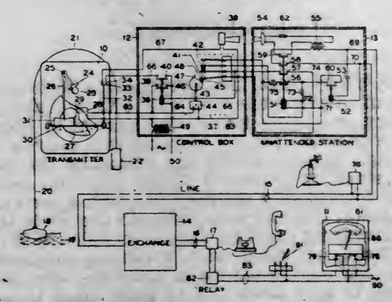
1. In a shoe or sandal a relatively high heel, a rigid frame integral with an upper portion of said heel and extending downwardly and forwardly from the heel in an arcuate shape to provide a sole part for the shoe, said frame being relatively thick and hollow forwardly of the heel so as to provide a rigid border shaped in accordance with the lateral contour of a foot, the upper edges of said frame being shaped like the bottom face of the foot, a yieldable apertured foot-supporting sheet extending across the hollow frame and secured to the upper edges of said border for yieldingly supporting the foot, and said border having relatively large holes extending transversely therethrough at spaced intervals around the frame.

2,326,199
DOUBLE ACTION SAFETY SWITCH
John Herman Bretthauer and William Cermak, New York, N. Y.
Application December 6, 1940, Serial No. 368,960
5 Claims. (Cl. 200—107)



1. A device of the character described comprising in combination a magnet coil, an L-shaped armature lever having one end pivoted adjacent the base of said coil whereby its free end has a movement in response to said coil having both a horizontal and a vertical component and being spring-pressed away from said coil, a pair of switches mounted adjacent to said free end each having a movable member carrying a block, said member being spring-pressed toward said armature end and in a direction to open said switch, each block having a horizontal and a vertical face of such dimensions that when the vertical faces are engaged by said free end, both switches are held closed and when said free end comes beneath the horizontal faces both switches are released to open and said lever is held by one of said faces in magnet operated position, one of said horizontal faces being higher than the other, whereby one switch is opened before the other.

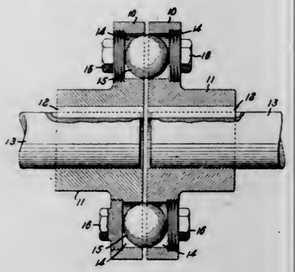
2,326,200
TELEMETRIC APPARATUS
Franklin B. Bristol, Middlebury, Conn., assignor to The Bristol Company, Waterbury, Conn., a corporation of Connecticut
Application January 8, 1941, Serial No. 373,617
5 Claims. (Cl. 177—351)



1. In a telemetering system for providing at a receiving station representations of values of a quantity measured at a remote transmitting sta-

tion, the combination of normally inert means at said transmitting station for measuring an unlimited number of said values within a given range and creating in each of uniform time cycles a continuous audible signal of a duration corresponding to values of said quantity, means for converting said audible signals into electrical impulses corresponding with said quantity values, relay means controlled from said receiving station for bringing said transmitting and converting means into action, means at said receiving station whereby said impulses may be converted into scalar magnitudes representative of said values, and means at said transmitting station for terminating signal transmission at the end of a predetermined time.

2,326,201
FLEXIBLE COUPLING
Ivan S. Brumagim, North Warren, Pa.
Application November 14, 1942, Serial No. 465,621
4 Claims. (Cl. 64—11)



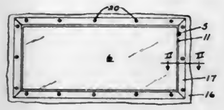
1. A shaft coupling comprising paired parallel disc members adapted to be attached to the ends of shafts to be coupled and having opposed plane faces provided with recesses cooperating to form a plurality of right cylindrical chambers having their axes parallel to the axis of the coupling, and spherical elastic balls having a diameter approximately equal to the diameter of said chambers positioned therein.

2,326,202
BLADE MAGAZINE
Herbert W. Bryan, Boston, Mass., assignor to Gillette Safety Razor Company, Boston, Mass., a corporation of Delaware
Application June 12, 1940, Serial No. 340,017
8 Claims. (Cl. 206—16)



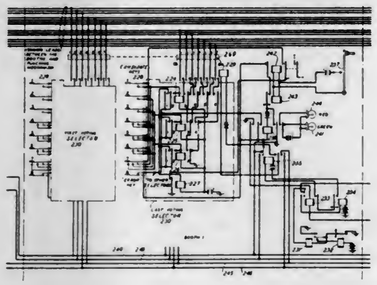
1. A blade magazine comprising a rectangular enclosure having one end wall with a transverse delivery slot in its lower edge shaped to provide a wide central opening merging into narrow side openings, means within the magazine for holding a stack of apertured blades with one end directed toward said delivery slot, and a feed slide movable in the magazine beneath the blade stack and outwardly through the delivery slot, said feed slide being provided with a narrow upstanding blade-locating rib shaped to enter the aperture of a blade in said stack and to pass freely through the wide central opening of the delivery slot and with a thickened area in its rear end which is too wide to pass through said central opening.

2,326,203
LAMINATED GLAZING PANEL
Brook J. Dennison, Aspinwall, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
Application January 21, 1941, Serial No. 375,121
4 Claims. (Cl. 20—56)



1. A laminated glazing panel comprising a plurality of glass plates united by a plastic reinforcing material, a border of the plastic material projecting beyond the edges of the glass plates, and layers of flexible metal foil adhered to the plastic border and the edges of the glass plates.

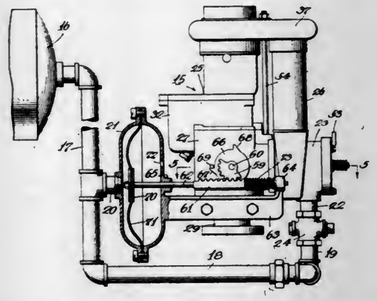
2,326,204
AUTOMATIC QUESTIONNAIRE
Thomas L. Dowey, Summit, and Clarence A. Lovell, Maplewood, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 24, 1940, Serial No. 358,058
6 Claims. (Cl. 235—50)



4. In an election voting system, a punch and scanning machine adapted to punch a card, a plurality of voting booths each having a numerical designation and each equipped with selecting means comprising manually operative candidate keys and lockable circuits completed thereby for indicating voting choices, means individual to each booth responsive to the opening of the booth curtain following a closure thereof for connecting the selecting means of one booth to said punch and scanning machine in the numerical order identified by the numerical designation thereof, means operative following the connection of one of said selecting means to said punch and scanning machine for operating said machine to scan said selecting means and punch a card in accordance with the circuits closed therein, means operative during the connection between said selecting means and said machine for rendering ineffective the candidate keys of said selecting means connected with said punch and scanning machine, and means for locking all vote selecting means of other booths out of connection with said punch and scanning machine for the duration of its connection with said vote selecting means of said one booth.

2,326,205
CHARGE FORMING DEVICE
Joshua R. Dowdell, Dallas, Tex., assignor to Nash Engineering Company, South Norwalk, Conn., a corporation of Connecticut
Application August 3, 1940, Serial No. 350,449
4 Claims. (Cl. 261—16)

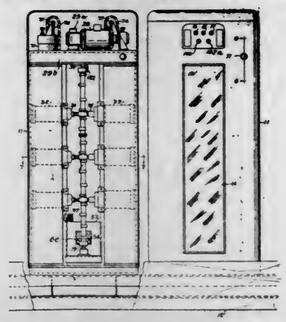
4. A charge forming device comprising a pair of independent fuel and air mixers, respectively constructed and arranged to handle different fuels, said mixers being adapted for connection to a common point of distribution of fuel mixture from said mixers, a discharge adapter unit operatively interposed between said mixers and forming a mechanical interconnection therebetween, said adapter comprising a valve housing having three conduits for respective co-operation with the individual mixers and the common point of distribution of fuel mixture from one or the other of said mixers, means to supply fuel independently to each of said mixers, means including a rotary valve in the adapter and valve ports communicating with the conduits of the adapter and co-operative with said valve, effective when said valve is in one position to connect one only of said mixers to the common point of distribution of fuel mixture, and to cut off the other of said mixers from said point of distribution, and



effective when in another position to connect the other of said mixers exclusively to said common point of distribution, and simultaneously to cut off the first-mentioned mixer from said point of distribution, said valve being ported to always connect the common point of distribution with one or the other of said mixers, and automatically controlled valve actuating means to rotate said valve in the adapter from one control position to another with respect to the mixer conduits, comprising a pressure responsive means tapped into the fuel supply for one of said mixers, and a mechanical valve actuating linkage connecting the valve to the pressure responsive means, whereby to actuate the rotary valve in accordance with pressure conditions in said fuel supply.

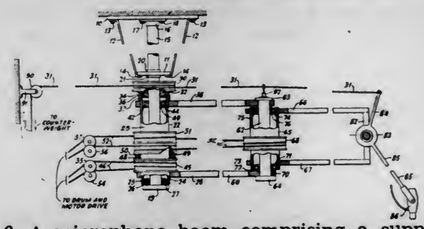
2,326,206
APPARATUS FOR ELECTRIC HEATING
William C. Dunn, Shaker Heights, and Francis S. Denneen, Cleveland, Ohio, assignors to The Ohio Crankshaft Company, Cleveland, Ohio, a corporation of Ohio
Application January 27, 1939, Serial No. 253,168
14 Claims. (Cl. 266—4)

1. In apparatus of the class described, a support for an elongated article to be heat treated, a combination induction heating and quenching member adapted to traverse said article to lie in closely spaced relation with successive surface acting on said article intermediate its ends to zones thereof to heat and quench the same, means hold the article in alignment against the distorting effect of heat treatment, and a second means



to automatically withdraw said first means from the path of said traversing member to allow said member to pass thereby.

2,326,207
SUPPORTING APPARATUS
William C. Eddy, Kenilworth, Ill., assignor to Radio Corporation of America, a corporation of Delaware
Application January 3, 1941, Serial No. 373,002
6 Claims. (Cl. 248—325)

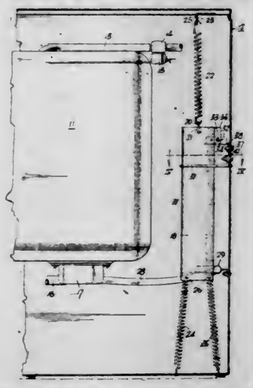


6. A microphone boom comprising a support shaft, said support shaft having means for attaching said boom to the interior of a studio, a first cylindrical member arranged to rotate around said support shaft, an arm secured to said cylinder, a cable drum secured to said cylinder, a second shaft secured to said arm at the end opposite said support shaft, a second cylindrical member surrounding said second shaft, a second arm secured to said second cylinder, a third arm pivoted at right angles to the axis of said first and second support shafts, and separate means for independently moving each one of said arms.

2,326,208
CONTROL MECHANISM
Hilbert E. Edwards, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 1, 1941, Serial No. 421,203
4 Claims. (Cl. 200—85)

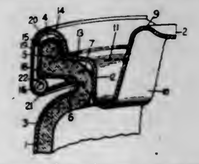
1. In a control mechanism, the combination of a vessel for containing liquid, flexible conduit means for conveying liquid to and from said vessel, spring means biasing the vessel upwardly and downwardly and positioning the vessel vertically, said spring means affording downward and upward motion of the vessel as liquid is admitted to and discharged from the vessel, means for adjusting at least a portion of the spring means for adjusting the vertical position of the vessel, a switch actuated by the vessel as the latter moves

upwardly and downwardly to predetermined positions, a support for the switch and means for



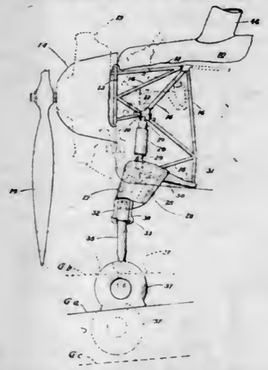
adjusting the switch upwardly and downwardly relative the support.

2,326,209
CONTAINER
Hans A. Eggerss, Van Wert, Ohio, assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application August 15, 1941, Serial No. 406,984
2 Claims. (Cl. 229—5.7)



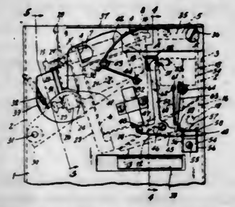
1. A container structure comprising a cylindrical body formed from fibrous material or the like, an annular metal band for reinforcing an end portion of said body in which said end portion has a vertical outer face, said end portion and said band being pressed inwardly to provide a continuous internal rib and a continuous external groove located at a point spaced from one extreme end of said body, said rib having a substantially horizontal annular sealing surface and a substantially vertical annular sealing surface formed thereon, the end portion of said body and said reinforcing band together providing a substantially horizontal upper defining wall for said continuous external groove, and a removable metal cover positioned on the said extreme end of the body and having an inner depending annular flange, said flange having a substantially horizontal sealing portion resting on the horizontal sealing surface of said rib and a substantially vertical annular sealing portion contacting the vertical sealing surface of said rib, said cover having a substantially U-shaped portion extending around said extreme end of the body and extended downwardly over the vertical outer face of said body end portion to provide a vertically disposed external annular flange embracing said vertical outer face and having an annular bead formed at its terminal end, said bead being adapted to snap into place within said continuous groove and into gripping relation with the upper defining wall of said groove to maintain said cover in position upon said cylindrical body, said external flange and bead having circumferentially spaced slits formed therein, said removable cover also having a centrally disposed disk-like portion provided with a depending annular flange merging with the lower end of said inner annular flange and an upstanding force receiving and transmitting annular bead formed therein and projecting beyond the upper surface of said disk-like portion and the other portions of said removable cover.

2,326,210
AIRCRAFT LANDING GEAR
Adolf C. Falk, Drexel Hill, and Robert A. Wagner, Sharon Hill, Pa., assignors to Kellett Autogiro Corporation, a corporation of Delaware
Application March 14, 1941, Serial No. 383,260
16 Claims. (Cl. 244—104)



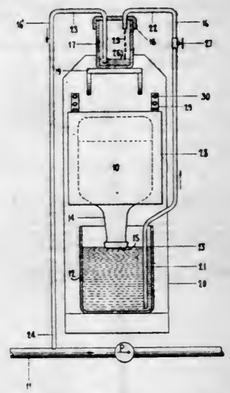
1. An aircraft landing gear comprising a substantially vertical wheel-carrying element, two co-directional strut members extending laterally from spaced pivots on said aircraft to spaced pivots upon said element, one of said members being a hollow streamlined portion enclosing the other of said members, the said members being relatively movable one within the other upon pivotation about said spaced pivots on said aircraft.

2,326,211
COIN SELECTOR
Benjamin W. Fry, University City, and John Gottfried, St. Louis, Mo.
Application August 28, 1939, Serial No. 292,174
2 Claims. (Cl. 194—97)



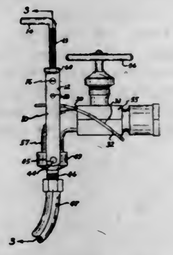
1. In a coin selector, a coin passageway, intersecting means movably positioned in said passageway and mounted for deflection by a coin propelled by the action of gravity in said passageway, an abutment movably affixed to said coin selector adjacent to said passageway and adapted to intersect said passageway at a point below said intersecting means, said abutment being operatively related to said means, means for normally and simultaneously urging said intersecting means into said passageway into the path of coins deposited therein and urging said abutment into said coin passageway, whereby the deposit of a coin having a diameter less than that of an acceptable value will not move said intersecting means sufficiently far to withdraw said abutment an adequate distance to permit the passage of said coin, said abutment also adapted to engage one of the face surfaces and thereby retain coins having face surface deformations greater than those of an acceptable coin, to separate acceptable coins from spurious coins.

2,326,212
CHLORINATOR
Joseph Garelick, Hurleyville, N. Y.
Application June 11, 1941, Serial No. 397,528
3 Claims. (Cl. 210—28)



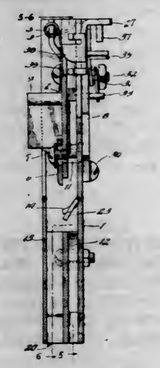
1. An apparatus of the class described for feeding a chlorine solution into a stream of water, comprising a reservoir and an inverted bottle of reserve supply chlorine solution, means for supporting said bottle by engagement with the body portion thereof, said supporting means being in spaced relation from the neck of said bottle to avoid contact of said neck with said holding means, said bottle being positioned with the neck thereof extending into said reservoir and with the entire lower surface of the mouth portion of said bottle positioned below the upper surface of said chlorine solution, said lower surface being wholly immersed in and in full contact with the chlorine solution in said reservoir, said mouth being sealed by said chlorine solution for maintaining chlorine solution at a constant level in said reservoir, a siphon tube having the lower end of its shorter leg immersed in the chlorine solution in said reservoir, a suction line for the flow of water to be treated, the longer leg of said siphon tube being connected with said suction line, suction means in said suction line for causing actuation of said siphon, means in said shorter leg for regulating the flow of said solution, said siphon tube comprising two members, and an upright transparent container having means for receiving end portions of said siphon tube members in air tight engagement, the upper end of said longer leg terminating in slightly spaced relation from the bottom of said transparent container, the upper end of said shorter leg terminating in considerably spaced relation from the bottom of said transparent container to permit visible observation of the rate of feed of said chlorine solution passing through said transparent container, said siphoning legs and said transparent container connecting said legs and the connection to said suction line being air tight and closed to air.

2,326,213
DEVICE FOR CONNECTING HOSE PIPES TO FAUCETS
John Gorrien, Minneapolis, Minn., assignor to Clyde C. Needham, Minneapolis, Minn.
Application July 2, 1941, Serial No. 400,810
3 Claims. (Cl. 285—108)



1. A device of the character described, comprising a yoke member having spaced apart, oppositely disposed arms, a saddle having a portion thereof disposed at a side of said yoke member arms adapted to be rigidly supported upon the body of a faucet, a split nut, means disposed between said yoke member arms supporting said split nut, a clamping screw assembled with said split nut and engaged with said saddle, a stopple element pivotally supported between said yoke member arms and disposed in spaced relation to said saddle, and means for permitting said split nut to become released from said clamping screw upon the application of force to the clamping screw in direction adapted to cause said clamping screw to be moved relatively to said yoke member in direction toward said stopple element.

2,326,214
COIN SELECTOR
John Gottfried, St. Louis, Mo., assignor to National Slug Rejectors, Inc., St. Louis, Mo., a corporation of Missouri
Application April 21, 1941, Serial No. 389,539
2 Claims. (Cl. 194—97)



1. An apparatus for selecting coins having different physical qualities, comprising a casing, a coin entrance in said casing, a coin runway, means located between said coin entrance and coin runway for causing a coin to reach said runway at a predetermined velocity, a magnet located in the path of coins moving along said runway, said runway having a terminus located in a position to permit a coin to fall by gravity,

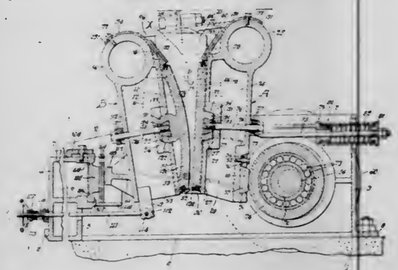
while the coin is still within the influence of said magnet, into a free trajectory acceptance path or a free trajectory rejection path, and means to adjust the position of said runway longitudinally of its length to thereby adjust said runway terminus with relation to the magnet.

2,326,215

JAW CRUSHER

Oscar C. Gruender, Milwaukee, Wis., assignor to Nordberg Manufacturing Company, Milwaukee, Wis., a corporation of Wisconsin

Application December 12, 1938, Serial No. 245,161
7 Claims. (Cl. 83—53)



1. Pressure release means for rock crusher jaws and the like including a box member open toward the direction from which the pressure is applied, a renewable break plate removably mounted on the box member, engaging the walls thereof in a plane normal to the line of pressure, the plate being weakened adjacent the inner boundaries of the engaging surfaces, a foot extending from the jaw toward and engaging the plate in that portion of its area in line with the open portion of the box and out of line with the weakened portion of the plate, an adjusting plate interposed between the foot and the break plate and adapted to transmit pressure from one to the other.

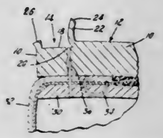
5. In a jaw crusher, a frame, opposed jaws mounted on said frame, one being normally fixed in relation thereto, the other being normally movable, means for imparting a crushing oscillation to said normally movable jaw, and means for supporting said jaws on said frame, including a pair of stub shafts located coaxially at opposite sides of the top of the crushing cavity defined between said jaws, and a rupturable connection between one of said jaws and said stub shaft adapted to permit a recession of said jaw in response to a predetermined excess crushing pressure within the crushing cavity.

2,326,216

SHOE AND OUTSOLE THEREFOR

Joseph E. Harding, Boston, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Application April 16, 1942, Serial No. 439,225
7 Claims. (Cl. 12—142)



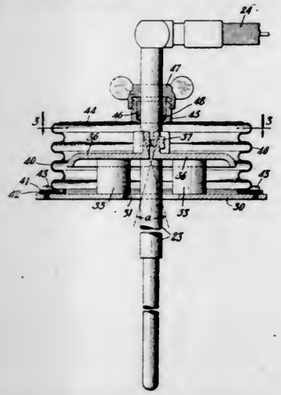
7. That improvement in methods of making shoes which consists in providing an outsole having in its tread side a marginal channel forming an inner flap having a beveled outer edge and an outer lip having a correspondingly beveled inner edge, raising said flap and said lip thereby opening said channel, securing said outsole to a shoe by stitches received in said channel, laying said flap into position to cover said stitches, setting the edge of the outsole, and in the course of the edge-setting operation laying said lip with its beveled edge in overlying relation to the beveled edge of said flap and thereby locking said flap in stitch-covering position.

2,326,217

THERMOMETER BULB MOUNTING

Eugene H. Hart, Waterbury, Conn., assignor to The Bristol Company, Waterbury, Conn., a corporation of Connecticut

Application October 1, 1941, Serial No. 413,095
13 Claims. (Cl. 297—3)



1. A thermometer bulb mounting comprising a plate, a flange adapted for clamping engagement with said bulb, and resilient supporting means adapted to be secured to both the plate and the flange to permit angular deflection of said bulb with respect to said plate, together with resilient sealing means separate from said resilient supporting means and enclosing said plate, flange, and supporting means.

10. A mounting for supporting an extended thermometer bulb, said mounting comprising a member having an opening therein for the passage of said bulb, a flange adapted for clamping engagement with said bulb in any desired position with respect to the extended length of the same, and resilient means extending axially of said bulb and mounted at one end on said member, said resilient means supporting said flange upon its opposite end in axially spaced relation to said member to permit angular deflection of said bulb in said opening.

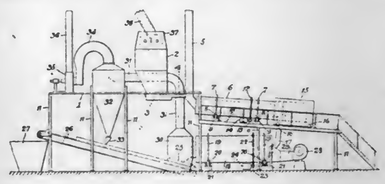
2,326,218

PROCESS OF RECLAIMING FOUNDRY SAND

William L. Hartley, Chicago, Ill., and Donald Whitehead, Wyoming, Ohio, assignors to Link-Belt Company, a corporation of Illinois

Application August 30, 1941, Serial No. 408,950
5 Claims. (Cl. 22—217)

3. The method of recovering used foundry core sand, which includes moving the used core sand to a heating and oxidizing zone; there subjecting the sand to a temperature high enough to remove adherent carbonaceous and other materials from the sand grains but not high enough to change the grain structure of the sand; thereafter delivering the heated sand to a cooling chamber; imparting movement to the sand while in said cooling chamber, passing cooling air through the sand, while in motion in said cooling chamber at a velocity sufficient to suspend the fines therein, along a path or paths at an angle to the direction of movement of the sand in the cooling



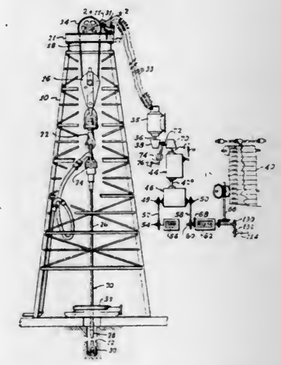
chamber, delivering the cooled sand and the air from the cooling chamber into a settling chamber; drawing off the air and fines from the settling chamber; and conveying the reclaimed sand to a zone of storage or use.

2,326,219

WELL DEPTH RECORDING

John T. Hayward, Tulsa, Okla.

Application December 30, 1939, Serial No. 311,805
16 Claims. (Cl. 33—134)



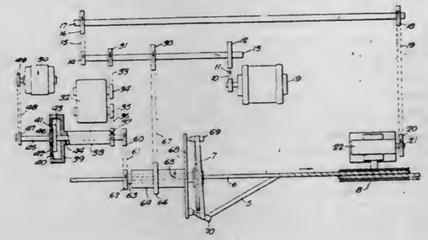
1. In combination with a drilling string and a well depth exhibiting means adapted to exhibit the depth of the well in accordance with the downward progress of said drilling string in the well, a drive for said exhibiting means, comprising, a main drive shaft driven from said drilling string and reversibly rotative in synchronism with corresponding measured vertical movements of said drilling string, a first driven shaft drivingly connecting said main drive shaft to said exhibiting means, a second driven shaft driven by said main drive shaft, a differential member connecting said main shaft to said first and second driven shafts, means operative upon said first driven shaft to constrain its rotation with the main shaft in one direction only corresponding to downward progress of said drilling string in the well and to render said second driven shaft normally preferentially rotatable by said main shaft, and means cooperating with said second driven shaft to limit its rotation with the main shaft in said one direction while permitting relatively unlimited rotation thereof in the opposite direction.

2,326,220

TENSIONING APPARATUS

George E. Henning, Joppa, and Julius A. Wagner, Baltimore, Md., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application October 7, 1942, Serial No. 461,181
10 Claims. (Cl. 57—18)



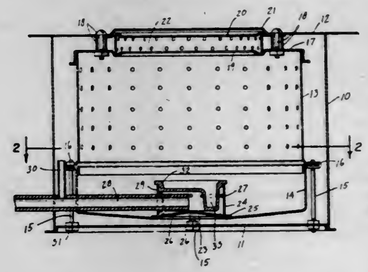
1. A tension apparatus comprising a rotatable takeup member for strand material, means for applying a wrapping to said strand including means for supporting a supply of said wrapping concentrically with respect to the strand, a variable speed reducing mechanism for supplying power tending to rotate said means for supporting the supply of wrapping, a common motor for supplying power to drive the means for supplying power to the takeup means and the speed reducer, a torque motor, a planetary gear mechanism interconnecting the speed reducer and the support for the wrapping, and means for controlling the effectiveness of the planetary gear mechanism under control of the torque motor.

2,326,221

FUEL OIL BURNER

Dewey H. Hill, Macomb, Ill., assignor to Globe American Corporation, Kokomo, Ind., a corporation

Application May 22, 1941, Serial No. 394,598
1 Claim. (Cl. 158—91)



A liquid fuel burner comprising a burner pan, a perforated drum coextensive with said pan and mounted thereabove, the top plate for said drum having a central aperture, a perforated distributor sleeve mounted centrally of said drum and pan and supported upon said burner pan, a fuel intake pipe extending through the wall of said pan and said sleeve with its discharge end centrally thereof, and a cover plate for said sleeve having a downwardly extending dished body portion extending over and about the discharge end of said pipe but spaced therefrom and from the wall of said sleeve.

2,326,222

ARYL-SUBSTITUTED HYDROGENATED CYCLIC COMPOUND AND THE PROCESS OF PRODUCING SAME

Heinrich Hopff and Wilhelm Rapp, Ludwigshafen-on-the-Rhine, and Heinrich Rinke, Leverkusen-Schlebusch, Germany; vested in the Alien Property Custodian

No Drawing. Application March 25, 1941, Serial No. 385,136. In Germany January 4, 1940
6 Claims. (Cl. 260—465)

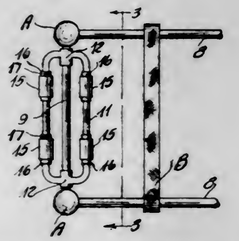
3. A compound of the group consisting of aromatic and halogenated aromatic hydrocarbons disubstituted in the nucleus by a partially hydrogenated cyclic radical containing a functional group in the ring, said compound being obtained by reacting two mols of a partially hydrogenated cyclic compound which is the diene addition product of a diolefin and a monomeric vinyl compound with one mol of a member of the group consisting of aromatic and halogenated aromatic hydrocarbons in the presence of a catalyst of the Friedel-Crafts type.

2,326,223

ROCKABLE ROLLER ASSEMBLY

Otto T. Hovarter, Ashley, Ind.

Application September 11, 1941, Serial No. 410,390
3 Claims. (Cl. 193—42)



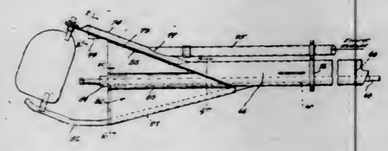
1. A quickly removable, rockable unit mounted on a casket receiving frame and comprising spaced apart, horizontally disposed bars terminating in saddles detachably engaging the end rail of the casket receiving frame, roller members journaled on said bars, and depending legs forming a part of each saddle and engageable with a stop for limiting the rocking movement of said unit.

2,326,224

OUTBOARD ENGINE CONSTRUCTION

Thomas Jackson, North Muskegon, Mich., assignor to Continental Motors Corporation, Detroit, Mich., a corporation of Virginia

Application January 31, 1942, Serial No. 429,021
6 Claims. (Cl. 115—17)



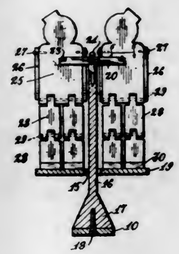
1. In an outboard engine assembly, an engine crankshaft, a flywheel directly driven by said crankshaft, a flywheel housing secured to the engine structure, and a tail piece assembly comprising a propeller shaft tubular housing secured directly to said flywheel housing, a propeller shaft extending longitudinally rearwardly of said engine and axially aligned with the engine crankshaft, said propeller shaft tubular housing axially positioned slightly off center relative to axis of said propeller shaft and flywheel housing whereby to house the propeller shaft substantially in the lower interior portion of said propeller shaft housing.

2,326,225

DANCING TOY

Joseph G. Jeffrey, Halifax, Nova Scotia, Canada, assignor of one-third to R. Byron MacLennan, Brookfield, Nova Scotia, Canada, and one-third to Osborne H. Parsons, Halifax, Nova Scotia, Canada

Application March 1, 1943, Serial No. 477,539
1 Claim. (Cl. 46—137)



In a dancing toy including a base, a narrow elongated vibratory member spacedly secured to one end of the base in parallel relation thereto, an enlarged centrally apertured stage formed at the free end of the member, a vertical post secured to the base and extending upwardly above the stage through the aperture thereof, an horizontal cross bar centrally pivoted to the end of the post for free swinging movement, and an articulated dancing figure freely suspended to each end of the cross bar, a screw eye secured to the back of each figure to constitute the figures suspension means, and a similar eye disposed vertically in the center of a step cut at each end of the cross bar and linked to the back eye of one figure to form the pivot, allowing swinging motion of the figures, said step acting as a stop for the back eye of each figure to limit downward movement thereof with respect to the stage, whereby said figures hang freely by the back to each end of the cross bar in a manner allowing an horizontal swinging movement through an arc of 180° around the suspension point a fixed distance above the stage, vibratory movement of the member by the finger of an operator causing audible contact of the stage with the lower limbs of the figures in tune with the motion imparted to said member.

2,326,226

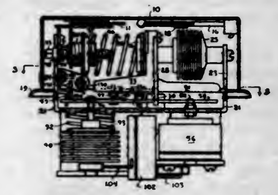
THERMOSTAT

Frederick D. Joesting, Chicago, Ill., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application August 2, 1940, Serial No. 350,003
18 Claims. (Cl. 236—86)

1. In a fluid pressure control device, in combination, a valve mechanism, a first pivoted lever adapted to operate said valve mechanism, a second lever parallel to said first lever and pivoted

on an axis substantially in the plane of said first lever and intermediate the pivot of said first lever and the point at which said first lever engages said valve mechanism, force transmitting means adjustable lengthwise of said levers for relatively positioning said two levers, a member movable with and extending substantially at right angles to said second lever and in line with



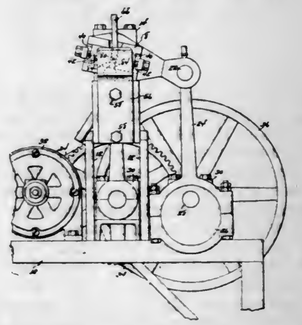
the pivot therefor, and a condition responsive device and a spring operating on said member substantially on a line parallel to said levers.

2,326,227

TRIMMING MACHINE

Spencer R. Keller, Handley, W. Va.

Application September 30, 1942, Serial No. 460,257
7 Claims. (Cl. 164—44)



1. A machine for trimming cutter bits having a work face and obstructive formations projecting beyond the face comprising an oscillatory head having spaced cutting means thereon, a cutter bit stop located between said cutting means and engageable with said work face to hold the work face in the plane of said cutting means, a cutter bit support for positioning the cutter bit against said stop, and means for oscillating said head to bring said cutting means alternately into trimming engagement with the obstructive formations.

2,326,228

CHEMICAL PROCESS

Morris S. Kharasch and Herbert C. Brown, Chicago, Ill., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application February 12, 1940, Serial No. 318,649
2 Claims. (Cl. 260—544)

1. A process of producing a carboxylic acid chloride which comprises reacting oxalyl chloride with an organic compound, which contains a portion which is aliphatically saturated and which is free from unsaturated linkages between acyclic carbon atoms in the presence of actinic light.

2,326,229

PROCESS OF PRODUCING CARBOXYLIC ACID CHLORIDES

Morris S. Kharasch and Herbert C. Brown, Chicago, Ill., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Original application February 12, 1940, Serial No. 318,649. Divided and this application December 4, 1942, Serial No. 467,912
2 Claims. (Cl. 260—544)

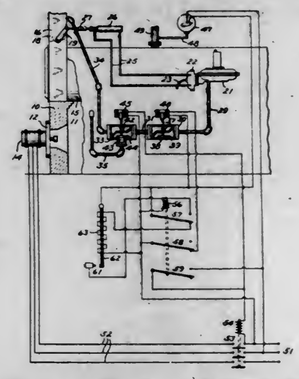
1. A process of producing a carboxylic acid chloride which comprises reacting oxalyl chloride with an organic compound which contains a portion which is aliphatically saturated and which is free from unsaturated linkages between acyclic carbon atoms in the presence of an organic peroxide.

2,326,230

FURNACE REGULATION

John J. Klinker, Decatur, Ill., assignor to A. W. Cash Company, Decatur, Ill., a corporation of Delaware

Application September 10, 1941, Serial No. 410,279
6 Claims. (Cl. 236—14)



1. A control system for a furnace having fuel supply means, a duct for the discharge of the gaseous products of combustion from the furnace, and a damper in the duct comprising means to start and stop the fuel supply means in accordance with the demand for heat, a regulator arranged to control the damper and responsive to the furnace pressure while the fuel supply means is operating, the regulator being adjusted for a predetermined sub-atmospheric pressure, and means to subject the regulator to the pressure in the duct beyond the damper when the fuel supply means is stopped and thus cause the regulator to close the damper.

2,326,231

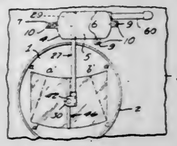
WINDOW CLEANING APPARATUS

Waldo L. Kraemer, Brooklyn, N. Y., assignor to Kearfott Engineering Co., Inc., a corporation of New York

Application May 17, 1941, Serial No. 393,884
4 Claims. (Cl. 15—253)

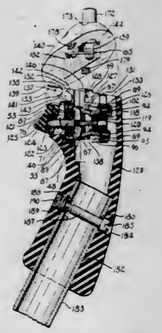
1. In a window cleaning apparatus, the combination of an oscillatory arm and means for oscillating said arm connected to one end thereof, a sleeve rotatably supported in the free end of said arm, a member slidably but nonrotatably supported in the bore of said sleeve, a wiper secured to one end of said member, spring means

biasing said member in one direction whereby said wiper is resiliently pressed into engagement with a window, and means for maintaining said wiper parallel to its initial position while it is being moved back and forth by the oscillation



of said arm, said last mentioned means comprising a crank-arm rigidly secured to said sleeve and a link having one end pivotally connected to a fixed member and having its other end pivotally connected to the free ends of said crank-arm.

2,326,232
ELECTRIC SWITCH
Alvin W. Krieger, Milwaukee, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application November 16, 1942, Serial No. 465,747
19 Claims. (Cl. 200—157)

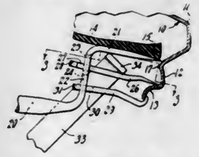


1. In an electric snap switch, in combination, a punched and stamped sheet metal frame of substantially U-shape, said frame having a relatively large substantially rectangular opening common to the connecting portion and the respective arms thereof, the ends of said opening adjacent the lower ends of the respective arms having opposed pivot notches opening thereto, a pair of punched and stamped sheet metal contactor members each having a pair of integral pivot lugs, each pair of lugs being freely insertable into an alined pair of said pivot notches in the respective arms of the frame, a molded insulating member secured to the outer face of the connecting portion of said frame, said insulating member having a pair of spaced downward projections formed integrally therewith, said projections being adapted to substantially fill the portions of said opening located within the respective arms to thereby close all of said pivot notches whereby said contactor members are retained in assembled relation to said frame, an operating member carried by said insulating member and reciprocable relatively thereto, a pair of plungers carried by said operating member at the lower end thereof, a coiled compression spring interposed between said plungers to bias the same jointly against the respective contactor members, said plungers being adapted to effect movements of said contactor members jointly with a snap action to opposite extreme positions upon predetermined degrees of movement of said operating member in opposite directions respectively.

2,326,233
FIREPROOFING COMPOSITION
Martin Leatherman, Hyattsville, Md.
No Drawing. Application June 4, 1941, Serial No. 396,537
12 Claims. (Cl. 252—8.1)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

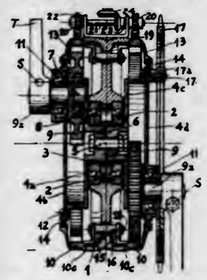
1. A fireproofing composition containing zinc carbonate in finely divided form and a chlorinated resinous material which will liberate hydrogen chloride at temperatures below the decomposition point of zinc carbonate.

2,326,234
TIRE TOOL
Harold J. Leidel, Wadsworth, Ohio
Application January 29, 1941, Serial No. 376,450
3 Claims. (Cl. 157—6)



1. A tire tool comprising a reversely curved structure of which one end portion constitutes a hand-grip and the other end portion is formed as a jaw, there being a connecting piece intermediate said hand-grip and jaw, which piece is formed with a pair of longitudinally extending slots with adjacent ends in spaced apart relation, a second jaw disposed beside the first jaw and formed at one end with a reduced neck that is slidably received in the slot nearest the first mentioned jaw, a hook member formed at one end with a reduced neck receivable in the other of said slots, said hook member being engageable with a rim flange to assist in retaining the pair of jaws between a tire bead and a rim flange, and means for urging said jaws apart from each other.

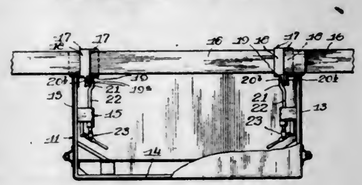
2,326,235
TREAD CRANK MECHANISM, PARTICULARLY FOR CYCLES
Fritz Lienhard, Zurich, Switzerland, assignor to Magus A. G., Zurich, Switzerland, a corporation
Application January 16, 1941, Serial No. 374,784
In Switzerland March 26, 1940
14 Claims. (Cl. 74—300)



1. In a tread crank mechanism, particularly

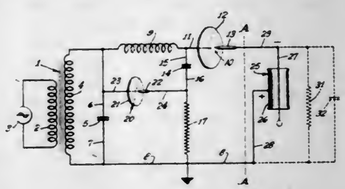
for cycles, the combination comprising a bearing element mounted in the cycle frame, a rotor element rotatively mounted in said bearing element, a pair of opposed journals located in said rotor element, a tread crank having a pedal having a shaft located in each of said journals, a planetary member fixed to each shaft, transmitting means interposed between each planetary member and said rotor element and a sprocket wheel fixed to said rotor element for driving the cycle whereby upon rotation of said tread cranks and rotor element the pedals upon said tread cranks will describe an elliptical path having the major axis thereof inclined downwardly and rearwardly.

2,326,236
PONTOON BRIDGE
Harvey B. Lindsay, Evanston, Ill., assignor, by mesne assignments, to Lindsay & Lindsay, Chicago, Ill., a copartnership
Application June 5, 1942, Serial No. 445,945
14 Claims. (Cl. 14—27)



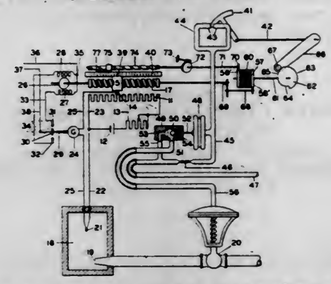
14. A pontoon bridge structure including a plurality of pontoons and a plurality of balks supported thereon, with their ends overlapping, and means on said balks for detachably rendering the lapped joints of said balks rigid with each other at a plurality of points therealong, said means being detachably connected with their respective pontoons.

2,326,237
RECTIFYING APPARATUS FOR ELECTRICAL PRECIPITATORS
Marcel A. Lissman, Temple City, Calif., assignor to Western Precipitation Corporation, Los Angeles, Calif., a corporation of California
Application January 12, 1942, Serial No. 426,503
20 Claims. (Cl. 183—7)



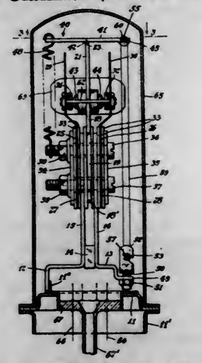
1. Rectifying means for impressing a rectified high potential between the complementary electrodes of an electrical precipitator or the like, comprising: an alternating current source; a main asymmetric gap means normally isolating said source from at least one of said complementary electrodes; and impulse means including another gap means for deriving high potential unidirectional voltage impulses from said source and applying said impulses to said main gap means to cause said main gap means to conduct.

2,326,238
CONTROLLING APPARATUS
Arthur R. Mabey, Waterbury, Conn., assignor to The Bristol Company, Waterbury, Conn., a corporation of Connecticut
Application June 3, 1941, Serial No. 396,483
6 Claims. (Cl. 74—1)



1. In an instrument for measuring and controlling the magnitude of a variable condition, means sensitive to changes in said magnitude, a first deflecting member adapted by its deflection to provide a measure of said magnitude, a first rotatable element controlled by said sensitive means for positioning said member along a given path, a second deflecting member positionable along a path parallel to the first-mentioned path to positions corresponding to desired magnitudes of said condition, a second rotatable element operable concurrently with the positioning of said second deflecting member, a differential gearing comprising two main gears and a planetary member adapted to partake of the resultant motion of said main gears, one of said main gears being connected to the first rotatable element for rotation thereby, and the other of said main gears being connected to the second rotatable element for rotation thereby, and means controlled by said planetary member for regulating said variable condition.

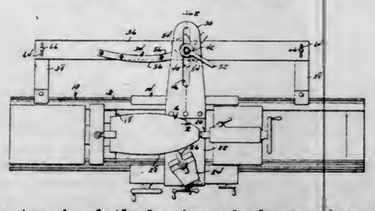
2,326,239
ELECTROTHERMALLY OPERATED CIRCUIT CONTROLLER
Frederick B. MacLaren, Jr., Waterbury, Conn., assignor to The Bristol Company, Waterbury, Conn., a corporation of Connecticut
Application November 5, 1940, Serial No. 364,341
23 Claims. (Cl. 200—113)



12. A circuit controlling device comprising contacts, means comprising a group of expansible conductors electrically in series and mechanically in parallel for controlling engagement of said contacts, means for maintain-

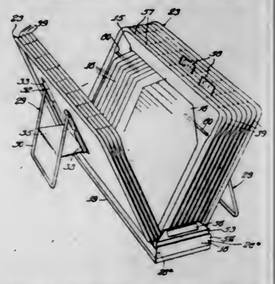
ing mechanical continuity of said group despite interruption of the electrical continuity of said conductors, an evacuated closed vessel enclosing said contacts and conductors, and shielding means between said contacts and conductors for preventing transfer of electrons therebetween, said shielding means comprising a conducting member electrically connected to one of said contacts.

2,326,240
CONTOUR CUTTING ATTACHMENT FOR TURNING LATHES
Charles F. Malzahn, Perry, Okla.
Application April 11, 1942, Serial No. 438,607
1 Claim. (Cl. 82—14)



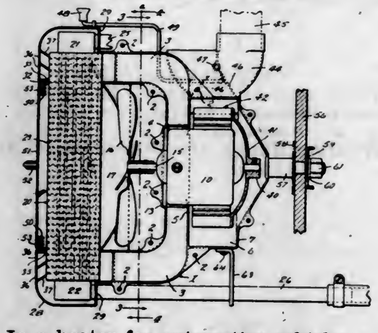
In a turning lathe having a bed, a carriage movable longitudinally of the bed and a tool carrying cross slide on the carriage; the combination of a contour slide fixedly related to the lathe, an arm secured to said cross slide and having a slot, a sleeve extending through said slot and having a shoulder engaging one side of the arm, a nut threaded on said sleeve engaging the opposite side of said arm to secure the sleeve against accidental movement on the arm, a body having a pin rotatably supported in said sleeve, and guide rollers on said body engaging said contour slide to move the arm and shift the tool in a path conforming to the contour of said contour slide.

2,326,241
VISIBLE RECORDS DEVICE
Alfred M. Martin, Park Ridge, Ill.
Application March 10, 1941, Serial No. 382,499
7 Claims. (Cl. 129—16)



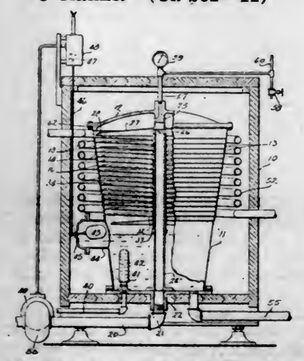
6. In a visible records device which comprises a normally horizontal base-like holder having a plurality of substantially parallel transverse card engaging guides, and a pair of covers hinged along each side of said holder, that improvement therein which comprises a self-acting prop carried by each cover, said prop in one position lying against the face of said cover but being adapted to reach outwardly therefrom when a cover is caused to lean outwardly to support the device from capsizing, said prop comprising a weighted member in the form of a plate hinged to the cover at one end and free to fall at its other end under the influence of gravity, and means including a pair of legs limiting the falling movement of the plate to a position extending between said legs and said cover.

2,326,242
AUTOMOTIVE VEHICLE HEATING APPARATUS
Edward L. Mayo, Cleveland, Ohio, assignor to The Bishop & Babcock Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application January 11, 1937, Serial No. 119,897
4 Claims. (Cl. 257—137)



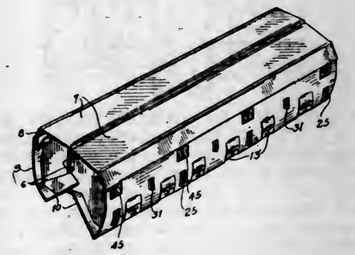
1. In a heater for automotive vehicles, a radiator core, a supporting housing extending rearward from said core providing spaced apart arms defining air inlet passages, said core being mounted on the forward ends of said arms with its outer portions overlying the forward ends of said passages, a fan of the radial delivery type for drawing air through said outer portions of said core and through said passages, a housing for said fan secured to said arms, means for directly mounting said fan housing on a part of the vehicle, a fan of the axial delivery type disposed adjacent the rear of said core between and guarded by said arms for forcing air through the inner portion of said core between said arms, and a single motor operating both fans.

2,326,243
SATURATOR
George J. Meyer, Milwaukee, Wis., assignor to Geo. J. Meyer Manufacturing Co., Cudahy, Wis., a corporation of Wisconsin
Application February 24, 1941, Serial No. 380,388
3 Claims. (Cl. 261—11)



1. A saturator comprising the combination with an upright container, having an axially disposed feed pipe with outlets near its top portion, and a service pipe leading from the bottom portion of the container, of a series of annular distributing plates encircling said pipe and having a slight frusto-conical pitch for radial distribution of liquid in a sheet-like film of progressively decreasing depth, a series of intermediate liquid receiving downward and inwardly inclined annular pan-like plates each extending from the wall of the container underneath the outer margin of one of the distributing plates and apertured along their lower margins, float means for controlling the admission of liquid through said pipe to maintain a substantially constant level in the lower portion of the container, means for delivering and distributing gas into and through liquid accumulating in the bottom portion of the container to maintain a gas-charged atmosphere under pressure in the space occupied by said plates, and means for keeping the accumulated liquid at a substantially constant low temperature, for maximum absorption of the infeeding gas.

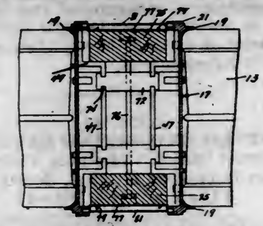
2,326,244
EGG CARTON
George C. Moore, Jr., Los Angeles, Calif., assignor, by direct and mesne assignments, to Egg-Safety Carton Corporation, New York, N. Y., a corporation of Delaware
Application January 15, 1941, Serial No. 374,518
17 Claims. (Cl. 229—29)



1. A carton for eggs and the like comprising two blanks with partition stampings along one of their edges, said stampings having scored connection with their respective blanks and adapted to be turned at right angles to their respective blanks, said stampings forming partitions in the carton when the two blanks are folded to form the carton, one blank and its stampings forming a right carton side and left partition sides respectively, and the other blank and its stampings forming a left side of the carton and right partition sides, respectively.

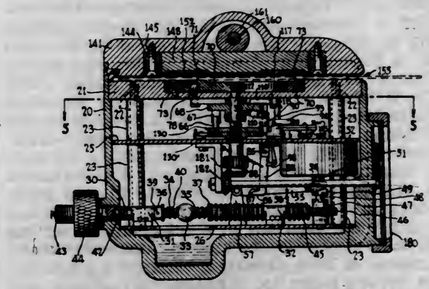
2,326,245
WALL FOR BUILDINGS
Raymond Nichols, Pittsburgh, and John A. Desmone, Springdale, Pa., assignors to Pittsburgh Corning Corporation, a corporation of Pennsylvania
Application October 26, 1940, Serial No. 362,962
10 Claims. (Cl. 72—42)

1. A wall structure comprising a series of panels, each panel being composed of a plurality of glass blocks, the panels being provided with a frame of perimeter bars, the bars between adjacent edges of the panels being provided with



stirrups comprising straps of metal and link-like key elements interconnecting the stirrups.

2,326,246
SPEED INDICATING AND RECORDING DEVICE
Emmanuel Christ Nicholides, Chicago, Ill.
Application January 7, 1942, Serial No. 425,828
20 Claims. (Cl. 234—58)

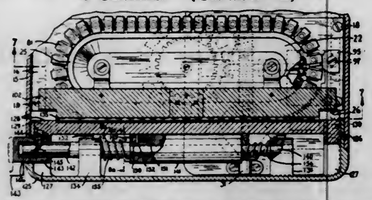


1. In a speed measuring device, driving means moving at the rate of speed to be measured; a position member moved by said driving means to a position corresponding to the momentary speed; measuring means having a measuring member movable by said position member to positions corresponding to different measured speeds, and inluding means urging said measuring member to follow the motion of said position member under conditions of increasing and decreasing speeds; and preventing means for preventing said measuring member from following the motion of said position member upon the occurrence of a speed decrease, including means actuated in response to a speed decrease and operative to remove the preventive action of said preventing means after a predetermined timing action.

15. In a speed measuring device, driving means moving at the rate of speed to be measured; a position member moved by said driving means to a position corresponding to the momentary speed; measuring means having a measuring member movable by said position member to positions corresponding to different measured speeds, and including means urging said measuring member to follow the motion of said position member under conditions of increasing and decreasing speeds; preventing means for preventing said measuring member from following the motion of said position member upon the occurrence of a speed decrease, including means actuated in response to a speed decrease and operative to remove the preventive action of said preventing means after a predetermined timing action; a relatively stationary measuring member cooperating with said movable measuring member, said movable measuring member and said

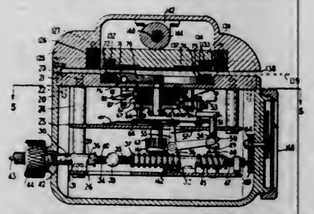
relatively stationary measuring member having cooperating surface elements correlated to give in each position a measure of the speed condition; and a pressure member for forcing a sheet to be imprinted against the surface elements of said measuring members.

2,326,247
SPEED EXHIBITING DEVICE
Emmanuel Christ Nicholides, Chicago, Ill.
Application December 11, 1942, Serial No. 468,682
3 Claims. (Cl. 264—1)



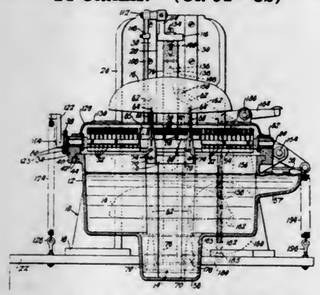
1. In a speed indicating device, from which, for example, a printed record of the speed indication of a moving body may be made; driving means moving at the rate of speed to be indicated, a supporting structure, guide means including an endless array of flexibly joined guide members mounted on said supporting structure and arranged to be impelled at a predetermined speed along a guideway, and endless array of indicator elements impelled and guided by said guide members along said guideway and arranged to be individually movable relative to said guide members in a direction lateral to said guideway from a normal position to a set position, setting means including a setting member operative under the control of said driving means at a predetermined setting point for consecutively setting said individual indicator elements in a position corresponding to the momentary speed of the driving means, retaining means including at least one retaining member operative to retain a plurality of said indicator elements passing said setting point in their set positions along a diagram portion of said guideway to form a speed diagram of the motion of the body, restoring means including a restoring element located along a predetermined guideway portion for automatically restoring each indicator element passing said predetermined guideway portion to its normal position, said supporting structure including at least one rigid member located along the diagram portion of said guideway for maintaining indicating portions of the indicator elements forming said diagram arrayed substantially in a plane.

2,326,248
SPEED EXHIBITING DEVICE
Emmanuel Christ Nicholides, Chicago, Ill.
Application December 11, 1942, Serial No. 468,683
5 Claims. (Cl. 264—1)



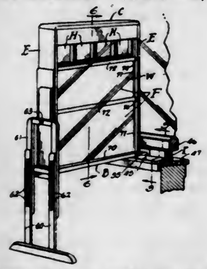
1. In a speed measuring device, from which, for example, a printed record of the speed indication of a moving body may be made: driving means moving at the rate of speed to be measured, means including a measuring member and means actuated by said driving means to move said measuring member to positions corresponding to its different speeds, locking means including a movable follower member arranged to follow the motion of said measuring member and operative to lock said measuring member in positions of different speeds, and control means operative upon the occurrence of a speed increase to exert a preventive action preventing said locking means from locking said measuring member in a position corresponding to said speed increase, said control means including means actuated after a predetermined timing action to eliminate said preventive action.

2,326,249
CEMENTING MACHINE
Ernest S. Nokes, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application September 26, 1940, Serial No. 358,508
14 Claims. (Cl. 91—32)



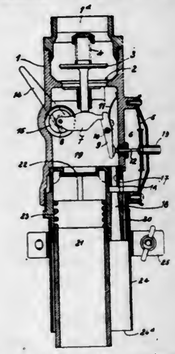
1. In a machine for coating a counter, a container, a holder for said counter, said holder being mounted above the container, means for moving said holder from its initial position above the container into and out of the container, wipers mounted adjacent to the container, and means to move said wipers from an inoperative position to an operative position intersecting the plane of the path of movement of the counter holder as it is withdrawn from said container, said wipers in their operative position closing the mouth of the container.

2,326,250
BEE OBSERVATION UNIT
Donald E. O'Beirne, Waukesha, Wis.
Application August 19, 1941, Serial No. 407,434
13 Claims. (Cl. 6—1)



1. A bee observation unit in the form of an enclosing structure having a bottom and at one side an observation opening grooved along its opposite ends in register with a slot through the bottom, a transparent side receivable through the bottom slot and upwardly movable therethrough to be guided by and supported within the opposite grooves in the ends, a top closure for the enclosing structure movable to expose the grooves upon their upper extremities, and means movably associated with the bottom for sustaining the transparent side in a fixed position to complete the enclosure and adapted, in a second position, to permit the transparent side to slide vertically for movement through the bottom and adapted to permit movement of a follower slide downwardly while guided within the same end grooves.

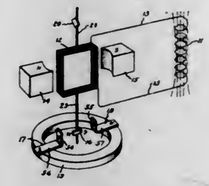
2,326,251
FILLING LIMITER
Emile Piquerez, Saint-Cloud, France; vested in the Alien Property Custodian
Application January 18, 1940, Serial No. 314,513
In France January 12, 1939
5 Claims. (Cl. 226—127)



4. A filling apparatus for receptacles comprising, a frame having a liquid inlet and an outlet tube for liquid to flow into the receptacle, a valve for controlling the inlet of liquid to the frame, a chamber having a movable wall, said wall being connected to said valve to control the closing of the valve when said wall moves in one direction under the influence of a vacuum of sufficient value applied thereto, an ejector pump in said frame forming a first path for liquid to pass through said frame to the receptacle, said frame having an opening connecting the ejector pump with said chamber to create a vacuum in said chamber when the liquid in the receptacle reaches a certain level, said frame having a second path of flow for liquid to pass from the inlet to the receptacle, a valve in said second path normally closed when not operating, said second path valve having resilient means pressing it to closed position and said resilient means being so calibrated as to ensure a sufficient flow through the ejector pump to operate the movable wall and to let surplus liquid flow directly to the receptacle through said second path when the required flow through the ejector pump is reached or exceeded.

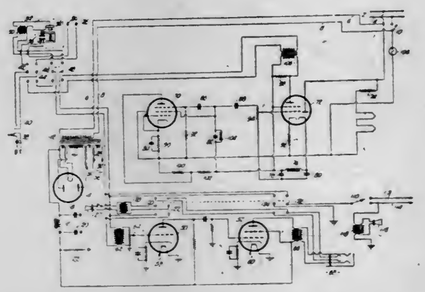
2,326,252
GALVANOMETER
Theodore A. Rich, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application January 2, 1941, Serial No. 372,778
9 Claims. (Cl. 171—95)

2. A sturdy sensitive galvanometer comprising an element movable in response to a quantity to be measured or indicated, a resilient support for the movable element inherently subjecting the movable element to some restraining force which reverses at a zero or neutral position of the movable element, means for subjecting the movable element to a counteracting auxiliary force changing in direction at substantially the same position of the movable element as the restraining force for substantially canceling the restraining force, said means comprising a pair of relatively



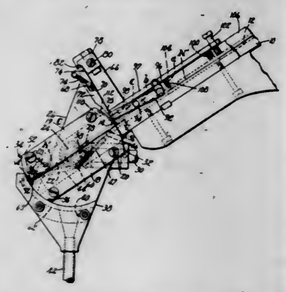
rotatable members one of which is mechanically connected to the said movable element of the galvanometer, said relatively rotatable members comprising a permanent magnet extending transverse to the axis of rotation of the relatively rotatable members and a device for directing the magnetic flux through the permanent magnet in a direction opposite to the direction of the flux produced by the permanent magnet when it is in the angular position corresponding to said zero or neutral position of the movable element.

2,326,253
TRANSMISSION OF SOUND AND CONVERSATION
Fred Roberts and Arthur W. Bennett, Kansas City, Mo.
Application October 23, 1942, Serial No. 463,086
1 Claim. (Cl. 179—4)



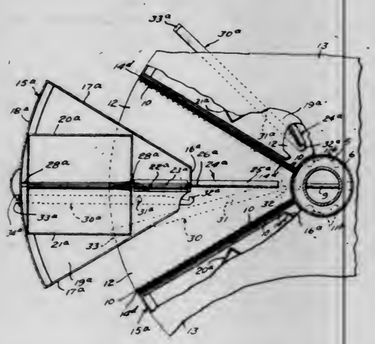
In a composite system for the transmission of talking impulses, telegraphy impulses and power impulses over a common conducting line, means for impressing talking impulses on the said line; means for impressing telegraphy impulses on the said line; means for impressing power impulses on the said line; an audio-amplifier for boosting the particular impulse passing over said line; a switching system for selecting and associating either the means for impressing talking impulses, the means for impressing the telegraphy impulses or the means for impressing the power impulses on the said line; and a power supply unit for the said several impulse impressing means, the said switching system being adapted to supply current to the selected impulse impressing means from said power supply unit.

2,326,254
FASTENING DISTRIBUTOR
Charles A. Robinson, Salem, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application October 30, 1941, Serial No. 417,137
30 Claims. (Cl. 1—39)



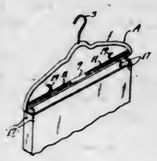
1. In delivery mechanisms for fastenings which are of different thickness at their opposite ends, means for supplying fastenings indiscriminately with either end in advance, and means engaging the fastenings at transversely spaced points for measuring their thickness and for delivering them as determined by the measurement with the thicker ends of all in the same direction.

2,326,255
CABINET
Philip Rosenberg, New York, N. Y.
Application January 3, 1942, Serial No. 425,495
7 Claims. (Cl. 45—77)



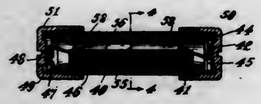
7. In a cabinet including a cabinet frame comprising upper and lower horizontal walls and vertical side walls convergent toward a center point and defining a drawer space, and a drawer slidable into and out of said space, in combination, a radially extending guide member on the frame substantially midway between the side walls of said drawer space, radially extending cooperative guiding means on the drawer substantially midway between the side boundaries thereof, and a locking member carried by the drawer and extending beyond the outer end thereof, means supporting the locking member on the drawer for operative movement relative thereto, said locking member cooperative with the guide member on the frame to hold the drawer in closed position, and operable when the drawer is closed to lock and unlock the drawer.

2,326,256
GARMENT HANGER
James H. Russell, St. Louis, Mo., assignor, by mesne assignments, to Anthony De Luca, St. Louis, Mo.
Application July 18, 1941, Serial No. 402,907
1 Claim. (Cl. 223—88)



In a garment hanger, a bow-shaped member constructed of a channel-shaped strip having its legs presented downwardly, a bar of channel shape in section extending lengthwise between, and at its ends disposed within the channel, and fixed to the ends of said member, said bar having its legs presented downwardly and marginally arcuately bent in the provision of slide-way forming grooves opening inwardly in opposed spaced relation, said bar having a central web provided at its opposite ends with longitudinally aligned slots, slides each constructed of a section of wire bent upon itself and integrally including a pair of strands sized and lengthwise extending in spaced relation and disposed for movement longitudinally within said grooves, said strands being connected at their one end by an arcuate bight and at their opposite end being bent inwardly and downwardly to extend through the open side of the bar and then extended outwardly and downwardly in the provision of a pair of spaced parallel elongated legs for garment engagement, springs lengthwise disposed within the channel of said bar and connected to said slides and to the bar for yieldingly retaining the slides and their said legs in outwardly presented position, and finger-grips fixed to the respective bights of said slides and working in said slots for manipulating the slides against the tension of said springs.

2,326,257
TIME LAG FUSE
Lambert Schmidt and George Schmidt, Leeds, N. Y.
Application December 4, 1941, Serial No. 421,552
13 Claims. (Cl. 200—131)

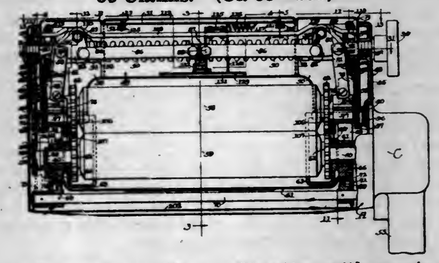


1. In a time lag fuse, a casing, a member of insulating material within said casing, and a fuse strip initially held in intimate contact with the surface of said member, said member being of heat absorption material and of such mass relative to the amperage capacity of said strip as to absorb heat from said strip for a predetermined length of time upon a given overload through said strip, and said strip having a greater coefficient of thermal expansion than said member and having a zone of reduced cross section adapted to move out of contact with said member upon continued overload heating of the strip.

2,326,258
PRODUCTION OF BUTADIENE
Otto Schmidt, Heidelberg-Ziegelhausen, and Sigmund Stadelmann, Ludwigshafen-on-the-Rhine, Germany; vested in the Alien Property Custodian
No Drawing. Application June 1, 1940, Serial No. 338,380. In Germany December 19, 1938
5 Claims. (Cl. 260—680)

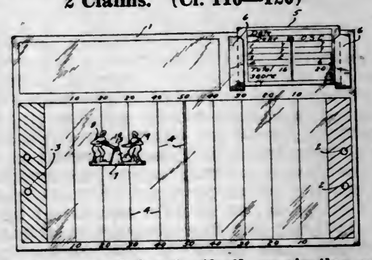
1. A process for the production of butadiene which consists in leading butylene in admixture with oxygen and carbon dioxide over an oxidation catalyst at temperatures exceeding 500° C. but below those at which substantial splitting of the carbon chain occurs at a speed that only part of the butylene is converted, the amount of oxygen admixed with the butylene being from 1 to 2 molecular proportions for each molecular proportion of hydrogen split off and the amount of carbon dioxide being at least equimolecular to the amount of oxygen.

2,326,259
CLOTHES WRINGER
Simon E. Schroeder, Chicago, Ill., assignor to Barlow & Seelig Mfg. Co., Ripon, Wis., a corporation of Delaware
Application December 13, 1935, Serial No. 54,282
35 Claims. (Cl. 68—253)



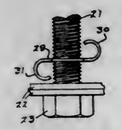
1. In a wringer, the combination with a pair of cooperating rolls operating under pressure; of means for supporting said rolls in operative opposed relation with the axes thereof in parallel relation in a common plane; driving means for said rolls; means controlled by the operator for displacing one of said rolls with respect to the other to either side of said common plane to release said rolls from operative engagement; and means operated through release of said rolls in either of said directions for disconnecting the driving means and stopping rotation of said rolls.

2,326,260
SCORE CARD
Homer M. Schubert, Salem, Oreg.
Application February 18, 1942, Serial No. 431,455
2 Claims. (Cl. 116—120)



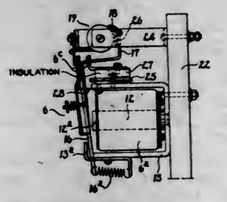
1. A score card for football or similar games, marked in simulation of the markings of the playing field to represent different plays of the game, and an indicator to be manually moved to any position on the playing field on the card in correspondence with any particular immediate play on the field, the indicator presenting two figures distinctly representing the respective playing teams, and a ball movable at will through a predetermined path and relative to each figure, whereby to place the ball at will in simulated possession of either figure to indicate possession of the ball by the team represented by that figure.

2,326,261
LOCK NUT
Winsor Shippee and Carl C. Shippee, Red Bank, N. J.
Application August 23, 1940, Serial No. 353,948
3 Claims. (Cl. 151—20)



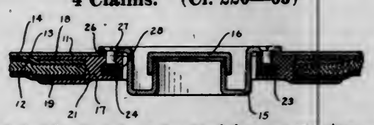
3. A lock nut for a threaded bolt comprising a plate of sheet material having a thickness substantially equal to the distance between two adjacent threads on said bolt and having a hole in the center thereof with a diameter slightly larger than the crest diameter of the said bolt, said plate having opposite ends thereof curved outwardly in opposite directions away from said plate, whereby when said lock nut is slipped over a bolt one of said curved ends will engage the object to be secured and alter the angle of said plate so as to cause the edges of said hole to engage the threads of said bolt.

2,326,262
CIRCUIT CONTROLLER
Carroll Stansbury, Wauwatosa, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application July 29, 1940, Serial No. 348,169
4 Claims. (Cl. 175—320)



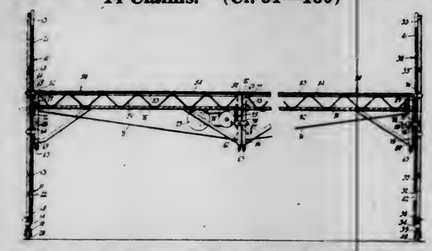
4. Current controlling means comprising a switch tending to close, a magnetic circuit including a core and a movable armature, an energizing winding to induce a magnetic flux in said core and armature for switch opening, said switch upon deenergization of said winding returning to closed position, a condenser associated with said winding to delay its deenergization and thereby delay reclosure of said switch, and electromagnetic means acting upon said switch in reclosing to insure a given contact pressure thereof but only after release of said armature under the influence of said condenser, thus permitting action of said condenser free from influence by said second mentioned electromagnetic means.

2,326,263
TANK FITTING
Hubbard W. Steiner, Detroit, Mich., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application April 26, 1941, Serial No. 390,437
4 Claims. (Cl. 220—63)



1. A tank structure comprising a puncture sealing container having an opening therein, a resilient annular body positioned within the opening, a pair of spaced resilient flanges formed integral with said annular body and extending radially outward therefrom and secured to opposite surfaces of the puncture sealing container, a ring of rigid material adapted to have screw threads formed therein imbedded within the annular body, an outer casing for supporting the container, and means for securing the ring to the outer casing.

2,326,264
GRINDING MACHINE
Lowell Stetler, Cleveland, Ohio, assignor, by mesne assignments, to Samuel T. Haas, Cleveland, Ohio
Application November 6, 1940, Serial No. 364,535
14 Claims. (Cl. 51—180)

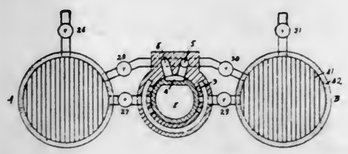


4. In a machine of the class described, a pair of end frame structures, a power table, means for demountably engaging said power table with one end frame in a vertically slidable relationship, elevating means carried by said power table and engaging one end frame to elevate said power table on said one end frame, an auxiliary table, means for demountably engaging said auxiliary table on the other of said end frames, means for demountably connecting said auxiliary table to said power table to provide a truss structure extending between said end frames adjustable to compensate for the sagging of the power table and auxiliary table under load, and an elevating shaft carried by said auxiliary table coupled at one end to the elevating means carried by said power table and at the other end engaging said second end frame to elevate said auxiliary table on said second end frame.

2,326,265
UREA-FORMALDEHYDE RESIN
Pliny O. Towney, Chicago, Ill., assignor to The Sherwin-Williams Company, Cleveland, Ohio, a corporation of Ohio
No Drawing. Application June 21, 1941, Serial No. 399,207
14 Claims. (Cl. 260—70)

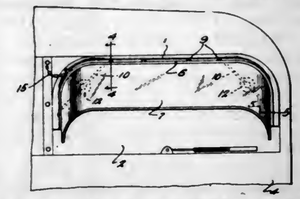
1. The method of making a urea-formaldehyde condensation product which comprises condensing in the presence of an alkaline catalyst at least 2 moles of formaldehyde and 1 mole of urea in an aqueous solvent mixture comprising water and a volatile organic solvent, said solvent mixture producing a solvent for the initial ingredients and for the condensation product at the end of the reaction, said reaction mass having initially at least 1 part by weight of formaldehyde to 1.2 parts by weight of water, and a non-aqueous solvent component miscible with water, said reaction being carried out at a temperature from 57° C. to 80° C. for a period from 2 to 6 hours to form a homogeneous reaction solution containing a condensation product, the longer time corresponding to the lower temperature; reducing the aquosity arising from water in the ingredients employed to not more than 20% by weight by adding to the mass an acid catalyst and a solvent alcohol miscible with the reaction mass when beginning the next step and boiling over 100° C., said acid catalyst being an acid having a dissociation constant in the range from 0.000214 to 0.14 and being one which has an anion-forming portion of its molecule non-hydrolyzable to form an acid having a dissociation constant greater than 0.14, whereby the aqueous mass is non-gelling in the progress of the acid catalyzed condensation; distilling the mass to remove water whereby an acid catalyzed condensation occurs producing a homogeneous reaction mass, whereby as distillation is continued volatile matter including water is driven off, condensation is continued, and the reactant mass forms a homogeneous syrup; then when the reaction mass is a syrup at a temperature of at least 94° C. adding a strong acidic catalyst of a character so much stronger than the said weak acid that if used in place of said weak acid catalyst it will produce gelling of the mass, and continuing the distillation to remove residual water and excess alcohol to attain at a temperature well over 100° C. a substantially water-free syrup which is capable of dilution with a solvent to form a resin solution when cold.

2,326,266
INTERNAL COMBUSTION AND APPARATUS THEREFOR
Alfred M. Thomsen, San Francisco, Calif.
Application February 2, 1942, Serial No. 429,236
6 Claims. (Cl. 123—59)



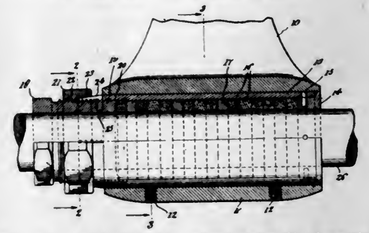
3. A heat-recuperative internal combustion motor assembly which comprises; a prime-mover, proper, in which the fuel is burned; a charging heat accumulator connected to and heated by the exhaust of said prime-mover; a discharging heat-accumulator, previously charged by means of said exhaust from said prime-mover; means for compressing air and for transferring said compressed air through the discharging heat accumulator to the prime-mover, proper; means for periodically reversing the flow through said heat accumulators; and means for interconnecting the various individual items thus enumerated into one assembly.

2,326,267
WINDSHIELD ATTACHMENT
Jaroslav Vavroch, Cedar Rapids, Iowa
Application February 24, 1943, Serial No. 476,952
2 Claims. (Cl. 296—95)



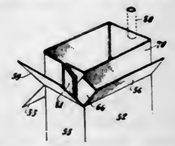
1. A windshield attachment comprising a substantially U-shaped frame for mounting on a windshield, a hood mounted on said frame, rods mounted diagonally in the corner portions of the frame, and vacuum cups mounted on said rods and engageable with the windshield for securing the attachment in position thereon.

2,326,268
ADJUSTABLE SHAFT BEARING
Gustave Walter, Jersey City, N. J.
Application March 25, 1943, Serial No. 480,527
3 Claims. (Cl. 308—36.1)



1. In an adjustable strut shaft bearing, a sleeve closed at one and open at its other end, said open end having axially running angularly displaced slots extending through the free end of the sleeve, packing material in the sleeve, a packing gland movable on the material through the open end of the sleeve, and means to compress the slotted end of the sleeve on said gland.

2,326,269
LINED CARTON
Harry F. Waters, New York, N. Y.
Original application May 13, 1941, Serial No. 393,171. Divided and this application May 16, 1942, Serial No. 443,290
4 Claims. (Cl. 229—14)



1. A four-sided, lined tubular carton, adapted to be erected from collapsed form, having at least four longitudinal score lines defining opposed pairs of main and end panels and a glue flap and top and bottom closure flaps hingedly connected to said panels, a tubular liner adhesively secured to at least one pair of said panels to open and close with the carton and having a longitudinal seam flattened in the plane of one panel with a fold line adjacent to the medial line of said panel, and ears connected to the carton forming extensions of said glue flap to provide a continuous folding edge and a continuous supporting surface for the longitudinal seam of the liner.

2,326,270
CHEMICAL COMPOUND AND PROCESS
James Herbert Werntz, Brandywine Hundred, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application May 27, 1939, Serial No. 276,048
2 Claims. (Cl. 260—459)

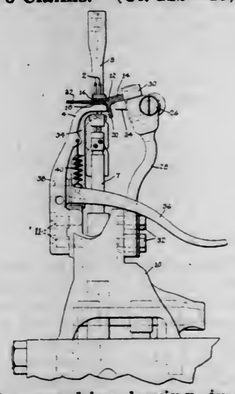
2. An alkali metal heptadecyl-9 sulfate.

2,326,271
DENTAL VULCANIZING FLASK
Ernst Wessinger, Long Island City, N. Y.
Application January 22, 1942, Serial No. 427,737
1 Claim. (Cl. 18—33)



A dental flask comprising a cup-shaped pentagonal base having convergently inclined walls, a two part hingedly connected hollow body having reversely inclined walls to fit thereon, cooperative means on said base and body to cause mutual alinement, a flange on said cover to clampingly extend over said body when assembled means to clamp the parts of said body when in closed relation, a cover having guide flanges to suit said body when closed, bolts having heads set permanently in said base to extend upward exteriorly said body through said cover, and nuts for said bolts to clamp all of said elements in operative relation.

2,326,272
SHOE SEWING MACHINE
Carl F. Whitaker, Beverly, Mass., assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J., a corporation of New Jersey
Application November 1, 1939, Serial No. 302,382
8 Claims. (Cl. 112—46)



1. A sewing machine having, in combination, stitch forming devices, a work support, a presser

foot and a welt guide having angularly disposed welt edge and welt side surface engaging elements, the side surface engaging element being mounted in angular relation transversely of the welt to the work supporting surface of the work support with its adjacent edge at substantially the same level with the work support for directing and supporting one edge of a welt strip cut along its opposite edge parallel to the grain surface to divide said edge into separate flaps, at least one of which is applied to the marginal portion of a shoe upper to be sewn thereto, the edge engaging element on the guide being located to deflect the remaining flap at an angle clear of the seam against the work support by pressure on the welt edge of the edge engaging element.

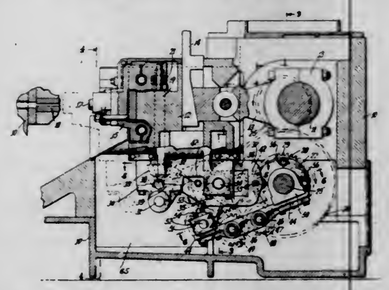
2,326,273

SHAFT DRIVING MECHANISM

Richard Lester Wilcox, Waterbury, Conn., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn., a corporation of Connecticut

Application February 2, 1942, Serial No. 429,243

22 Claims. (Cl. 10—12)



1. In combination with a reciprocating element; a slide independently movable thereon and transversely thereof, a shaft journaled in the reciprocating element perpendicular to the path of movement thereof; a shaft journaled in a fixed part; means between the shafts for imparting an oscillating movement to the shaft in the reciprocating element; and means between the slide and the first named shaft for imparting movement to the slide.

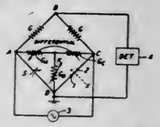
2,326,274

ELECTRIC MEASURING APPARATUS

Clarence H. Young, Lincoln Park, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application February 27, 1941, Serial No. 380,771

7 Claims. (Cl. 175—183)



1. In an electric bridge having four terminals, a conductance standard therefor comprising a star-connected conductance network having three branches, two of which are adapted for differential adjustment, and the third of which is separately adjustable, and means connecting the differentially adjustable branches to two opposite bridge terminals and the third branch to one of the remaining bridge terminals.

2,326,275

PROCESS FOR THE PREPARATION OF CATALYSTS FOR HYDROGENATION

Joseph Zeltner, Paris, France; vested in the Alien Property Custodian

No Drawing. Application April 1, 1939, Serial No. 265,605. In France April 11, 1938

9 Claims. (Cl. 252—259)

4. A process for preparing a metal catalyst which comprises treating an alloy which consists essentially of nickel with metal of the group consisting of alkaline earth metals and magnesium, with dilute acetic acid of not substantially above 20% strength.

5. A process for preparing a metal catalyst which comprises treating an alloy consisting essentially of nickel with a more strongly electropositive metal which is readily dissolved by organic acids even when in the diluted condition, with a mild organic acid, the acid used being one that forms a water soluble salt with the more electropositive metal in said alloy, continuing said treatment until the said electropositive metal is dissolved as a salt, and separating said salt and the undissolved nickel from each other.

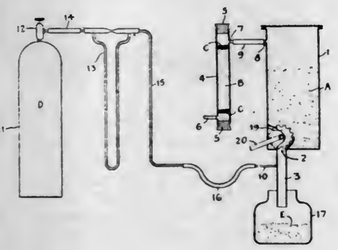
2,326,276

METHOD AND APPARATUS FOR FEEDING HYGROSCOPIC AND REACTIVE MATERIALS

Souren Z. Avedikian, Baltimore, Md.

Application February 1, 1940, Serial No. 316,855

6 Claims. (Cl. 221—118)



2. Apparatus for feeding hygroscopic powders including in combination a tightly-closed hopper in which the powder is contained, a feeder at the bottom of the hopper, a conduit leading to an outlet to which the feeder delivers powder from the hopper, and means for supplying a current of dry air into the apparatus at the conduit between the feeder and said outlet and through the conduit in the same direction as the movement of the powder.

2,326,277

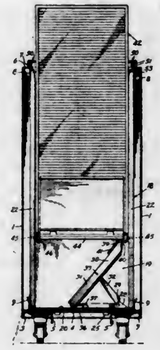
CARD INDEX FILE

Niels Yde Andersen, Kenmore, N. Y., assignor to Remington Rand Inc., Buffalo, N. Y.

Application December 20, 1940, Serial No. 371,006

15 Claims. (Cl. 45—2)

1. A card index file, comprising a cabinet having an open top communicating with the open end of an upwardly extending tray compartment therein, a card index tray slidably housed in said compartment in upwardly extending relation, and combined cushioning and ejecting means including a toggle formed of main and supplemental links pivotally connected, means pivotally mounting the free end of one of said links at the bottom of said compartment, the free end of the other link travelling transversely across the bottom of said compartment in the relative pivotal movement of said links and lying substantially straight at the bottom of said compartment with the pivotal connection therebetween adjacent dead center position, said links being retained in said last-mentioned position by the



weight of said tray, and an actuating tension spring connecting said links for normally moving said links into broken position to eject said tray partially from said compartment upon withdrawal and to cushion movement of said tray toward housed position therein.

2,326,278

MAKING OF BREAD

John C. Baker, Montclair, N. J., assignor to Standard Brands Incorporated, New York, N. Y., a corporation of Delaware

No Drawing. Continuation of application Serial No. 264,567, March 24, 1928. This application December 1, 1942, Serial No. 467,538

25 Claims. (Cl. 99—90)

1. The process of making leavened bread, which comprises bringing into admixture with a dough containing flour, yeast and water, relatively small proportions of carbamide and the enzyme urease, and fermenting the dough.

14. A bread improver comprising carbamide and urease in a substantially dry form.

16. A product for baking purposes which comprises a wheat flour mixed with a small quantity of ground vegetable matter containing an active carotin-removing enzyme.

2,326,279

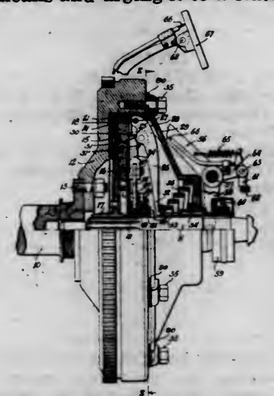
AUTOMATIC CLUTCH MECHANISM

Oscar H. Banker, Chicago, Ill., assignor to New Products Corporation, Chicago, Ill., a corporation of Delaware

Application May 29, 1939, Serial No. 276,303

30 Claims. (Cl. 192—105)

1. A clutch having, in combination, cooperative clutch elements including a friction disk and a member engageable with said disk, backing means, radially shiftable pressure transmitting means between said member and said backing means and slidably mounted and guided on said element, speed responsive means for actuating said pressure transmitting means to apply said clutch, spring means normally acting on said backing means and urging it to a clutch applying



position, and manually operable means to control the action of said spring means.

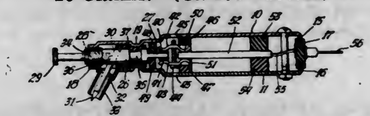
2,326,280

TRANSLATING DEVICE

Benjamin B. Bauer, Chicago, Ill., assignor to S. N. Shure and Frances Shure, trustee, doing business as Shure Brothers, a partnership

Application May 21, 1941, Serial No. 394,564

10 Claims. (Cl. 179—100.41)



1. In a phonograph translating device, the combination of a resiliently mounted torsion rod having a male coupling element at one end thereof and an energy translator having a vibratable element with a female coupling element, said rod normally vibrating over a greater amplitude range than said vibratable element, and resilient means between said coupling members, said coupling members being adapted to cooperate to transfer vibratory energy whereby efficient energy transfer is effected and the effective inertia of the system is kept low.

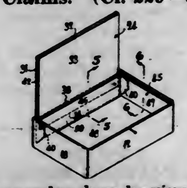
2,326,281

BOX CONSTRUCTION

Walter A. Becker, Charlotte, N. C.

Application February 23, 1942, Serial No. 431,959

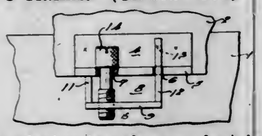
3 Claims. (Cl. 229—31)



1. In a rectangular box having a bottom, side walls and end walls, projections extending inwardly from the proximate faces of the end walls and forming a shoulder on the lower edge of each projection, a rotatable cover for said box, means for removably securing the cover to said box, said means including a flat member extending from the axis of rotation of the cover along one of the side walls and tabs extending from

each end of said flat member, each upper edge of each tab fitting against the lower edge of said projections.

2,326,282
ENCLOSURE
Josef Bierenfeld, Shorewood, Wis., assignor to Square D Company, Detroit, Mich., a corporation of Michigan
Original application December 1, 1937, Serial No. 177,409. Divided and this application January 31, 1941, Serial No. 376,775
3 Claims. (Cl. 292—301)



1. In an enclosing box for an electrical instrumentality having an openable cover, locking means for said cover including cooperating brackets on said box and cover, said cover bracket having a downwardly depending portion in a plane parallel to the back of the box, said box bracket having spaced depending portions in parallel planes at right angles to the back of the box, one of said projections being longer than the other and adapted to extend through a slot in the depending portion on the cover bracket and provided with an opening for the reception of locking means, and means for drawing said cover bracket depending portion against said second depending portion on the box bracket as an abutment to rigidly secure the cover in place.

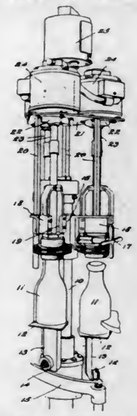
2,326,283
PROCESS OF MANUFACTURING SEAM CAPS
Charles David Bonsall, Chicago, Ill., assignor to Standard Railway Equipment Manufacturing Company, a corporation of Delaware
Application March 24, 1941, Serial No. 384,866
3 Claims. (Cl. 29—148)



1. The process of making caps for the seams of a railway freight car roof, comprising placing a first blank of corrosion-resisting sheet metal on a hollow rib-forming die member, superposing centrally on the first blank a second sheet metal blank with the edges of the second blank spaced inwardly from the edges of the first blank, and then unitarily die pressing said blanks while in superposed relation into said forming die member to form an elongated hollow U-shaped rib whose free edges terminate in laterally extending side portions in which the edges of the first blank extend beyond the edges of the second and bending the edges of the first blank over the edges of the second.

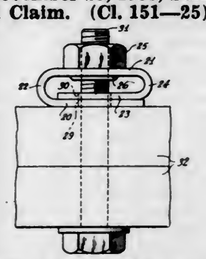
2,326,284
BOTTLE CAPPING MECHANISM
Lindsay H. Browne, Pittsford, N. Y., assignor to The American Brake Shoe & Foundry Company, a corporation of Delaware
Application September 17, 1940, Serial No. 357,085
3 Claims. (Cl. 226—87)

1. In bottle capping mechanism, in combination, a capping head support having a radially projecting supporting member, a vertical opening formed in said supporting member with oppositely disposed vertical grooves therein, guide means extending above said opening, a second support rigidly connected to and vertically spaced apart from said first support, an electric motor having a stub shaft thereof vertically journaled in said second support in vertical alignment with said supporting member, a rotatable capping head positioned below said supporting member, a shaft carried by said capping head and vertically ex-



tending through said supporting member and its guide, coupling means detachably connecting the said capping head shaft to said stub shaft, bearing means carried on the lower portion of said capping head shaft and having vertical guide arms engaging said grooves, and cap spinning members carried by and operating in connection with the said capping head, said spinning members including spring means urging said members toward the axis of said head.

2,326,285
NUT RETAINER
James P. Burke, Knoxville, Tenn., assignor to F. L. McLaughlin, Detroit, Mich.
Application November 23, 1938, Serial No. 242,075
1 Claim. (Cl. 151—25)



A lock washer formed of spring metal having juxtaposed first and second arms in surface contact one with the other, a third arm spaced from the first two arms and substantially parallel therewith, all three arms having aligned apertures therein, integral rounded portions connecting opposite ends of the first two arms respectively to opposite ends of said third arm in such manner that distortion thereof caused by compression of the third arm toward the first two arms creates forces tending to cause outward sliding movement of the juxtaposed arms thereby to cause the walls of the apertures to bind against opposite sides of a bolt disposed in said apertures, and a nut rotatably retained in the aperture in the third arm.

2,326,286
MACHINERY PACKING
Russell J. Bush, Wabash, Ind., assignor to The General Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application November 1, 1941, Serial No. 417,518
2 Claims. (Cl. 288—3)

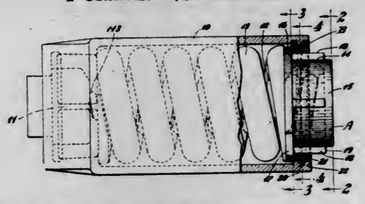


1. An oil-retaining device to seal a space between two relatively movable machine elements, which device comprises an annular C-shaped metal casing having a cylindrical portion adapted to be fixedly held in oil-tight contact with one of said machine elements, an annular substantially radial backing portion integral with said cylindrical portion, a rigid restraining member having a substantially radial portion and a portion extending in an axial direction, and means for holding said restraining member in spaced relation with said backing portion; an angle-shaped molded packing ring of oil-resistant rubberlike material and having a substantially annular radial flange disposed within said casing and bearing against said backing portion of said casing and a sealing portion integral with said annular radial flange in angular relation thereto and terminating in an annular sealing lip having a sealing surface adapted to bear against a machine element which is movable relatively to said casing, said sealing portion of said packing ring having a generally frusto-conical surface disposed opposite said sealing surface of said sealing lip and having adjacent the juncture of said frusto-conical surface and said radial flange an annular groove; and an annular pressure member of molded rubberlike mterial disposed within the re-entrant angle between said sealing portion and said annular radial portion of said packing ring, said pressure member having an unattached circumferential portion which bears against said frusto-conical surface of said sealing portion of said packing ring, and another circumferential portion attached to and rigidly held by said restraining portion of said casing, so that when said sealing portion of said packing ring is deflected by said shaft, outward lateral movement of the unattached circumferential portion of said pressure ring is resisted by stresses transmitted in cantilever manner from said circumferentially attached end of said pressure ring, said pressure ring also having a plurality of circumferentially spaced longitudinal slots therethrough to vent the space between said pressure member and said packing ring.

2,326,287
COPOLYMER OF UNSATURATED ISOCYANATES
Donald Drake Coffman, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 4, 1940, Serial No. 355,412
14 Claims. (Cl. 260—84)

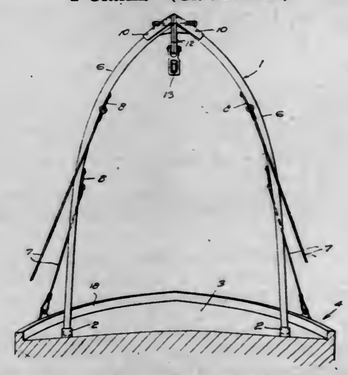
1. A copolymer, with a member of the class consisting of polymerizable vinyl and vinylidene compounds, of an organic isocyanate having the —NCO group attached to a carbon in turn attached to a second carbon by means of an aliphatic ethylenic double bond, the remaining valences of said carbons not satisfied by hydrogen being satisfied by monovalent organic radicals free from groups reactive with the isocyanate group.

2,326,288
FRICTION SHOCK ABSORBING MECHANISM
George E. Dath, Mokena, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application August 23, 1941, Serial No. 408,025
4 Claims. (Cl. 213—22)



1. In a shock absorbing mechanism, the combination with a casing having an open end provided with internal threads, said casing having meeting side walls forming a corner; of a spring cap slidable within the casing; an inwardly and outwardly adjustable retaining ring having external threads in threaded engagement with said internal threads of the casing for securing said ring to the casing and permitting inward and outward adjustment of said ring, said spring cap having shouldered engagement with said ring to limit outward movement of the cap, said cap having a lateral projection shouldered in the corner of the casing to hold said cap against rotation; interengaging locking means on the cap and ring for locking the same together against relative rotation but permitting relative longitudinal movement thereof; and spring means within the casing yieldingly holding said cap projected with the locking means thereof interlocked with the locking means of the ring.

2,326,289
SPAR
William J. De Shong, Union Springs, N. Y.
Application December 3, 1941, Serial No. 421,506
1 Claim. (Cl. 114—90)



A spar including a substantially U-shaped frame, said frame comprising a pair of oppositely bowed, complemental half sections connected at one end, channel members mounted on the adjacent end portions of the sections, a pair of opposed, abutting hangers mounted on the connected ends of the sections and depending therefrom, a bolt extending through the channel mem-

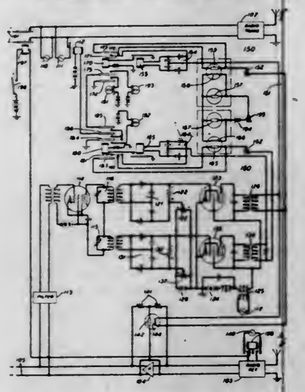
bers, the adjacent end portions of the sections and the hangers for securing said sections together, and a pulley suspended from the hangers.

2,326,290

ALARM AND TESTING CIRCUIT

Alton C. Dickieson, Mountain Lakes, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application July 30, 1941, Serial No. 404,643
6 Claims. (Cl. 250—6)



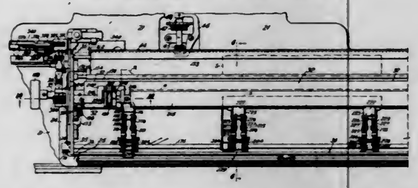
1. A two-way communication system comprising two terminal stations, two oppositely directed one-way transmission paths interconnecting said stations, means at each station for transmitting a first pilot signal, and means at each station under continuous control of the reception of said first pilot signal from the other station for transmitting a second pilot signal of characteristics distinguishable from said first pilot signal.

2,326,291

TYPEWRITING AND LIKE MACHINE

Elbert S. Dodge and John Tobin, Ilion, N. Y., assignors to Remington Rand Inc., Buffalo, N. Y., a corporation of Delaware

Application August 18, 1939, Serial No. 290,882
25 Claims. (Cl. 197—128)



1. In a typewriting or like machine, the combination of a carriage, a platen carried thereby, power actuated means for returning the carriage, feed rollers that coact with the platen to feed a record sheet, auxiliary feed rollers cooperative one with another to feed an interposed work sheet independently of the platen, line spacing mechanism controlled by the return of the carriage for intermittently line spacing the platen and auxiliary feed rollers in unison for line spacing the record and work sheets together, and independently operable means controlled by the return of the carriage for actuating said auxiliary feed rollers for feeding said work sheet independently of the platen and record sheet.

2,326,292

TUBE AND COUPLING

Jack R. Dorman, Cincinnati, Ohio

Application September 25, 1942, Serial No. 459,682
9 Claims. (Cl. 285—25)



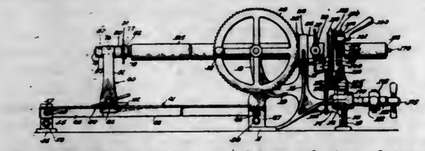
1. A tubing connection comprising a length of flexible and resilient tubing having an end rolled backwardly on itself forming a bead and a wall structure having a passageway therethrough, said passageway having an annular internal groove positioned inwardly from the passageway opening for the reception of the bead when the tubing end is inserted in the passageway; said bead cooperating with the surface of the groove to form a seal.

2,326,293

SHADE CUTTER

Albert K. Gast, St. Joseph, Mich.

Application October 2, 1941, Serial No. 413,323
13 Claims. (Cl. 1—1)



7. A shade cutting machine of the character described comprising a relatively light weight base member, a substantially open and light weight frame member extending substantially vertically upwardly from said base member, a pair of upstanding arms on said frame for rotatably supporting a shade rotating chuck and gear means for rotating said chuck, a forwardly extending arm on the frame for rigidly supporting a collet bearing, said collet bearing being positioned substantially directly below the axis of said chuck, a collet slidably mounted in said bearing, an arm extending laterally of said collet bearing, a bracket pivotally mounted on said laterally extending arm, a shade trimming knife carried by said bracket at one side of the axis of said chuck, a shade pole chamfering means carried by said bracket at the opposite side of the chuck axis, an elongated V-shaped slide detachably connected to said base and frame members, a measuring scale arranged along one of the surfaces of said slide, a bracket slidably mounted on said slide for rotatably supporting one end of a shade, and index means carried by said bracket and cooperating with said measuring scale.

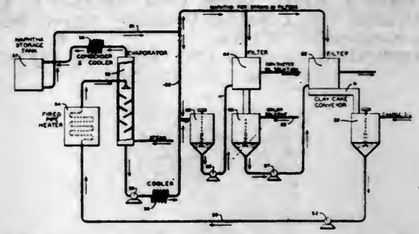
2,326,294

CONTINUOUS PROCESS OF DECOLORIZING LUBRICATING OIL

William P. Gee, Plainfield, N. J., assignor, by mesne assignments, to The Texas Company, New York, N. Y., a corporation of Delaware

Application September 26, 1939, Serial No. 296,568
5 Claims. (Cl. 196—147)

1. A continuous process of decolorizing lubricating oil by contact with clay wherein the used clay is reconditioned and subsequently subjected to decolorizing contact with additional raw oil, comprising continuously diluting a mixture of the oil and clay, which has been subjected to said decolorizing contact, with petroleum naphtha, passing the diluted mixture to a continuous rotary vacuum filter, thereby separating treated decolorized oil and diluent as a filtrate and forming a filter cake of clay retaining coloring matter and some oil, washing said cake in situ with naphtha to remove retained oil, removing the washed filter cake, mixing the removed cake with a solvent comprising a low boiling aliphatic ketone, passing the resulting mixture to a continuous rotary vacuum filter wherein solvent and dissolved coloring matter are removed as a filtrate and a secondary filter cake of clay is formed, washing said secondary cake in situ with naphtha to remove retained ketone as a wash filtrate, and forming a naphtha-laden clay cake, removing said naphtha-laden clay cake, commingling said naphtha laden clay with raw oil, heating the mixture to an elevated temperature in the range substantially above atmospheric and up to about 500° F. to effect substantial decolorization of the oil, said temperature being such that naphtha can be vaporized from the mixture, vaporizing naphtha from the heated mixture while the oil and clay remain in intimate contact under decolorizing conditions, and thereafter substantially reducing the temperature of the mixture of oil and clay prior to the aforesaid dilution and filtration to separate the decolorized oil from the clay.

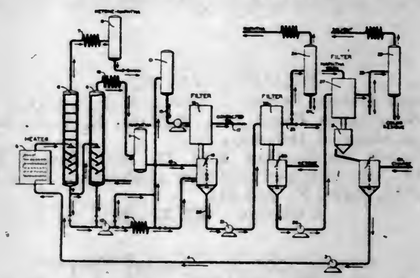


2,326,295

PROCESS FOR DECOLORIZING OIL WITH DECOLORIZING EARTH IN THE PRESENCE OF NAPHTHA

William P. Gee, Plainfield, N. J., assignor, by mesne assignments, to The Texas Company, New York, N. Y., a corporation of Delaware

Application December 2, 1939, Serial No. 307,226
4 Claims. (Cl. 196—34)



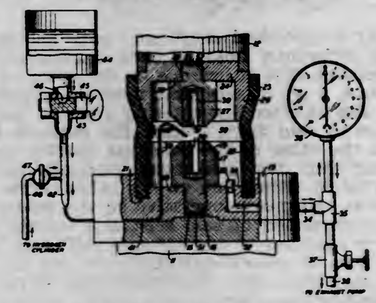
1. In the decolorizing of oil by contact with a decolorizing earth wherein the earth containing coloring matter extracted from the oil is removed for reactivation involving treatment with a color solvent capable of extracting coloring matter from the earth and washing with naphtha prior to reuse, the reactivated clay being wet with naphtha and retaining a small amount of color solvent, the method which comprises heating a mixture of the oil and wet reactivated earth to an elevated temperature at which coloring matter contained in the oil is extracted by the earth and at which naphtha and solvent vaporize from the mixture, distilling from the heated mixture a distillate consisting essentially of color solvent and naphtha, separately removing a second distillate of naphtha from said heated mixture, condensing said second distillate, cooling the remaining mixture of earth and oil, diluting the cooled mixture with said second condensed distillate, subsequently separating the earth from the cooled dilute mixture, reactivating the separated earth by successive washings, first with naphtha, then with a color solvent capable of extracting from the earth the coloring matter adsorbed from the oil and then with naphtha, the earth being contacted with the color solvent in the form of a slurry during the second mentioned washing, and returning reactivated earth wet with naphtha and retaining some color solvent to the heating treatment first mentioned.

2,326,296

MACHINE FOR SEALING RECEPTACLES

Henry C. Harrison, Port Washington, and John B. Little, New York, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application June 15, 1940, Serial No. 340,655
6 Claims. (Cl. 226—19)



1. A machine for sealing a two-part metallic receptacle comprising a fixed electrode support, a first electrode secured thereto, a movable electrode support, a second electrode secured thereto, said electrodes having axial sockets in which the parts of the receptacle to be sealed are insertable, a flexible tubular wall secured at one end to said fixed support surrounding said first electrode and having its other end normally open, said wall forming with said supports a closed chamber surrounding said electrodes when said movable support is moved into the open end of said wall toward said fixed support, an air pressure reducing pump, means for connecting said pump with said chamber whereby said chamber may be evacuated and means for moving said movable support and said second electrode to engage the parts of said receptacle whereby they may be welded together.

2,326,297

COMPOSITION OF MATTER AND METHOD AND STEPS OF MAKING AND USING THE SAME

Mortimer T. Harvey, East Orange, N. J., assignor to The Harvel Corporation, a corporation of New Jersey

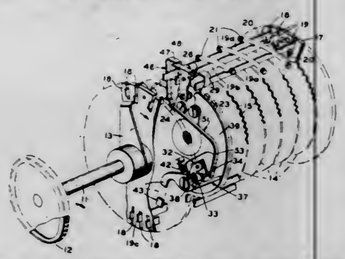
No Drawing. Application May 17, 1941, Serial No. 393,942
11 Claims. (Cl. 167—24)

1. A solution of an insecticidal rotenone prod-

uct in a solid, pulverizable and fusible phenol-aldehyde condensation product.

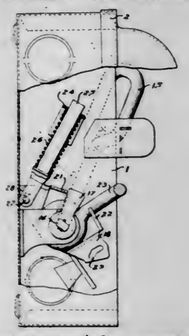
5. The method comprising dissolving an insecticidal rotenone product in a phenol-aldehyde condensation product which is in a liquid state and is capable of being solidified to a pulverizable state and subsequently bringing said condensation product to a solid state.

2,326,298
TYPE WHEEL STOP UNIT
Ernest W. Hewitt, Stamford, Conn., assignor to The Western Union Telegraph Company, New York, N. Y., a corporation of New York
Application July 21, 1942, Serial No. 451,694
8 Claims. (Cl. 178—34)



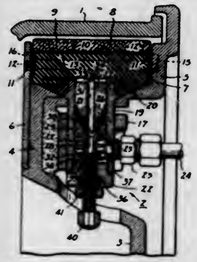
2. In a typewheel shaft stop unit including a set of differently notched code discs selectively positionable into either one or the other of two positions, a set of selectable members associated with and selected by entering rows of aligned notches in said discs, a shift disc movable from one to the other of two positions, locking means for said shift disc, said means normally locking said disc in either one or the other of its two positions and means operative on the movement of predetermined of said selectable members to selected positions to operate said shift disc locking means to unlock said shift disc and to then move said shift disc from either one of its two positions to the other.

2,326,299
ELECTRIC SWITCH
Ralph H. Kingdon, Detroit, Mich., assignor to Square D Company, Detroit, Mich., a corporation of Michigan
Application February 27, 1941, Serial No. 380,841
13 Claims. (Cl. 200—67)



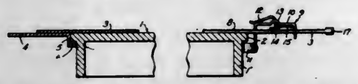
1. In an electric switch, cooperating stationary and movable contacts, an operating bail connected to the movable contacts, an operating handle, means interconnecting said handle and bail, said means including lost motion connections to both the handle and bail, an overcenter spring connecting to said interconnecting means, and means for effecting movement of the point of spring connection to the interconnecting means independent of movement of the interconnecting means when the overcenter spring has been moved to a predetermined position so as to effect movement of the overcenter spring through its dead center position independent of movement of the operating handle.

2,326,300
PRELOADER FOR FLUID OPERATED DEVICES
Herman T. Kraft, Akron, Ohio, assignor to The General Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application August 6, 1942, Serial No. 453,803
5 Claims. (Cl. 60—54.6)



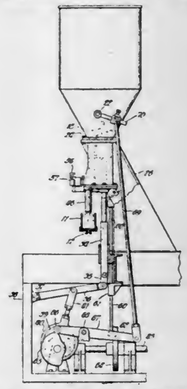
1. A preloader for an inflatable member having oppositely positioned walls that are separated by the inflation thereof comprising in combination, a body member carried by one of said oppositely positioned walls and having a cylindrical bore opening into the inflatable member at one end and closed at the other end except for a fluid inlet port, a cylindrical piston member reciprocable within said bore and having a fluid channel extending from end to end thereof, one end of said piston member terminating in a valve into which said fluid channel opens and the other end of said piston member having parts for engagement with the other of said oppositely positioned walls, a valve seat carried by the body member and arranged for engagement with the valve of said piston member to open and close said fluid channel, and means for adjusting said valve seat toward and away from said inflatable member.

2,326,301
DRAWING FIXTURE
James Dorsey Leffel, Newport, R. I., assignor to Remington Rand Inc., Buffalo, N. Y., a corporation of Delaware
Original application July 22, 1941, Serial No. 403,522. Divided and this application June 18, 1942, Serial No. 447,541
2 Claims. (Cl. 33—80)



1. A straight edge, comprising a strip member, a cross member mounted on one end of said strip member having guide means thereon perpendicular to said strip member, the opposite end of said strip member being formed with a longitudinal slot, a guide member slidable on said strip member having portions extending through said slot, said guide member having parts on opposite sides of said strip for engaging opposite faces thereof, and a latch member pivotally mounted on said guide member for movement into released position disengaged from said strip member and into latching position engaging said strip member and cooperating therewith to retain said guide member in adjusted position on said strip member, said guide member having guide portions thereon in parallel opposed relation to the guide portions on said cross member for cooperation therewith in guiding said strip member at opposite sides of a supporting flange.

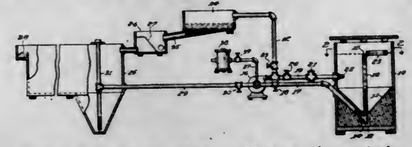
2,326,302
FILLING MECHANISM
William F. Linstedt, Freeport, Ill., assignor to Kraft Cheese Company, Chicago, Ill., a corporation of Delaware
Application January 10, 1941, Serial No. 373,963
9 Claims. (Cl. 221—102)



1. In apparatus of the class described, the combination of a cylinder, a piston reciprocable in said cylinder, a conduit establishing communication between the opposite ends of said cylinder, a discharge nozzle communicating with one end of said cylinder, means communicating with the other end of said cylinder for supplying material to be fed, valve means controlling communication between said cylinder, said supply source, said conduit and said discharge nozzle so as to cause material to be fed from the cylinder on one side of said piston to the cylinder on the opposite side thereof when the piston is moved in one direction and discharged through said nozzle from the cylinder on one side of said piston and drawn into the cylinder on the opposite side of the piston when the piston is moved in the other direction, a piston rod connected to said cylinder and extending out of the discharge end of said cylinder, and means for receiving material displaced by said piston rod when the material is fed from the receiving end of said cylinder to its discharge end.

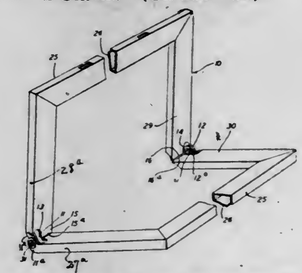
2,326,303
SEWAGE TREATMENT
Frank N. Moerk and George M. Eisenberg, Philadelphia, Pa., assignors of one-fourth to Edward P. Hyland and one-fourth to A. M. Stackhouse, both of Moorestown, N. J.
Application July 8, 1939, Serial No. 283,440
10 Claims. (Cl. 210—2)

1. The process of treating sewage which comprises sedimenting the putrefiable sludge from the liquid, subjecting the putrefiable sludge, while confined in a container open to the air and protected from the actinic rays of the sun, to the digestive action of a microflora in which aerobic bacteria, fungi and Protozoa predominate, continuously pumping the sludge from the bottom of the container and discharging it at the upper surface of the sludge tangentially to the side of



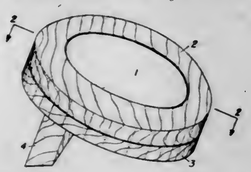
the container at a rate sufficient to rotate the sludge in the container and maintain all of the solids in suspension, maintaining the surface of the sludge free from scums and solids during the pumping operation, and discharging a portion of the sludge so treated to drying beds at approximately 24-hour intervals and thereupon adding to the sludge under treatment a quantity of fresh sludge equal in volume to the discharge portion.

2,326,304
BAG FRAME
George S. Merk, Flushing, N. Y.
Application September 4, 1940, Serial No. 355,324
1 Claim. (Cl. 150—29)



In a bag frame, a bag frame section having two leg portions and a common intermediate portion joining said leg portions, each of said portions being formed of a flat blank bent into shape to form at least two surfaces bent at right angles to each other, one to form the edge of the section and one to form an opposed side when faced with another section and a third surface bent to hold the bag material against said edge, said edge of the blank having its free ends shaped with parts of the contours of the ears and said opposed side with cutouts shaping the remaining parts of the contours of the ears, the plane of said ears when said two surfaces are bent at right angles to each other being at right angles to the opposed side surface from which they were partly cut out and flush with the surface which forms the edge, said ears having pintle openings, the end edges of the opposed side being transverse to the leg portion and in line with the centers of said openings of said ears, whereby when two sections are pivoted to each other by pintles passing through the openings of the ears, the transverse edges of the opposed surfaces substantially contact in all positions of the sections in respect to each other, said line of contact being in line with the axes of the pintles to prevent the interior bag lining from moving between the transverse edges, the exterior bag material being held away by the third surface and edge surface from said transverse edges.

2,326,305
PRACTICE DRUM
Thomas O. Morarre, Washington, D. C.
Application March 27, 1942, Serial No. 436,500
6 Claims. (Cl. 84—411)

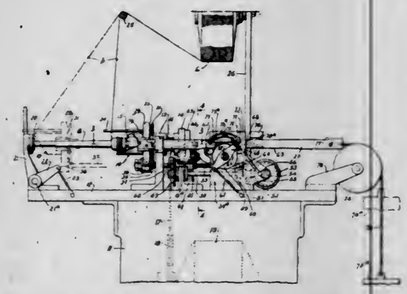


1. A practice drum comprising a drum head, a relatively thin base member, a rim member, means between the base member and rim member for clamping the drum head, a chambered member beneath the head and adjustable means for pressing the chambered member against the drum head.

2,326,306
PROTEOLYTIC BATING COMPOSITION
Julius Pfannmuller, North Plainfield, N. J., and Hans Schleich, New Dorp, Staten Island, N. Y., assignors to Wallerstein Company, Inc., New York, N. Y., a corporation of New York
No Drawing. Application February 16, 1939, Serial No. 256,716
3 Claims. (Cl. 195—63)

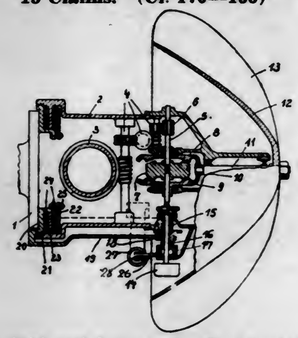
2. A bating composition which comprises a mixture, in dry form, of calcium sulphide, a neutralizing agent and a proteolytic enzymatic preparation absorbed on wood flour.

2,326,307
YARN WINDING MECHANISM
Burt A. Peterson, Rockford, Ill., assignor to Barber-Colman Company, Rockford, Ill., a corporation of Illinois
Application January 31, 1942, Serial No. 428,993
17 Claims. (Cl. 242—32)



1. In a winder, means for supporting the core of a package to be wound, means rotating said core, a traversing device providing thread-guiding surfaces spaced from the core laterally thereof and movable in a direction transversely of the axis of the core, means imparting unidirectional movement to said device, means for effecting relative feeding movement between the device and said core axially of the latter, said guiding surfaces being operative with a cam action upon a thread held against the device to shift the thread longitudinally of the core, and guide means for the thread opposing movement thereof by said device transversely of the core.

2,326,308
CONTROL FOR VARIABLE PITCH PROPELLERS
Hans Reissner, Chicago, Ill.
Application July 15, 1939, Serial No. 284,591
In Germany August 28, 1935
15 Claims. (Cl. 170—163)



1. A variable pitch propeller for airplanes having constant speed governors embodying therein a propeller hub, blades capable of pitch change, a pitch changing mechanism, driving means for said mechanism, a governor operative upon said pitch changing mechanism, said governor including an element adjustable to different positions for varying the speed setting of the governor, and a member arranged for limited oscillations relative to said propeller hub in direct dependence upon the torque exerted on the propeller by the engine, said member cooperating with said adjustable element to vary the speed setting of the governor in dependence upon the variations of said torque.

2,326,309
METHOD OF PRODUCING PHOSPHATE COATINGS ON FERROUS METAL ARTICLES
Gerald C. Romig, Elkins Park, Pa., assignor to American Chemical Paint Company, Ambler, Pa., a corporation of Delaware
No Drawing. Application January 22, 1941, Serial No. 375,448
11 Claims. (Cl. 148—6.5)

1. The method of coating a ferrous surface which consists in subjecting the surface to a solution of acid zinc phosphate containing hydrogen peroxide and maintaining the operating pH of the solution by substantially continuous addition of a neutralizing agent for phosphoric acid, the solution being applied at a temperature not above 190° F.

2,326,310
END CLOSURE FOR EXPLOSIVE CARTRIDGES
Charles Russell Johnson, Glenn Mills, Pa., and William Stanton Pilcher, Woodbury, and Charles Belton Stanley, Paulsboro, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application March 9, 1939, Serial No. 260,694
1 Claim. (Cl. 102—24)

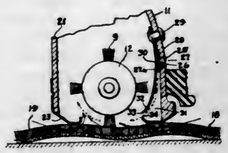
In an explosive cartridge of the type including a substantially cylindrical explosive charge and a paper wrapper enveloping said charge, an end closure comprising a peripheral bead consisting of a reverse fold in the side wall of said wrapper, a sharp bend in the wrapper centrally directed,

and a series of substantially radial overlapping and interlocking folds in said wrapper originating at the central portion of the end of said cylindrical charge and extending to the circumference thereof, the surface defined by said folded



wrapper being characterized by a marked depression in said central portion whereby the said sharp bend and the said marked depression cooperate to hold the folded closure in place and prevent the individual folds from springing away from the explosive charge.

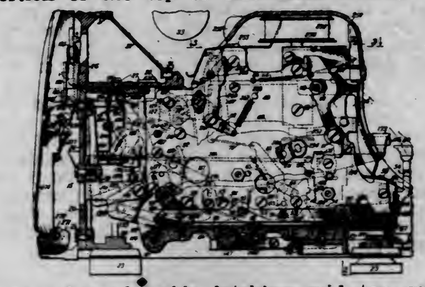
2,326,311
SUCTION CLEANING APPARATUS
Charles H. Taylor, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 7, 1942, Serial No. 425,895
1 Claim. (Cl. 15—8)



In a suction cleaner, a nozzle having elongated side walls and bottom wall portions which extend inwardly from said side walls, a brush roll member having bristles thereon rotatably mounted in said nozzle for sweeping the surface being cleaned, a port located in one of said side walls and communicating with the atmosphere and said nozzle, a flat spring attached to said one wall and normally obstructing said port, said spring being operable by the pressure differential between the inside and outside of said nozzle when the suction in said nozzle reaches a predetermined value to admit outside air to said nozzle, a shield also attached to the inside of said one wall of said nozzle at a position above said port and extending downwardly below said spring and said port, the lower portion of said shield being bent arcuately and inwardly so as to provide a downwardly flaring chamber between the same and said one wall into which the air admitted through said port enters, the bottom edge of said shield and the inner edge of the adjacent bottom wall portion forming an elongated nozzle directing said air across the area of the surface being cleaned that is contacted by the bristles.

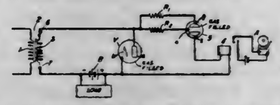
2,326,312
TYPEWRITING AND LIKE MACHINE
Russell G. Thompson, Elmira, N. Y., assignor to Remington Rand Inc., Buffalo, N. Y., a corporation of Delaware
Application July 26, 1940, Serial No. 347,677
8 Claims. (Cl. 197—186)

2. In a typewriting machine, the combination of a main frame including front and side portions, a rear cover member for closing the rear portion of said main frame, means for releasably latching said rear cover member on said main frame, a top cover member for closing a portion of the top of said main frame, and



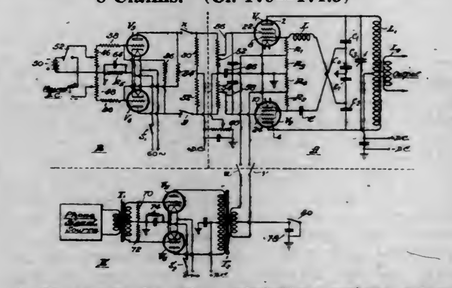
means for releasably latching said top cover member on said main frame.

2,326,313
ALARM CIRCUIT
David E. Trucksess, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application February 27, 1941, Serial No. 380,763
8 Claims. (Cl. 177—311)



1. In a rectifying system, the combination of a source of alternating current, a rectifier element having an anode and a cathode, and a load circuit all connected in series, a relay, a gas-filled discharge tube having an anode, a cathode, and a control electrode, said tube being so constructed that current of a substantial value will only flow in the direction of the anode to the cathode when a discharge is established therebetween, a high resistance connection between the anode of said rectifier element and the anode of the tube, a second high resistance connection between said rectifier anode and the control electrode of the tube, and a connection between the cathode of said rectifier and said tube cathode serially including said relay.

2,326,314
FREQUENCY MODULATION
George Lindley Usselman, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application August 30, 1941, Serial No. 408,982
8 Claims. (Cl. 179—171.5)



1. In a wave length modulation system, an oscillation generator including a pair of electron discharge tubes each having an anode, a cathode and a control grid, a single tank circuit having inductance, couplings between spaced points on

the inductance of said tank circuit and the anodes of the respective tubes, a coupling between a point on said tank circuit and the cathodes of the tubes, a phase retarding inductive reactance coupling the control grid of one of said tubes to a point on the said tank circuit, a phase advancing capacitive reactance coupling the control grid of the other of said tubes to a point on said inductance of said tank circuit, said couplings being such that oscillations are generated in said tubes and tank circuit, and means for controlling the gain of the tubes in push-pull relation in accordance with modulating potentials to thereby modulate the wave length of the oscillations generated.

2,326,315

HALOGENATED EXTREME PRESSURE LUBRICANT

Norman D. Williams, Chicago, Ill., assignor to The Pure Oil Company, Chicago, Ill., a corporation of Ohio

No Drawing. Original application October 19, 1938, Serial No. 235,775, now Patent No. 2,235,860, dated March 25, 1941. Divided and this application February 5, 1941, Serial No. 377,481

4 Claims. (Cl. 252—54)

1. A lubricant comprising mineral lubricating oil and a compound selected from the group of halogenated ketones of the type RC_nCOC_nR' and halogenated esters of the type RC_nCOOC_nR' in which R and R′ are non-acidic, stable, carbocyclic radicals either the same or different, CO and COO are the characteristic ketone and ester groups, C is an aliphatic chain having any number (n) of carbon atoms, said compound containing halogen linked to carbon in only one aliphatic chain.

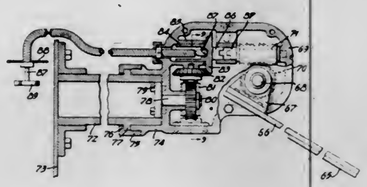
2,326,316

REAR-VIEW MIRROR

Clarence E. Allen, San Francisco, Calif.

Application February 26, 1940, Serial No. 320,764

3 Claims. (Cl. 248—288)



1. A rear-view mirror supporting structure comprising; a standard; a pair of worm gears; a housing carried on one end of said standard; mirror supporting means carried on one end of said standard; a pair of worm wheels in mesh with said worm gears locked by the teeth of said worm gears against relative rotation when said worm gears are stationary; separate driven means connecting between each of said worm wheels and said mirror supporting means for revolving said mirror supporting means in separate planes intersecting each other at right angles when said worm gears are rotated; said driven means including elements supporting said mirror supporting means for revolving of the latter in said planes; said housing enclosing said worm gears and said worm wheels.

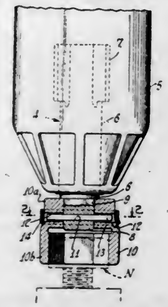
2,326,317

IMPACT WRENCH

Lester A. Amtsberg, Cleveland, Ohio, assignor to Chicago Pneumatic Tool Company, New York, N. Y., a corporation of New Jersey

Original application November 22, 1939, Serial No. 305,708, now Patent No. 2,285,638, dated June 9, 1942. Divided and this application April 23, 1942, Serial No. 440,174

5 Claims. (Cl. 287—119)



2. In a wrench, a tool head having a projection substantially fitting a non-circular opening in a detachable socket, said tool head and socket having registering apertures, the apertures in the socket being slightly larger than in the tool head, a rigid pin extending lengthwise of said apertures and frictionally supported in the tool head, said pin serving to lock the socket against axial movement relative to the tool head, and a retainer for said locking pin, said retainer comprising a ring embracing a peripheral surface on the socket and positioned to cover the transverse apertures therein, said retainer ring being held in position by friction, the weight and inertia of said retainer being insufficient to effect displacement thereof in response to vibrations.

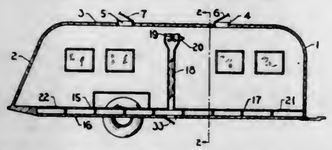
2,326,318

METHOD AND APPARATUS FOR COMPARTMENT HEATING

Rex R. Anderson, Marshall, Mich.

Application December 16, 1940, Serial No. 370,369

5 Claims. (Cl. 237—69)



2. The method of heating the interior of a compartment having a floor which is externally insulated and exposed, said floor having tight construction top and bottom panels spaced apart to form a shallow air passageway therebetween substantially co-extensive with said floor, and an air heating means above said floor and within said compartment but not directly connected to said passageway in said floor, which comprises the steps of generating heat in said heating means, circulating air through said compartment interior into heat absorbing relation with said heat generating means, and thence back into said compartment interior, and independently circulating air through a second circuit overlapping part of said heating circuit, the circulation through said second circuit involving the steps of removing air from said compartment interior, adjacent the ceiling thereof, circulating said air under forced flow through said passageway in the floor to warm the upper face of same throughout a major portion of its area, and then returning said air to said compartment interior.

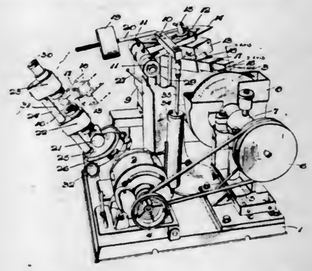
2,326,319

CRYSTAL WORKING APPARATUS

Richard S. Bailey, Baltimore, Md., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application March 12, 1942, Serial No. 434,389

15 Claims. (Cl. 125—13)



1. In apparatus for the cutting of crystalline materials, a base, cutting means attached to said base, a work holder mounted on said base, and means utilizing radiant energy for locating predetermined molecular planes within a crystal located in said work holder mounted on said base, said work holder and said locating means being relatively movable with a single degree of freedom.

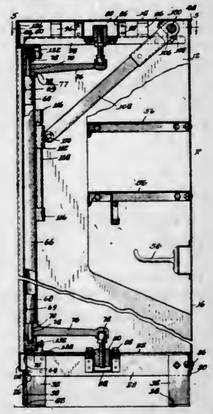
2,326,320

CABINET STRUCTURE

James E. Bales, Aurora, Ill., assignor to Lyon Metal Products, Incorporated, Aurora, Ill., a corporation of Illinois

Original application January 11, 1938, Serial No. 184,428. Divided and this application February 24, 1941, Serial No. 380,258

5 Claims. (Cl. 20—16)



4. A sheet metal cabinet door having marginal upper and lower inturned flanges, a supporting member, means for pivotally mounting said door on the supporting member at remote, aligned and vertically spaced points, said mounting means including spaced, oppositely and vertically extending pivot members rigidly secured on said supporting member, and complementary bushing means rigidly secured within the upper and lower flanges at the central portion of said door and pivotally engaging the free ends of said pivots.

2,326,321

METHOD OF MULTICOLOR PRINTING AND INK THEREFOR

Floyd E. Barmeier, Chicago, Ill., assignor to General Printing Ink Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application August 1, 1940, Serial No. 349,307

11 Claims. (Cl. 101—211)

1. Method of multi-color printing, which comprises successively printing in contiguous relation a series of printing inks having progressively decreasing tack and a decreasing proportion of pigment, each ink containing a larger proportion of solvent which is of a predetermined higher evaporation rate than the preceding ink, said solvents all being of similar organic composition.

8. Multi-color printing ink adapted to be printed in a succession of impressions with each impression trapped on the sheet and all of the impressions being capable of drying rapidly under heat within a period of time sufficiently short to avoid running and spreading of any of the impressions consisting of a series of printing inks each of predetermined characteristics with respect to the adjoining ink of the sequence and each comprising a vehicle, a pigment and a solvent, the several inks of the series each containing an amount of pigment less than the one preceding it and more than the one succeeding it in sequential printing, and said solvent component of each ink being present in quantity inversely proportional to the pigment content and the boiling range of said solvent varying directly as the pigment content, whereby the sequentially printed inks have a predetermined coordinated rate of drying.

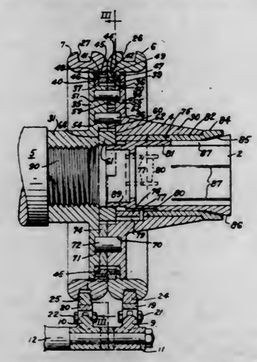
2,326,322

AUTOMATIC COLLET CHUCK

Curtis M. Bell, Berkeley, Calif.

Application September 6, 1941, Serial No. 409,875

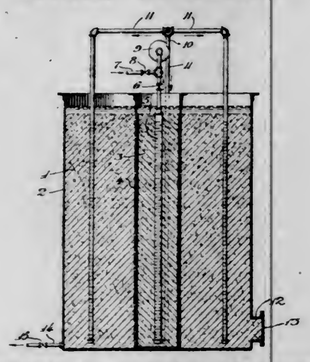
5 Claims. (Cl. 279—53)



1. A device for releasing and gripping stock in a lathe during continuous rotation thereof, comprising a pair of independently operable brake drums mounted on the head spindle of said lathe, differential gearing operable between said drums and a collet-actuating, internally threaded ring

gear, a split collet threadably engaged with said ring gear and operable to grip and release stock by axial traversal, brake means selectively operable against said drums comprising a mounting member arranged to be secured to said lathe by a single bolt, brake rods slidably disposed in said mounting member, brake shoes fixed to said rods, a single control lever, and means for moving said rods by said lever to engage said shoes alternatively with said drums.

2,326,323
CATALYST MANUFACTURE
Wayne L. Benedict, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application February 10, 1941, Serial No. 378,120
5 Claims. (Cl. 252—236)



1. A method for removing alkalinous metal ions from gels containing the same which comprises maintaining the gel in contact with water in a zone contiguous to a mass of ion exchange material, said mass being separated from said zone by a dividing wall capable of permitting flow of water between said zone and said mass, and transferring alkalinous metal ions from the gel to said mass through the medium of the flowing water.

2,326,324
DIELECTRIC OR INSULATING OIL
Henry G. Berger, Woodbury, Lyle A. Hamilton, Wenonah, and Everett W. Fuller, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application May 24, 1940, Serial No. 336,960
5 Claims. (Cl. 252—63)

1. An oil for use in dielectric structures comprising mineral oil, aromatic hydrocarbon material capable of accepting added hydrogen, and catalyst material capable of promoting hydrogenation.

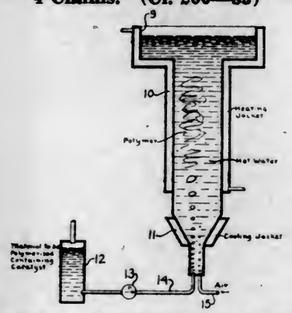
2,326,325
SPREADER LEG AND DRAG
Norman J. Boehm, Detroit, and David E. Staub, Grosse Pointe Park, Mich., assignors to Allied Manufacturers, Inc., Detroit, Mich.
Application May 29, 1941, Serial No. 395,718
6 Claims. (Cl. 275—2)

1. A distributor having in combination, a hopper for carrying a fluent material to be distributed upon the ground, wheels carrying said hopper, a combination drag and support member, stop means projecting from said member for engaging said hopper and means pivotally attaching said member to said hopper to drag



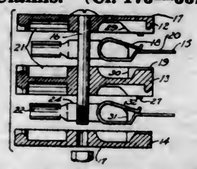
behind when the distributor is operating and to rest on the ground and support the hopper when the distributor is not in operation.

2,326,326
METHOD OF POLYMERIZATION
John Breedis, Croydon, Pa., assignor to Röhm & Haas Company, Philadelphia, Pa.
Application January 16, 1940, Serial No. 314,044
4 Claims. (Cl. 260—83)



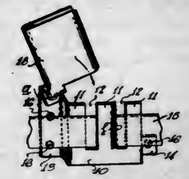
1. The process for preparing a methacrylic resin in a form suitable for use in molding compositions which comprises injecting directly into water, maintained at a temperature between about 90° C. and about 125° C., a water-insoluble, polymerizable liquid selected from the group consisting of methyl methacrylate, ethyl methacrylate, mixtures thereof, and at least one of them with at least one member of the group consisting of esters of acrylic acid, nitriles of acrylic acid and methacrylic acid, vinyl acetate and styrene, through an orifice whose greatest cross-sectional dimension is at most 0.5 mm., thereby to cause said water-insoluble liquid to form as particles of such small cross-section that they are heated to the temperature of the water and thus polymerized in a few seconds after injection, removing said polymerized material, and drying same.

2,326,327
CONNECTOR
Richard D. Brewer, Wayne, Mich., assignor to Ford Motor Company, Dearborn, Mich., a corporation of Delaware
Application October 31, 1941, Serial No. 417,256
7 Claims. (Cl. 173—332)



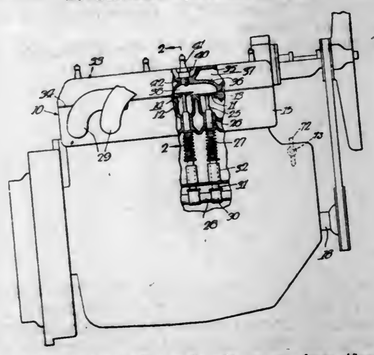
2. In a gang connector, a pair of interengageable plugs, each plug comprising, a stack, including a top block, a bottom block and a plurality of intermediate blocks, depressed chambers formed on adjacent faces of said blocks to receive contact clips, contact clips therebetween, said contact clips having a spring portion and a projecting tongue, said spring portion being received within said block, access means leading from the exterior of said blocks to said spring portion and said tongue extending along said spring portion through said access means, the blocks and clips in both of said plugs being of substantially the same figuration throughout.

2,326,328
STRAP FASTENER
Paine L. Bush, Dallas, Tex.
Application July 10, 1942, Serial No. 450,371
5 Claims. (Cl. 24—170)



1. A strap fastening device including a body formed with a plurality of relatively parallel prongs defining parallel recesses, open at their ends to receive a strap to produce therein a bend or a series of bends imposing frictional resistance on said strap, a clip substantially U-shape in transverse section, pivoted at one corner to a corner of said body and whose sides are adapted to overlie and frictionally bear against the sides of said strap to retain the latter in said recesses.

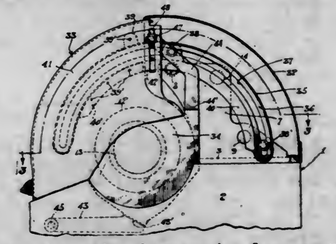
2,326,329
INTERNAL COMBUSTION ENGINE
Joseph O. Camp, Oak Park, Ill.
Application June 29, 1940, Serial No. 343,087
15 Claims. (Cl. 123—105)



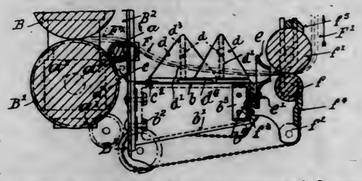
7. In an internal combustion engine, the combination of a block having a cylinder therein, an inlet valve, an exhaust valve, a head, a combustion chamber opening into the cylinder through a throat having an air flow capacity substantially the same as the inlet valve, a piston reciprocating in the cylinder, cam means for opening and closing said valves, means for timing the action of said cam, means to open the inlet valve and close the exhaust valve after the piston has passed top dead center and to close the inlet valve approximately 245° of revolution of the crank thereafter and to open the exhaust approximately 200° before the exhaust valve closes, and means controlling said timing means to vary the action of said timing means.

2,326,330
CABINET CONSTRUCTION
Henry S. Carlson, West Orange, N. J., assignor to Thomas A. Edison, Incorporated, West Orange, N. J., a corporation of New Jersey
Original application October 15, 1938, Serial No. 235,213. Divided and this application April 1, 1941, Serial No. 386,225
9 Claims. (Cl. 312—191)

1. In a cabinet of the class described: the combination of a pair of separate closures mounted on said cabinet for movement along differently directed paths between open and closed positions and having parallel motion components in their movements into open position and in their movements into closed position; members rigidly secured to said closures and having portions thereof adjacent to one another; and a sliding pivotal connection between said portions, causing one of said closures to be opened and closed concurrently with the opening and closing of the other.

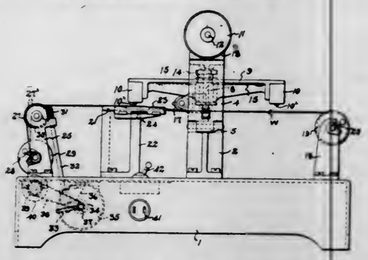


2,326,331
DRAWING-OFF ARRANGEMENT OR MECHANISM FOR DEALING WITH FLEECES INTERMEDIATE OF SCRIBBLERS OR CARDING ENGINES
Thomas Chantler, Grotton, near Oldham, England, assignor to Platt Brothers and Company Limited, Oldham, England
Application May 29, 1942, Serial No. 445,004
In Great Britain February 3, 1942
4 Claims. (Cl. 19—150)



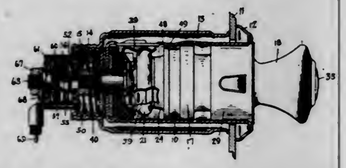
1. Centre drawing-off arrangement for guiding and feeding a fleece from an interposed burr crushing machine to a subsequent carding engine, comprising a table, supports therefor, pairs of light sheet-metal revolvable cones disposed in upright position on the table on either hand of the longitudinal centre of the apparatus, supporting spindles for said cones, adjustable bars carrying said spindles, means for securing adjustment of said bars, and a trumpet mouth and calender rolls forward of the table and intermediate of the cones, said cones gathering the fleece and directing same diagonally to the trumpet mouth and calender rolls to produce a single sliver for conveyance to a subsequent carding engine.

2,326,332
MACHINE FOR MAKING LONG PLAYING SOUND RECORDS
Henry P. Clausen, White Plains, N. Y., assignor to The Gray Manufacturing Company, Hartford, Conn., a corporation of Connecticut
Application December 21, 1940, Serial No. 371,070
6 Claims. (Cl. 274—11)



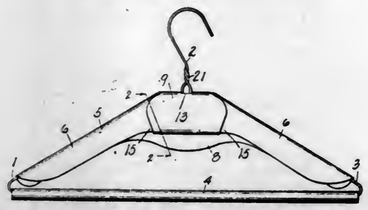
4. In a machine of the type described the combination including spaced means for supporting and feeding a ribbon record in the direction of its length so that the portion therebetween is in a plane, said feeding means including sprocket perforations in the ribbon and sprocket teeth engaging therewith, a rotatable support above said ribbon, sound recording devices on said support arranged to move in succession across said ribbon from side to side, means supporting the ribbon opposite the path of movement of said recording devices, means engaging the side edges of said ribbon for depressing the side edges containing the sprocket perforations so that the recording devices engage and disengage the ribbon at points inside the edges thereof, and means engaging one face of the ribbon for holding a portion of the ribbon below said plane so that only the inactive recording devices do not engage the depressed portion of the ribbon as said support revolves.

2,326,333
CIGAR LIGHTER
Joseph H. Cohen, Bridgeport, Conn., assignor to Automatic Devices Corporation, Bridgeport, Conn., a corporation of Connecticut
Application June 21, 1939, Serial No. 280,270
10 Claims. (Cl. 219—32)



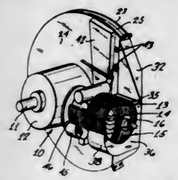
2. A holding device for supporting a removable igniting unit carrying a heating element; an electric circuit for energizing said heating element upon movement of at least a part of the igniting unit to a deep position on said holding device; and means forming a part of said circuit and exteriorly carried by said holding device for normally closing but permanently opening said circuit if the same is held closed for a time sufficient to cause the heating element to reach a dangerous temperature, said means being easily accessible and manually replaceable by a like means without disassembly of either holding device or igniting unit after the means has permanently opened said circuit for again closing the circuit.

2,326,334
GARMENT HANGER
James D. Coney, Chicago, Ill., assignor to L. A. Young Spring & Wire Corporation, Detroit, Mich.
Application April 8, 1942, Serial No. 438,140
6 Claims. (Cl. 223—88)



1. In a garment hanger cover of the type described, a fibrous sheet having a pair of divergent arms of substantial width, a front portion of substantial area integral with and disposed between said arms, and a rearwardly foldable flap in alinement with said front portion, said arms having rear extensions thereon and said flap having side enlargements restrainingly engageable with said extensions when the flap is folded rearwardly into operative covering relation to a garment hanger, said arms in operative position thereof covering the arms of the hanger yoke in downwardly extending position on either side thereof, said flap terminating in a foldable tongue upwardly projecting when in operative use and adapted to be tucked beneath said arm extensions and engageable with the rear side of said front portion to prevent displacement of the cover from the hanger, said tongue being likewise adapted to be tucked around and beneath the collar of a garment on said hanger to positively prevent displacement of the garment from the hanger.

2,326,335
AIR COOLING OF ENGINES
William C. Dehn, Three Rivers, Mich., assignor to Fairbanks, Morse & Co., Chicago, Ill., a corporation of Illinois
Application July 26, 1940, Serial No. 347,621
2 Claims. (Cl. 123—171)



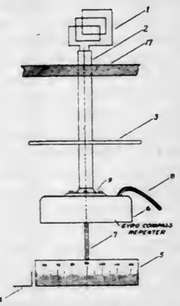
1. In an air cooling system for internal combustion engines, a reversible engine driven fan, a volute and housing structure about the fan, characterized by two substantially opposite volute portions, an end fitting or connection to said housing structure connecting with both volute portions, a duct communicating with said connections, a side connection laterally secured to and communicating with the volute-housing structure, a duct communicating with said side connection, a nozzle for each of said ducts, a turbulence-inducing baffle in each of said nozzles, the nozzles being of partly circular trend, and in partly wrapped relation, respectively to the head portion and barrel portion of the cylinder, the baffle in the nozzle adjacent the head portion of the cylinder, being arranged in biased relation to the associated nozzle whereby to direct a portion of the air entering said nozzle in a direction axially of the cylinder and toward the barrel portion thereof, the cylinder being provided with a plurality of cooling fins respectively on the head and on the barrel portion thereof, and coacting with the said baffles to produce a divided highly turbulent air stream, and to direct such stream circumferentially of the cylinder.

2,326,336
BASE FOR ELECTRIC LAMPS AND SIMILAR DEVICES
Roscoe S. Dick, Conneaut, Ohio, assignor to General Electric Company, a corporation of New York
Application June 8, 1942, Serial No. 446,275
9 Claims. (Cl. 176—32)



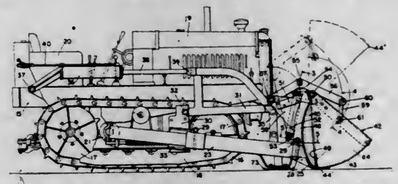
1. A base of the character described comprising a sheet metal disc, for mounting at the end of an envelope, said disc having therein an opening, an insulative plate laterally seated against said sheet metal disc over said opening, bipost contacts fixed in said insulative plate within said opening, and thus insulated from the sheet metal and from one another, engagement means on said sheet metal disc displaced laterally from the plane thereof and antiturningly engaged with said insulative plate, and means for holding said insulative plate to said sheet metal disc in engagement with its said engagement means as aforesaid.

2,326,337
RADIO COMPASS DIRECTION FINDER
Simon Di Renzo, Philadelphia, Pa.
Application February 25, 1941, Serial No. 380,418
5 Claims. (Cl. 250—11)



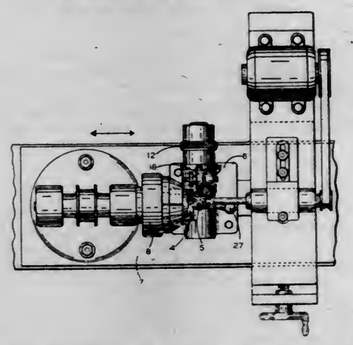
1. In a radio direction finder for ships, a loop antenna, a vertically extending shaft arranged to support and rotate said loop antenna, a housing containing gyro compass repeater mechanism, said housing being directly and rigidly attached to said shaft; the vertical axes of said housing and said shaft being in alignment, so that said shaft and said housing rotate concentrically on a common vertical axis, a calibrated scale, a fixed index adjacent to said calibrated scale, a second vertical shaft; one end of said second shaft adapted to support and rotate said calibrated scale, the other end of said second shaft fitted into said gyro compass repeater mechanism to produce rotation of said calibrated scale independently of the rotation of said gyro compass repeater housing and said loop antenna, the vertical axis of said second shaft being in alignment with the vertical axis of said first shaft and with the vertical axis of said gyro compass repeater housing, so that said first shaft, said gyro compass repeater housing, said second shaft and said calibrated scale rotate concentrically on a common vertical axis, means to make audible the signals picked up by said loop antenna, means to effect rotation of said loop antenna to produce a minimum signal strength, the two independent and/or simultaneous rotations aplied to said calibrated scale by means of said first shaft and said second shaft resulting in a reading which is the algebraic sum of the bearing of the ship's head and the bearing of the transmitter whose direction is being found.

2,326,338
MATERIAL HANDLING APPARATUS
Edward A. Drott and Joseph H. Kerber, Milwaukee, Wis., assignors to Hi-Way Service Corporation, Milwaukee, Wis., a corporation of Wisconsin
Application December 30, 1940, Serial No. 372,322
7 Claims. (Cl. 37—118)



1. The combination with a vehicle, of a pair of pusher arms swingingly mounted on said vehicle and a pusher having a curved moldboard portion extending between said pusher arms and carried thereby, and a scoop member pivotally connected to the upper portion of said moldboard and provided with a bottom portion projecting in front of said moldboard during digging.

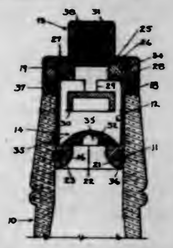
2,326,339
SIZING DEVICE FOR MACHINING OPERATIONS
Harry Allsop Dudgeon, Kenilworth, England
Application March 31, 1941, Serial No. 386,167
In Great Britain April 18, 1940
10 Claims. (Cl. 51—165)



1. For the control of machining operations, the combination with a tool for performing said operations, of a freely rotatable wheel arranged so that the operative portion of the tool makes

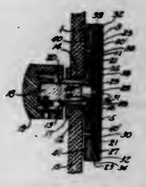
contact with and rotates said wheel at a predetermined stage of the machining operation, and an electric switch arranged for direct operation by the rotation of said wheel and adapted to make and break an electric circuit controlling said machining operation.

2,326,340
BOTTLE STOPPER
Samuel R. Dummer, Dunellen, N. J.
Application July 12, 1941, Serial No. 402,059
7 Claims. (Cl. 215—21)



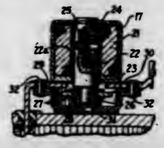
1. In a bottle stopper, an outer cylindrical shell open at its outer end, a wall partly closing the inner end of said shell and having a pouring opening about which the wall forms a valve seat, an inner cylindrical shell disposed in the outer end portion of the outer shell and having a pouring opening therethrough, means locking said shells together, a disc-like valve in said outer shell, and having a flat under side adapted to seat on said wall and close the pouring opening therethrough, said valve of such diameter with respect to the interior diameter of said outer shell as to close said opening in any position of the valve with its flat side against said wall, an inverted cup-like means in said outer shell below said inner shell in position to limit movement of the valve away from said wall and to partly receive the valve on tilting of the bottle to permit of the pouring of its contents, said valve of such thickness with respect to the distance between said wall and the lowermost part of said cup-like means as to be located entirely inwardly of the latter when disposed with its flat side seated on said wall, and straps on said inner shell and supporting said cup-like means in completely spaced concentric relation to said outer shell whereby to provide a uniform space entirely about said cup-like means between it and the outer shell.

2,326,341
VARIABLE CONDENSER
George M. Ehlers and George Kodama, Milwaukee Wis., assignors to Globe-Union Inc., Milwaukee, Wis., a corporation of Delaware
Application May 31, 1941, Serial No. 396,087
4 Claims. (Cl. 175—41.5)



1. A variable condenser of the character described comprising a disc-like stator of insulating material, a disc-like rotor of dielectric material in face-to-face engagement with said stator, a pair of fixed condenser plates applied as metallic films to the face of the stator engaged with the face of the rotor, a pair of similar movable condenser plates applied as metallic films to the outside face of the rotor, a terminal carried by the stator and in electrical contact with one of its plates for connecting said plate in an external circuit, a collector strip provided adjacent the center of the stator as an extension of the plate to which the terminal is connected, a contact shoe carried by the rotor having wiping contact with said strip and electrically connected to one of the plates of the rotor, a metallic bearing bushing carried by said stator, a connecting arm between the bushing and the other condenser plate of the stator, a rotary adjusting shaft supported in said bearing bushing, and a metallic driving arm fastened to the shaft and having driving engagement with the rotor and also electrically connected with one of its condenser plates whereby positively and negatively charged condenser plates are provided on both the rotor and on the stator and the capacitance of the condenser is variable by rotating the rotor relative to the stator to vary the extent to which the positively and negatively charged plates overlap.

2,326,342
SOLENOID SWITCH
Louis B. Ehrlich, Toledo, Ohio
Application May 23, 1940, Serial No. 336,798
5 Claims. (Cl. 200—111)

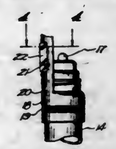


1. In a device of the class described, a pair of cups having their open ends cooperating together to form an enclosure, magnetic solenoid means having a movable armature positioned in the enclosure, outwardly projecting flange means on the lips of the cups, at least a pair of strip-like contact means cooperating with their flat sides with the flange means and adapted to extend in spaced relation into the enclosure through apertures in the wall of the cups to hold a portion of the solenoid means in position, fastening means in aligning apertures in the flange means and the contact means adapted to hold the cups and contact means in cooperative relation, means to insulate the contact means from the cups, a movable contact carried by the armature to cooperate with the spaced contacts to close a circuit between them when the armature is under the influence of a magnetic field of the solenoid, and resilient means to move the movable contact and the armature to the initial position upon termination of the magnetic field.

2,326,343
PENCIL TYPE FLASHLIGHT
Erwin Eichenberger, Detroit, Mich.
Application March 21, 1941, Serial No. 384,438
2 Claims. (Cl. 88—39)

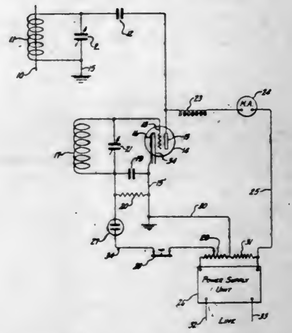
1. In combination with a flash light having a body and a light bulb in one end thereof, a split resilient sleeve embracing and slidably mounted on said body; a curved extension plate projecting forwardly from said sleeve and movable in unison therewith and having an opening formed therein

and adapted for lying between the ends of said body and for being projected beyond the light bulb bearing end of said body; and a magnifying



lens mounted in said opening and overlying the area in front of said light bulb upon the projection of said plate beyond the end of said body.

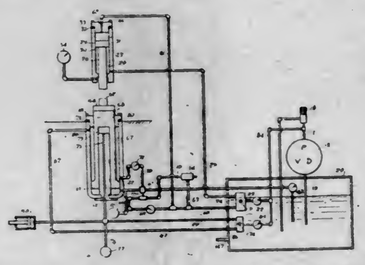
2,326,344
APPARATUS FOR DETECTING VARIATIONS IN WIRELIKE BODIES
Duryea E. Elmendorf, Cleveland, and Karl H. Keller, Cleveland Heights, Ohio, assignors to General Electric Company, a corporation of New York
Application June 25, 1941, Serial No. 399,646
7 Claims. (Cl. 177—311)



1. Apparatus for detecting flaws in wire-like bodies comprising an oscillator having a vacuum tube with a cathode, anode and control grid, a resistance connected at one end to the control grid through an inductance, means for connecting the positive terminal of a source of electrical energy to the anode and the negative terminal of said source to the cathode and the other end of the resistance, and a tuned work circuit comprising a coiled reactance connected between the cathode and the anode adapted to allow the wire-like body to pass through it and cause the apparatus to oscillate electrically when the wire-like body has definite characteristics and prevent oscillations when said wire-like body has other characteristics, and indicating means connected across the resistance and actuated due to the reduced voltage drop across the resistance when the apparatus is not oscillating.

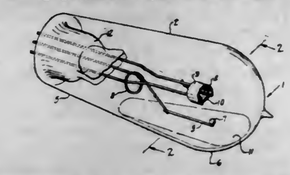
2,326,345
TESTING PRESS
Walter Ernst and Ira B. Lawyer, Mount Gilead, Ohio, assignors to The Hydraulic Development Corporation, Inc., Wilmington, Del., a corporation of Delaware
Application August 24, 1940, Serial No. 354,096
14 Claims. (Cl. 73—51)

1. In a press, fluid operable means for hydraulically supporting a work piece and clamping it against an abutment, means for admitting pressure fluid to a restricted area of said fluid operable means to cause the latter to exert a restricted clamping pressure upon said work piece, fluid operable pressing means adapted to enter a recess in said work piece for exerting pressure upon fluid filling said recess in the work piece,



and means responsive to a predetermined pressure acting on said pressing means for admitting pressure fluid to an increased area of said fluid operable means for causing the latter to exert full clamping pressure on said work piece.

2,326,346
VAPOR LAMP FOR SOUND RECORDING
Alton G. Foote, Wickliffe, Ohio, assignor to General Electric Company, a corporation of New York
Application November 2, 1940, Serial No. 364,019
4 Claims. (Cl. 176—122)

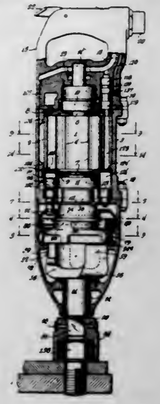


1. A mercury vapor lamp comprising a sealed envelope adapted for use with its longitudinal axis disposed horizontally and having a stem end and a bulb end, lead-in conductors sealed in the stem end of said envelope and extending longitudinally therethrough to the vicinity of the bulb end of the envelope, a pair of electrodes carried by said conductors in the bulb end of said envelope, one of said electrodes being located adjacent to the axis of the envelope and the other electrode being located below said axis so that the discharge gap therebetween extends transversely of said axis, a downwardly concave shield mounted adjacent to and above the upper electrode, and a pool of mercury disposed in said envelope below said electrodes, the stem end portion of said envelope serving to condense the mercury vaporized during operation of the lamp.

2,326,347
IMPACT TOOL
Frithiof P. Forss, Aurora, Ill., assignor to Independent Pneumatic Tool Company, Chicago, Ill., a corporation of Delaware
Application October 9, 1941, Serial No. 414,228
26 Claims. (Cl. 192—30.5)

1. An impact clutch comprising a rotatable hammer, a rotatable anvil having spaced jaws, impact members movably carried by the hammer and movable by centrifugal force into the orbital path of the jaws to deliver a succession of rotational impacts to said jaws in the rotation of the hammer relatively to the anvil, revolvable re-

tracting means receiving rotation from the hammer and movable by momentum relatively thereto in its direction of rotation upon the termina-



tion of an impact to automatically move the impact members out of the orbital path of the jaws, and means for driving the hammer.

2,326,348

ENAMELING COMPOSITION AND THE LIKE AND METHOD OF MAKING THE SAME

Leon J. Frost and Charles H. Commons, Jr., Niagara Falls, N. Y., assignors to The Titanium Alloy Manufacturing Company, New York, N. Y., a corporation of Maine

No Drawing. Application August 31, 1939, Serial No. 292,874
8 Claims. (Cl. 106—48)

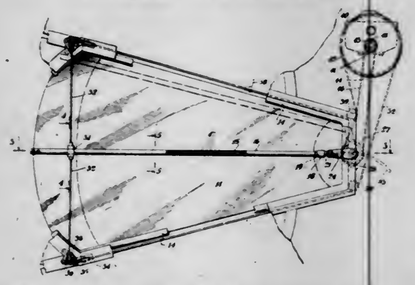
1. A composition capable, upon smelting, of forming a relatively translucent frit, in turn capable of producing highly opaque enamels and the like, comprising a mixture of compounds containing approximately the following content by analysis: sodium about 11%; calcium about 6%; boron about 5%; aluminum about 8%; silicon about 13%; zirconium about 7%; zinc about 4%; oxygen about 37%; and fluorine about 9%.

2,326,349

WINDSHIELD WIPER MECHANISM

Ernest W. Fuller, Shaker Heights, and Otto Morgensen, Jr., Dayton, Ohio, assignors to The Acrotorque Company, Cleveland, Ohio, a corporation of Connecticut

Application March 7, 1941, Serial No. 382,134
17 Claims. (Cl. 15—250.4)



1. In combination, a blade receiving arm disposable exteriorly of a surface to be cleaned, driving means slidably connected to said arm for causing sidewise movement of the same, means disposable adjacent the side edges of such surface and connected to said last-named means for driving the same, and means for pivotally mounting said arm.

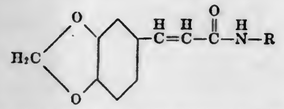
2,326,350

INSECTICIDE

Samuel I. Gertler and Herbert L. J. Haller, Washington, D. C., assignors to Claude R. Wickard as Secretary of Agriculture of the United States of America, and his successors in office

No Drawing. Application November 14, 1942, Serial No. 465,569
4 Claims. (Cl. 167—24)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. An insecticidal composition comprising pyrethrum and a compound represented by the formula



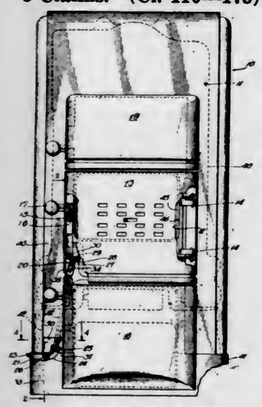
where R is a radical chosen from the group consisting of methyl, ethyl, propyl, butyl and isobutyl.

2,326,351

HEATING APPARATUS

Bernard Goerg, Bronxville, N. Y., assignor to American Radiator & Standard Sanitary Corporation, New York, N. Y., a corporation of Delaware

Application April 21, 1942, Serial No. 439,817
3 Claims. (Cl. 110—178)



1. In furnace apparatus, a wall including an upwardly extending base, a ledge extending inwardly from the top of said base, and a main wall section extending upwardly from the inner edge of the ledge and having an opening therethrough; a door closing said opening; a lever pivotally supported on said wall adjacent said ledge with the pivotal axis arranged substantially horizontal and between the ends of said lever to provide a first lever arm adapted to be engaged and pressed down by the foot of the operator from a normal or initial position, and a second lever arm including a portion at the outer end thereof overlying and engaging the top of said ledge when in said initial position; and a push rod operatively engaging at its lower end an upwardly facing surface on the outer

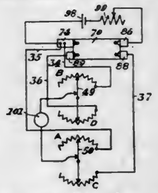
end of said second lever arm and said rod extending upward therefrom to said door and including an upper portion so formed as to engage a portion of said door and force the latter open upon an upward lengthwise movement of said rod from said initial position; and means for guiding said rod during its upward lengthwise movement and providing for the return of said rod and said lever to initial position due to the weight of said rod when said first arm is released by the operator.

2,326,352

METHOD AND APPARATUS FOR DETECTING PROGRESSIVE FRACTURES OR THE LIKE IN HEAVILY STRESSED WORKING MEMBERS

Grover R. Greenslade, Scott Township, Allegheny County, Pa., assignor to Flannery Bolt Company, Bridgeville, Pa., a corporation of Delaware

Application November 18, 1940, Serial No. 366,156
11 Claims. (Cl. 175—183)



2. A metallic member for use to transmit or sustain mechanical stresses in its intended operation, consisting of a metallic body, provided with a pair of testing stations on opposite sides of a zone in said member most likely to be affected by said stresses, said station consisting first of a relatively plane surface on or adjacent the normal external contour surface of said member, and, second, of a threaded recess for the reception of a threaded plug to establish positive electrical contact between said plane surface and an external current-transmitting element.

7. In a method of detecting progressive fractures in a metal member subjected to heavy stress in normal service, the steps including connecting the known resistor of a Kelvin double-bridge circuit to a current contact station on said member, connecting a current source to said known resistor and to another permanent current contact station on said member, connecting to said circuit permanent voltage contact stations located on said member at a sufficient distance from said current stations to avoid the effects of high current density adjacent the latter, so that said member constitutes the unknown resistance in said circuit, measuring the resistance of the member, and observing the percentage variation in its resistance after a period of normal service.

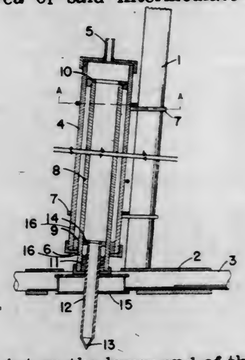
2,326.353

MARINE FOUNDATION

Henry Emmett Gross, College Station, Tex.

Application December 5, 1939, Serial No. 307,569
2 Claims. (Cl. 61—50)

1. In a marine foundation having supporting legs, a levelling device comprising a cylinder fixed to one of said legs, adjacent the lower end thereof, a plurality of concentric cylinders mounted inside said cylinder in a telescoping manner, for extension downwardly therefrom, the upper ends of said inner cylinders communicating with the interior of said fixed cylinder, an intermediate one of said inner cylinders being provided at its lower end with a laterally extending member having a large surface area relative to the cross sectional area of said intermediate cylinder, a



spudding point on the lower end of the innermost cylinder, and an inlet for pressure fluid on the upper end of the fixed cylinder.

2,326,354

BLACK-OUT HOOD

Kermit M. Hale, Richmond, Va.

Application October 16, 1942, Serial No. 462,455
4 Claims. (Cl. 240—48.4)

1. In a blackout hood for automobile lights and the like, a first member adapted to be permanently carried on the light, comprising a skirt portion of opaque flexible fabric adapted to be clamped around the periphery of a light assembly and to extend forwardly to overlie the outer portion only of the lens of the light thereby allowing substantially the normal amount of light to be emitted forwardly from the lens, and a hoop of relatively rigid material secured to the forward edge of the skirt portion, and a quickly attachable and detachable second member adapted to be removably secured to the first member so as to overlie the remainder of the lens, comprising a second loop telescopically engageable with the first-mentioned hoop, and a sheet of flexible fabric secured across the second hoop, the second member being constructed to transmit subdued light only.

2.326.355

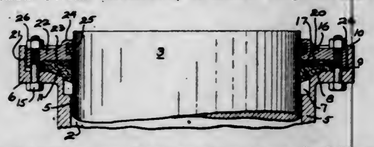
HYDRAULIC PACKING

John H. Halstead. San Jose, Calif.

Application November 19. 1941. Serial No. 419,739
7 Claims. (Cl. 286—26)

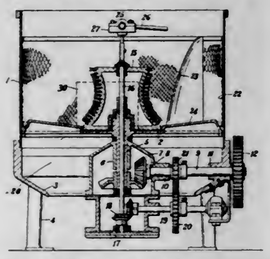
3. Means for packing a relatively movable

cylindrical piston member and a cylinder member assembly comprising a coned packing sheet anchored at one edge only to one of said members to restrain said packing sheet against lateral body movement and having its opposite free edge surface contacting a bearing surface on said other member, a fillet ring mounted on



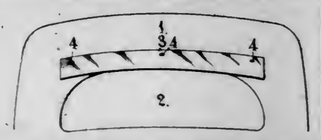
said bearing surface and means holding said fillet ring in substantially slidable contact with said coned packing sheet to cause said fillet ring to exert a wedging action against said sheet to change the cone angle in opposite directions on diametrically opposite portions of said sheet upon lateral movement between said members.

2,326,356
VEGETABLE WASHING MACHINE
William Heywood Haslam, London, England, assignor to Fisadco Limited, London, England, a British company
Application October 16, 1941, Serial No. 415,201
In Great Britain October 26, 1940
2 Claims. (Cl. 146—201)



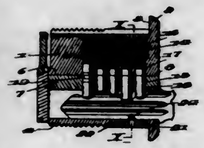
1. A vegetable washing device comprising in combination a stationary drum adapted to receive vegetables to be washed, a water spray therein, a rotatable plate in the bottom of the drum for supporting the vegetables, ridges on the plate sloping from high portions near the circumference to low portions near its center, a rotatable brush mounted on a vertical shaft centrally of the drum above said plate, means for rotating said plate and said brush whereby the vegetables will be tumbled inwardly against the rotating brush by the ridges and sprayed during the brushing operation.

2,326,357
MOTOR VEHICLE CONSTRUCTION
Erwin C. Horton, Hamburg, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.
Application August 17, 1939, Serial No. 290,650
5 Claims. (Cl. 296—95)



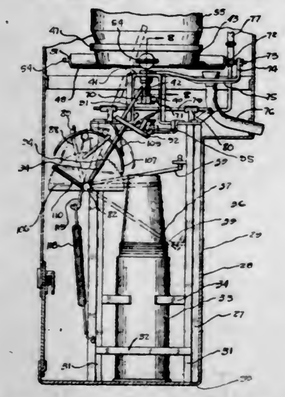
1. A visor for rear windows of vehicles, comprising a rigid hood-like structure positioned over the window and forming part of the inclined rear body panel of the vehicle, the visor being coextensive with the rear window and overlying substantially the entire area thereof, but extending practically horizontally in a rearward direction, thereby allowing unobstructed vision through the window and toward the rear.

2,326,358
TUMBLER TYPE LOCK
Homer L. Hull, Marion, Ohio
Application January 23, 1940, Serial No. 315,266
3 Claims. (Cl. 70—385)



1. In a lock of the type having a body, a cylinder mounted for rotation in said body from a normal to a combination changing position, tumbler means in said body and cylinder for normally resisting movement of the latter, said means being rendered inoperative upon the insertion of a key having a predetermined shape into said cylinder, means provided in said lock for changing the combination thereof, said means being operated by inserting a different key in the cylinder while the same is in the combination changing position and returning the cylinder to a normal position, and means provided in said body for preventing the withdrawal of the keys from the cylinder when in a combination changing position, said means being releasable at will.

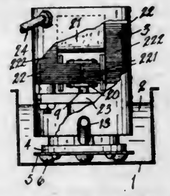
2,326,359
DISPENSING DEVICE
Louis J. Humbert, Rhodelia, Ky.
Application January 18, 1941, Serial No. 375,008
2 Claims. (Cl. 225—21)



1. In a liquid dispensing device of the class described: a stationary supporting member; a compartment-bearing member rotatably mounted on said stationary supporting member and having a plurality of liquid-receiving compartments formed therein; a rotatable valve mechanism associated with each of said compartments for controlling the flow of liquid therefrom; a valve-operating mechanism carried by said supporting member and positioned for engagement with said

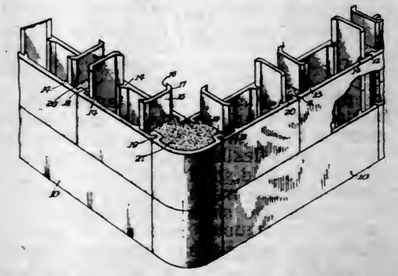
valves individually upon rotation of said compartment-bearing member to a predetermined position and adapted upon actuation for opening and closing the valve; a rockable arm for, upon rocking in one direction, actuating said valve operating mechanism to valve-opening position and, upon rocking in the opposite direction, for actuating said valve-operating mechanism to valve-closing position; manually operable means for rocking said rockable member; and a releasable latch mechanism for preventing reverse rocking of said rockable member after initial rocking of said rockable member in one direction until completion of the movement of said rockable member in said direction.

2,326,360
PUMPING UNIT
Homer H. Ingersoll, Kalamazoo, Mich., assignor to Kalasign Company of America, Kalamazoo, Mich.
Application March 24, 1941, Serial No. 384,781
3 Claims. (Cl. 103—87)



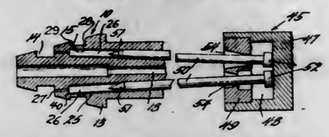
3. In a pumping unit of the type described comprising a supporting base having a pumping chamber therein provided with a liquid inlet and a liquid outlet and adapted to be immersed at least in part in a supply of liquid to be pumped and a vertical impeller shaft rotatably mounted on said support having an impeller on its lower end rotatable in said chamber the combination of a motor for driving said shaft comprising a rotor connected to the latter, a field adjacent the rotor, and a casing of heat conducting metal fitting over and encircling said motor with the field of the latter in direct contact with the sides of the casing, said casing extending below the normal level of liquid in said liquid supply whereby to provide a direct conductive path for dissipation of heat generated in the winding and coil in operation of the motor.

2,326,361
BUILDING CONSTRUCTION
Otto S. Jacobsen, Chicago, Ill., assignor to The Lock-Seal Company, Chicago, Ill., a corporation of Illinois
Application August 22, 1941, Serial No. 407,849
5 Claims. (Cl. 72—29)



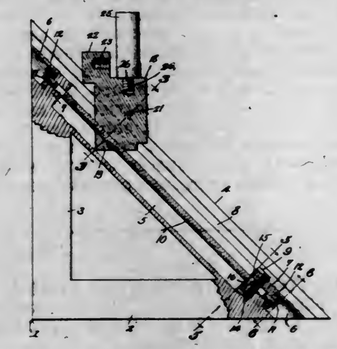
3. A wall including a series of spaced apart wall plates, each plate having inwardly projecting transverse ribs having their faces undercut with a bevel, channel shape tie plates having their flanges beveled on their inner faces at an angle which is substantially complementary to the bevel on the faces of the ribs, pairs of plates engaging with ribs of the opposed wall plates and having their backs opposed with a space therebetween, and a filler in the space between the wall plates and the tie plates, said filler serving to hold the tie plates against the beveled faces of the ribs and locking the several parts together.

2,326,362
TORCH TIP ASSEMBLING TOOL
Alexander F. Jenkins, Baltimore, Md.
Original application July 31, 1940, Serial No. 348,888. Divided and this application September 11, 1942. Serial No. 458,022
3 Claims. (Cl. 29—88.2)



1. A tool for assembling torch tips having a plurality of longitudinal bores therein, into which are firmly seated tubular inserts; said tool comprising a head, a plurality of pins projecting from said head and movably carried thereby, said pins all being of equal length, lost motion connections between said head and said pins so constructed and arranged that the movement of said pins with respect to said head toward the work is limited to different distances and a common abutment on said head lying in a single transverse plane and providing a backstop for said pins, whereby the outer ends of said pins may be individually and successively introduced into the several bores of the torch and then forced equally therein by the application of pressure to the head.

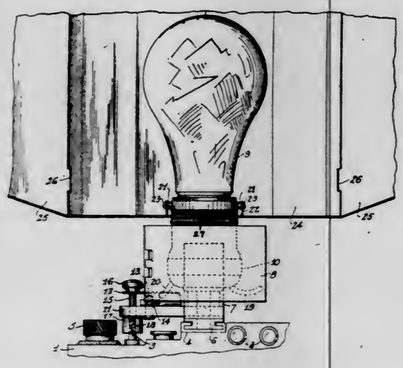
2,326,363
MEASURING INSTRUMENT
Walter L. Johnson, Bay City, Mich.
Application April 13, 1942, Serial No. 438,849
1 Claim. (Cl. 33—162)



A measuring instrument comprising a body in the form of an isosceles right triangle, the body having a transverse opening and a longitudinal recess in its hypotenuse portion and having bores at the ends of the hypotenuse portion, the recess and the bores defining lugs, a micrometer screw journaled in the lugs and extended longitudinally

of the recess, the hypotenuse portion having an edge groove which opens downwardly into the recess, a rider slidable along the outer edge of the hypotenuse portion and extended downwardly through the groove and into the recess, the micrometer screw being threaded into the rider, within the recess, the hypotenuse portion having a single longitudinal scale wherewith the rider cooperates, to give a unit reading, a micrometer disk located in the opening and secured to the micrometer screw and cooperating with the body to give a fractional reading, and screws threaded into the lugs and cooperating with the ends of the micrometer screw to hold it against longitudinal movement and prevent the micrometer disk from binding against the body along opposite edges of the opening, the outer ends of the lug screws being located in the bores.

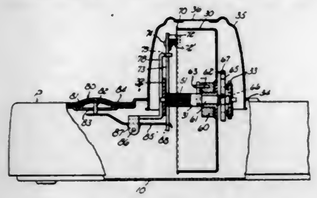
2,326,364
LIGHTING DEVICE
Henry G. King, Lorain, Ohio
Application April 6, 1938, Serial No. 200,478
4 Claims. (Cl. 67—29)



2. A readily attachable shutter and photoflash synchronizing device for cameras having a shutter trigger on the camera case and a viewfinder clip adjacent thereto comprising: switch mechanism including a pair of contacts and having means receivable in said viewfinder clip for quickly and readily attaching the same on the camera case in a predetermined fixed position; manually movable means carried by said switch mechanism and operatively connected to one of said contacts and having a portion in operating alignment with said shutter trigger when said switch mechanism is in said predetermined fixed position.

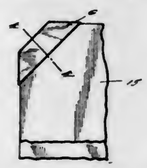
2,326,365
BATHROOM WEIGHING SCALE
Paul J. Kircher, Plainville, Conn., assignor to Landers, Frary & Clark, New Britain, Conn., a corporation of Connecticut
Application January 15, 1942, Serial No. 426,798
8 Claims. (Cl. 265—68)

1. In a scale of the character described, a relatively low platform on which a person stands when weighing himself, a weight indicating member adjacent said platform, load responsive means operatively connected to said weight indicating member and responsive to movements of said platform, means for locking said weight indicating member in weight registering position, and a control member for said locking means carried



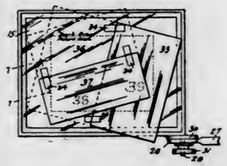
by said platform within the area on which the person weighing himself stands whereby the control member may be conveniently operated by the foot of the person weighing himself.

2,326,366
PAPER FASTENER
Orland A. Krenke, Martins Ferry, Ohio
Application October 10, 1942, Serial No. 461,591
3 Claims. (Cl. 24—67)



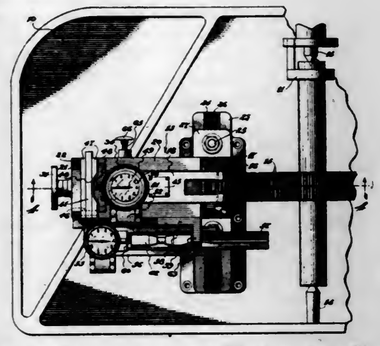
1. A paper fastener comprising a sheet of foldable material including an elongated central portion, a pair of tabs at the side edges thereof and adapted for folding in overlapping relation upon the central portion, means for securing free ends of the tabs to each other to form a continuous flat band adapted for receiving a corner of a stack of paper sheets, a tongue on the upper edge of the central portion and foldable upon the tabs together with said corner of the paper, and a foldable extension on said tongue adapted for folding under the tongue and the tabs.

2,326,367
METHOD AND APPARATUS FOR MAKING PHOTOGRAPHIC MONTAGES
Frederick H. Krug, Mount Vernon, Wash.
Application October 3, 1941, Serial No. 413,394
2 Claims. (Cl. 88—24)



1. In photographic printing apparatus, the combination with an adjustable shelf-supporting means; a transparent shelf supported thereby; a mask; and flexible adhesive means securing said mask to said shelf along one edge of said mask, whereby said mask may be exposed successively on its two sides to successively cover and uncover contiguous portions of said shelf without moving said secured edge and therefore without moving the dividing line between said portions.

2,326,368
GEAR FORMING MACHINE
Alfred Kullman and Charles Black, Cincinnati, Ohio, assignors to The American Tool Works Company, Cincinnati, Ohio, a corporation of Ohio
Application November 29, 1938, Serial No. 242,967
6 Claims. (Cl. 51—165)

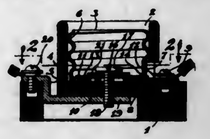


3. In a gear forming machine, means for rotatably supporting a gear to be formed, means for forming said gear, a slide mounted thereon, a master gear mounted on the slide in rolling mesh with said gear to be formed, a gauge operated by said slide, said gauge including a stem for operating the pointer thereof, an adjustable slide carrying said first named slide and providing an abutment for said stem, and spring means between said slides for urging said first named slide toward the gear being ground, whereby, as the first named slide moves toward the gear being formed, the pointer approaches zero.

2,326,369
PREPARATION AND USE OF SUGAR REFINING ADSORBENT
William A. La Lande, Jr., Upper Darby, Pa., assignor to Porocel Corporation, Philadelphia, Pa., a corporation of Delaware
No Drawing. Application May 13, 1942, Serial No. 442,866
6 Claims. (Cl. 127—55)

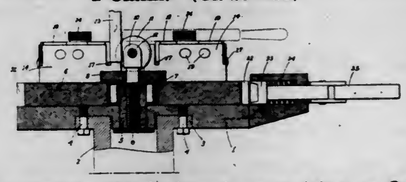
1. The method of preparing bauxite adapted for the refining of sugar solution without lowering the pH of said solution, which comprises contacting the bauxite with ammonia, and calcining the treated bauxite at a temperature between 500° F. and 1600° F.

2,326,370
PLUG FUSE RECEPTACLE STRUCTURE
Edwin W. Landmeier, Cincinnati, Ohio, assignor to The Wadsworth Electric Manufacturing Co., Inc., Covington, Ky., a corporation of Kentucky
Application August 4, 1941, Serial No. 405,329
6 Claims. (Cl. 200—133)



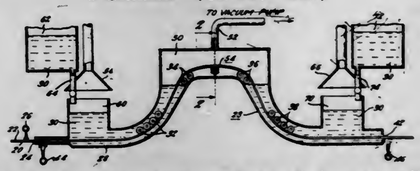
5. The combination comprising a receptacle configurated for reception of a plug-type fuse and constituting a contact for the peripheral contact thereof, and a headed fastener member residing within said receptacle and constituting an electrical contact for engagement with the bottom contact of a plug fuse, of a washer constructed of insulating material interposed between the fuse shell and the head of the fastener member to insulate one from the other, and a lock washer interposed between the insulating washer and the head of said fastening member, said washer including means for holding the same in non-rotatable relationship with respect to said shell.

2,326,371
MULTIPLE CHUCK TURRET
Robert G. Le Tourneau, Peoria, Ill., assignor to R. G. Le Tourneau, Inc., a corporation
Application October 25, 1941, Serial No. 416,514
1 Claim. (Cl. 29—38)



A multiple chuck turret comprising a fixed back plate, a rotatable face plate mounted in face to face engagement therewith, and a plurality of chucks mounted on the face plate in symmetrical and circumferentially spaced relation, said chucks each including a chuck jaw actuating bolt projecting parallel to the chuck axis inwardly into a recess formed in and which opens to the back of said face plate, a nut threaded on the bolt and seated in the recess, both the bolt and nut terminating short of the plane of the back surface of said face plate; the back plate normally overlying said recesses but having a tool access opening disposed to successively register with said recesses upon rotation of the face plate, and means to releasably hold the face plate against movement relative to the back plate when any such registry is obtained.

2,326,372
IMPREGNATING METHOD
Jean A. Lignian, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Original application July 13, 1939, Serial No. 284,222. Divided and this application November 14, 1940, Serial No. 365,644
3 Claims. (Cl. 117—114)



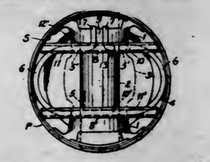
1. In a continuous method of impregnating porous metallic strip material, the steps comprising; immersing the porous strip material in an impregnating fluid, removing the strip material from the impregnating fluid in a chamber held at pressures less than atmospheric pressure, vibrating the strip in said chamber for removing occluded air from the porous material of the strip, and then further impregnating the strip by again immersing the strip in the impregnating fluid prior to exposure to atmospheric conditions.

2,326,373
ALKOXY ACRYLONITRILES AND PROCESS OF PREPARING THE SAME
John R. Long, Akron, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware
No Drawing. Application June 25, 1941, Serial No. 399,677
10 Claims. (Cl. 260—464)

1. The alpha (aliphatic oxy) acrylonitriles.

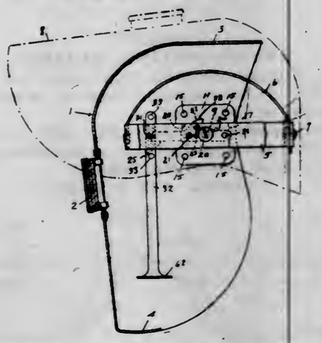
2,326,374
WITHDRAWN

2,326,375
PISTON SKIRT EXPANDER
Charles A. Marien and Melvin W. Marien, St. Louis, Mo., assignors to Ramsey Accessories Manufacturing Corporation, St. Louis, Mo., a corporation of Missouri
Application November 19, 1941, Serial No. 419,704
9 Claims. (Cl. 309—12)



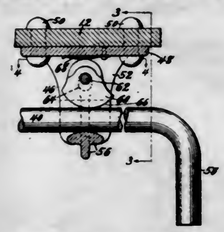
1. A piston skirt expander comprising an expanding element having side members and piston skirt engaging members, a supporting element secured to each of said side members, and extended abutment portions on the supporting elements.

2,326,376
WELDER'S HOOD
Frederic H. Markgraf, Jr., and Joseph M. Fay, San Francisco, Calif., assignors of one-third to Ronald Muller, San Francisco, Calif.
Application February 17, 1943, Serial No. 476,136
12 Claims. (Cl. 2—8)



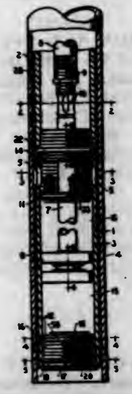
1. A welder's hood, a head-fitting member on which said hood is pivotally supported for swinging from face-covering position to an elevated position over the head of the wearer; a mechanism for releasably locking said hood to said member when the hood is in face-covering position and movable to a position releasing said hood for swinging of the latter to said elevated position, and means connected with said hood automatically actuatable upon such movement of said mechanism for swinging said hood to said elevated position.

2,326,377
SLACK ADJUSTER FOR RAILWAY BRAKES
John J. McBride, Bayonne, N. J., assignor to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey
Application November 8, 1941, Serial No. 418,282
8 Claims. (Cl. 188—197)



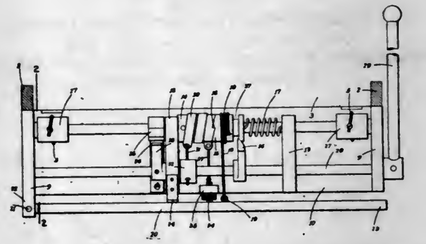
1. A slack adjuster for railway car brake rigging comprising an anchor bracket fixed relative to the car, an anchor rod pivotally connected at one end with the brake rigging and having its other end portion slidably supported in said bracket in frictional engagement therewith, and a cam member rotatably mounted in said bracket and adapted to wedgingly engage said anchor rod between the cam and bracket to lock the same against movement.

2,326,378
SUBMERGED DOUBLE ACTING PUMP
Levi L. McConnohie, Galesburg, Mich., assignor, by mesne assignments, to Bol-Mac Products Company, Galesburg, Mich., a partnership comprising H. V. Price, Carl R. Roelof, and Levi L. McConnohie
Application January 8, 1940, Serial No. 312,824
8 Claims. (Cl. 103—192)



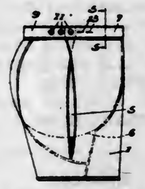
1. In a pump, the combination which includes a cylinder internally threaded a short distance at both ends, externally threaded upper and lower partition plates, one at each end of said cylinder and threadedly engaging same substantially at the inner end of the threads thereof, inlet valve means for said cylinder, said valve means being separately mounted on both of said partition plates, a connector member for the upper end of said cylinder, said upper partition plate being substantially spaced from the connector member to provide a compartment therebetween, said cylinder having at least one passageway through the side thereof into said compartment between the connector member and upper partition plate, a plunger rod passing through said connector member and upper partition plate and forming a relatively fluid tight sliding fit therewith, a piston mounted on said plunger rod for reciprocation within said cylinder in the space between said inlet valve carrying partition plate assemblies, and an outlet means from said cylinder, said outlet means including a longitudinal passageway in said plunger rod with discharge outlet therefrom outside of said cylinder, and a valve means at said piston connecting said passageway first at one side of said piston and then the other to said cylinder for flow of pumped fluid from the latter.

2,326,379
MATTRESS FRAME ELEVATING AND LOWERING MECHANISM FOR CRIBS
Walter J. McNabb and William R. Cochrane, Delhi, Calif.
Application April 11, 1942, Serial No. 438,538
11 Claims. (Cl. 5—11)



1. In a crib a vertically movable mattress frame and manually actuated mechanism to raise, and to control lowering movement of said frame; said mechanism including a shaft rotatable in one direction to raise the frame and rotatable in the other direction to permit lowering of the frame, pedal actuated means to rotate the shaft in said one direction, and hand actuated means to apply a braking action against rotation of the shaft in said other direction.

2,326,380
GARMENT
Cornell M. Miller, Cheltenham, Pa.
Application June 27, 1942, Serial No. 448,787
3 Claims. (Cl. 2—224)



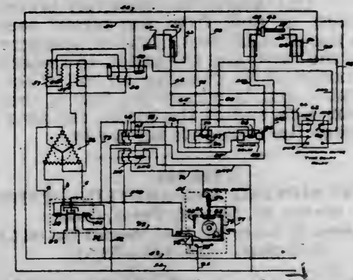
1. A garment of the character described, comprising a garment body having oppositely disposed side openings therein extending through the upper edge of the garment body and extending downwardly therefrom through the plane of the seat area of the garment to a point below the garment crotch seam, separate front and rear waistbands secured to said garment body in position thereon extending from one side opening to the other, and means for releasably and adjustably securing opposing ends of the separate waistbands together for adjustment of waistband size of the garment.

2,326,381
APPARATUS FOR THE MANUFACTURE OF GRINDING WHEELS
Lowell H. Milligan and Robert H. Lombard, Worcester, Mass., assignors to Norton Company, Worcester, Mass., a corporation of Massachusetts
Original application November 19, 1936, Serial No. 111,720. Divided and this application August 2, 1940, Serial No. 349,824
6 Claims. (Cl. 18—34)



1. Mold apparatus for making a grinding wheel comprising an annular mold ring having an annular chamber therein connected with a source of fluid pressure, said ring having an internal cylindrical face and telescopically receiving therein upper and lower pressure plates and having a slot extending about said cylindrical face and communicating with said chamber and with the space between said two pressure plates, means for exerting pressure to force one of said pressure plates in a direction toward the other and thereby compress in an axial direction grinding wheel material received in said above-mentioned space, a deformable member in said slot and forming a peripheral boundary for said space and operating under the action of said fluid pressure to compress said grinding wheel material inwardly in the direction of the radii to the axis of said cylindrical face.

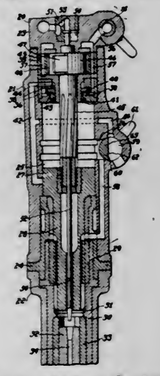
2,326,382
MOTOR CONTROL
Stephen T. Moreland and Parker C. Tracy, Toledo, Ohio, assignors to Owens-Illinois Glass Company, a corporation of Ohio
Application October 25, 1940, Serial No. 362,812
6 Claims. (Cl. 172—239)



6. The combination of an electric motor, an element movable to and from a predetermined stop position, mechanism providing driving connections between the motor and said element, screw-threaded means for guiding and controlling the movement of said element as the latter is driven by the motor, a reversing switch for the motor, means for automatically operating the reversing switch when said element nears its said stop position and thereby reversing the electrical driving force applied to the motor and bringing the motor to rest, automatic means for reversing the switch when the motor is brought to rest and thereby again starting the motor in a forward direction and completing the forward movement of said element to said stop position, automatic means for introducing impedance into the motor circuit and thereby reducing the torque of the motor during the final movement of said element to said stop position, and means for stopping the motor and said element with the

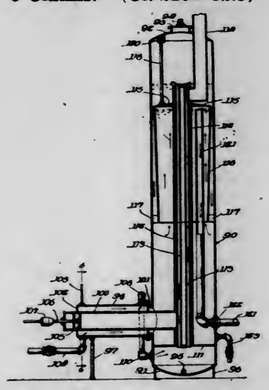
latter in said stop position and maintaining a reduced driving torque on the motor after it has stopped and thereby causing it to maintain a reduced torque on said element for holding the latter in said stop position.

2,326,383
BLOWING DEVICE
William A. Morrison, Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y., a corporation of New Jersey
Application July 23, 1942, Serial No. 452,068
4 Claims. (Cl. 121—10)



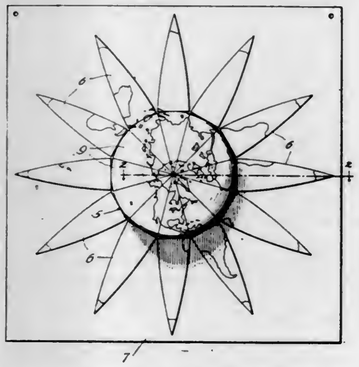
1. In a fluid actuated rock drill, the combination of a casing having a piston chamber and a free exhaust port therefor, a reciprocatory piston in the piston chamber to control the exhaust port, a valve for effecting the distribution of pressure fluid to the piston chamber to actuate the piston, a cavity in the casing, a passage to afford constant communication between the intermediate portion of the piston chamber and the cavity, and means for selectively preventing the exhaust of fluid from the piston chamber through the exhaust port to the atmosphere and to cause the valve and the piston to respectively assume positions for charging an end of the piston chamber and to permit the flow of pressure fluid from such end of the piston chamber into and through the passage to the cavity.

2,326,384
DEMULSIFYING AND SETTLING TANK
Walter M. Mount, Tulsa, Okla.
Application October 14, 1941, Serial No. 414,961
9 Claims. (Cl. 210—52.5)



9. A demulsifying and settling tank for liquids including a vertically extending inlet cylinder within the tank having an inlet for raw liquid at its lower end, a second cylinder within the tank concentrically arranged with respect to the inlet cylinder and having a fluid inlet connection with the inlet cylinder at its upper end, said second mentioned cylinder at its lower end opening into the tank whereby the liquid flows upwardly in the inlet cylinder and downwardly in the second mentioned cylinder to be discharged into the tank, means for clarifying the liquid within the second mentioned cylinder having surrounding relation with the inlet cylinder, said means reversing the direction of flow to decrease the rate of flow of the liquid through said means, whereby foreign liquids, solids and other matter are caused to separate out by gravity, an outlet in the base of the tank for said foreign liquids, solids and other matter, and an outlet in the upper portion of the tank for the clarified liquid.

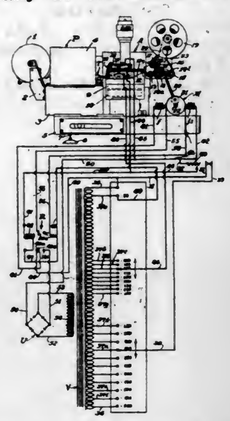
2,326,385
CARTOGRAPHIC INSTRUCTION DEVICE
Virgil R. Mullins, Swayzee, Ind.
Application December 7, 1942, Serial No. 468,149
3 Claims. (Cl. 35—43)



1. A cartographic instruction device comprising a hemispherical member the surface of which constitutes a globe map of one hemisphere of the world, and sufficient map gores for a corresponding globe map of the other hemisphere of the world, said gores radiating from the base circumference of said hemispherical member, said hemispherical member and gores being so connected as to form a single unit, the map areas at the inner ends of said gores being in matching relation with the map areas at said base circumference of said hemispherical member.

2,326,386
TAPE-CONTROLLING ARRANGEMENT
David F. Newman, Rockville Centre, N. Y., assignor to Trans-Lux Corporation, New York, N. Y., a corporation of Delaware
Application December 24, 1938, Serial No. 247,717
10 Claims. (Cl. 271—2.3)

1. In a system for drawing a character-bearing tape through a projection field after ejection thereof from a printing mechanism, means for drawing said tape through the projection field, an electrical motor for operating said drawing means, means forming an energizing circuit for said motor, means for opening said energizing circuit, and means for supplying direct current to and affecting the motor armature electro-magnetically as said circuit is opened to

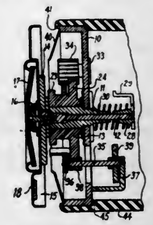


thereby discontinue rotation thereof substantially in an instantaneous manner.

2,326,387
DRAWING COMPOSITION AND METHOD OF MAKING THE SAME
Edward A. Nill, Detroit, Mich., assignor to The H. A. Montgomery Company, Detroit, Mich., a corporation of Michigan
No Drawing. Application July 31, 1940, Serial No. 349,005
13 Claims. (Cl. 252—18)

1. A drawing composition base comprising sulfonated talloil in major proportion and plasticizing amounts of sulfonated sperm oil.

2,326,388
IMPULSE TRANSMITTING DEVICE
Herbert F. Obergfell, River Forest, and Hans Sengebusch, Villa Park, Ill., assignors to Associated Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application November 2, 1940, Serial No. 364,040
2 Claims. (Cl. 177—380)



1. An impulse transmitting device comprising a rotatable shaft, a finger-operated dial carried by said shaft and operative to rotate said shaft in one direction, a spring motor, an operating connection between said shaft and said spring motor, whereby said spring motor is wound when said shaft is rotated in said one direction and said shaft is rotated in the opposite direction when said spring motor is unwound, an impulse wheel, a one-way drive connection between said shaft and said impulse wheel, whereby said impulse wheel is rotated when said shaft is rotated only in said opposite direction, a support, a first link pivotally mounted on said support, a second link pivotally mounted on said first link, a cooperating shoulder carried by said impulse wheel, resilient means for biasing said second link into engagement with said shoulder, thereby to latch said impulse wheel against rotation and to prevent rotation of said shaft in said opposite direction, and a trip carried by said shaft and cooperating with said said second link, whereby said trip is operative to disengage said second link from said shoulder when said shaft is rotated a fixed predetermined amount in said one direction corresponding to a full winding of said spring motor, thereby to unlatch said impulse wheel for rotation and to permit rotation of said shaft in said opposite direction, said resilient means being operative to move said second link about its pivot when said second link disengages said shoulder, thereby positively to prevent said second link from reengaging said shoulder prior to full rotation of said impulse wheel.

2,326,389
PHONOGRAPH STYLUS
Sherman E. Pate, Chicago, Ill., assignor to Permo Products Corporation, Chicago, Ill., a corporation of Illinois
Application June 27, 1942, Serial No. 448,752
4 Claims. (Cl. 274—38)

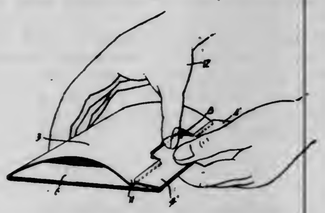


2. In a phonograph stylus, a metallic playing portion having a point at one end, a metallic casing portion, said casing having a substantially concentric bore longitudinal to the casing thereof, said playing portion extending substantially concentrically into said bore along its principal axis and integrally secured therein with its point protruding therebeyond, said bore being of greater diameter than that of the playing portion at its lower end and the intervening space between the playing portion and the casing thereof filled with a viscous damping media, said media extending in close proximity with the said point.

2,326,390
CONTAINER
Samuel Platt, San Francisco, Calif.
Application September 27, 1940, Serial No. 358,609
4 Claims. (Cl. 229—37)

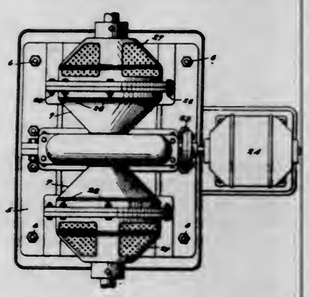
1. A relatively flat container comprising opposed, substantially rectangular top and bottom walls of similar size formed from a single semi-rigid, relatively resilient, elongated sheet of cardboard having a transverse folding crease and folded on itself along said crease, said folding crease defining one of the corresponding adja-

cent edges of said walls; an elongated flap integral with said bottom wall extending lengthwise thereof along the edge of the bottom wall that is opposite said crease; a second folding crease formed in said sheet at the juncture of said flap and said bottom wall and commonly defining one edge of said bottom wall and flap; a tab integral with said flap projecting outwardly of the edge of said flap opposite said second folding crease; said flap being folded along said second crease over the marginal portion of said bottom wall adjacent said second folding crease; a pair of



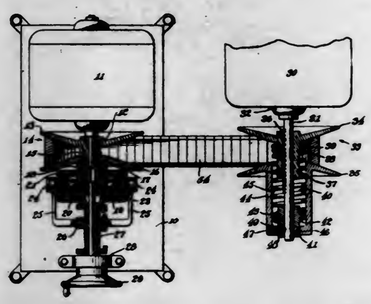
spaced tabs integral with said top wall positioned between said flap and said marginal portion of said bottom wall; the said tab on said flap being positioned between said top wall and said bottom wall when said flap and said top wall are folded over the same side of said bottom wall, and the outer free edges of said pair of tabs being substantially in engagement with the juncture between said flap and said bottom wall when said flap and said top wall are so folded.

2,326,391
SHAFT MILLING AND GRINDING MACHINE
Owen D. Premo, Muskegon Heights, Mich.
Application November 13, 1940, Serial No. 365,535
2 Claims. (Cl. 90—11)



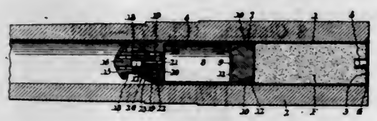
1. A shaft milling machine comprising a base, a body portion mounted on the base and comprising hollow members, aligned hollow shafts extending into the hollow members, pairs of arms having bearings, secured to the inner ends of said hollow shafts and operating within the hollow members, a gear secured to the adjacent ends of the hollow shafts between the hollow members, ring gears secured within the hollow members, shafts mounted in the bearings of the pairs of arms, pinions on the outer ends of the latter shafts, said pinions being in mesh with the ring gears, milling tools mounted on the inner ends of the latter shafts, said milling tools adapted to be rotated through the ring gears and pinions, when the pairs of arms are rotated, and said body portion having openings aligning with the hollow shafts, and through which a shaft to be milled is extended.

2,326,392
VARIABLE SPEED UNIT AND PULLEY THEREFOR
Paul B. Reeves, Columbus, Ind., assignor to Reeves Pulley Company, Columbus, Ind., a corporation of Indiana
Application March 12, 1942, Serial No. 434,373
12 Claims. (Cl. 74—230.17)



1. In a variable-speed unit, a pair of substantially parallel shafts, a first coned disc fixed to one of said shafts, a second coned disc axially shiftably mating with said fixed disc, means for axially shifting said second disc, a third coned disc fixed to the other of said shafts and oppositely facing and axially offset with respect to said first disc, a fourth coned disc axially shiftably associated with said third disc, tension spring means urging said fourth disc toward said third disc, and an edge active belt providing a driving connection between said first and second discs and said third and fourth discs.

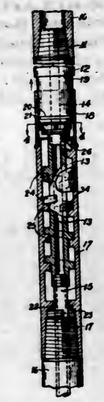
2,326,393
CARTRIDGE
John V. Rice, Jr., Philadelphia, Pa.
Application November 13, 1941, Serial No. 418,883
18 Claims. (Cl. 102—56)



15. A projectile having two separate hollows, one containing a gas and the other containing an explosive charge; means associated with the projectile operative upon firing of the projectile from a gun to highly compress the gas; and means also associated with said projectile and subsequently operative to automatically bring about access of the highly compressed gas to the explosive charge to set off said charge.

2,326,394
COMBINED SAFETY JOINT AND JAR
James G. Richey, Alhambra, Calif.
Application November 22, 1939, Serial No. 305,636
5 Claims. (Cl. 255—27)

1. In a combined safety joint and jar, a mandrel, a sleeve enclosing said mandrel, co-operating interrupted threads on said mandrel and sleeve and means carried by said mandrel for automatically gripping said sleeve to prevent the same from unscrewing from the mandrel as a result of the weight of said mandrel and the parts

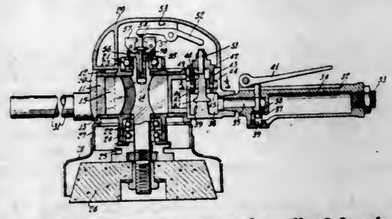


carried thereby when the same are lifted from the bottom of the well hole.

2,326,395
FLOCCULATING REAGENT FOR AQUEOUS SUSPENSIONS AND SLUDGES
John Oswald Samuel, Swansea, Wales, assignor to Unifloc Reagents Limited, Swansea, Wales, a British company
No Drawing. Application July 4, 1939, Serial No. 282,811. In Great Britain July 5, 1938
6 Claims. (Cl. 252—358)

1. A flocculating reagent for use in the separation of suspended material from aqueous suspensions of organic material comprising a thick paste and consisting essentially of approximately equal proportions of calcium sulphate and a substance selected from the group consisting of ferric chloride and aluminum chloride and obtained by mixing a concentrated solution of calcium chloride with a concentrated solution containing a substance selected from the group consisting of ferric sulphate and aluminum sulphate under controlled temperature conditions, the temperature of the solutions being maintained between 30° and 50° C. and that of the mixture not being allowed to rise above 55° C. to obtain a substantially permanently pasty product.

2,326,396
SAFETY GOVERNOR FOR PNEUMATIC TOOLS
Raymond J. Schaedler, Cleveland, Ohio, assignor to Chicago Pneumatic Tool Company, New York, N. Y., a corporation of New Jersey
Application February 14, 1942, Serial No. 430,869
11 Claims. (Cl. 121—34)



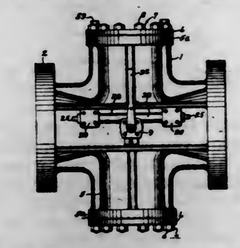
1. In a device of the class described having a pressure fluid operated motor, the combination of a governor valve exercising a variable restriction upon the supply of pressure fluid to said motor, pressure fluid means urging said valve in a direction to increase the supply of fluid to said motor, operating means for said governor valve controlled by said motor and adapted to press said valve in a direction to decrease the supply of fluid to said motor as the speed of said motor increases and to reduce the pressure on said valve as the speed of the motor decreases, said valve moving under the control of said operating means and said pressure fluid means in a direction to increase the supply of fluid to said motor as the pressure of said operating means decreases within predetermined limits, and means on said governor valve for cutting off the supply of fluid to said motor when the pressure of said operating means is removed.

2,326,397
ANIMATED PICTURE DEVICE
Edward Schwartz, Hollywood, Calif.
Application September 28, 1942, Serial No. 459,942
10 Claims. (Cl. 46—36)



1. An animated picture device comprising an inner cylinder carrying a picture on its surface, an outer cylinder of transparent flexible material rotatably, and closely contacting and snugly embracing the inner cylinder in covering relation to said picture and provided with spaced long lines through which the picture is viewed, and said picture having at least a part of its outline fringed with a series of short, parallel spaced lines cooperating with the spaced lines of the outer cylinder to yield a semblance of movement to the picture when the cylinders are turned relatively.

2,326,398
PISTON VALVE
Homer J. Shafer, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a corporation of New Jersey
Application October 17, 1941, Serial No. 415,357
18 Claims. (Cl. 137—139)



1. In valve control mechanism; a valve body having a cylinder therein; a piston reciprocably mounted in said cylinder, said piston adapted to open and close said valve; and means to move said piston in said cylinder comprising conduits connected to each end of said valve body, a check valve in each of said conduits, a reversing valve connected between said conduits, conduits connecting said valve to said cylinder, means to neu-

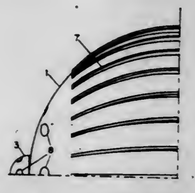
tralize the pressures in said piston when said reversing valve is in a neutral position, means to exhaust pressure fluid from one end of said cylinder, a check valve in said exhaust controllable from said reversing valve and means to throttle said exhaust.

2,326,399
BEDCLOTHES HARNESS
Della M. Shields, Ventura, Calif.
Application October 9, 1941, Serial No. 414,365
2 Claims. (Cl. 24—72.5)



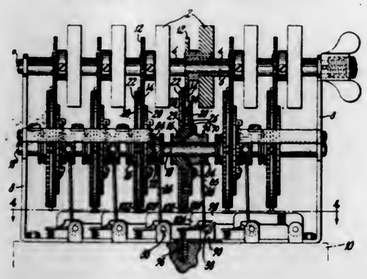
2. Means for securing bed clothes to a mattress, embodying a harness comprising a transverse strap adapted to be secured to the mattress at a point adjacent to one end of the mattress, pairs of elastic end straps secured to the transverse strap at one of their respective ends, at a point under the mattress, the loose ends of the straps adapted to extend upwardly over the end of the mattress, fasteners on the transverse strap, fasteners on the free ends of the pairs of straps and adapted to cooperate with the fasteners on the transverse strap in securing bed clothes extended between the straps of each pair, to the harness, and fastening means at the ends of the transverse strap adapted to hold the transverse strap to the mattress.

2,326,400
AUTOPERISPHERE
Donald V. Shuhart, Fort Worth, Tex.
Application February 3, 1942, Serial No. 429,373
2 Claims. (Cl. 115—20)



2. In an amphibian vehicle, called an autoperisphere, having the combination of an oblate-spheroid with axle bearings in polar positions and a concentrically suspended inner sphere rigidly attached to a tubular axle extending through the bearings of the oblate-spheroid and to the ends of which are rigidly attached hemispherical, hollow navigators' hubs and having in said inner sphere a laterally movable, electrically propelled, truck-mounting for an electric generator unit, supported by wheels in contact with the inner surface of the inner sphere and movable only in a lateral direction toward either pole of the oblate-spheroid said movement being regulated by an electrical remote control housed in each of said navigators' hubs.

2,326,401
TRANSFER MECHANISM FOR ACCUMULATORS
Chauncey M. Sincerbeaux, West Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware
Application December 30, 1939, Serial No. 311,739
5 Claims. (Cl. 235—133)



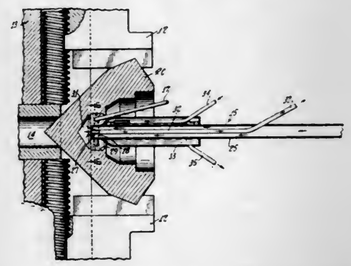
4. A totalizer mechanism comprising two adjacent totalizer trains, each having a number wheel and a single driving train for driving said number wheel, the train of higher order having coaxially rotating driving and driven members, a pawl fixed to the driving member for engaging ratchet teeth on the driven member for driving the corresponding number wheel during a normal accumulating operation, a transfer mechanism comprising a lever pivoted on said driving member, a pawl carried by the lever and arranged to engage the ratchet teeth, means for holding the lever from angular movement with relation to the driving member during normal totalizing operations, the train of lower order having a rotary member rotating coaxially with said driving and driven members, means rotating coaxially with said driving and driven members and driven rotatively by said rotary member of the train of lower order and connecting mechanism between said means and said lever for swinging the lever with relation to the driving member of the train of higher order to advance the driven member with relation to the driving member of the latter train to enter an increment in the corresponding number wheel.

2,326,402
WINDSHIELD WIPER ARM
Theodore J. Smulski, Gary, Ind., assignor to Productive Inventions, Inc., a corporation of Indiana
Application March 10, 1941, Serial No. 382,503
20 Claims. (Cl. 15—255)



20. In a windshield wiper arm, in combination, an inner rigid section adapted to be secured to an operating shaft, a second rigid section pivoted upon said inner section, a spring carried by one of said sections behind the front thereof and engaging the other of said sections, said spring being adapted to urge said second section toward the windshield, an adjusting member supported upon, and extending through the front of, one of said sections, and readily accessible from the front of said section for adjusting operation when the arm is installed and in operative position, and an adjustment transmitting member adjustably carried on the same section by which the adjusting member is supported, behind the front thereof, said adjustment transmitting member having force transmitting connection at one point to the adjusting member and at another to the spring, and serving when adjusted in position by the adjusting member to alter the stress of the spring and thereby to adjust the force with which the spring urges the second section toward the windshield.

2,326,403
METHOD OF AND APPARATUS FOR HARD FACING
Raymond C. Snyder, Franklin, Pa., assignor to Chicago Pneumatic Tool Company, New York, N. Y., a corporation of New Jersey
Application October 11, 1941, Serial No. 414,562
7 Claims. (Cl. 117—46)



1. A method of forming a bearing surface of hard-facing material on the internal wall of a roller cutter, which method comprises: supporting the cutter and a heating torch for relative rotational movement with the burner end of the torch extending into the cutter bore; rotating said cutter about said burner end; discharging the gases from said torch through radial outlets in the burner end, thereby to form flame jets which heat the wall of the bore along an annular path opposite said radial outlets; and holding in said flame jets a rod composed of hard-facing particles and a suitable binding agent, the binding agent being melted by the heat of said flames and the hard-facing particles deposited in the wall of said bore in the area of said annular path.

4. A heat treating torch having a tubular end portion receiving the combustible gases and closed at its outer extremity; radial discharge ports in said tubular end portion rearward of the outer extremity thereof; and a venting passage extending longitudinally within said tubular end portion and connected at either end to atmosphere, one end of said passage opening through said tubular end portion at a point rearward of said radial ports and the other end of said passage opening through said end portion at a point in advance of said radial ports.

2,326,404
SETTING TOOL FOR BRIDGING PLUGS
Irl M. Spangler, Oklahoma City, Okla., assignor to Lane-Wells Company, Los Angeles, Calif., a corporation of Delaware
Application March 15, 1941, Serial No. 383,607
6 Claims. (Cl. 166—1)

1. A bridging plug setting tool comprising: a piston and cylinder operatively connected with a bridging plug; a closed container of fluid under high pressure; means defining an initially closed passageway between said container and said piston and cylinder; remotely controlled means for opening said passageway; and means for hydrostatically balancing said piston against fluid in which the setting tool may be immersed.

2,326,405
SIDE-WALL SAMPLING DEVICE FOR WELL BORES
Lloyd Spencer, Los Angeles, Calif., assignor to Lane-Wells Company, Los Angeles, Calif., a corporation of Delaware
Application June 2, 1941, Serial No. 396,261
11 Claims. (Cl. 255—1.4)



1. A side-wall sampling apparatus comprising: a supporting structure; a plurality of sampling tubes carried thereby; means journaling said sampling tubes; and means for rotating said sampling tubes in an upward arc from an initially depending position to a final upstanding position.

2,326,406
GUN PERFORATOR
Lloyd Spencer, Los Angeles, Calif., assignor to Lane-Wells Company, Los Angeles, Calif., a corporation of Delaware
Application August 18, 1942, Serial No. 455,259
18 Claims. (Cl. 164—0.5)

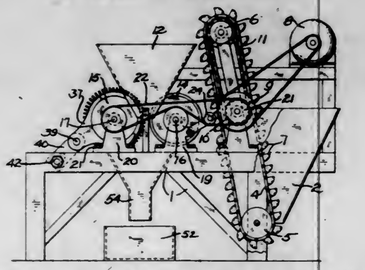
1. A gun perforator comprising: a plurality of gun units; means defining passageways connecting said gun units in series; a detonator element

and a firing pin both wholly within each passageway said firing pin being responsive to explo-



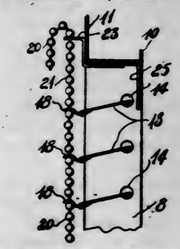
sive gas pressure in one gun unit to actuate the succeeding gun unit.

2,326,407
METHOD OF TREATING FRUIT
Otto J. Steinwand, Oakland, Calif., assignor to S & W Fine Foods, Inc., San Francisco, Calif., a corporation of California
Application August 19, 1940, Serial No. 353,254
6 Claims. (Cl. 99—103)



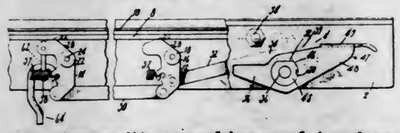
1. The method of treating whole grapes normally subject to disintegration in boiling liquids and the like comprising subjecting the whole grape to the hydrolyzing action of a sodium hydroxide solution to modify the cellulose, fibrous, and starchy parts of the fruit and to preserve said grape against checking, cracking, or splitting under application of heat thereto, puncturing the skin and pulp, and impregnating said grapes in sugar syrup under heat.

2,326,408
METHOD OF CONNECTING BEAD CHAINS TO LOUVER CLIPS
Fern A. Strawsine, Corunna, Mich.
Application August 4, 1940, Serial No. 351,411
2 Claims. (Cl. 59—35)



2. The method of connecting a linked bead chain formed with links of smaller cross-sectional diameter than the beads to a louver clip provided with an opening of a size to permit passage of the bead chain, which consists in first threading the chain through said opening, and then bending the clip downwardly and in a plane parallel to the edge of the louvers, said bend bisecting the opening in the clip to decrease the width of the opening transversely to the bend sufficiently to prevent passage of the beads through the openings in the clips.

2,326,409
TYPEWRITING MACHINE
Oscar J. Sundstrand, West Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware
Application December 31, 1940, Serial No. 372,632
4 Claims. (Cl. 197—3)



1. In a typewriting machine, a platen frame, a substantially flat platen mounted in said frame for movements of translation in directions substantially perpendicular to the plane of the platen, means for movably supporting the platen in said frame comprising four or more parallel supporting levers arranged two on each side of the platen, to support the platen by contact, upon which levers the platen rests and is held in place by gravitational action, the levers on opposite sides of the platen being arranged in pairs the members of which swing on coincident axes, means for connecting said levers for movement in unison in the same direction about the several axes thereof comprising links for connecting the levers on each side of the platen to maintain the same in parallel relation during their movements, means for maintaining the levers at one end of the platen in parallel relation during their movements comprising a rock shaft located adjacent the forward end of the platen frame in a position transverse thereto, arms fixed to the rock shaft and links connecting the arms on the rock shaft respectively with said latter two levers, a hand lever secured to the rock shaft to turn the same to swing said supporting levers to raise and lower the platen and a stop for limiting the movement of the rock shaft in a direction to lower the platen.

2,326,410
TELESCOPING GAUGE
George T. Swinney, Los Angeles, Calif., assignor to The L. S. Starrett Company, Athol, Mass., a corporation of Massachusetts
Application September 17, 1942, Serial No. 458,643
2 Claims. (Cl. 33—143)



1. In a telescoping gauge, a body having a bore, an interior shoulder formed about the bore wall at one end, a tubular plunger having a sliding fit in said bore and having a closed contact end and an externally shouldered opposite end slidably engageable with said interior shoulder of the body bore, a hollow stationary anvial having a closed contact end and an opposite open end at

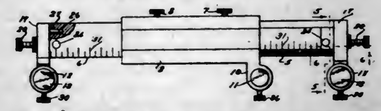
the end of said body bore and of an internal diameter freely receptive of the shouldered open end of said plunger, and a compression spring disposed in the interiors of the plunger and said stationary anvil.

2,326,411
SETTING TOOL FOR CEMENT RETAINERS
Francis A. Taylor, Long Beach, and Lloyd Spencer, Los Angeles, Calif., assignors to Lane-Wells Company, Los Angeles, Calif., a corporation of Delaware
Application April 22, 1940, Serial No. 330,830
4 Claims. (Cl. 166—12)



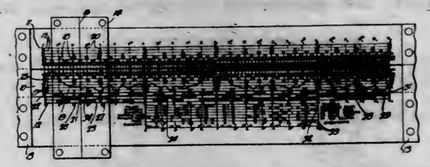
1. The combination with a well device adapted to be set within a casing by relative longitudinal movement of its parts, of a setting tool comprising a mandrel removably attached to said device and suspended from a tubing string; a sleeve slidably fitting said mandrel; a spring on said sleeve; releasable spring restraining means maintaining said spring under compression connected with said sleeve and including a trigger initially projecting below said restraining means and engageable with said well device upon relative movement between said mandrel and sleeve to release said spring; releasable latching means between said sleeve and mandrel initially holding said sleeve, spring and restraining means clear of said well device; and a clutch coacting between said sleeve and mandrel for limiting said sleeve to unidirectional movement on said mandrel toward said well device.

2,326,412
DOUBLE DIVIDER
Jack Taylor, Yavapai County, Ariz.
Application April 11, 1942, Serial No. 438,641
2 Claims. (Cl. 33—189)



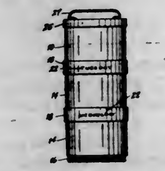
1. A double divider comprising in combination a supporting body having a marking point affixed to its front edge, a downwardly depending rear base portion substantially in the same plane as said marking point, beams supported on said body so as to be longitudinally slidable therein, removable trammel points adjustably supported at the ends of said beams and means for separately locking said beams in any desired extended position.

2,326,413
HARMONIC CALCULATOR
George W. Thompson, Chicago, Ill.
Application August 4, 1940, Serial No. 351,370
4 Claims. (Cl. 84—473)



1. In a slide rule for calculating the harmonic relationship of sound waves, a plurality of members movable relative to one another along a rectilineal line, one of said movable members having a scale thereon calibrated to represent the progression of a series of wave lengths of sound within a musical octave, a second member having a curve plotted on a base line parallel to said rectilineal line and calibrated to indicate the relative consonance and dissonance of two simultaneously sounded tones having different wave lengths within said octave, said members having a group of calibrations indicating the evenly tempered scale of musical notes in said octave, and one of said members having a group of calibrations indicating the diatonic scale of musical notes in said octave, said calibrations being arranged in identical unit lengths in relation to said octaves whereby transpositions involving ratios between different wave lengths and the relative consonance and dissonance of any two notes sounded simultaneously can be determined by progressive and selective manipulation of said members with respect to one another.

2,326,414
STORAGE CONTAINER
James F. Thompson, St. Louis, Mo.
Application January 12, 1940, Serial No. 313,508
1 Claim. (Cl. 220—4)

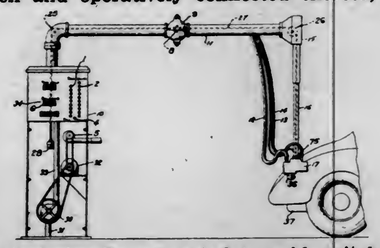


In a container device, a plurality of units each having an upper threaded portion and a lower threaded portion, the lower threaded portion having both external and internal threads thereon, the upper threads of each container being sized to engage with one of the threads on the lower part of each other unit whereby said units may be joined directly together, and a union having a partition medially thereacross and threads on each side of said partition, said threads being engageable with the other of the lower threads of one unit and the upper threads of another unit to hold said units together, said partition covering the lower unit and protecting the contents thereof.

2,326,415
AUTOMATIC LIQUID DISPENSING DEVICE
Buel F. Titus, San Francisco, Calif.
Application November 23, 1940, Serial No. 366,805
4 Claims. (Cl. 221—101)

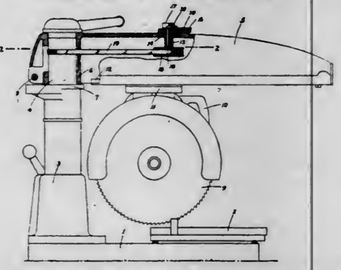
1. A device for dispensing measured quantities

of inflammable liquid, including electrically operated pumping means and control means for stopping delivery at a predetermined point before overflow of any receptacle, comprising a switch, a flexible diaphragm chamber sealed about said switch and operatively connected thereto, and



electrical circuits connected to said switch arranged to stop said pumping means and to stop immediately delivery of said liquid when said electrical circuits fail and whenever a negative air pressure is created about said diaphragm chamber.

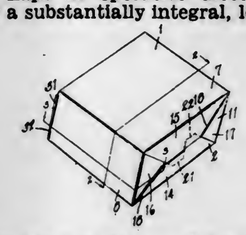
2,326,416
GAUGE FOR POWER SAWS
Mearl V. Tracy, Pasadena, Calif., assignor to Tracy Tool Co., Pasadena, Calif., a copartnership comprising Mearl V. Tracy and Marian M. Tracy
Application January 21, 1941, Serial No. 375,186
2 Claims. (Cl. 143—6)



1. In a radial saw which includes an upstanding post, and a hollow saw-supporting arm turnable on and projecting radially from the post, the post having a circular portion within the arm; a gauge plate fixed horizontally on top of the arm intermediate its ends, a pointer-shaft turnable in the plate and depending into the hollow interior of the arm, said shaft being parallel to the post, a pulley on the shaft within the head and a tensioned belt engaging and extending between said circular portion of the post and the pulley.

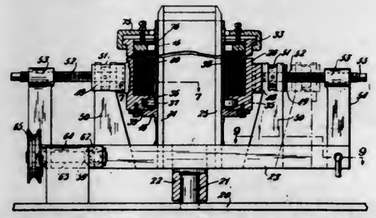
2,326,417
BOX OR CARTON
Fred J. Ulrich, Kalamazoo, Mich., assignor of one-half to Lee A. Fordon, Detroit, Mich.
Application July 31, 1939, Serial No. 287,568
2 Claims. (Cl. 229—39)

1. A box or carton having opposed side and end walls secured to one another and constituting a flat tubular open-ended form in the initial, inoperative, knockdown condition of the box, side flaps integrally connected to said side walls and bent inwardly of said form to lie against the side walls in said knockdown condition, said flaps having locking means offset laterally from one another, and end flaps bendably connected to the end walls and lying thereagainst interiorly of said form, said side flaps having portions bendably connected thereto by score lines adapting the portions to be reversely bent and initially disposed against the side flaps, said portions being lapped over said end flaps along the entire adjacent edge of the latter and being adhesively secured to the end flaps along a continuous zone coextensive in length with the extreme line of overlap of the end flap by the aforesaid bendable connection to the side flat portion, whereby said portions and end flaps in operative erected condition constitute a substantially integral, leakproof bel-



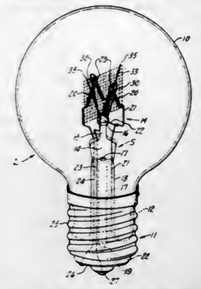
lows corner for the bottom of the box, said side and end flaps being swung to erected position normal to the walls upon relative lateral shifting of the walls, with the end flaps disposed internally of said side walls and side flaps, said locking means engaging operatively at the termination thereof to lock the flaps in operative erected position and thereafter resist return movement of the flaps and walls to original position, at least one of said end flaps being of width sufficient to laterally engage the side walls in erected position along a substantial portion of the length of the opposite sides thereof to further resist said return movement.

2,326,418
METHOD OF FINNING
William van Amerongen and John N. Boyce, Akron, Ohio, assignors to The Technical Casting & Manufacturing Co., Akron, Ohio, a corporation of Ohio
Application February 28, 1941, Serial No. 381,064
9 Claims. (Cl. 22—204)



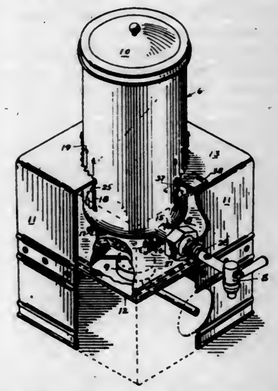
1. The method of producing a ferrous metal alloy cylinder barrel for an air-cooled internal combustion engine with aluminum cooling fins on the exterior surface thereof which includes the steps of providing that portion of the exterior surface of the barrel which is to receive the cooling fins with a coating of an alloy consisting of cadmium containing from 0.1% to 10% nickel, assembling preformed ring-like aluminum fin members in spaced relation with their openings in coaxial alignment within a permanent mold, heating said mold to a predetermined temperature, inserting said barrel into the mold cavity defined by the opening in said fin members, and then securing the fin members to the barrel by casting an aluminum sleeve about the barrel of sufficient thickness to embody the inner edge portions of the fin members.

2,326,419
ELECTRIC LAMP
Irving H. Van Horn, East Cleveland, Ohio, assignor to General Electric Company, a corporation of New York
Application December 31, 1942, Serial No. 470,715
5 Claims. (Cl. 176—26)



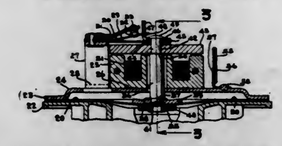
1. In a lamp of the character described, the combination of filaments mounted in a common atmosphere in such close proximity to one another that burnout of one tends to result in burnout of the other, a mounting and contact terminal structure for the lamp having contact terminal means connected to ends of the several filaments, and also separate contact terminals severally connected to the other ends of the several filaments, whereby the filaments can be connected in circuit either concurrently or alternatively, and a light-transmitting screen interposed between the filaments, whereby each filament is protected from burnout due to gas surge resulting from burnout of another filament without interference with light transmission from one filament past another.

2,326,420
HOT BEVERAGE DISPENSER
John P. Vukasinovich, Oakland, Calif.
Application April 23, 1941, Serial No. 389,947
3 Claims. (Cl. 53—3)



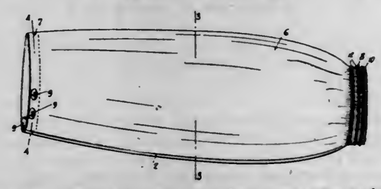
1. In a dispenser for hot beverages, a cylindric urn, a closed chamber providing a water bath and having a top opening for closely receiving said urn to extend into the water bath, means to heat the said water bath for the generation of steam therein, and a sleeve depending from said opening and having upper and lower portions thereof axially corrugated toward the opposed urn side to define upright passages therealong at opposite sides of a manifold space therein encircling the urn, the upper said passages comprising the sole steam outlet for the chamber, and said sleeve being provided with lateral perforations between said corrugated portions thereof.

2,326,421
ELECTRIC HORN
Joe White, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application October 20, 1941, Serial No. 415,688
3 Claims. (Cl. 177—7)



1. An electric horn having a sheet metal base provided with a central portion raised above a peripheral flange, a diaphragm secured to the flange, an electromagnet core attached to the central portion of the base and having pole faces spaced from the base, a magnet coil supported by the core, a rod extending through the core and base and attached at one end to the diaphragm, a spring member supported by the base and attached to the other end of the rod, an armature attached to the rod between the spring member and the core and extending over the pole faces of the core, and means for adjusting the gap between the armature and pole faces while the parts specified remain assembled, said means being provided by deformable portions of the base between the peripheral flange and the central portion to which the core is attached, said portions being deformed toward the diaphragm by pressure applied upon the outer surface of the base, and each of said portions being apertured to receive a tool to be passed therethrough and to be hooked under the base to deform it away from the diaphragm.

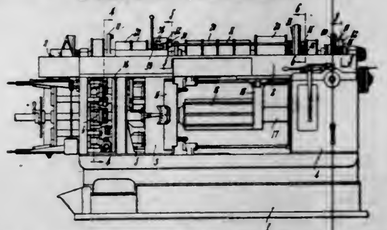
2,326,422
ARM PROTECTOR OR THE LIKE
Irving Weisberger, New York, N. Y., assignor to Durma-Gard, Inc., New York, N. Y.
Application May 22, 1942, Serial No. 444,028
1 Claim. (Cl. 2—59)



An arm protector for use by a wearer, said protector comprising: a continuous cylindrical body formed of a sheet of material having the longitudinal edges thereof joined by a seam extending the entire length of said body; said body having an annular wrist engaging open end with a first free edge and an arm engaging open end with a second free edge; said wrist engaging open end having secured thereto adjacent said first free edge, a first fastener element and a plurality of second complementary fastener elements any one of which is detachably engageable with said first fastener element; a substantially annular band of felt-like material secured to the inner surface of said arm end; and resilient means to constrict the arm end and compress

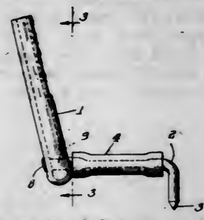
said band between said end and the arm of the wearer, said means including a plurality of elastic strips secured to said arm end on the outer surface thereof.

2,326,423
SAFETY MECHANISM
Clarence H. Adams, Windsor, Vt., assignor to Cone Automatic Machine Company Inc., Windsor, Vt., a corporation of Vermont
Application June 16, 1939, Serial No. 279,469
5 Claims. (Cl. 29—37)



1. In a multiple spindle lathe having an indexing spindle carrier, means for indexing said carrier, means for locking said carrier in each indexed position, tool carriers, a rotary cam shaft for moving said tool carriers, driving connections for said cam shaft including a shear pin, and a member movable with said locking means in position to positively stop the rotation of said cam shaft thereafter should said locking means fail to move to locked position after an indexing motion and thereby prevent movement of said tool carriers to operative positions.

2,326,424
PHONOGRAPH STYLUS
Lloyd J. Andres, Chicago, Ill., assignor to Permo Products Corporation, Chicago, Ill., a corporation of Illinois
Application April 17, 1943, Serial No. 483,466
2 Claims. (Cl. 274—38)



1. A phonograph stylus comprising a shank adapted at one end to be secured in a pick-up, an offset portion integrally swaged in the opposite end of said shank, said offset portion including a short portion integral with and extending at an angle to said offset portion, said short portion terminating in a record engaging tip, the axes of said shank, offset portion and short portion lying substantially in one plane, said offset portion flattened in a plane substantially at right angles to said first mentioned plane, a tubular resilient damping means surrounding said offset portion in close contact therewith, whereby said short portion will vibrate vertically along its axis independently of said shank and whereby resonant and/or sustained vibrations in said short portion will be damped by said damping means when the shank is secured in a pick-up and the said playing tip is engaged in the groove of a moving record.

2,326,425
PRODUCTION OF RIBOFLAVIN BY BUTYL ALCOHOL PRODUCING BACTERIA
Cornelius F. Arzberger, Terre Haute, Ind., assignor to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland
No Drawing. Application October 24, 1940, Serial No. 362,567
10 Claims. (Cl. 195—42)

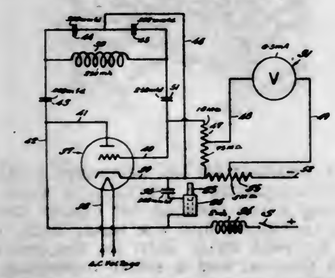
10. In a process for the production of high concentrates of riboflavin by fermentation of a carbohydrate mash by means of butyl alcohol-producing bacteria, the steps which comprise preparing a mash in which the amounts of dissolved iron are sufficiently low to substantially prevent inhibitory effects of said compounds on riboflavin synthesis, and fermenting said mash in equipment incapable of contributing additional substantial amounts of said metal to the said mash.

2,326,426
DRIVING BOX EQUIPMENT
Homer Burton Baker, Baltimore, Md., assignor to The Balmar Corporation, Baltimore, Md., a corporation of Maryland
Application May 27, 1941, Serial No. 395,338
7 Claims. (Cl. 105—225)



1. A steel driving box wedge having a bronze facing composed of a plurality of plates marginally welded to the surface thereof and to one another, together with a lubricant passage formed through the weld between adjacent plate edges.

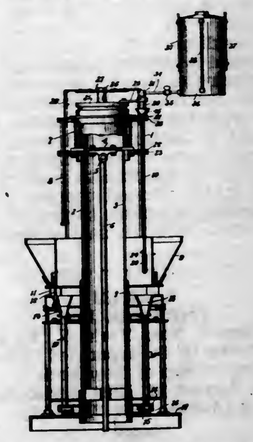
2,326,427
ELECTRICAL GAUGE
Gerald O. Bickel, Kokomo, Ind.
Application December 3, 1941, Serial No. 421,510
4 Claims. (Cl. 33—178)



1. A device of the character described comprising an inductance, means related to said inductance to vary the inductance thereof, anvil means for displacing a portion of said means

from an initial rest position to a final rest position, a series tuned resonant absorption circuit in which said inductance is incorporated, a vacuum tube oscillator circuit having said absorption circuit connected in its plate circuit, and indicating means for visibly indicating the decrease in oscillator grid current resulting from the decrease in plate impedance accompanying the approach of the said absorption circuit to a condition of series resonance.

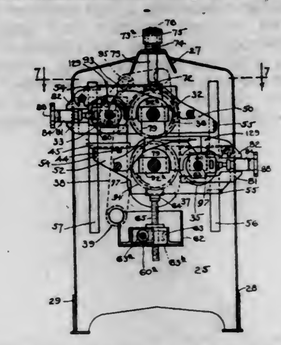
2,326,428
LUBRICATING DEVICE FOR CORK-ROD PACKING MACHINES
John M. Binder, New Hyde Park, N. Y., assignor to Consolidated Cork Corporation, New York, N. Y., a corporation of New York
Application April 17, 1942, Serial No. 439,354
3 Claims. (Cl. 18—5)



1. In a machine of the character described, means for filling pulverized cork or the like into tubes, a rotative turret on which the tubes are transported, a post around which the tubes are carried by the turret, a reciprocating carrier movable on the post and carrying plungers for packing the cork in the tubes, a swab carried by said carrier and adapted to be thrust downwardly into each tube before the tube is carried by the turret to the filling means, a lubricant-supply means mounted above the carrier, said lubricant-supply means including a tank, a valve connected thereto and located above the swab, said valve including a downwardly projecting stem, and an abutment carried by the carrier and adapted to be brought into contact with the valve stem upon raising movement of the carrier, to thereby open the valve, and means for delivering lubricant from the outlet of the valve to the swab when the valve is so opened.

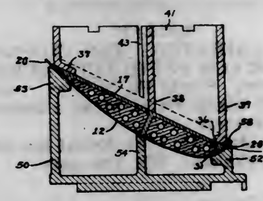
2,326,429
GLUE SPREADER, SURFACE COATER, AND THE LIKE
John E. Black and Robert S. Black, Mendota, Ill.
Application May 1, 1941, Serial No. 391,324
21 Claims. (Cl. 91—49)

6. In a surface coater or the like, the combination of a pair of rolls, one being a main roll and the other being a doctor roll, a surface of yieldable material on the main roll, together with spring means tending to force the doctor roll towards the main roll, and means to limit such forcing movement under impulse of said spring,



and means to adjust the force of the spring means, substantially as described.

2,326,430
PROPELLER MANUFACTURE
Werner J. Blanchard, Dayton, Ohio, assignor, by direct and mesne assignments, to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application June 14, 1940, Serial No. 340,615
3 Claims. (Cl. 113—99)

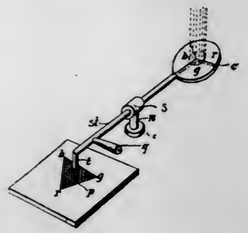


1. Apparatus for the manufacture of hollow steel propellers from two formed sections adapted to be applied in overlying relation to each other at their edges to form the airfoil contour of the blades, comprising in combination, a clamp member consisting of a framework, formed with marginal ribs corresponding with the overlying edge portions of the sections, and cross ribs at intervals connecting one marginal rib with ribs to end in a common plane, said frame being contoured on the side opposite said plane to a surface for engagement with a section of the blade in final form, in which the marginal ribs engage the overlying portions of the sections and the cross ribs engage the section spanning the space between the overlying portions, said webs being slotted to provide for expansion and contraction during temperature changes in process-another, webs extending from the ribs and cross ing the blade.

2,326,431
COLOR CONTROL IN PHOTOGRAPHIC COPYING APPARATUS AND THE LIKE
Ludwig Braunschmidt, Bitterfeld, Karl van Briessen, Leipzig, and Kurt Hissbach, Wolfen, Germany, assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
Application April 25, 1941, Serial No. 390,324
In Germany April 25, 1940
5 Claims. (Cl. 88—24)

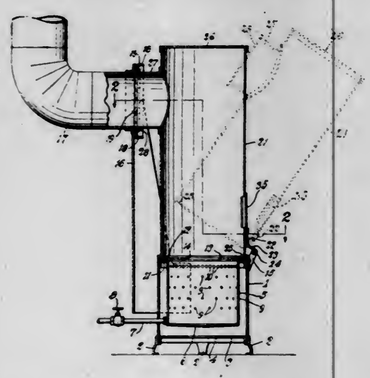
1. A device for controlling the spectral compo-

sition of the light beam in photographic copying apparatus, color measuring instruments and the like comprising a support, a rod and bearing system mounted on said support and adapted for relative movement between the elements thereof in the same plane in any direction, a filter combination containing at least three filters in different colors rigidly attached to said rod and bearing system, a light source for impinging a



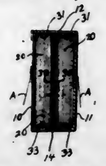
light beam on said filter combination, means for effecting such relative movement between the elements of said rod and bearing system to shift the filter combination in relation to said light beam in the same plane in any direction, a color indicator and means carried by said rod and bearing system and co-operating with said color indicator to designate the extent to which said filter combination should be shifted.

2,326,432
MOVABLE RADIATING AND COMBUSTION CHAMBER FOR FLUID FUEL BURNERS
James L. Breese, Santa Fe, N. Mex., assignor to Oil Devices, Santa Fe, N. Mex., a limited partnership of Illinois
Application July 11, 1941, Serial No. 401,920
4 Claims. (Cl. 126—94)



1. In a heater, a base, a pot type burner located in said base, means extending into said base for delivering a liquid fuel into the bottom of said pot, said base including means for directing air to said pot, a flame ring on said base adapted partially to close the top of said pot, a combustion drum mounted on said base, and removable supporting means therefor, including a hinge element fixed in relation to the base, a hinge element pivoted on said fixed hinge element for rotation about a generally horizontal axis, said combustion drum being slidably mounted on said pivoted hinge element, whereby it may be entirely withdrawn therefrom.

2,326,433
PACKAGE FOR DISPENSING INTERFOLDED SHEETS
Frank L. Broeren, Neenah, Wis., assignor to Marathon Paper Mills Company, Rothschild, Wis., a corporation of Wisconsin
Application November 6, 1942, Serial No. 464,817
4 Claims. (Cl. 206—57)



1. A package for dispensing interfolded sheets comprising a carton containing two separate stacks of interfolded sheets, said carton formed from a blank cut and scored to form a container of rectangular form in cross-section having a front and rear dispensing panel, a closed top and closed ends and a bottom panel, said front and rear panels being each provided with a dispensing opening extending longitudinally of said panels, two separate trays positioned within said carton in back to back relation, each tray carrying a separate stack of interfolded sheets, each of said trays being adapted to position and align each of the stacks carried therein with respect to said dispensing openings to permit removal of individual sheets through said dispensing openings.

2,326,434
THERMAL JUG
Joseph D. Brown, New York, N. Y., assignor to Poloron Products, Incorporated, New Rochelle, N. Y., a corporation of New York
Application August 24, 1940, Serial No. 354,040
8 Claims. (Cl. 215—13)

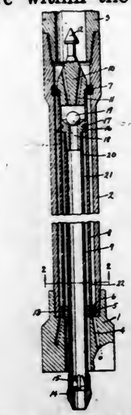


1. A thermal jug comprising a frangible liner having an opening in the side wall near the bottom, an outer sheet metal casing spaced from the liner to form a space to receive insulation, the casing having an opening opposite the liner opening, a cup shaped stamping secured in the opening in the casing, the stamping extending to the liner wall and being apertured opposite the liner wall opening, a tube extending through the liner opening and the aperture, clamping means for securing the tube and liner and stamping together for mutual reinforcement, and a delivery tube pivoted to the first tube and movable to a position where it may be housed in the stamping or may project out beyond the casing.

2,326,435
CORING APPARATUS
Pink T. Bynum, Beeville, Tex.
Application May 24, 1940, Serial No. 336,936
7 Claims. (Cl. 255—72)

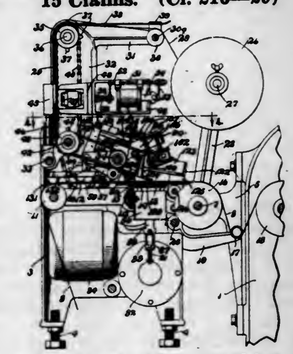
1. In a device of the character described, a carrier adapted to be passed downwardly through a drill stem and seated within a drilling bit, a core barrel slidably carried by said carrier and

movable downwardly with respect to said carrier by fluid pressure within the drill stem, and a



means for directing the fluid pressure within the drill stem against said last mentioned means.

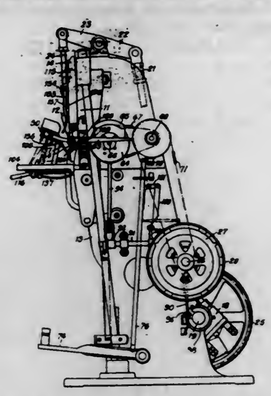
2,326,436
LABEL ATTACHING MACHINE
Harry F. Caldwell, Grand Rapids, Mich., assignor, by mesne assignments, to Oliver Machinery Company, Grand Rapids, Mich., a limited partnership of Michigan
Application June 19, 1941, Serial No. 398,786
15 Claims. (Cl. 216—29)



1. In a label attaching machine, means for passing a length of paper through the machine, means for carrying a continuous length of connected labels to the paper and moving said labels in the same general direction the paper is moved and at an acute angle to the surface of the paper to which applied, means for periodically severing the end labels one after another from said connected strip and applying them at spaced intervals upon the paper, a driving motor, and means for connecting the motor with the label carrying means to periodically and at predetermined intervals move the label strip into positions for successive severing of end labels therefrom.

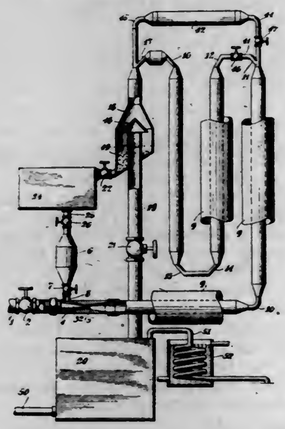
2,326,437
COUNTER MOLDING MACHINE
William Hedger Chamberlain, Higham Ferrers, England
Application July 10, 1941, Serial No. 401,830
In Great Britain March 7, 1941
17 Claims. (Cl. 12—66)

1. In a counter molding machine of the character described, a carrier having an upward rocking movement for presenting a counter blank to the mold, said carrier including jaws adapted to engage a counter blank by the edge normally projecting from the mold, manual means for releasing said jaws to admit the edge of a blank for engagement, and mechanical means for releasing



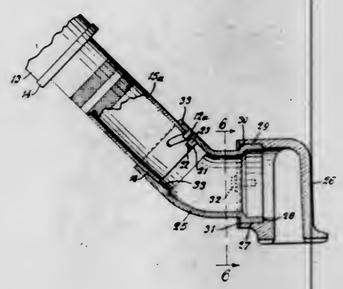
said jaws from their engagement with said edge after the remainder of said blank has entered into the mold, said mechanical means including a member movably mounted on and actuated by the rise of the bottom plunger of the machine for opening said jaws immediately upon the gripping of the blank in the mold.

2,326,438
METHOD OF TREATING HYDROCARBONS
Clement S. Clarke, Shreveport, La.
Application December 20, 1940, Serial No. 370,985
1 Claim. (Cl. 196—52)



The method of treating fluid hydrocarbons, which method comprises flowing a stream of said fluid under pressure, reducing the size of the stream at a portion thereof to increase its velocity and turbulence, introducing a catalyst into and mixing it with said stream at said reduced portion in an annular zone surrounding said stream, said catalyst having a different specific gravity from said hydrocarbon, and maintaining said mixture in a substantially homogenized state by reducing the size of said stream at points where the direction of flow thereof is changed.

2,326,439
HOSE CONNECTION FOR VACUUM CLEANERS AND THE LIKE
William J. Clements, Chicago, Ill., assignor to Clements Mfg. Co., Chicago, Ill., a corporation of Illinois
Original application July 1, 1939, Serial No. 282,372. Divided and this application April 11, 1941, Serial No. 388,050
4 Claims. (Cl. 285—175)



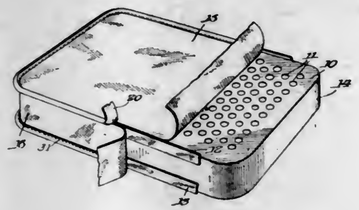
1. In combination, in a hose connection, a generally cylindrical thin metal tube having an inwardly tapered generally conic end portion, the tube wall being penetrated by a bayonet slot extending inwardly generally longitudinally from the reduced end edge of said tapered portion and having an inclined inner portion, a second tube having a conic portion adapted to mate with and conform to the exterior of the conic portion of the first tube, and an inwardly projecting locking element, adapted to extend into said slot, the inclined inner end portion of the slot in the first tube being adapted, in response to relative rotation of the tubes, and its engagement with said locking element, to draw said tubes together and to lock their tapered surfaces against each other, the inner edge of the inner tube being free when the tubes are locked.

2,326,440
TREATMENT OF CONJUGATED DIENE HYDROCARBONS
David Craig, Akron, Ohio, assignor, by mesne assignments, to The B. F. Goodrich Company, Akron, Ohio, a corporation of New York
No Drawing. Application April 19, 1941, Serial No. 389,469
9 Claims. (Cl. 260—681.5)

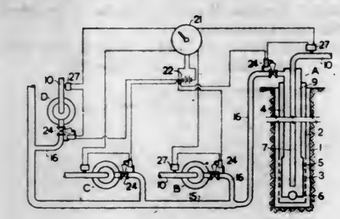
2. The method which comprises forming a mixture of monomeric diene sulfones from a piperylene-containing mixture of conjugated diene hydrocarbons, and then heating said mixture at a temperature at which piperylene is essentially the sole conjugated diene evolved.

2,326,441
MATTRESS COVERING
Marion Morgan Cunningham, South Bend, Ind., assignor to Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind., a corporation of Indiana
Application August 3, 1940, Serial No. 350,596
6 Claims. (Cl. 5—345)

3. In a mattress or the like, a body of spongy rubber material or the like, a cover attaching strip adhesively secured to an exterior surface of said body along the margins thereof, said strip having a portion extending beyond the said margins, and a cover over said body and secured to said extended portion of said strip.



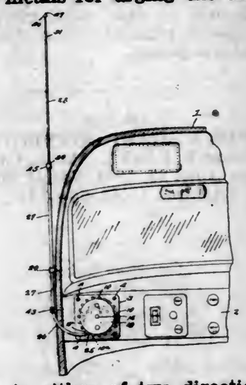
2,326,442
GAS-LIFT CONTROL
Hendrik Pieter de Wit, Casigua, Venezuela, assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application August 5, 1941, Serial No. 405,563
8 Claims. (Cl. 103—240)



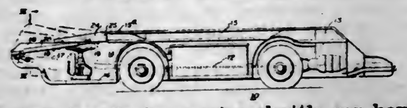
1. In an intermittent gas-lift system comprising a plurality of wells, a source of supply of pressure gas, and for each well a displacement chamber for liquid to be lifted, pressure conduit means communicating with said pressure gas source for admitting said gas to said chamber, an electrically operated valve in said pressure conduit means for controlling the flow of said gas, and conduit means from said chamber for discharging from said well the liquid raised by said gas, a control system comprising a source of electric current, a circuit for each well connecting said electric source to the electrically operated valve for said well, a time-responsive intermitter common to said circuits for cyclically making and breaking said circuits in a predetermined sequence, and a normally closed interrupter at each well operated by the liquid discharged therefrom for breaking the circuit for each well.

2,326,443
AUTOMOBILE RADIO ANTENNA
Robert Louis Dillon, Manchester, N. H., assignor of one-half to D. J. Sullivan, Nashua, N. H.
Application November 7, 1938, Serial No. 239,363
14 Claims. (Cl. 250—33)

5. In an antenna device of the type described, a plurality of telescoping elements of conducting material; means for securing one of said elements to a vehicle; elongate flexible means mounted in said telescoping elements and having one end thereof fixed to the uppermost element; and means for urging the elongate flexible means in either of two directions to cause the telescoping elements to extend or contract.

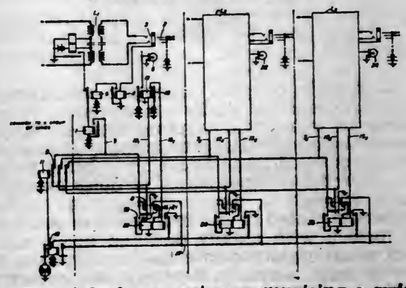


2,326,444
SPILL BOARD
Victor I. Dudley, Franklin, Pa., assignor to Joy Manufacturing Company, a corporation of Pennsylvania
Application October 16, 1941, Serial No. 415,183
8 Claims. (Cl. 214—83)



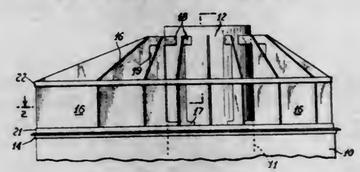
1. Spill boards for a mine shuttle car having a conveyor passing over the bottom thereof and load retaining walls along the sides of said conveyor, comprising a triangularly shaped member hinged to each of said side walls adjacent the discharge end of said conveyor, means for limiting the turning of said members in one direction while permitting free turning thereof in the opposite direction, a plate hinged to the inner edge of each of said first mentioned members, and means for maintaining said plates in definite relation to said side walls while permitting movement thereof relative thereto.

2,326,445
SIGNALING SYSTEM
Lloyd L. Eagon, New York, N. Y., and Burton McKim, East Orange, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application April 22, 1941, Serial No. 389,706
3 Claims. (Cl. 179—58)



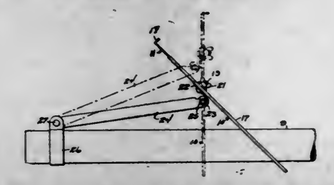
1. In a telephone system comprising a switchboard terminating a group of lines having individual signals, and having means for answering calling ones of said lines, in which a call on any line causes the energization of its respective signals and the answering of a call causes retirement of the signals, characterized by means whereby the signals of a first calling line are intermittently deenergized until retired, and the signals of all subsequent calling lines are steadily energized until the first calling line signals are retired, whereupon all steadily energized signals are intermittently deenergized until their retirement and the signals of all lines calling subsequent thereto are steadily energized until the signals being intermittently controlled are all retired.

2,326,446
SHIP'S FUNNEL
Ivan D. Eby, Ridgewood, N. J.
Application November 3, 1942, Serial No. 464,336
9 Claims. (Cl. 114—187)



1. The combination with a ship's funnel having an inner stack and an outer stack of streamline contour which, as the ship proceeds against a head wind or through still air, tends to produce a suction along its outside surfaces and an external down draft, of means for diverting the stack discharge from said down draft comprising an extension of the inner stack above the level of the outer stack, a plate across the top of the outer stack, and vertical plate supported fins disposed radially with respect to the stack extension and having their inner edges spaced from the stack extension whereby air met at a level below the top of the stack extension and entering between the fins on the windward side is passed about the inner stack extension and discharged between the fins on the leeward side with a substantial horizontal velocity above the outer stack so that the stack discharge does not commingle therewith.

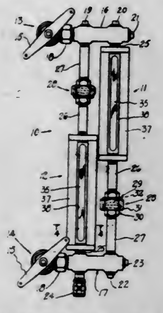
2,326,447
PIPE CUTTING GAUGE
Reuben T. Enderson, Rochester, Minn.
Application September 28, 1942, Serial No. 459,989
4 Claims. (Cl. 33—174)



1. A pipe cutting gauge comprising elongated upper and lower plates slideably connected together and provided at one side of the transverse center with substantially elliptical openings, guide flanges on one of the plates engaging the side flanges of the other plate, one of the plates being bent downwardly to provide a finger hold, a bolt carried by the lower plate engaged in a slot formed in and extending longitudinally of the up-

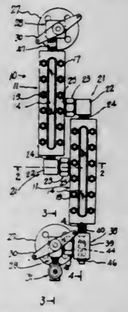
per plate, a nut on the bolt contacting with the upper plate, said bolt and nut securing the plates in adjusted relation, hinge lugs secured to and extending downwardly from the lower plate at said bolt, a link pivoted at one end to said lugs, and a collar adapted to surround a pipe passing through the elliptical openings in the plate pivoted to the other end of the link, the upper plate and one of the guide flanges being suitably graduated.

2,326,448
KNOCKDOWN FLAT OFFSET GAUGE
Eugene Ernst, Livingston, N. J.
Application September 11, 1942, Serial No. 457,993
5 Claims. (Cl. 73—329)



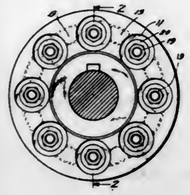
1. A liquid level gauge for high pressure boilers including a plurality of liquid level units each having a central channel plate for opposed glass plates, said units being connected in parallel, side by side, offset relation to each other, and mounting means for the gauge units so interconnecting the central plates including portions in alignment with said channels, and ball joint union fittings in the mounting means whereby the gauge units can be separated and reconnected irrespective of the occurrence of warping in the gauge.

2,326,449
FLAT OFFSET GAUGE
Eugene Ernst, Livingston, N. J.
Application December 29, 1942, Serial No. 470,521
1 Claim. (Cl. 73—329)



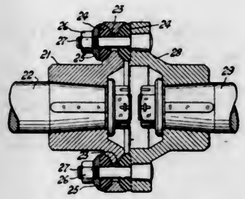
A water level gauge having a plurality of flat gauge units in offset, vertically overlapping relation to each other, said gauge units being identical and interchangeable, and identical means interconnecting the gauge units in circulatory relation to each other, one interconnecting means being connected to the top of the lower gauge unit and to a mid portion of the upper gauge unit, the other interconnecting means being connected to the bottom of the upper gauge unit and to a mid portion of the lower gauge unit so that both interconnecting means are spaced remotely from the upper and lower ends of the gauge.

2,326,450
FLEXIBLE SHAFT CONNECTION
Thomas L. Fawick, Akron, Ohio
Application April 25, 1941, Serial No. 390,277
3 Claims. (Cl. 64—14)



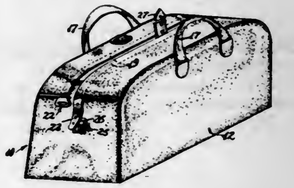
1. A flexible-coupling assembly comprising a driving shaft and a driven shaft in series and, for connecting them, a pair of coupling members mounted upon them respectively, one of said members being formed with a circumferential series of axially disposed apertures and, on its axially outer face, with spaces connecting the apertures, the other of said coupling members being formed with axially projecting fingers extending into said spaces, axially through-apertured cushion members mounted in the said apertures respectively, and clamping means extending axially through and engaging only the cushion members for holding them distored into strong engagement against the walls of their apertures and against the said fingers.

2,326,451
FLEXIBLE COUPLING
Thomas L. Fawick, Akron, Ohio
Original application April 25, 1941, Serial No. 390,277. Divided and this application August 9, 1941, Serial No. 406,126
4 Claims. (Cl. 64—11)



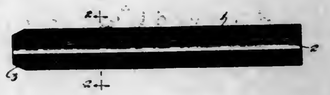
1. A flexible coupling assembly comprising a pair of transmission shafts in series and, for connecting the same, rigid coupling members mounted upon them respectively and axially facing each other, one of said coupling members being formed with a circumferential series of holes extending axially through it, torque-transmitting cushion members mounted in and individual to said holes and formed with axially disposed holes, and a set of studs rigidly projecting axially from the other of said coupling members and occupying the holes in said cushion members, the cushion members, individual with relation to the holes, insulating the studs from the coupling member in which they are mounted and sustaining the entire torque and being interlocked with the latter in an axial direction for cushioned sustention of thrust, by reason of their being of different outer diameters in different parts of their lengths, so that the interlock is at a distance from their ends, and being fitted against complemental seats in the member in which they are mounted, the cushion members being held under radial compression between said seats and the studs.

2,326,452
UTILITY BAG
Max Freedland, New York, N. Y., assignor to Empire Shield Co., Inc., a corporation of New York
Application September 17, 1942, Serial No. 458,680
2 Claims. (Cl. 190—48)



1. A utility bag, comprising a bag-like body having a bottom wall, side walls with large radii top corners, and relatively low end walls, flexible extensions from the tops of said side walls directed towards each other forming the top of said bag and overlapping and following the contour of the top edges of said side walls and extending downwards and over the top edges of said end walls, flexible and stiff reinforcement strips mounted along the overlapping edges of said flexible extensions and flexed and following the curved contour of said flexible extensions, loops connected with the ends of one of said strips, straps connected with the ends of the other of said strips and passing through said loops and holding said strips in their flexed positions, and means for releasably connecting said straps to said body, whereby when said straps are released said strips will unflex and straighten and said bag will be open.

2,326,453
SCREW ANCHOR
Alfred W. Gelpcke, Brooklyn, N. Y., assignor to The Rawlplug Company, Inc., New York, N. Y.
Application August 15, 1942, Serial No. 455,001
9 Claims. (Cl. 85—2.4)



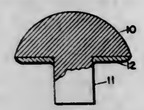
1. A screw anchor comprising an outer sleeve of fibrous material and an inner lining of relatively soft metal, the lining being split longitudinally of its length with the split edges normally lying in lapping relationship, at least the inner surface of the lining being treated with a lubricant.

2,326,454
VENETIAN BLIND
Scipio S. Gentile, North College Hill, Ohio
Application April 29, 1942, Serial No. 440,939
10 Claims. (Cl. 160—236)



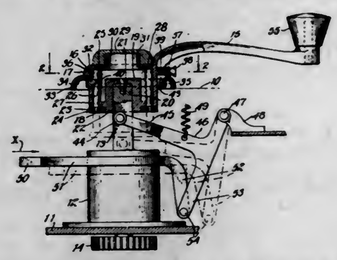
1. A slat for a Venetian blind comprising a pair of members assembled together, one of said members of greater width than the other member forming a hollow arched slat having a flat bottom or base.

2,326,455
FASTENING MEANS
Reid B. Gray, Dundalk, Md., assignor to The Glenn L. Martin Company, Middle River, Md., a corporation of Maryland
Application March 13, 1942, Serial No. 434,469
7 Claims. (Cl. 85—37)



1. In combination, a rivet having a head portion and a shank portion, and a substantially thin coating of a resilient, pliable vinyl polymer synthetic plastic material applied to the underside of the head portion.

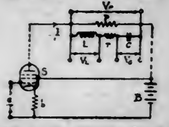
2,326,456
LATCH OPENING AND WINDOW ACTUATING MECHANISM
Louis J. Gouin, East Orange, N. J.
Application December 28, 1940, Serial No. 372,023
2 Claims. (Cl. 268—122)



1. The combination with the shaft of a window panel actuating mechanism of the class described and a door latch operating rod, of a crank having a cup-shaped hub portion, a socket within said hub portion keyed to said shaft, means for retaining the hub portion against displacement from the shaft, a button unit keyed to and slidably engaging said hub portion, said unit having a cup-shaped button at its outer end for telescoping engagement with the socket of said hub portion in the movement of the button into the hub portion, means on the button unit cooperating with the hub limiting outward movement of

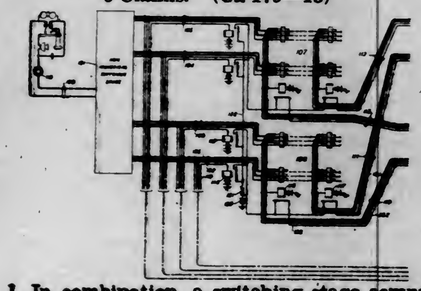
said unit, means movable radially in the hub portion cooperating with said button unit to retain said unit against inward movement in the hub portion, and means for manually moving said last named means into inoperative position.

2,326,457
ALTERNATING CURRENT SIGNALING SYSTEM
Bertram Morton Hadfield, Harrow Weald, England, assignor to Associated Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application September 10, 1941, Serial No. 410,265
In Great Britain October 10, 1940
19 Claims. (Cl. 179—16)



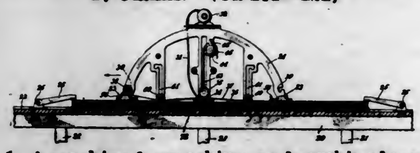
1. In a signaling system wherein a pair of circuits are associated with a signaling line, wherein a simple wave predominantly of a certain audio frequency is impressed upon said line at times and wherein a complex wave including said certain audio frequency and other audio frequencies is impressed upon said line at other times, an arrangement for controlling said pair of circuits variably in dependence upon which wave is impressed upon said line, comprising a circuit tuned substantially to said certain frequency, means for coupling said tuned circuit to said line to subject it to said waves when same are impressed upon said line, means for coupling one of said pair of circuits to a certain part of said tuned circuit so that said one circuit is controlled by the potential generated in said part when a wave is impressed upon said line, said potential varying in accordance with the frequency of said impressed wave, and means for coupling the other of said pair of circuits to a different part of said tuned circuit so that said other circuit is controlled by the potential generated in said last part when a wave is impressed upon said tuned circuit, said last potential varying in accordance with the frequency of said impressed wave but varying in a way different than the way in which said first potential varies with the frequency of said impressed wave.

2,326,458
SELECTION SYSTEM
Nathan I. Hall, Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application February 17, 1942, Serial No. 431,235
6 Claims. (Cl. 179—18)



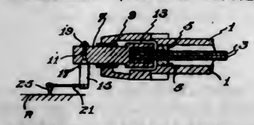
1. In combination, a switching stage comprising a plurality of originating, intermediate, and terminating switches, incoming trunks distributed among said originating switches, outgoing trunks distributed among said terminating switches, links extending from each originating switch to each intermediate switch, links extending from each intermediate switch to each terminating switch, said switches when operated serving to connect the incoming trunks to the outgoing trunks over channels comprising serially related links, means for seizing any incoming trunk appearing in any particular one of said originating switches, means for testing all channels extending from said particular originating switch through said intermediate switches to said terminating switches and for preparing said switches for operation to seize all channels found to be idle, means for seizing a desired one of said outgoing trunks, and means for operating the prepared switches corresponding to an idle channel extending between the seized incoming and outgoing trunks to establish a connection between said trunks over said idle channel.

2,326,459
MARKING AND COMBINED MARKING AND SPREADING MACHINE
Erik Friis Hansen, New York, N. Y.
Application January 16, 1940, Serial No. 314,056
17 Claims. (Cl. 101—121)



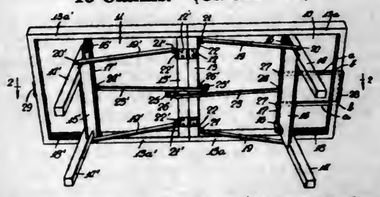
1. A machine for marking, and combined marking and spreading of cloth, comprising a frame member adapted to travel over a table, block members adjustably arranged in said frame member, a powder roller or box disposed in said block members, and a cloth-spreading member connected to said block members, said spreading member being formed with a vacuum therein, substantially as and for the purpose set forth.

2,326,460
SIGNAL TRANSLATING APPARATUS
Harold J. Hasbrouck, Jr., Merchantville, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application September 19, 1940, Serial No. 357,356
5 Claims. (Cl. 179—100.41)



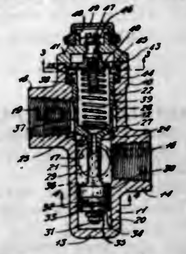
1. In a sound translating device for reproducing sound from a disc phonograph record, the combination with an electro-mechanical converter of a needle comprising a rigid motion transmitting part coupled to said converter, and a flexible member carried by and angularly related to said motion transmitting part, said member comprising a relatively elongated resilient element having a greater height than thickness dimension throughout its length whereby said element is more resilient throughout its length in the direction of its thickness than in the direction of its height, said element being adapted to occupy a position in operative relation to said record disc such that its height dimension is in a plane normal to that of said disc and its thickness dimension is in a plane normal to that of said first named plane whereby said element has greater resilience in said last named plane than in said first named plane, and a record engaging stylus carried by said element, said stylus extending from said member in said first named plane.

2,326,461
STRUCTURE HAVING A FOLDING SUPPORT SURFACE
Harold Howe, Rowayton, Conn.
Application April 24, 1942, Serial No. 440,343
15 Claims. (Cl. 311—90)



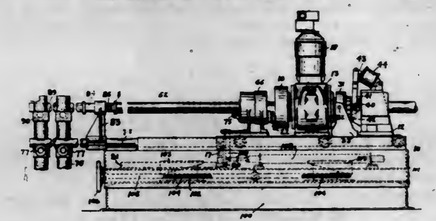
1. In a device of the kind described the combination of a top or other supporting surface comprising a plurality of portions hinged together, support means for said portions slidingly connected to the under side of said portions respectively, and a connecting link between each of said portions respectively and the support means for the other of said portions, said connecting link being pivotally connected to said support means adjacent the said sliding connection between the said support means and said top or supporting surface portion whereby, as the said portions are moved from abutting relation to superimposed relation, the upper end of said support means is moved away from the hinged connection between said portions, and connecting means, pivoted at one end to said support means below its connection to said connecting link and pivoted at its other end to said portion supported by said support means, whereby, as the upper end of said support means slides outwardly along its slideway in said portion, the lower end of said support means will move in toward the said hinged connection between the top portions.

2,326,462
PRESSURE REGULATOR VALVE
James P. Johnson, Shaker Heights, Ohio
Application August 14, 1940. Serial No. 352,557
7 Claims. (Cl. 137—153)



1. A pressure regulator valve comprising: a housing having a bore therein and a fluid inlet opening and a fluid outlet opening communicating with said bore for effecting unrestricted communication therebetween, said housing further having a fluid return outlet opening communicating with said bore and provided with an annular valve seat positioned between said return outlet opening and said fluid outlet opening; a semi-balanced valve member slidably disposed in said bore and having a valve head engageable with said valve seat for controlling the flow of excess fluid thereby, said valve member being further provided with a connected piston head of relatively smaller diameter than said valve head to effect a pressure-area differential therebetween, said piston head being slidably mounted in said bore and disposed at the opposite side of said fluid outlet opening whereby said valve head is removable from its seat by any increase in line pressure greater than said pressure-area differential; and means for pre-loading said valve member in proportion to said pressure-area differential for normally maintaining said valve head in engagement with its seat as long as the line pressure remains below that for which said valve member is pre-loaded.

2,326,463
AUTOMATIC TUBE CUTOFF
Dwight A. Johnston, Youngstown, Ohio, assignor to McKay Machine Company, Youngstown, Ohio, a corporation of Ohio
Application April 2, 1941, Serial No. 386,506
13 Claims. (Cl. 164—60)

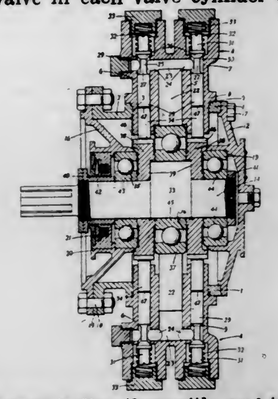


1. In a machine for severing predetermined lengths from longitudinally moving tubing comprising in combination a base, a carriage mounted on said base for movement along with said tubing, a cutting tool revolvably mounted on said carriage for movement about the longitudinal axis of said tubing, means to move said tool towards said axis to effect the cutting of said tubing, means to prevent longitudinal movement of said tubing relative to said cutter during the cutting operation, means supported wholly on said carriage to feed said cutting tool inwardly toward said axis, said last mentioned means comprising a power operating mechanism, and means to vary the rate of operation of said mechanism independently of the rate of travel of said carriage.

2,326,464
RADIAL CYLINDER MOTOR AND THE LIKE
Dudley George Jones, Aldwych, London, England
Application April 2, 1941, Serial No. 386,549
In Great Britain April 2, 1940
6 Claims. (Cl. 121—120)

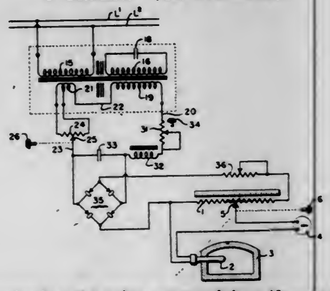
1. A fluid engine comprising a casing formed with a series of radially disposed openings, an integral unit removably mounted in each opening and extending inwardly of the casing, a power shaft mounted at the axis of the casing, each unit being formed to provide a working cylinder and valve cylinders on opposite sides of the working cylinder in a plane containing the axis of the casing, an eccentric on the power shaft in line with the working cylinders of the respective units, a bearing encircling the eccentric, said cams being formed on the surfaces adjacent the eccentric with recesses to snugly

receive the adjacent ends of the eccentric, a cam on the power shaft on each side of the eccentric, a piston in the working cylinder of each unit to cooperate with the bearing overlying the eccentric, a valve in each valve cylinder cooperating



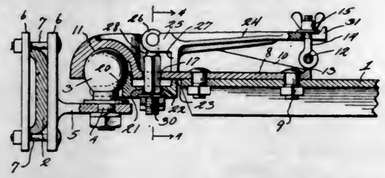
with the cam in line therewith, and independent means arranged wholly beyond the casing to establish free communication between all of the similar valve cylinders of the respective units wholly beyond the valve therein.

2,326,465
CONTROL APPARATUS
Earl A. Keeler, Norristown, Pa., assignor to The Brown Instrument Company, Philadelphia, Pa., a corporation of Pennsylvania
Application August 2, 1940, Serial No. 349,625
6 Claims. (Cl. 171—119)



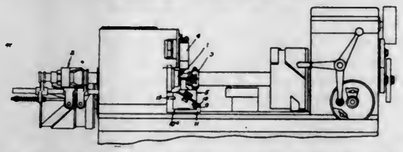
1. Control apparatus comprising the combination of a magnetic core, a winding on said core adapted to be connected to a source of fluctuating voltage, a second winding on said core in spaced relation to said first mentioned winding, a reactive circuit including resistive, inductive and capacitive components, a third winding on said core in inductive relation to the first mentioned winding and connected in series with said second mentioned winding and said reactive circuit, an output circuit connected across the capacitive component of said reactive circuit, said core providing a high leakage reactance path for a portion of the flux to thread through said first and third windings to the exclusion of said second winding, a resonant circuit including a condenser and a fourth winding, the resonant circuit operating at a frequency substantially equal to the frequency of said source, the fourth winding being in inductive relation to the second winding, and means to adjust the relative effective portions of said second and third windings which are connected in series.

2,326,466
TRAILER COUPLER
Carl C. Kitterman, Albia, Iowa
Application July 5, 1941, Serial No. 401,244
5 Claims. (Cl. 280—33.17)



1. A coupler clamp for connection with a ball of the character stated, comprising a body having a socket formed to receive the ball, a jaw adapted to engage the ball upon the opposite side from the socket, a lever pivotally supported upon the body adjacent the socket, means coupling the lever with said jaw adjacent said pivotal support for effecting the movement of the jaw relative to the socket upon oscillation of the lever, means for detachably securing the lever to the body upon the opposite side of the lever pivot from the first-mentioned means, and an interlocking coupling between the jaw and socket.

2,326,467
MACHINE TOOL
Raymond L. Kuehn, Hartford, Conn., assignor to The Billings & Spencer Company, a corporation of Connecticut
Application February 28, 1942, Serial No. 432,758
5 Claims. (Cl. 82—25)

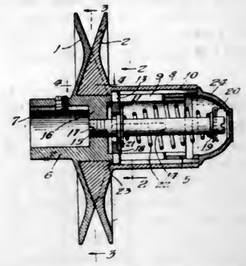


1. In a machine tool having a work rotating spindle, a tool carrying slide reciprocable transversely of said spindle and having an angularly disposed upper portion, guiding means for said slide on the frame of the machine including guides along the front and rear edges of said slide, and means for preventing entry of the cuttings into said guides disposed longitudinally along opposite edges of said angularly disposed portion and including deflecting means carried on and movable with said slide and projecting over said front guide, and means fixed to said frame and projecting over said rear guide.

2,326,468
VARIABLE PITCH PULLEY
Paul F. Koch, Oak Park, Ill., assignor to Chicago Die Casting Manufacturing Company, a corporation of Illinois
Application March 5, 1943, Serial No. 478,055
7 Claims. (Cl. 74—230.17)

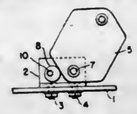
1. A pulley comprising two complementary flange sections, the first section having a long hollow hub on one side, the second section surrounding the inner end of the hub and having a sleeve fitting slidably over that part of the hub projecting beyond said second section, a post arranged axially of the hub and fixed at its inner end to the first flange section, the post having thereon an external shoulder at its outer end, the hub and the sleeve having long registering

longitudinal slots therein, a loose spider surrounding said post and having arms projecting through said slots and into said grooves, and a



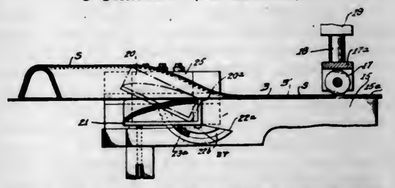
spring device surrounding said post and engaged at its ends with said shoulder and said spider respectively.

2,326,469
SUPPORTING DEVICE
William G. Leichner, Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation, a corporation of Delaware
Application April 30, 1942, Serial No. 441,217
4 Claims. (Cl. 248—309)



4. A support adapted to withstand vibratory or jarring motions comprising a main supporting member having a pair of surfaces at right angles to one another, an adjustable fastening element in one of said surfaces for securing a supported member thereto and eccentric means adjacent said fastening element and in position to engage said supported member for imparting a transverse force to said fastening element and said supported member thereby to force said supported member into engagement with the other of said surfaces and prevent said fastening element from changing its adjustment under the influence of vibratory and jarring motions.

2,326,470
METAL FORMING DEVICE
Basil Lermont, New York, and Arnold M. Wolf, Brooklyn, N. Y., assignors to Cairns Corporation, New York, N. Y., a corporation of Delaware
Application September 19, 1942, Serial No. 459,006
5 Claims. (Cl. 153—2)



1. An apparatus for imparting transverse and longitudinal curvatures to sheets of metal comprising means for gripping and retaining the edges of a sheet of metal, a movable forming member disposed between said means, said member having a surface of varying transverse and longitudinal curvature means for moving said forming member to bring portions of different curvature into engagement with said sheet, and means for pulling said sheet over said forming member while said sheet is gripped and retained to stretch said sheet longitudinally and transversely.

2,326,471
COMPOSITION AND METHOD
John F. Lontz, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application February 20, 1942, Serial No. 431,693
26 Claims. (Cl. 47—58)

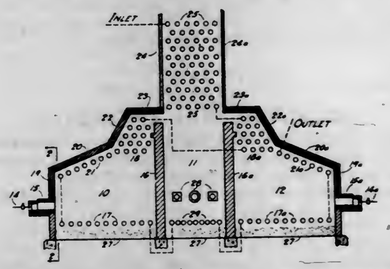
1. A plant regulant composition containing as an essential active ingredient a monocarboxylic acid having a non-carboxyl hydrogen replaced by an aromatic ring having a nuclear halogen substituent.

2,326,472
METHOD RELATING TO PROTECTING PLANTS AND THE LIKE AND TO PRODUCING MEANS FOR SUCH PURPOSES
Sven Vilhelm Lundbäck, Stockholm, and Bertil Henrik Emanuel Nilsson, Skelleftehamn, Sweden, assignors to Bolidens Gruvaktiebolag, Stockholm, Sweden, a joint-stock company limited of Sweden
No Drawing. Application February 10, 1939, Serial No. 255,776
3 Claims. (Cl. 167—14)

1. Method for protecting plants and the like against injurious insects, fungi and rot, characterized by using for spraying and dusting purposes fluorine arsenates of zinc.

3. Fluorine arsenates of zinc.

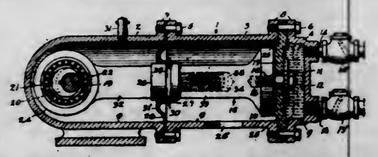
2,326,473
PETROLEUM HEATER
Roy S. Lyster, Lansdowne, Pa., assignor to Alcorn Combustion Company, Philadelphia, Pa., a corporation of Delaware
Application September 22, 1941, Serial No. 411,891
2 Claims. (Cl. 122—356)



1. A heater having a floor, a roof, and walls defining a pair of fire chambers disposed end to end on opposite sides of a centrally located fire chamber, the rear walls of said pair of fire chambers terminating short of said roof, an intermediate convection section spaced above said rear walls and directly over said intermediate fire chamber, said roof sloping upwardly from opposite side walls of the heater and terminating at said central convection section, a plurality of tubes horizontally disposed between the roof and the upper portion of each of said rear walls to form individual convection sections for said pair of fire chambers, a bank of roof tubes and a bank of floor tubes horizontally disposed adjacent the roof and floor of said pair

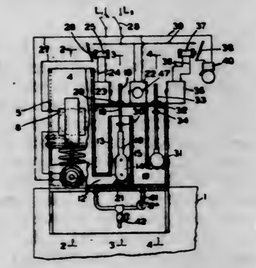
of fire chambers and means disposed intermediate said roof and floor tubes for burning fuel in a plurality of streams within said pair of chambers, fuel burning means located at the opposite end walls of said intermediate fire chamber, a bank of floor tubes in said intermediate fire chamber horizontally disposed materially below said last-named means, and means for connecting said tubes for passage of oil therethrough.

2,326,474
DIAPHRAGM PUMP
Job F. Maisbary and Walter W. Taylor, Oakland, Calif.
Application July 19, 1939, Serial No. 285,334
2 Claims. (Cl. 286—29)



1. In a pump of the character described, a cylindrical housing having a closed end and an open end and comprising two sections having companion flanges and means for securing the same upon one another, a rigid connecting rod extending through the length of the housing and being reciprocable therein and comprising two portions, an inner portion for accommodation in the closed section of the housing and an outer portion for accommodation in the open section of the housing, one of said portions having a threaded cavity and the other portion a threaded stud engaging in said cavity for joining the portions substantially opposite the flanges, a sealing diaphragm having an outer rim clamped between the two flanges of the housing, an inner sleeve fitting upon the inner portion of the connecting rod near the joint and a waved body between the rim and the sleeve, and means for clamping said sleeve upon said inner portion of the connecting rod whereby the outer portion of the latter may be unthreaded from the inner portion without disturbing the diaphragm seal.

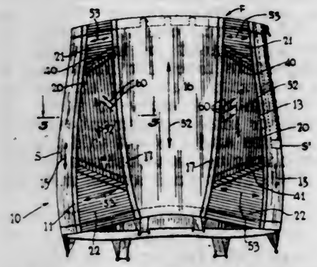
2,326,475
LIQUID CONTROL APPARATUS
Albert Matthews, Cincinnati, Ohio, assignor to The American Laundry Machinery Company, Norwood, Ohio, a corporation of Ohio
Application November 19, 1941, Serial No. 419,728
10 Claims. (Cl. 137—78)



1. For the purposes described, in combination, a liquid receiving vessel provided with a supply passage, valve means controlling the flow of liquid from said passage to the vessel, and means sensitive to the conjoint action of variations in both the specific gravity and the temperature of the liquid being supplied to the valve means and effective only when the values of both specific gravity and temperature are within predetermined ranges for causing operation of said valve means.

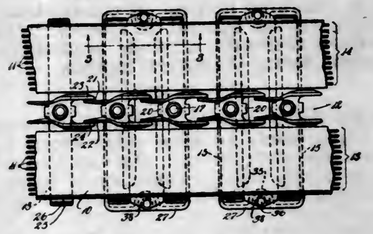
5. For the purposes described, in combination, a liquid receiving vessel provided with a liquid supply passage, normally closed valve means controlling the flow of liquid from said passage to the vessel, said passage being provided with a liquid receiving well having an inlet communicating with said passage at a level below that of the valve opening, the well being so constructed and arranged relative to the valve opening that upon liquid flow into the passage said well is filled with liquid to a given relatively fixed minimum level, a hydrometer float mounted to float freely in the liquid in said well and assuming various positions in the liquid in accordance with variations in its specific gravity, valve operating means, and controlling means for said valve operating means actuated by said hydrometer float and moved thereby, when the well is filled to at least said minimum level and the specific gravity of the liquid is equal to a predetermined minimum value, to a position in which it causes operation of said valve operating means to open said valve.

2,326,476
WOMAN'S CORSET
Edgar Mayer, Maspeth, N. Y., assignor to Rivoli Corset Co. Inc., New York, N. Y., a corporation of New York
Application October 1, 1940, Serial No. 359,216
3 Claims. (Cl. 2—37)



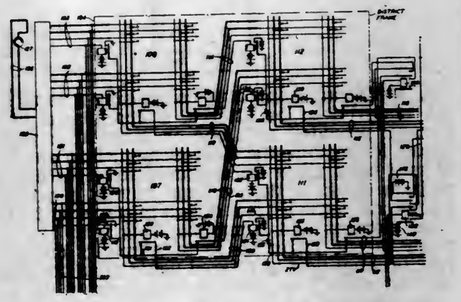
1. In a woman's corset of the class described, the combination of a body encircling member having back and front portions, each of said back and front portions comprising a main central section and a pair of auxiliary sections disposed on opposite sides thereof and connected thereto, each of said auxiliary sections comprising an independent middle panel, an independent top panel and an independent bottom panel, said middle panels being connected to said top and bottom panels and to said main central section, said middle panel of each auxiliary section being of elastic material stretchable in a substantially vertical direction and resistant to stretch in a substantially horizontal direction, said top and bottom panels of each auxiliary section being of elastic material stretchable in a substantially horizontal direction and resistant to stretch in a substantially vertical direction, the said main central sections of said back and front portions being of elastic material stretchable in a substantially vertical direction and resistant to stretch in a substantially horizontal direction.

2,326,477
TRACK AND GROUSER THEREFOR
Robert Mayne, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application March 4, 1941, Serial No. 381,648
10 Claims. (Cl. 305—10)



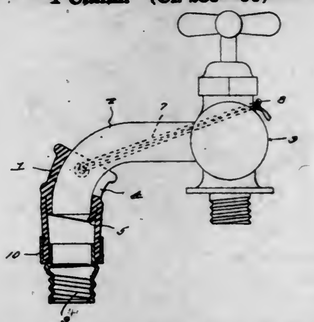
1. A track for a self-laying track vehicle, said track comprising a flexible band-like body of rubber-like material having a tread face, cross members in said body and having exposed ends, and a grouser at the tread face of said body and having holding means engaging exposed ends of a plurality of cross members for hinging movement with relation to each said member in directions both longitudinal and crosswise of the track.

2,326,478
SELECTION SYSTEM
Larned A. Meacham, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application February 17, 1942, Serial No. 431,236
6 Claims. (Cl. 179—18)



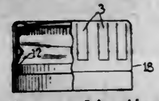
1. The combination in a telephone system of a switching stage comprising a plurality of automatic switches, a plurality of trunks appearing in said switches, said trunks having different designations, means for receiving and registering the different designations corresponding to said trunks, a generator for generating voltage of a plurality of different frequencies, a plurality of tuned circuits connectable to said generator, each of said circuits being tuned to and responsive to voltage of a different one of said frequencies, means dependent on the designation registered by said registering means for causing said generator to generate voltage of a corresponding one of said frequencies and to apply said voltage to said tuned circuits, means controlled by the tuned circuit which responds to the generated voltage for selecting the corresponding one of said trunks for use, and means for operating said switches to establish a connection over the selected trunk.

2,326,479
FAUCET COUPLING
May Frances Mejdrich, Chicago, Ill.
Application April 14, 1943, Serial No. 483,014
1 Claim. (Cl. 285—90)



A faucet coupling comprising a resilient rubber sleeve adapted to be slipped on the discharge spout of a faucet, a resilient, internal sealing flange in the sleeve at an intermediate point for engagement under tension around the discharge spout, said sleeve having a vertical slot in its upper rear portion, diametrically opposite eyelets in the upper portion of the sleeve, a cord threaded through the eyelets, the intermediate portion of the cord being adapted to be looped around the faucet, the end portions of said cord being adapted to tying around said faucet, and a threaded metallic nipple on the lower end of the sleeve for connection with a hose.
cluding an upper portion so formed as to engage a portion of said door and force the latter open upon an upward lengthwise movement of said rod from said initial position; and means for guiding said rod during its upward lengthwise movement and providing for the return of said rod and said lever to initial position due to the weight of said rod when said first arm is released by the operator.

2,326,480
CLOSURE
Augustus L. Merolle, Brooklyn, N. Y., assignor to Empire Metal Cap Company, Brooklyn, N. Y., a corporation of New York
Application March 18, 1941, Serial No. 383,894
5 Claims. (Cl. 215—46)

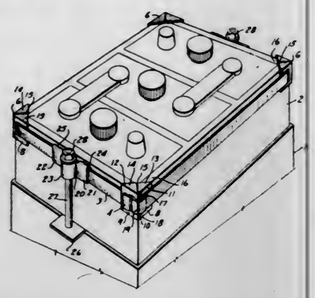


1. In a closure the combination with an outer shell having a top wall and a circular, depending, marginal side wall of annular cross section, of an inner cap having a top wall and a circular, depending, marginal side wall of annular cross section provided with means for securing said closure to a container, said cap being within said shell and the side wall of the shell being folded intermediate its top and bottom ends, said fold being curled about the edge of said cap and a portion of the side wall of the shell extending below said fold.

2,326,481
BATTERY HOLD-DOWN
Harvey E. Meyer, Kansas City, Mo.
Application July 21, 1941, Serial No. 403,384
12 Claims. (Cl. 180—68.5)

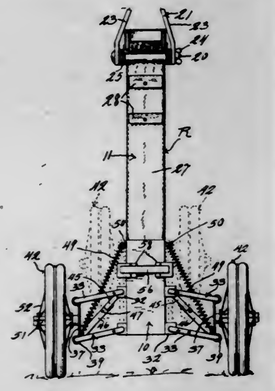
2. In a battery hold-down device, a cleat en-

gageable with a corner of a battery, a formable strap having an end engageable with a portion of said cleat, cleats movably mounted on said strap engageable with other corners of said battery, said strap having another end engageable with said



first named cleat to lock the strap and cleats in battery engaging condition, and means on the strap engageable with a portion of a support for the battery to hold the battery in desired relation to said support.

2,326,482
WHEELED GOLF CLUB CARRIER
William C. Moffitt, Salinas, Calif.
Application October 2, 1941, Serial No. 413,377
11 Claims. (Cl. 280—51)



1. A carrier of the character stated, comprising a vertically disposed relatively long receptacle consisting of a lower box like portion having rigid side walls and a rigid bottom and relatively long fabric upper portion simulating a golf bag, said upper portion being disposed longitudinally at an angle with respect to the height of the lower portion, a pair of supporting wheels disposed one upon each of two opposite sides of the lower portion of the receptacle, a pair of superposed arms pivotally coupled to each of said sides and to the adjacent wheels to swing vertically on horizontal and parallel axes to effect raising and lowering of the wheels between positions closely adjacent to the receptacle sides and outwardly and downwardly therefrom, while maintaining the wheels always with their turning axes perpendicular to the receptacle sides, and means for securing the wheels in raised and lowered positions.

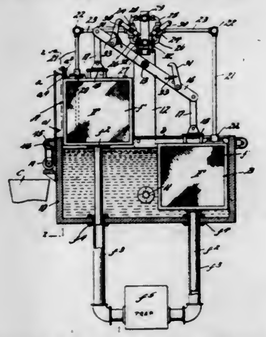
2,326,483
STABILIZED MINERAL OIL COMPOSITION
Robert C. Moran, Wenonah, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application July 20, 1940, Serial No. 346,655
11 Claims. (Cl. 252—46)

4. An improved mineral oil composition comprising a viscous mineral oil fraction having in admixture therewith a minor proportion of a compound having the general formula

RS—Z—SR

in which the R represents a hydrocarbon radical and Z represents an alkyl ether group having at least one ether linkage, said compound being present in an amount sufficient to inhibit the deleterious effects of oxidation in the oil.

2,326,484
FILTERING APPARATUS
Henry H. Moreton, Los Angeles, Calif.
Application January 25, 1940, Serial No. 315,584
18 Claims. (Cl. 210—153)

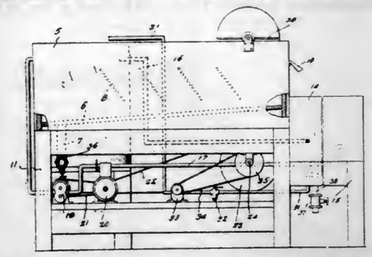


1. A filtering apparatus comprising a tank for the material to be filtered, a chambered filter element provided with one or more filter walls, means for moving the filter element into and out of said tank along an approximately rectilinear path, a liquid outlet conduit having a portion connected to the bottom of and movable with said filter element and communicating with the interior of the latter so as to normally create a gravitational flow of filtered liquid from the filter element while the latter is submerged, a suction pipe connected with the interior of the filter unit, a valve controlling said suction pipe and normally biased to open position, whereby a constant flow of liquid is maintained through the filter element during said submergence, and means for controlling said valve.

2,326,485
SEA FOOD WASHING MACHINE
Christy B. Nelson, Tokeland, Wash.
Application April 14, 1942, Serial No. 438,939
1 Claim. (Cl. 146—200)

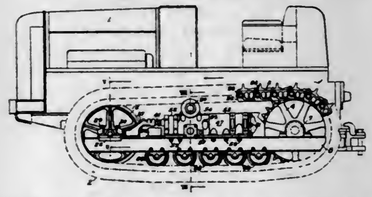
A cleaning apparatus of the class described comprising a tank, baffles arranged in the tank, an overflow chute at one end of the tank, an open receptacle beneath said chute, a paddle wheel journaled at the upper edge of the tank adjacent the chute and projecting into the water in the tank for moving material floating on the surface of the water into the chute for deposit into the receptacle, a reservoir adjacent the tank, a pipe

extending from the receptacle to the tank, a spray pipe in the tank connected to said pipe, a pump for returning water from the receptacle through said pipe into the tank, a pipe leading from the receptacle to the reservoir, an overflow pipe lead-



ing from the reservoir to the receptacle, a pump in said second-named pipe and a motor operatively connected with the paddle wheel and said pumps.

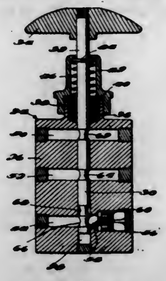
2,326,486
TRACK RELEASE MECHANISM
Emil F. Norelius, Springfield, Ill., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application July 26, 1940, Serial No. 347,572
28 Claims. (Cl. 305—9)



1. In a self-laying track mechanism, a frame, a track supporting wheel and a bearing therefor movable from a normal operating position on said frame into a track releasing position, a reciprocable support operatively connected with said bearing, a toggle mechanism comprising a first link pivoted on said frame, a second link pivoted on said support and a common pivotal connection between said links at such distances, respectively, from the pivot axis of said first link on said frame and from the pivot axis of said second link on said support that said toggle mechanism may occupy a moderately broken position while said bearing occupies said normal operating position, and resilient means operatively connected with said toggle mechanism to yieldingly resist movement thereof from said moderately broken position into a more completely broken position due to movement of said bearing from said normal operating position into said track releasing position.

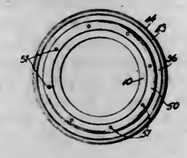
2,326,487
VALVE
John W. Overbeke, Anneslie, Md., assignor to The Glenn L. Martin Company, Baltimore, Md.
Application August 20, 1941, Serial No. 407,566
3 Claims. (Cl. 121—38)

1. In a hydraulic system including a source of fluid pressure, a plurality of fluid motors and a control valve therefor, duct means interconnecting the pressure source and said motors including return ducts, a normally closed valve in a duct means between the pressure and return ducts of said motors said valve having a spring urging the valve to the open position, pressure actuated detent means for holding the valve in the closed position during the entire operation of said



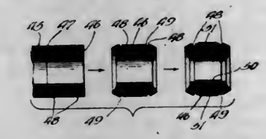
motor, whereby, upon a drop in fluid pressure, the valve will open a fluid passage around the motors to relieve the pressure lock.

2,326,488
RESILIENT TIRE FOR VEHICLES
William A. Owen, Johnson City, Tenn.
Application January 6, 1943, Serial No. 471,489
12 Claims. (Cl. 152—297)



1. A tire comprising a rim forming a base, a plurality of V-shaped members spaced around the periphery of the rim, a V-shaped member located outwardly of each of the first-named V-shaped member, coil springs connecting pairs of the first and second named members together, a fabric covering enclosing the springs and connected V-shaped member, means securing the inner peripheries of the covering to the side walls of the rim, means securing the first-named members to the rim, and a rubber-impregnated fabric cemented to the outer portion of the covering to form the tread.

2,326,489
LIQUID SEAL
Frank E. Payne, Barrington, Ill., assignor to Crane Packing Company, Chicago, Ill., a corporation of Illinois
Application February 20, 1941, Serial No. 379,790
1 Claim. (Cl. 288—2)



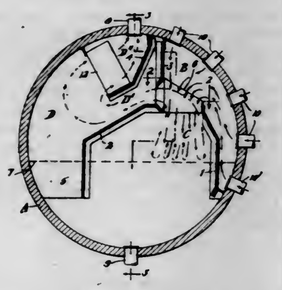
A fluid seal of flexible resilient material comprising a sleeve having a central opening and means to free the outer periphery near the ends to provide angular outer peripheral edges extensible beyond the normal planes of the ends, resilient spreaders insertable in the means to project the said angular edges, and inner and outer confining shells to engage the sleeve to prevent it from bulging and buckling.

2,326,490
FLUID DISPENSER
Harold N. Percison, Huntington Park, Calif.
Application June 13, 1942, Serial No. 446,987
5 Claims. (Cl. 215—47)



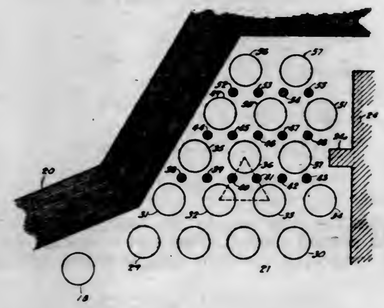
1. In a dispenser for a bottle or the like, a stopper of resilient material having resilient inner and outer end walls and a chamber between said walls, a reinforcing flange on said stopper extending substantially rightangularly from said outer end wall at the periphery thereof, a hollow needle extending through said outer end wall into said chamber; and means supporting said needle on said outer end wall with its point normally spaced outwardly from and adapted to penetrate said inner end wall when the needle is pushed inwardly and the outer end wall responsively yields inwardly.

2,326,491
STEAM SEPARATOR
Palmer B. Place, Tenafly, N. J., assignor to Combustion Engineering Company, Inc., New York, N. Y., a corporation of Delaware
Application September 29, 1941, Serial No. 412,757
10 Claims. (Cl. 122—491)



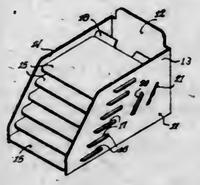
1. In combination in a steam and water drum having a plurality of inlet tubes, at least certain of which deliver a mixture of steam and water into the drum above the normal water level thereof, and having steam outlet means, a plurality of hoods located well above the normal water level and arranged side by side but in spaced relation with channels therebetween, and partition members cooperating with the hoods and the water in the drum to divide the interior of the drum above the water into three spaces, i. e., a space into which steam and water mixture is delivered by at least some of the inlet tubes, a steam separating space, and a space in communication with the outlet means, the said last three spaces being non-communicating save that the channels between the hoods afford communication between the said space into which mixture is delivered and the steam separating space and the hoods afford communication between the steam separating space and the said third space which is in communication with the outlet means.

2,326,492
PETROLEUM HEATER
Frank H. Praeger, Merion, Pa., assignor to Alcorn Combustion Company, Philadelphia, Pa., a corporation of Delaware
Application September 22, 1941, Serial No. 411,890
7 Claims. (Cl. 122—356)



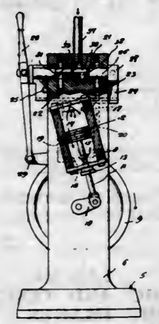
1. The combination with a heater, of a convection section comprising a plurality of tubes disposed in staggered rows one above the other, the spaces between the tubes of one row providing inlet passages for flow of hot combustion gases to the tubes of the next row, each tube thereof disposed intermediate one of said inlet passages for divided flow of gases around it, and means comprising elongated elements disposed in the regions where the gases divide and each of a size which decreases the areas of the flow-passages an amount adequate to prevent substantial diminution in the velocity of the divided flows of gases in their contact with said tubes.

2,326,493
DISPLAY STAND
Charles E. Pringle and Marie M. Murray, Milwaukee, Wis., assignors to Milwaukee Lace Paper Co., Milwaukee, Wis., a corporation of Wisconsin
Application November 4, 1940, Serial No. 364,156
5 Claims. (Cl. 211—135)



2. In a display stand the combination of a series of horizontal shelves placed one above the other with the front edges thereof arranged in receding ascension and unobstructed to permit access to said shelves; side members supporting said shelves, a rear member, means on said side members for mounting said rear member adjacent the rear of said shelves at an inclination corresponding to the angle of recession thereof to thereby form an abutment at the rear of said shelves for positioning articles thereon, and means on said side members for mounting said rear member in a position parallel to said first named position but spaced therefrom longitudinally of said shelves to thereby form an abutment in a different longitudinal position with respect to said shelves.

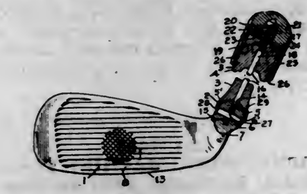
2,326,494
REVERSING MECHANISM
Emil H. Ratzburg, Shenandoah, Pa.
Application May 4, 1942, Serial No. 441,679
1 Claim. (Cl. 121—64)



In combination with an upright single cylinder fluid pressure engine including a cylinder mounted for pivotal movement and having ports adjacent the ends thereof and a piston slidable in the cylinder between said ports and connected to a power takeoff crank shaft, an elongated flat vertically arranged supporting plate having the cylinder pivoted thereto and rotatably supporting the crank shaft, said plate having a pair of passages and pairs of ports in direct communication therewith, said ports adapted to alternatingly connect with the ports of the cylinder during the pivotal movement of the latter by the rotation of the crank shaft driven by fluid pressure acting first on one side of the piston and then on the other side thereof from one of said passages during the rotation of the crank shaft in one direction and from the other passage during rotation of the crank shaft in an opposite direction, the passage not furnishing fluid pressure to the cylinder during the rotation of the crank shaft in the selected direction provides an escape for fluid pressure from the cylinder, said plate having exhaust ports in direct communication with the passages, said plate having a cylindrical valve chamber in communication with the passages and a fluid intake port connecting with said chamber and with a fluid pressure source, a cylindrical valve element manually slidable in said chamber and provided with a passage in constant communication with the intake port and having ports connecting with the latter-named passage and adapted to be alternatingly connected with the first-named passages by the sliding of the valve element for reversing the fluid pressure flow to the first-named passages, a valve plate connected to said valve element and slidable on the outside of the supporting plate and provided with exhaust ports to be alternatingly aligned with the first-named exhaust ports, and a hand lever pivotally mounted on the supporting plate and connected to the valve element for the manual sliding thereof in opposite directions.

2,326,495
GOLF CLUB
Gustaf L. Reenstierna, Union City, N. J., assignor, by direct and mesne assignments, of one-third to Remo Aiazzone, Union City, N. J., and one-third to Elmon C. Gillette, New York, N. Y.
Application October 22, 1940, Serial No. 362,189
3 Claims. (Cl. 273—79)

1. In a gold club having a grip and shaft and a joint at its lower end and a head movably secured by said joint to said shaft and having a bolt to lock said joint and head, said bolt passing upwardly through said shaft and said grip and threaded at its top end, a nut of metal and a cap over and around said nut, said nut engaging



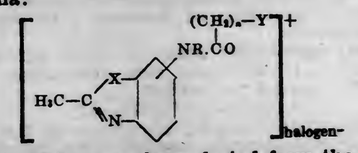
said bolt and said cap being of material relatively less heat conducting than said nut and having a sleeve extension movable to revolve around said grip to turn said nut, thereby protecting said nut from dirt and moisture and preventing said metal nut from contacting the hands.

2,326,496
MINERAL OIL COMPOSITION AND IMPROVING AGENT THEREFOR
Orland M. Reiff, Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application April 20, 1940, Serial No. 330,693
13 Claims. (Cl. 252—48)

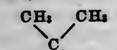
1. An improved mineral oil composition comprising a mineral oil having admixed therewith in minor proportion an oil miscible condensation product characterized by at least two aryl nuclei, each of which is substituted with at least one mineral-oil-solubilizing alkyl group and with at least one ether carboxylic acid group, the said characterizing nuclei being interconnected by at least one atom of an element selected from the group consisting of sulfur, selenium and tellurium.

2,326,497
WATER-SOLUBLE NITROGEN-CONTAINING HETEROCYCLIC COMPOUND
Oskar Riester, Dessau, and Gustav Wilmanns, Wolfen, Kreis Bitterfeld, Germany, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application November 14, 1939, Serial No. 304,320. In Germany November 15, 1938
4 Claims. (Cl. 260—290)

1. A compound having the following general formula:

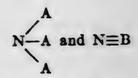


wherein X is a member selected from the group consisting of S, O, Se,



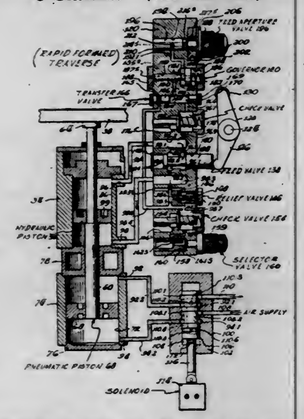
N-alkyl, N-aryl, N-aralkyl, —CH=CH—; R is a member selected from the group consisting of H or alkyl; n is a whole number smaller than 3;

Y is a member selected from the class consisting of



wherein A is selected from the group consisting of alkyl and aryl and N≡B is a radicle of a heterocyclic amine; wherein the acid amide radical is attached to any of the four positions of the benzene ring.

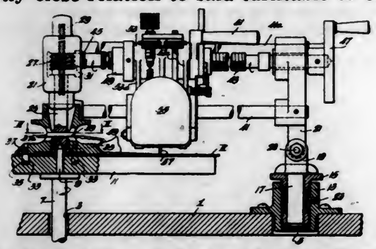
2,326,498
HYDROPNEUMATIC MACHINE TOOL FEED
Ralph Rodal, Richmond, Ind., assignor to The National Automatic Tool Company, Richmond, Ind., a corporation of Indiana
Application September 22, 1939, Serial No. 296,037
9 Claims. (Cl. 121—45)



5. A hydraulic control apparatus comprising a cylinder, a piston reciprocable therein, a control panel, conduits connecting the ends of said cylinder to said control panel, a passageway in said panel and connecting said conduits, a valve for closing said passageway, a reservoir, a duct connecting one of said conduits to said reservoir, a check valve preventing flow from said last named conduit to said reservoir through said duct but permitting flow in the opposite direction, a passageway forming a path for flow from the other of said conduits to said reservoir, and an adjustable flow metering restriction in said last named passageway.

2,326,499
PHONOGRAPHIC APPARATUS
Frank E. Runge, Indianapolis, Ind., assignor to Radio Corporation of America, a corporation of Delaware
Original application June 29, 1940, Serial No. 343,116. Divided and this application May 28, 1941, Serial No. 395,524
6 Claims. (Cl. 274—47)

1. In signal-recording apparatus of the type employing a rotatable turntable and a disc record blank supported thereon, the combination of a signal-translating device movable over said blank and including a cutting element for cutting a groove in said blank by removal of shavings therefrom, and a spool-shaped member resting on said blank concentrically with said turntable, said member having driving engagement with said turntable whereby to be driven thereby and having its portion of reduced diameter in sufficiently close relation to said turntable to enable



said shavings to wind around it as it rotates whereby to collect said shavings thereon.

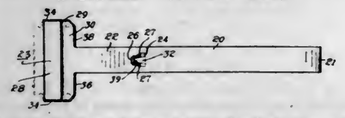
2,326,500
PHOTOGRAPHIC AND CINEMATOGRAPHIC MULTICOLOR IMAGES OF CORRECT COLOR VALUE
Wilhelm Schneider and Heins Schulze, Dessau, and Gustav Wilmanns, Wolfen, Kreis Bitterfeld, Germany, assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application March 6, 1940, Serial No. 322,482. In Germany February 23, 1939
5 Claims. (Cl. 95—2)

1. A method of producing subtractive photographic multicolor images of correct color registration which comprises taking a color negative on a photographic multicolor material containing dyestuff formers in which one of the dyestuff formers predominates and printing said negative onto a photographic multilayer printing material containing dyestuff formers in which another dyestuff former predominates to such an extent as to compensate the color failure of the negative.

2,326,501
ISOCYANATES
Werner Siefken, Cologne, and Arnold Doser, Cologne-Mulheim, Germany, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application July 28, 1936, Serial No. 93,118. In Germany July 31, 1935
11 Claims. (Cl. 260—453)

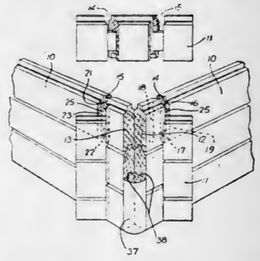
1. The process which comprises causing phosgene to react upon hydrogen halides of primary monoamines selected from the class consisting of alkyl, aralkyl, cycloalkyl and hydroaryl amines while continuously removing from the reaction mixture the hydrogen halides formed during the reaction.

2,326,502
CUTTING AND SCRAPING DEVICE
Herman F. Sieg, Pittsburgh, Pa.
Application October 17, 1940, Serial No. 361,486
2 Claims. (Cl. 30—338)



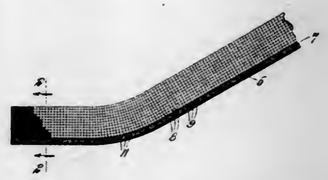
1. A cutting and scraping device composed of a pair of generally parallel arms connected at one end by a suitable unitary bend and converging at their distal ends to form a pincer-like portion, said arms having interengaging portions formed therein for maintaining the pincer-like portion in a condition which is adapted to immobilize a suitable cutting and scraping element when placed therein, said interengaging portions including a T-shaped slot in one arm and a substantially T-shaped projection in the other arm, said slot being so formed that its cross-bar portion is transverse to the major axis of its arm and the triangular portions between the bar extensions and the stem thereof are inwardly and downwardly shaped to form a seat below the level of said arm.

2,326,503
BUILDING CONSTRUCTION
Alfred Smith, Burnaby, British Columbia, Canada, assignor to Joseph Harold Bluechel, Vancouver, British Columbia, Dominion of Canada
Application October 24, 1941, Serial No. 416,395
7 Claims. (Cl. 20—4)



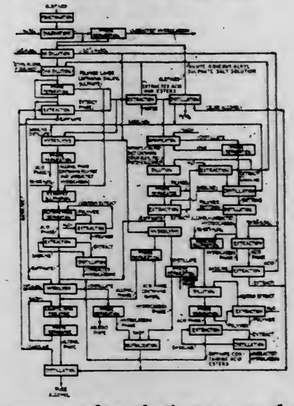
1. In building construction, two side wall members positioned substantially at right angles to each other with their adjacent ends brought together, a notching arrangement obliquely disposed in one member adjacent its end, a notching arrangement obliquely disposed in the other member adjacent its end and in line with the first notching arrangement, a short locking unit, and notching arrangements obliquely disposed adjacent opposite ends of the unit corresponding to the arrangements of the members, said unit being adapted to be moved downwardly over the members with its notching arrangements cooperating with those of the members removably to lock the latter in position.

2,326,504
CHUTE
Wesley L. Smith, Bedford, Va., assignor to Great American Industries, Inc., New York, N. Y., a corporation of Delaware
Application July 3, 1941, Serial No. 401,047
2 Claims. (Cl. 193—32)



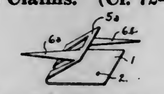
1. A chute consisting of a rigid base whose upper surface has attached thereto a layer of soft, substantially solid rubber containing almost wholly collapsed closed cells and whose outer surface is pitted with vacuum cups.

2,326,505
MANUFACTURE OF HIGHER ALCOHOLS
Anton Johan Tulleners, Long Beach, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application May 29, 1939, Serial No. 276,315
In Great Britain July 19, 1938
4 Claims. (Cl. 260—639)



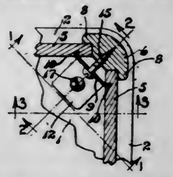
1. In a process of producing a secondary alcohol of at least six carbon atoms per molecule from the corresponding olefine by treating said olefine with at least an equal molecular amount of 80 to 100% sulfuric acid under sulfating conditions and hydrolyzing alkyl sulfates thereby formed, the improvement which comprises diluting the mixture of alkyl acid sulfate, dialkyl sulfate and free sulfuric acid resulting from said sulfation with water at about 15° C. to cause separation of a phase substantially free from alkyl acid sulfates and containing sulfuric acid of 50% to about 60% concentration from a phase containing said alkyl acid sulfate and dialkyl sulfate, withdrawing the free sulfuric acid phase and further diluting the phase containing the alkyl acid sulfate at about the same temperature with sufficient water to produce an aqueous layer which contains after hydrolysis of the alkyl acid sulfate and stratification sulfuric acid of 10 to 40% concentration, removing dialkyl sulfate from the diluted mixture, treating the separated dialkyl sulfate with a base to produce the corresponding secondary alcohol and alkyl acid sulfate salt therefrom and reacting said alkyl sulfate salt with the free sulfuric acid separated from the sulfation product to produce additional alcohol.

2,326,506
WALLBOARD FASTENER
Samuel H. Tummins, Houston, Tex.
Application May 9, 1940, Serial No. 334,136
2 Claims. (Cl. 72—118)



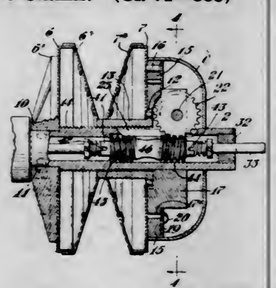
1. A wall board fastener comprising a substantially flat base, a clamp portion retracted from and formed integrally with the base and adapted to clamp a portion of the adjacent margin of a wall board overlying the base and tangs thrown out from the material of the retracted clamp portion and projecting in opposite directions from the clamp portion and adapted to penetrate into adjacent margins of said overlying well board and of another wall board.

2,326,507
FURNITURE CONSTRUCTION
Kenneth C. Welch, Jr., Grand Rapids, Mich., assignor to Grand Rapids Store Equipment Company, Grand Rapids, Mich., a corporation of Michigan
Application March 16, 1942, Serial No. 434,885
1 Claim. (Cl. 312—143)



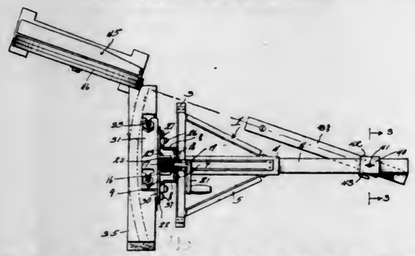
In a construction of the class described, a horizontal base having a border therearound at a side and ends, with a groove in the upper side thereof between said base and border at said side and at its ends, vertical panels at said side and ends having lower edge portions seated in said grooves, said panels at the corners of the structure approaching each other but being separated, a post at each of said corners resting upon the base and extending upwardly to a point a short distance below the upper edges of said panels, a top lying over the posts and panels provided with grooves at its under side to receive the upper edge portions of the panels, said top resting on the upper ends of the posts, said posts each having a portion extending between the vertical edges of the panels at said corners into the spaces separating said panels, a vertical elongated sheet metal member lying inwardly of and paralleling each post and spaced therefrom, a flange at each of the ends of said members turned at right angles to lie underneath the top and over the base, other flanges turned from the vertical side edge portions of the sheet metal member at an obtuse angle to the plane of the body of said member, said panels having cooperating vertical grooves at their inner sides and adjacent said posts into which the last mentioned flanges are received, a plurality of spaced apart screws passing through said sheet metal members and driven into the posts, and screw connections passing downwardly into the base and upwardly into the top through the first mentioned flanges, as and for the purposes specified.

2,326,508
POWER TRANSMISSION MECHANISM
Preston Whitcomb, Bridgeport, and Henry S. Moore, Easton, Conn., assignors to Manning, Maxwell & Moore, Incorporated, New York, N. Y., a corporation of New Jersey
Application April 18, 1941, Serial No. 389,166
3 Claims. (Cl. 74—388)



1. Power transmission mechanism comprising complemental helical gear elements, a rotary support coaxial with one of said gear elements, the second of said gear elements being carried by said rotary support, said second gear element, when it meshes with the first, being thereby caused to rotate about its own axis, means operative in response to rotation of said second gear element about its own axis to move the support bodily in a direction such as ultimately to disengage the gear elements, the first-named gear element being capable of limited motion axially and moving axially to one limit of its path, in response to such bodily movement of the support, said direction being opposite to that in which it tends to move due to rotative pressure between the teeth of the intermeshing gear elements.

2,326,509
SUPPORTING CARRIAGE FOR WOOD TO BE SAWED
Harry G. Womack, Atlanta, Ga.
Application July 5, 1941, Serial No. 401,277
3 Claims. (Cl. 143—171)



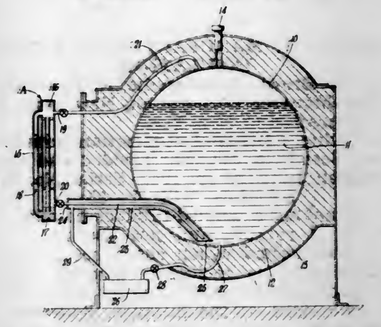
2. A structure of the character stated comprising a frame, a beam extending horizontally from one side of the frame and constituting a tail piece, a pivot unit connected with the tail piece and including a collar slidable on the tail piece, means for securing the collar to the tail piece, a fixed bar, a pivot between the fixed bar and the sliding means, a standard secured to the frame at the other end of said tail piece, a work securing clamp mounted upon the standard to move lengthwise thereof, said clamp being pivoted for oscillation around a horizontal axis, and means carried by the standard and connected with the clamp for effecting the vertical movement of the clamo on the standard.

2,326,510
FISHING LINE ATTACHMENT
R. B. Worden, Granger, Wash.
Application October 2, 1941, Serial No. 413,370
3 Claims. (Cl. 43—49)



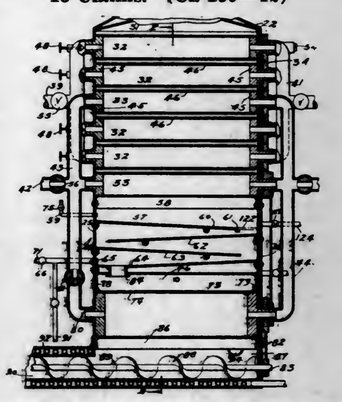
1. An attachment for a fishing line comprising a member having an opening therethrough through which the line is to be freely passed, a portion of said opening within the member being enlarged to provide a chamber having a tapered wall with the larger end of the chamber outwardly disposed, and a buoyant bead within the chamber to provide means to lock the line between the bead and the tapered wall.

2,326,511
LIQUID LEVEL GAUGE
George H. Zenner, Kenmore, N. Y., assignor to The Linde Air Products Company, a corporation of Ohio
Application January 31, 1941, Serial No. 376,768
4 Claims. (Cl. 73—302)



1. A liquid level indicating device for a container holding a volatile liquid having a normal boiling point substantially below atmospheric temperatures comprising means for indicating a pressure difference, said indicating means having lower- and higher-pressure connections; means connecting said lower-pressure connection in gaseous pressure communication with the gas space above the liquid in said container; a measuring tube connecting the higher-pressure connection of said indicating means with a point in said container below the level of the liquid therein; means for passing vapors of said stored liquid to the end of said tube in said container to maintain said tube free from liquid; and a vaporizing device constructed and arranged for controllably vaporizing portions of said stored liquid by atmospheric heat to provide said vapors.

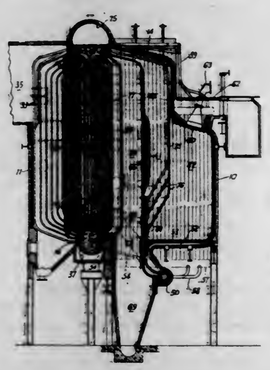
2,326,512
DESICCATING APPARATUS
Harry I. Andrews, South Norwalk, Conn.
Application December 28, 1938, Serial No. 248,031
13 Claims. (Cl. 159—12)



1. In apparatus for dessicating milk, including a casing, a plurality of vertically spaced horizontally extending hot and cold main rollers for partially dehydrating said milk by subjecting the same to alternate zones of heat and cold as it passes downwardly in said casing, the combination of means for directing liquid milk to the upper of said rollers; and a heated calender roller cooperable with the upper of said rollers to preheat the milk and to spread the same in a thin film.

2. In an apparatus for dessicating milk, the combination of a rotatable drum for receiving milk and supporting the same in the form of a thin sheet, means for supplying air to said drum, said drum having apertures in the surface thereof for directing air to aerate and dehydrate said milk while it is supported in the form of said thin sheet thereon; sealing means for said apertures, operable to open only those apertures passing through a limited milk supporting area during the rotation of the drum; and means for removing said dehydrated and aerated milk from said drum.

2,326,513
STEAM GENERATOR
Ervin G. Bailey, Easton, Pa., and Arthur E. Raynor, Rockville Centre, N. Y., assignor to The Babcock & Wilcox Company, Newark, N. J., a corporation of New Jersey
Application August 2, 1941, Serial No. 405,182
10 Claims. (Cl. 122—336)

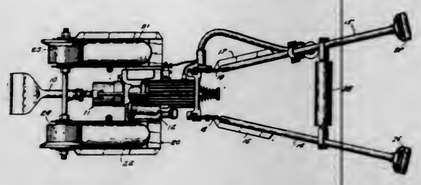


3. A steam generator comprising a setting including a vertically disposed bank of generating tubes along one side thereof, a plurality of vertically disposed laterally spaced fluid cooled partitions arranged to divide the remaining part of the setting into a furnace chamber and a plurality of serially connected vertical open passes connecting said furnace chamber to said tube bank space, said furnace chamber opening to the bottom of the adjoining open pass substantially throughout its length, the open pass adjoining said tube bank space being constructed for a substantially horizontal gas flow therethrough, and means for burning fuel in said furnace chamber.

2,326,514
ROOF SCRAPER
Francis N. Bard, Highland Park, Ill.
Application February 17, 1941, Serial No. 379,331
2 Claims. (Cl. 262—13)

1. Apparatus of the character described, including: a working assembly including an inclined

impact tool, a motor for operating the tool, and handle means; a supporting carriage providing



a pivotal mounting for the working assembly; and means for adjusting the point of pivotal mounting.

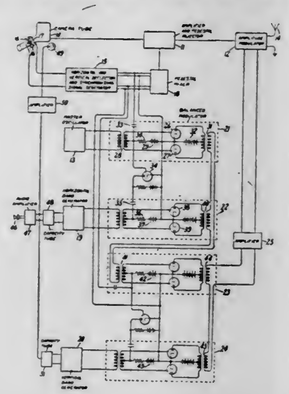
2,326,515

TELEVISION SYSTEM

Everhard H. B. Bartelink, Niskayuna, N. Y., assignor to General Electric Company, a corporation of New York

Application August 3, 1940, Serial No. 350,643

33 Claims. (Cl. 178—5.6)



1. In a television system utilizing an assigned communication channel within a predetermined frequency band, the method comprising transmitting a carrier wave of predetermined frequency modulated in amplitude in response to a video signal during separate recurrent periods, the frequencies of said carrier wave and the side bands resulting from amplitude modulation thereof lying within said predetermined frequency band, transmitting a carrier wave whose frequency differs from said predetermined frequency and lies within said band during periods intervening between said recurrent periods, one characteristic of which wave is determined by a second signal, and concurrently modulating the frequency of said carrier wave within said band in response to a third signal.

2,326,516

COMPRESSED AND DENSIFIED PRODUCT AND THE METHOD OF MAKING THE SAME

George B. Brown, Manville, N. J., assignor to Johns-Manville Corporation, New York, N. Y., a corporation of New York

No Drawing. Application January 19, 1940, Serial No. 314,692

4 Claims. (Cl. 106—120)

1. An article of manufacture consisting of a heat insulating sheet having a high modulus of rupture and comprising asbestos fibers and a binder, the binder including the product of a substantially complete reaction under the influence of steam of an aqueous mixture of hydrated lime and finely divided silica, the fibres constituting at least half of the dry weight of the article and at least 50% of the fibers being amosite fibers, and said article having a dry density below 45 lbs. per cubic foot and a thermal conductivity of less than 1 when measured at a mean temperature of 100° F.

2,326,517

METHOD OF MANUFACTURING FIBROUS INSULATION

George B. Brown, Martinsville, N. J., assignor to Johns-Manville Corporation, New York, N. Y., a corporation of New York

No Drawing. Original application January 19, 1940, Serial No. 314,692. Divided and this application January 16, 1941, Serial No. 374,703

5 Claims. (Cl. 92—55)

1. In making a bonded product having a high modulus of rupture and low thermal conductivity, the method which comprises forming an intimate mixture including amosite fibres in large proportion constituting at least 50% of the dry weight of the mixture, hydrated lime, finely divided diatomaceous earth and water, shaping and strongly compressing the mixture against a filtering member, to expel a major portion of the water therefrom and produce densification, and then subjecting the compressed and shaped material to an elevated temperature while minimizing the evaporation of water, to cause reaction between the lime and finely divided diatomaceous earth with the production of a binder for the fibres.

2,326,518

MEASURING INSTRUMENT FOR DETERMINING ANGLES AND THE LIKE

Bennie V. Beatty, Uniontown, Pa., assignor of three-eighths to R. E. Day and three-eighths to Charles B. Harter, both of Tulsa, Okla.

Application November 10, 1941, Serial No. 418,448

6 Claims. (Cl. 33—207)



1. An instrument of the character described including an open front casing, means on the back of the casing for slidably mounting the casing on the blade of a centering square, and a pendulum actuated scale oscillatably supported in the casing and visible through said open front, said scale having lines extending transversely thereacross and said mounting means being positioned to register an edge of the blade with the axis of pendulum oscillation.

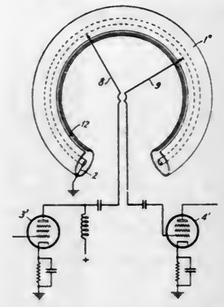
2,326,519

ULTRA HIGH FREQUENCY COUPLING MEANS

Don G. Burnside, East Orange, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application February 28, 1941, Serial No. 381,161

14 Claims. (Cl. 178—44)



6. A coupling circuit for use between a source of high frequency waves and a load, comprising a pair of parallel conductors bent into circular form and connected together at one end by a path of low impedance to energy of the operating frequency, the physical length of said conductors being appreciably less than and substantially of a different order than one-quarter of the length of the operating wave, the voltage distribution over said line being substantially linear, and connections from one of said conductors to said source and load, said connections being movable over said one conductor.

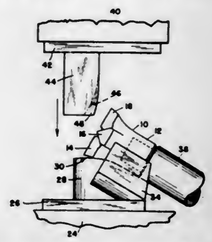
2,326,520

MEANS FOR RECONDITIONING DRILL BITS

Ralph E. Calhoun, Metaline Falls, Wash.

Application April 29, 1941, Serial No. 390,947

2 Claims. (Cl. 76—95)



1. For sharpening a tooth of a rock drill bit of the type wherein several teeth are radially disposed on the cutting face of a shank body, mechanism, comprising: means for receiving and supporting the heel of a rock drill bit tooth to be sharpened, a swage bar reciprocally movable in a path that intersects at an obtuse angle the axis of a bit on said receiving and supporting means, said swage bar having a pair of fullering wings forming therebetween a V-groove disposed at an angle to the path of travel of the swage bar, said wings having tooth corrugations on the opposed side of the groove to engage and face the sides of the contacted bit tooth, said fullering wings upon contact with a bit tooth edging the same and pressing the metal radially outward, and means for reciprocally moving said swage bar toward and away from said support means.

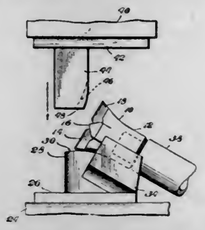
2,326,521

METHOD OF RECONDITIONING DRILL BITS

Ralph E. Calhoun, Metaline Falls, Wash.

Original application April 29, 1941, Serial No. 390,947. Divided and this application February 6, 1942, Serial No. 429,758

4 Claims. (Cl. 76—108)



1. The method of reconditioning a tooth of a worn rock drill bit which method comprises: supporting the heel of the bit tooth to be sharpened, and striking the sides of the bit tooth toward each other but away from the axis of the bit while simultaneously wiping the metal of the tooth into a sharp cutting edge whereby the bit tooth is not only sharpened but motion is set up to swage the tooth metal radially outward of the bit axis.

2,326,522

DIESEL FUEL

Gould H. Cloud, Linden, and William J. Sparks, Elizabeth, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application October 18, 1940, Serial No. 361,722

8 Claims. (Cl. 44—57)

5. An improved Diesel fuel comprising a hydrocarbon Diesel fuel oil blended with a minor proportion of an organic hypochlorite.

2,326,523

PREPARATION OF GEL CATALYST

Gerald C. Connolly and Rhea N. Watts, Baton Rouge, La., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application June 24, 1939, Serial No. 281,054

1 Claim. (Cl. 252—259.2)

A method of preparing a synthetic silica gel containing an active metallic oxide other than silica which comprises first forming a silica hydrogel, thereafter soaking the hydrogel so formed with a solution containing a soluble salt of said active metal capable of being converted into the oxide to thereby impregnate said hydrogel with salt solution, thereafter kneading the impregnated gel for a period sufficient to convert said impregnated gel into a plastic mass having tacky characteristics, thereafter mixing about 10% of finely-divided, dry silica gel to said plastic mixture, then allowing the impregnated gel to stand for a period of at least three hours and until said impregnated gel has partially set, moulding the partially set product into units of predetermined shape and thereafter drying and activating the moulded product.

2,326,524

GOLF PRACTICING DEVICE

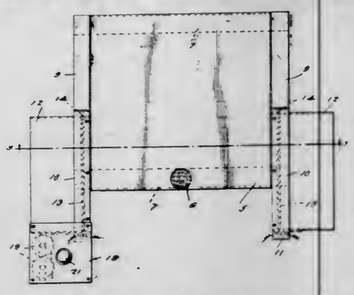
Claude White Davis, Roanoke, Va.

Application August 12, 1942, Serial No. 454,609

2 Claims. (Cl. 273—35)

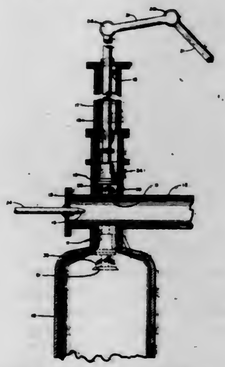
1. A golf practicing device comprising a plat-

form having a target spot thereon, a pair of open-sided sheds, one at each side of the target spot, a swingable vane in each of the said sheds, a



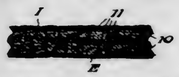
switch operated by each of the vanes, an indicator device and a series including a source of current and said switches and device.

2,326,525
METHOD OF PREVENTING DELETERIOUS COKE DEPOSITS
Roy J. Diwoky, Chicago, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application August 28, 1940, Serial No. 354,542
4 Claims. (Cl. 196—69)



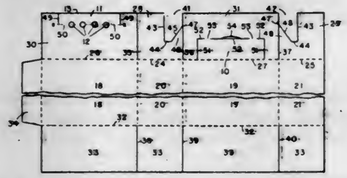
1. In a cracking process wherein vapors at a cracking temperature continuously flow from a reaction chamber through a vapor outlet line in immediate communication with the reaction chamber and wherein such flow of vapors is continued for an extended period of time, the method of removing coke deposits and maintaining the free flow of vapors from the reaction chamber through the vapor outlet line which comprises normally permitting the flow of vapors through the entrance to the vapor outlet line without the application of any cooling fluid at said entrance, at intervals forcing a plunger element through the vapor outlet line thence into the reaction chamber to thereby dislodge coke formations in the path thereof, as the plunger passes through the vapor outlet line directing a fluid medium against the inner wall thereof with sufficient force to wash away coke formations, and when the plunger is within the reaction chamber directing a fluid medium against that portion of the wall of the reaction chamber adjacent the entrance to said vapor outlet line with sufficient force to wash away coke formations.

2,326,526
MOLDED PLASTIC BODY
Milo C. Dodge, Auburn, N. Y., assignor to Columbian Rope Company, Auburn, N. Y., a corporation of New York
Application February 20, 1940, Serial No. 319,963
2 Claims. (Cl. 242—119)



1. A molded plastic bobbin head formed of a mass of fibers constituting a filler and a thermo-setting binder molded under heat and pressure, the cellular characteristics of said fibers imparting to said mass a substantial resistance to compression, whereby the mass tends to retain its bulkiness and porosity, and groups of said fibers being disposed in tufts transversely of said mass and further increasing the resistance of the mass to compression, the density, porosity and weight of said bobbin head substantially corresponding to that of a bobbin head made of natural wood, whereby said molded bobbin head can be used interchangeably with bobbin heads of natural wood.

2,326,527
CARTON CONSTRUCTION
Werner Emmerich, Cincinnati, Ohio, assignor to The Frank Tea and Spice Company, Cincinnati, Ohio, a corporation of Ohio
Application June 22, 1942, Serial No. 447,935
17 Claims. (Cl. 229—17)

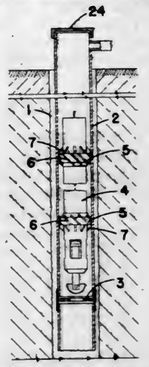


1. In a carton including a pair of spaced parallel side and end walls, the combination of a pair of inner panels extending from the end walls of the carton and folded inwardly at the end of the carton, said panels being cut away to provide a pouring opening, an intermediate panel extending from a side wall of the carton and folded inwardly to overlie said inner panels, said intermediate panel including a perforated tab hinged upon said intermediate panel and normally overlying said opening, an outer panel extending from the other side wall of the carton and folded inwardly over the intermediate panel, said outer panel including a movable flap normally overlying said tab, and means for securing said inner and outer panels to the intermediate panel.

2,326,528
PARAFFIN SCRAPER
Benjamin J. Festervan and Nathan F. Henderson, Monroe City, Tex.
Application June 11, 1940, Serial No. 339,857
4 Claims. (Cl. 166—18)

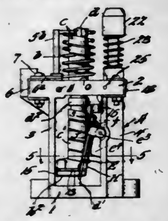
1. A paraffin scraper adapted to move freely up and down an oil well tubing comprising a hollow open-ended cylinder, circumferential cutters mounted on such cylinder, helical passages in said cutters, a valve adapted to stop the flow of oil through said cylinder whereby oil is forced through said helical passages, means carried by

the cylinder for closing said valve when the cylinder reaches its lowermost position in the tub-



ing, and for opening said valve when the cylinder reaches its uppermost position in the tubing.

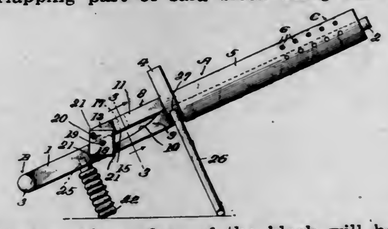
2,326,529
OVERLOAD CUTOUT FOR ELECTRIC CIRCUITS
Joseph F. Frese, Baltimore, Md., assignor to Monitor Controller Company, Baltimore, Md., a corporation of Maryland
Application February 2, 1942, Serial No. 429,334
3 Claims. (Cl. 200—116)



3. An overload cut-out device for electric circuits comprising a suitable supporting frame, an overload coil mounted thereon, a spindle extending axially through and beyond said coil, two bi-metallic thermally responsive coils, wound in the same direction, surrounding said spindle, one of the bi-metallic coils being arranged within the overload coil and having one end secured to the frame and its other end secured to the spindle, and the other bi-metallic coil being without the overload coil and having one end secured to the spindle and its other end free to turn, a tripping device connected to the free end of the last mentioned coil, a switch comprising a lever and a switch member spring-pressed toward open position, a latch, carried by said lever, adapted to engage said tripping device when the lever and switch member are moved toward switch-closing position, and means for moving the lever and latch to the latching position and then permitting the switch to close, if the latch engages and is held by said tripping device.

2,326,530
TOY MACHINE GUN
Robert C. Flynt and Ursal K. Butler, Winston-Salem, N. C.
Application September 28, 1942, Serial No. 460,012
3 Claims. (Cl. 46—192)

1. In a toy machine gun, an elongated gun body member rectangular in cross section and being formed intermediate its ends with a portion of reduced cross sectional area and a resultant recess; and a sounding device comprising a sounding block bridging said recess and projecting laterally beyond one side of said body and longitudinally beyond both ends of said recess, means securing said block to said body member at opposite ends of said recess to thereby reenforce said portion of reduced cross sectional area, a corner portion of the laterally overlapping part of said block being cut away



so that a side surface of the block will be co-planar with a side surface of said body adjacent one end of said recess, a clapper mounted in said recess, means for securing said clapper to said block adjacent the end of the recess opposite that end which is cut away at the corner, the free end of said clapper overlapping said cut away corner, and an actuator mounted to rotate against said co-planar body and block side surfaces and having points adapted to serially depress and release the clapper.

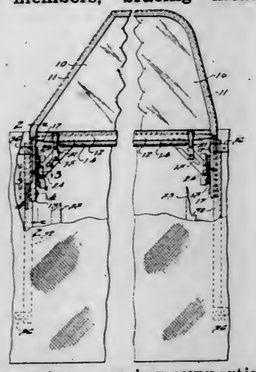
2,326,531
COLORING OF SYNTHETIC RESINOUS COMPOSITIONS
William Elliott Frew Gates, Welwyn Garden City, England, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Application December 10, 1941, Serial No. 422,330. In Great Britain January 8, 1941
7 Claims. (Cl. 18—55.1)

7. Method of preparing artificial teeth having a color gradation which comprises preparing a dough essentially composed of methyl methacrylate monomer and methyl methacrylate polymer, forming said dough into a sheet having a thickness at least equal to the height of a tooth, contacting one side of said sheet with a solution of a dyestuff dissolved in methyl methacrylate monomer until said solution has penetrated said sheet by diffusion an appreciable distance, slicing said sheet vertically into preforms, and molding said preforms into artificial teeth at an elevated temperature.

2,326,532
WINDOW CONSTRUCTION
Otto F. Graebner, Detroit, Mich., assignor to The Murray Corporation of America, Detroit, Mich., a corporation of Delaware
Application May 19, 1939, Serial No. 274,493
2 Claims. (Cl. 296—44.5)

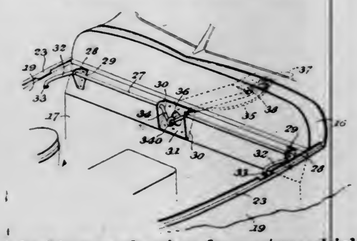
1. A window supporting device including, in combination, an inverted U-shaped frame encompassing a window pane, the ends of which project therebelow forming legs of inwardly presented channel shape having apertures in the webs thereof, a bracket secured to and projecting from the side flange of each of said legs, elements having a slot disposed laterally thereof pivoted to the flanges of each of said legs for

tilting and bodily movement toward and from the webs thereof, bevelled wheels pivoted near the ends of said elements in a position to project through the apertures of said webs, spring supporting members, bracing members, and



means for securing a spring supporting member and a bracing member to each of said brackets, and springs disposed between each of said element and spring supporting member for urging said element toward the webs of said legs.

2,326,533
MOTOR VEHICLE HOOD LOCKING CONSTRUCTION
James W. Greig, Grosse Pointe Park, Mich., assignor to Hudson Motor Car Company, Detroit, Mich., a corporation of Michigan
Application June 16, 1938, Serial No. 214,072
6 Claims. (Cl. 292—214)



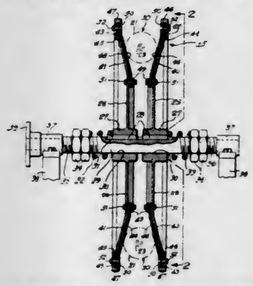
1. A locking mechanism for motor vehicle hood constructions having fixed side panels and a movable top panel, said mechanism including a cross shaft having a crank, spaced locking devices on said shaft and simultaneously operable thereby to engage the edges of the top panel and maintain it in closed position on the side panels, an operating member, and a resilient connection between said operating member and crank.

2,326,534
BATH TUB
Alfred H. Haberstump, Detroit, Mich., assignor to The Murray Corporation of America, Detroit, Mich., a corporation of Delaware
Application December 28, 1940, Serial No. 372,079
1 Claim. (Cl. 4—186)



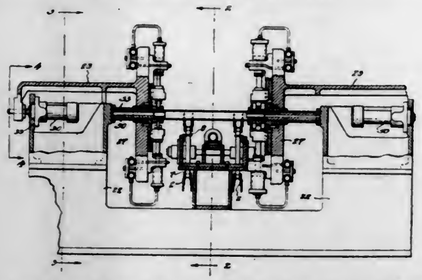
In a bath tub, a tub proper made from a single sheet of metal having a rolled edge and faucet and drain openings, and a set of four legs for said tub each of which are V-shaped in transverse cross section having flanges at the bottom and inner face and having a top flanged edge conforming to the contour of the tub at the point of engagement where they are welded to form a permanent unit construction.

2,326,535
CONVEYER
Henry W. Hapman, Detroit, Mich.
Application January 25, 1941, Serial No. 375,945
14 Claims. (Cl. 198—203)



1. In a conveyer system, conveyer supporting and driving means including a pulley having a relatively deep groove with rubber-like lining means in the groove thereof, a conveyer conduit, and an endless conveyer having closely spaced flights extending through said conduit and mounted in said pulley groove with the flights of the conveyer having substantially diametrically opposed portions in engagement with said lining means whereby a plurality of flights will be in driving contactual engagement with said lining means during a portion of its arcuate travel.

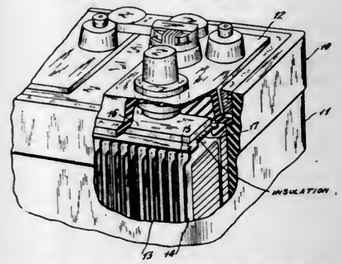
2,326,536
MACHINE FOR PIERCING TUBES
Guy M. Hartsock and Harold S. Rounds, Detroit, Mich., assignors to Mid-West Hydro-Pierce, Inc., Detroit, Mich., a corporation of Michigan
Application March 9, 1942, Serial No. 433,948
14 Claims. (Cl. 164—89)



1. A machine for piercing tubes comprising in combination a support, a mandrel mounted on said support adapted to fit within the tube for supporting the same while being pierced, said support being slidable relative to the tube for positioning the mandrel within the tube and for withdrawing the mandrel from the tube, said mandrel having a chamber therein and an opening extending through a wall of the mandrel, a piercing tool adapted to pierce the tube and pass through and be guided by the opening in the mandrel while piercing the tube, the said tool

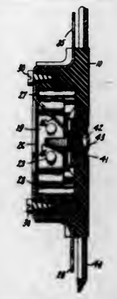
discharging the pierced out slug into the chamber of the mandrel, and an ejector operatable in the chamber of the mandrel for ejecting the slug from the mandrel.

2,326,537
STORAGE BATTERY
James R. Hill, Cleveland Heights, Ohio, assignor to Willard Storage Battery Company, Cleveland, Ohio, a corporation of West Virginia
Original application April 29, 1940, Serial No. 332,180, now Patent No. 2,287,802, dated June 30, 1942. Divided and this application December 11, 1941, Serial No. 422,527
1 Claim. (Cl. 136—134)



A storage battery comprising two sets of spaced plates arranged in alternate relation, each set of plates having a row of upstanding lugs thereon, a container for the plates, a cover for said container, connectors extending transversely of the plates below said cover and lead-burned to the lugs of the respective sets, said lugs being relatively short and the tops of said plates being close to the underside of said connectors, and two flexible insulating strips each underlying one of said connectors and having slots through which said lugs extend, each insulating strip lying on the tops of the plates of one set and serving to shield its connector from short-circuiting engagement by the tops of the plates of the other set.

2,326,538
RECEPTACLE FOR ELECTRIC WIRING SYSTEMS
Philip Hutt, Milford, Conn., assignor to General Electric Company, a corporation of New York
Application October 30, 1942, Serial No. 463,861
4 Claims. (Cl. 173—330)

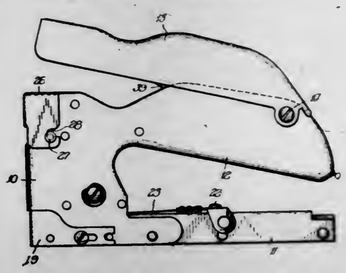


4. A duplex receptacle comprising an insulating base having a front portion with a central bore and a recessed back portion, contact means disposed in the recessed back portion, an insulating back plate with a recess engaging the back portion, and a supporting strap for holding the back plate in position and for supporting the receptacle on an outlet box, said strap having a section integrally formed therewith and bent forward into engagement with the front portion and having a threaded opening in alignment with said bore, a face plate enclosing the front portion having a central part extending across the front portion with an opening in alignment with the threaded opening, and a screw projecting through the openings for directly securing the face plate to said strap section.

2,326,539
POWDERED RESIN MANUFACTURE
Ernest Paul Irany, Shawinigan Falls, Quebec, Canada, assignor to Shawinigan Chemicals Limited, Montreal, Quebec, Canada, a corporation of Canada
No Drawing. Application April 29, 1940, Serial No. 332,378. In Canada March 23, 1940
11 Claims. (Cl. 260—73)

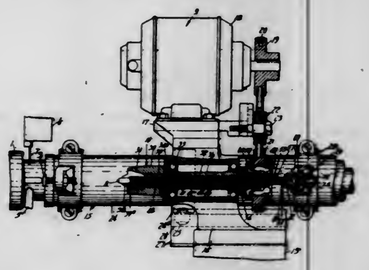
1. A method of producing a powdered thermoplastic comprising mixing boric acid with a thermoplastic material containing a plurality of aliphatic hydroxyl groups per molecule, reacting the boric acid with the material in the absence of a hydroxyl compound to produce a non-plastic brittle reaction product of the thermoplastic material with boric acid, said reaction product being capable of being ground to a powder having a fineness considerably greater than 40 mesh, powdering the chemical reaction product and treating the powdered chemical reaction product to recover the starting material as a fine dense powder substantially free from boric acid.

2,326,540
FASTENER DRIVING TOOL
Edward Krantz, deceased, late of Chicago, Ill., by Helen Krantz, administratrix, Chicago, Ill., assignor of one-half to Henry A. Torstenson, and one-half to Valentine Pearson, both of Chicago, Ill.
Application June 12, 1941, Serial No. 397,788
6 Claims. (Cl. 1—49)



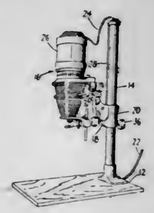
1. In a device of the character described, a body member adapted to be placed against the surface into which a fastener is to be driven, an operating handle on the body member adapted to be moved in the direction of said surface, a spring actuated driving member, a connection between the handle and the driving member for first elevating the driving member and then releasing the same when the handle is moved in said direction, and resiliently yieldable means for resisting movement of the handle in said direction just prior to the driving member being released, whereby to insure the body member being pressed firmly against said surface at the instant the fastener is driven, said means remaining inactive during all but the latter part of the movement of the operating handle.

2,326,541
MACHINE TOOL
Raymond L. Kuehn, Hartford, Conn., assignor to The Billings & Spencer Company, a corporation of Connecticut
Application December 16, 1940, Serial No. 370,342
21 Claims. (Cl. 29—37)



1. In a work gripping and rotating mechanism, a constantly rotating reciprocable collet carrier, a collet thereon for gripping and releasing the work in different operative positions of said collet, and mechanism for controlling the operation of said collet including means biasing said collet into one operative position and latch means for holding the collet against said biasing means to maintain said collet in the other operative position.

2,326,542
PHOTOGRAPHIC ENLARGER
Anthon A. Leonard, Glenside, Pa., assignor to De Jur-Amsco Corporation, Shelton, Conn., a corporation of New York
Application February 12, 1941, Serial No. 378,493
12 Claims. (Cl. 248—124)

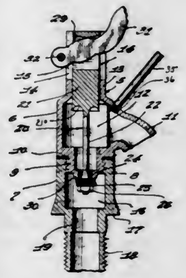


1. Supporting structure for an enlarger head, said supporting structure comprising a base, a cylindrical column extending upwardly from said base, a support arm for said head movable axially and rotatably on said column, balance means for counterbalancing the weight of the head, said balance means including a flexible cord extending between said support arm and a cap at the top of said column, said cap being arranged concentrically with said column and having a horizontal wall over the upper end of the column, a stationary inner bearing fixedly inserted in the upper end of the column and having a horizontal top wall, mating ball bearing raceways formed in the bottom of the horizontal wall of the cap, and on the top of the horizontal wall of the inner bearing, the diameter of said raceways being substantial and being nearly as large as that of the column, and a race of balls disposed between said raceways.

2,326,543
METHYL METHACRYLATE MOLDING COMPOSITION
Maurice L. Macht, Jersey City, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application July 27, 1940, Serial No. 348,029
2 Claims. (Cl. 260—42)

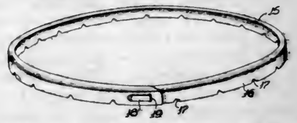
1. A molding composition which comprises a homogeneous mixture of 100 parts of a copolymer of methyl methacrylate with up to about 33% of its weight of a compound from the group consisting of styrene and vinyl acetate, and from 33–300 parts of a polyvinyl acetal resin.

2,326,544
FLOAT VALVE
Steve L. Martin, Menard, Tex.
Application January 15, 1941, Serial No. 374,553
1 Claim. (Cl. 137—104)



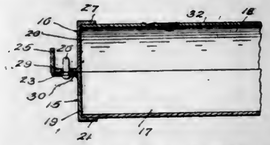
A float valve comprising a body having upper and lower sections, the upper section being hollow to provide an upper valve chamber and having its upper portion constricted to form a neck extending upwardly from the valve chamber, a spout extending laterally from said chamber, an externally threaded nipple extending downwardly from the valve chamber and formed with a valve seat at its lower end, the lower section being hollow to form a lower valve chamber formed with a lower inlet and having its upper end screwed upon the threaded nipple of the upper section, a solid plunger slidable longitudinally in said neck and having its upper portion formed with a transverse slot registering with opposed slots in the neck and its lower portion cut away to form a reduced stem extending downwardly through the upper chamber and nipple and into the lower chamber, the slot of the plunger having a flat lower wall and a substantially V-shaped upper wall, a float lever pivoted at one end to the neck and passing through the registering slots of the neck and the plunger and formed with arcuate upper and lower edges for engaging the upper and lower walls of the slot in the plunger and shifting the plunger longitudinally through the neck, the lower end face of the plunger at its junction with the stem being concave to form an annular recess entirely surrounding the upper end of the stem and disposed within and spaced from the side walls of the upper chamber, a valve disc fitting about the lower end portion of the stem within the lower chamber, and a nut threaded upon the lower end of the stem and engaging the valve disc to removably hold the disc in place in position for seating against the valve seat when the plunger and the stem are shifted upwardly by the float lever.

2,326,545
SEALING RING
Vern I. McCarthy, Maywood, Ill., assignor to Vulcan Stamping & Mfg. Co., Bellwood, Ill., a corporation of Illinois
Application November 25, 1940, Serial No. 366,965
2 Claims. (Cl. 220—61)



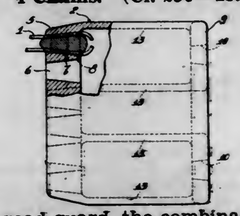
1. A sealing ring for clamping a flanged cover to a bead encircling the open end of a metal container, said ring being formed from a strip of metal bent into generally circular configuration with the respective ends in overlapping relation and shaped to provide flange and bead engaging portions, means providing a breakable connection between the ends of the strip comprising a tongue projecting from the inner end of the strip through a slot in the outer end of the strip and extending closely adjacent the outer surface thereof, a weld securing the end portion of the tongue to the outer end of the strip at a point spaced from said slot to provide for the insertion of a tool between the tongue and the ring, a portion of the tongue adjacent said slot being weakened by transverse indentations on its inner surface arranged to cause the tongue to break off squarely upon application of the tool thereto.

2,326,546
BAKING PAN
Jesse D. McDonald, Enid, Okla., assignor of one-third to John E. Thomas, Enid, Okla.
Application November 10, 1941, Serial No. 418,567
2 Claims. (Cl. 53—6)



1. In a baking pan, a lower section comprising two straight parallel vertically widened horizontally extending side bars having their upper longitudinal edge portions bent horizontally outward to provide them with straight longitudinal horizontal flanges, and semi-tubular upwardly open pans extending between and secured to said side bars and having their ends closed thereby; a cover section comprising two parallel vertically widened horizontally extending side bars having their lower longitudinal edge portions bent horizontally outward to provide them with straight longitudinal horizontal flanges, and semi-tubular downwardly open pan covers extending between and secured to said cover section side bars and having their ends closed thereby, said straight horizontal flanges of said cover section resting upon said straight horizontal flanges of said lower section; the two of said straight horizontal flanges on one of said sections being each provided with a straight integral vertical longitudinal flange on its outer edge to abut the longitudinal outer edge of the adjacent one of said straight horizontal flanges on the other of said sections to properly position said cover section transversely of said lower section, said vertical and horizontal flanges terminating in exposed end surfaces facing longitudinally away from the ends of the pan, whereby said cover section may be initially engaged with said lower section without regard to longitudinal accuracy and may then be longitudinally slid to proper position, at least one of said horizontal flanges of said lower section and the overlying horizontal flange of said cover section having coacting gravity-engaged means for arresting said sliding of said cover section when it has reached said proper position and for then holding said cover section against sliding in either direction.

2,326,547
ROAD GUARD
Arthur E. McNabb, Monessen, Pa., assignor to Pittsburgh Steel Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application November 7, 1940, Serial No. 364,655
4 Claims. (Cl. 256—13.1)



1. In a road guard, the combination of a band comprising a plurality of spaced parallel wires, an anchor comprising a plate provided at one end with a boss having a plurality of wire-receiving openings the side walls of each of which converge towards the edge of said plate, the ends of a pair of adjacent wires of said band being positioned in each of said openings in contact with the opposite sides thereof, a wedge binding said wires in each opening, said openings being spaced and formed to receive said wires in their parallel position, the opposite end of said plate provided with lugs having eyes to receive anchor rods, and a plurality of strengthening ribs on said plate extending longitudinally thereof from said lugs to said boss and lying in interspaced relation with the openings of said boss.

2,326,548
PROTECTOR FOR PLANTS AND THE LIKE
Augustus Mierson, San Francisco, Calif.
Application February 2, 1942, Serial No. 429,250
8 Claims. (Cl. 47—28)

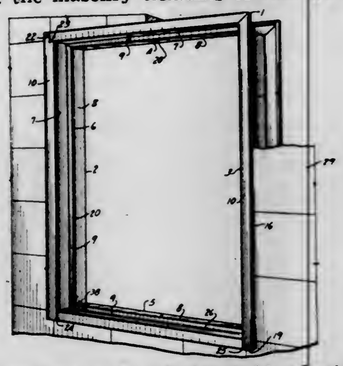


1. A protective cover for plants and the like, comprising a frame, a transparent wall on the frame, means to locate the frame on the borders of a surface to be protected, and means to selectively hold said locating means in abutment position within the frame and in extended ground engaging position.

2,326,549
FRAME FOR WALL OPENINGS
Edgar P. Miller, Kansas City, Mo.
Application November 29, 1940, Serial No. 367,511
4 Claims. (Cl. 189—75)

1. A frame for the opening of a masonry wall

adapted to be plastered on at least one side including, side jambs of channel-like cross-section to form a jamb portion and casing portions spaced from the wall a distance substantially equal to the thickness of the plaster, and inwardly extending flanges on the casing portions to engage the masonry elements of said wall, said



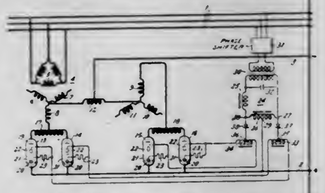
casing portions on the plastered side of said wall having plaster ground portions extending directly from said jamb and adapted to lie in the plane of the finished surface of the plaster to form a ground for gauging thickness of said plaster applied to the wall.

2,326,550

ELECTRIC VALVE TRANSLATING CIRCUITS

Albert H. Mittag, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application October 1, 1941, Serial No. 413,231
5 Claims. (Cl. 175—363)



1. In combination, an alternating current circuit, a direct current load circuit, electric translating apparatus connected between said circuits and comprising a pair of electrically displaced phase windings and two pairs of electric valve means each associated with a different one of said phase windings, current dividing means connected between each pair of electric valve means and the associated phase winding, said electric valve means each being provided with a control member for controlling the conductivity thereof, an excitation means for energizing the control members for causing the electric valve means in each pair to conduct current in parallel and for causing the pairs of electric valve means to conduct current during intervals of time displaced 180 electrical degrees and including means for producing a periodic voltage having symmetrical peaks displaced 180 electrical degrees and comprising a saturable inductive reactance comprising a winding connected in series relation with an impedance element provided with terminal connections and a connection electrically intermediate the terminal connections, said intermediate connection being connected to one terminal of said direct current circuit, and individual means connected between each of said terminal connections and the control members of a different one of the pairs of electric valve means for supplying impulses of current simultaneously to the electric valve means in the respective pairs.

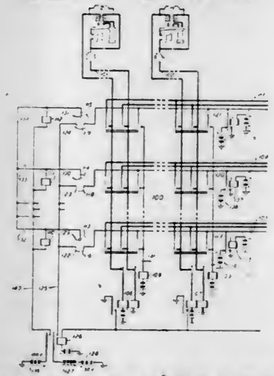
4. In combination, an alternating current circuit, a direct current circuit, electric translating apparatus connected between said circuits and comprising a pair of electric valve means, said electric valve means each comprising an anode, a cathode, an immersion-ignitor type control member and a relieving anode, excitation means for producing a periodic voltage of peaked wave form and comprising a saturable inductive reactance, a current dividing reactance connected to the control members, a unidirectional conducting device connected between said excitation means and said current dividing reactor, and a second current dividing reactor connected between said excitation means and the relieving anodes.

2,326,551

SELECTING SYSTEM

Milton E. Mohr, Jamaica, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application February 8, 1941, Serial No. 377,998
14 Claims. (Cl. 179—18)



1. In combination, a plurality of selectable circuits, discharge devices individual respectively to said circuits, means for applying a potential to all of said devices to cause any one of them to discharge, means responsive to the current flowing in the discharged device for selecting the corresponding circuit for use, and inductive means responsive to the discharged device for changing the potential on the other discharge devices to prevent the discharge of a second one thereof.

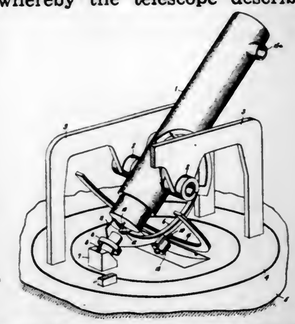
2,326,552

ASTRONOMICAL TELESCOPE

Harold F. Morse, Southport, Conn., assignor to General Electric Company, a corporation of New York

Application July 16, 1941, Serial No. 402,611
8 Claims. (Cl. 88—32)

1. In an astronomical telescope, a carrier rotatable on a vertical axis, a telescope on the carrier supported thereon for rotation on a horizontal axis intersecting said vertical axis, an azimuth circle having its center at the intersection of said horizontal and vertical axes, means supporting the circle for rotation on a diametral axis, and means for constraining the line of sight of the telescope in fixed relation to a point on the circle whereby the telescope describes an arc



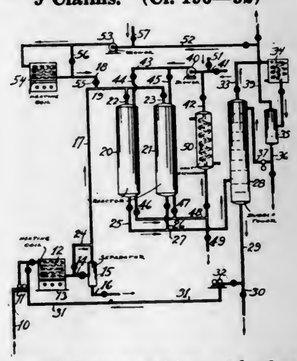
about said diametral axis upon rotation of the circle.

2,326,553

CONVERSION OF HYDROCARBONS

John C. Munday, Baton Rouge, La., assignor to Standard Oil Development Company, a corporation of Delaware

Application August 26, 1939, Serial No. 292,025
9 Claims. (Cl. 196—52)



5. In the catalytic cracking of hydrocarbon oil wherein the oil in vapor form is passed through a reaction zone containing a cracking catalyst maintained at a temperature sufficient to crack said oil, the oil vapors maintained in contact with said catalyst for a period sufficient to effect the substantial cracking thereof, the cracked products thereafter fractionated to separate a desired distillate product and a normally gaseous fraction therefrom and wherein the activity of the catalyst depreciates as the length of the cracking period increases; a method controlling the amount of cracking throughout the cracking period which comprises combining with the oil vapor to be cracked prior to passing to the reaction zone a diluent gas in an amount sufficient to maintain the degree of cracking at a predetermined maximum at the start of the cracking operation, thereafter reducing the volume of diluent gases combined with said hydrocarbon vapors to maintain the degree of cracking at said predetermined maximum.

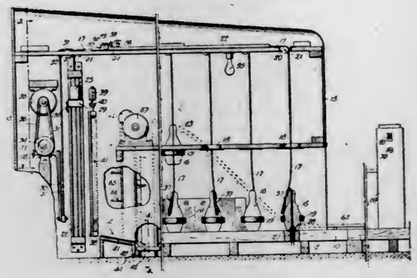
2,326,554

BOWLING ALLEY

Forrest Nall, Mission, Kans.

Application January 2, 1942, Serial No. 425,403
9 Claims. (Cl. 273—44)

1. In a bowling alley, bowling pins, cords attached to the pins, weights carried by the cords, a movable lift bar supporting the weights, a catch member carried by each of the cords, a latch for each of the catch members, and means rendered



operative by movement of said lift bar for simultaneously disengaging all of said latches from the catch members.

2,326,555

VULCANIZATION OF RUBBER

Arthur M. Neal, Wilmington, Del., and Bernard M. Sturgis, Pitman, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application November 14, 1940, Serial No. 365,608
22 Claims. (Cl. 260—785)

1. Rubber, having incorporated therein prior to vulcanization, a small proportion of a vulcanization accelerator of the group consisting of 2-mercapto-thiazoline, C-alkyl 2-mercapto-thiazolines, C-hydroxyalkyl 2-mercapto-thiazolines and metal salts of such 2-mercapto-thiazolines in which all of the valences of the metals are satisfied by 2-thio-thiazoline radicals, and a small proportion of an unsubstituted aliphatic monocarboxylic acid of from 10 to 20 carbon atoms and a small proportion of an activator of the group consisting of unsubstituted aromatic monocarboxylic acids, unsubstituted aromatic dicarboxylic acids, sulfur-free aromatic monocarboxylic acids containing one non-hydrocarbon substituent, and anhydrides of such acids.

2,326,556

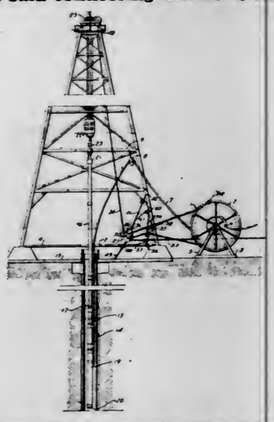
DEVICE FOR SPOOLING REDA AND LIKE CABLE

Borger L. Opsal, Oklahoma City, Okla., assignor, by direct and mesne assignments, of one-half to Cities Service Oil Company, Bartlesville, Okla., a corporation of Delaware

Application August 22, 1940, Serial No. 353,602
6 Claims. (Cl. 254—135)

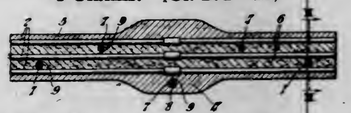
2. In an apparatus of the character described comprising a derrick arranged over a well having tubing therein and a cable engaged with said tubing exteriorly thereof, a pulling line engageable with said tubing for removing the same from the well, means for actuating said pulling line, a reel for said cable, a pulley block having a pulley engaged with said pulling line and rotatable in response to movement thereof, said pulley block having a cathead connected to said pulley, means connecting said cathead and reel for driving said reel in response to movement of said pulling line, a snatch-block frictionally engageable with said connecting means, and

means for moving said snatch-block toward and away from said connecting means to adjust said



connecting means for varying the drive of said pulling line relative to said reel.

2,326,557
ELECTRIC CABLE
Walter T. Peirce, Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
Application September 13, 1941, Serial No. 410,770
3 Claims. (Cl. 174—11)



1. In an electric cable of the class described into which a fluid dielectric is introduced under high positive pressure for improving the electrical transmission characteristics thereof, an insulated electrical conductor having an outer sheathing arranged therearound so as to provide a space between the conductor and the sheathing, an electrical circuit including a plurality of pressure responsive devices arranged within the cable in the space between the insulated conductor and the sheathing, said pressure responsive devices arranged at spaced apart intervals and in staggered relation throughout the length of the cable, a pair of pilot wires arranged substantially parallel to the conductor in the space between the same and the sheathing interconnecting said pressure responsive devices, a substantially solid insulation arranged in the space between the conductor and the sheathing for supporting and positioning said responsive devices together with said pilot wires therein, and a signaling mechanism arranged in said electrical circuit with said responsive devices whereby said signaling mechanism is actuated by said pressure responsive devices when the fluid pressure is abnormal in that portion of the cable where any particular responsive device is located.

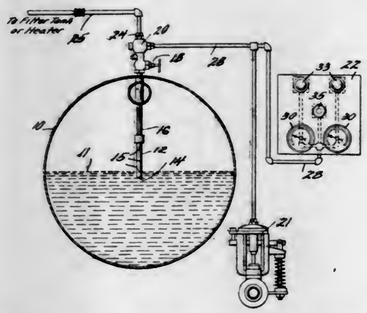
2,326,558
SPRING CLIP
Alfred E. Pelz, Mount Lebanon, Pa., assignor to E. A. Myers & Sons, Pittsburgh, Pa., a partnership consisting of Edward A. Myers, Edwin J. Myers, and Samuel F. Lybarger
Application March 9, 1943, Serial No. 476,506
14 Claims. (Cl. 24—3)

1. A hearing aid microphone unit comprising a case, a clothing clip, a leaf spring spacing the upper end of the clip from the case and urging its lower end toward the case, said spring having spaced arms joined at one end by a resilient por-



tion, one of said arms being joined to the clip and the other arm being joined to the case, said spring being the sole means for connecting the clip to the case.

2,326,559
ALARM MECHANISM
William E. Proctor, Baltimore, Md.
Application March 20, 1941, Serial No. 384,386
8 Claims. (Cl. 122—451)

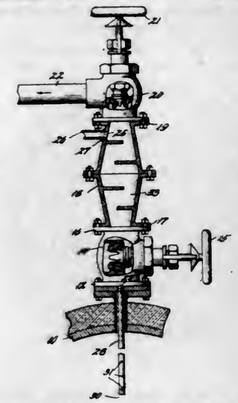


1. In a marine boiler regulator, a pressure transmitting device responsive to the water level in the boiler, an instrument board located at a distance from the boiler and said device, means including a column of liquid connecting the instrument board with said device, a visible indicator and an audible indicator on said board, pressure switches for operating the indicators at different pressures, whereby changes in pressure in the device as the water level in the boiler fluctuates are transmitted hydraulically from the device to the board and one indicator will be operated at one water level and the other will operate at a different water level.

2,326,560
MARINE BOILER REGULATOR
William E. Proctor, Baltimore, Md.
Application March 21, 1941, Serial No. 384,564
2 Claims. (Cl. 73—290)

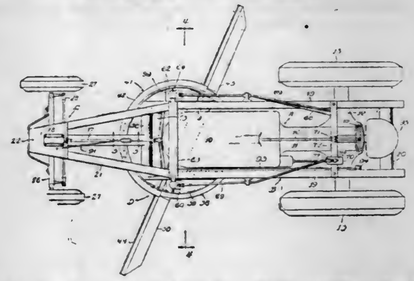
1. In combination, a sampling pipe adapted to extend radially and vertically into a marine boiler to a point just below the normal water level, a passage leading from the pipe and including a flow chamber having a throttling valve at each end thereof, and a control opening in said chamber between the valves for connection to a suitable control device, whereby the device is governed by changes in the water level of the

boiler as reflected by change in pressure differential between the two throttling valves because



of changes in the wetness of the steam passing through the chamber.

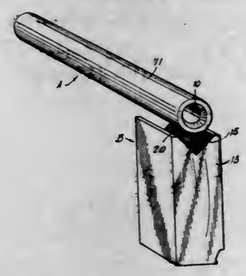
2,326,561
ROAD WORKING MACHINE
Vernon H. Reisser, Omaha, Nebr.
Application February 17, 1941, Serial No. 379,181
12 Claims. (Cl. 37—156)



11. In a road machine, supporting traction means, a frame projecting forwardly therefrom, a power plant supported in said frame and having a forward region depending below the frame and disposed forwardly of said traction means, a road working implement, a circle on which said implement is mounted for pivotal adjustment, said circle having a gap receiving said depending forward region of the power plant, the side regions of the circle which define said gap being accommodated in the spaces lying forwardly of said traction means, beneath said frame, and on either side of said power plant and means on which said circle is mounted for vertical adjustment to a plane above the bottom of said power plant.

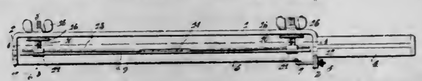
2,326,562
PRECISION SQUARE
Philip J. Bensen, Philadelphia, Pa.
Application February 19, 1941, Serial No. 379,591
3 Claims. (Cl. 33—112)

2. A precision square, comprising a base having inner and outer parallel gauging faces and being formed with a V-shaped notch extending between said faces, said notch being defined by a pair of complemental flat faces in angular relation to each other, a cylindrical gauging leg arranged in transverse relation to said gauging faces and having a part received in said notch and means for securing said gauging leg to said base with



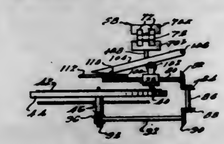
that portion of the leg received in said notch firmly held against the faces of said notch.

2,326,563
ADJUSTABLE SLICING KNIFE
Louis H. Rezos, Arlington, Va.
Application October 8, 1940, Serial No. 360,327
4 Claims. (Cl. 30—283)



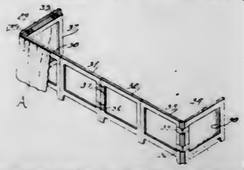
1. A slicing knife comprising an elongated frame having longitudinally spaced inturned arms, a blade extending lengthwise of the frame between the arms and supported thereby, said blade having opposite cutting edges, a guard of greater width than the blade and extending laterally outside the cutting edges of the blade substantially parallel therewith, bolts connected with opposite end portions of the guard and adjustably connected with the frame for supporting the guard therefrom and for bodily adjusting said guard toward and from the blade, said guard having transverse slots therein slidably connected with the bolts for transverse sliding movement of the guard relative to the blade, and a leaf spring connected between the bolts and the guard tending to move said guard to a central position relative to the blade.

2,326,564
SOUND RECORDING APPARATUS
Edward F. Rigby, Detroit, and Carroll E. Leedy, Birmingham, Mich.
Application September 14, 1942, Serial No. 458,234
7 Claims. (Cl. 179—100.4)



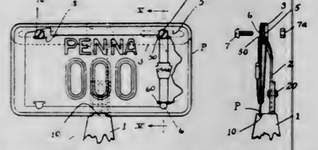
1. In a record cutting apparatus of the type including amplifying mechanism having proper terminations and an electrically responsive cutting needle controlled thereby, the combination with said proper terminations of an electrical network interconnecting the same and including shunt elements comprising a variable inductor and a fixed resistance, said variable inductance comprising a coil and a closed core of magnetic material removable from material influences of said coil.

2,326,565
CATAFALQUE
Walter L. Ripley, Strasburg, Va., assignor to Draperies, Incorporated, Strasburg, Va., a corporation of Virginia
Application July 7, 1942, Serial No. 450,041
1 Claim. (Cl. 248—166)



A casket supporting device comprising a plurality of panels successively hinged together to swing horizontally and having end panels, panels hinged to and located on the inner side of said end panels for swinging vertically, latches on the free ends of the vertically swinging panels, latching elements on the intermediate panels coacting with the latches of the vertically swinging panels for holding the panels rigid when adjusted to form a casket support, and drapery covering the said panels.

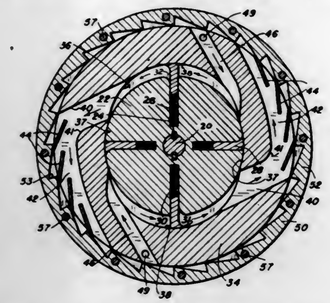
2,326,566
AUTOMOBILE LICENSE PLATE
William H. Ritchie, Chicago, Ill., assignor of one-half to Jessie H. Ritchie, Pittsburgh, Pa.
Application October 2, 1941, Serial No. 413,343
1 Claim. (Cl. 40—125)



An automobile license plate assembly comprising a plate-supporting bracket, an indicia-bearing plate, the bodies of both said bracket and said plate being perforated, a bolt projected through the perforations and tightened to secure the plate to the bracket, said plate including a second perforation spaced from the bolt-receiving perforation therein, a ribbon of metal threaded through the bolt-receiving perforations in said bracket and said plate and through said second perforation in the plate, said ribbon extending in uninterrupted continuity on the back of said plate, and a sealing device uniting the ends of the ribbon on the front of the plate, said assembled ribbon and sealing device carrying supplemental indicia visible on the front of the plate in common with the indicia immediately borne by the plate.

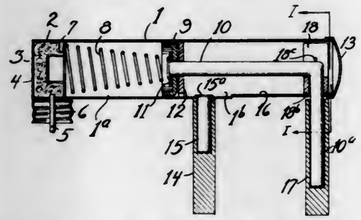
2,326,567
DRIVE MEANS FOR PROPELLER DRIVEN CRAFT
Lemma J. Root, Bothell, Wash.
Application June 4, 1941, Serial No. 396,575
2 Claims. (Cl. 60—54)

1. A fluid torque transmission mechanism adapted to be coupled between a power plant and shaft to be driven thereby and comprising a driven rotor whose outer face forms the inner periphery of a plurality of pump chambers, a plurality of radially extendable vanes on said rotor, a free floating ring member mounted for rotation about the axis of said rotor and having inner eccentric cut out portions forming pump chambers in which said vanes may extend outwardly from said rotor, said ring member having fluid passages extending from said chambers to the outer face thereof, a casing enclosing said



rotor and said ring member and having a plurality of turbine cups around the inner periphery adapted to be acted upon by fluid exhausted from the pump chambers of said ring member.

2,326,568
SPRAYER DEVICE
William H. Rose, Jersey City, N. J., assignor to Stanco Incorporated
Application June 21, 1940, Serial No. 341,687
4 Claims. (Cl. 230—218)

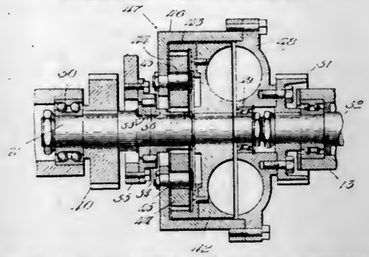


1. A device of the character described, comprising a tubular pump barrel, a plunger and plunger rod reciprocally movable in said barrel, a barrel hand-grip member in fixed radial relation to the barrel, a plunger rod hand-grip member, having a receiver bore in its upper end, link means connecting said barrel and plunger rod hand-grip members, the latter pivotally movable on said link substantially into abutment with the former, a rod link slidably disposed in said receiver bore, and at its upper end pivotally engaging the plunger rod, barrel guide means for said rod, and spring means, to retract the rod from a forward position, normally maintaining the respective hand-grip members in spaced relation.

2,326,569
PHENOLIC MOLDING COMPOSITION
Fritz Rosenthal, Knoxville, Tenn., assignor to The University of Tennessee Research Corporation, Knoxville, Tenn., a corporation of Tennessee
No Drawing. Application April 19, 1941, Serial No. 389,465
6 Claims. (Cl. 260—9)

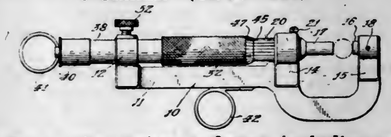
1. A molding composition comprising a phenol-formaldehyde resin, a filler for said resin consisting of comminuted cottonseed hull bran and hull fiber, said hull fiber constituting up to 20% of said filler.

2,326,570
HYDRAULIC TRANSMISSION
Robert M. Schaefer and Wilbur F. Shurts, Racine, Wis., assignors to Twin Disc Clutch Company, Racine, Wis., a corporation of Wisconsin
Application August 6, 1941, Serial No. 405,690
8 Claims. (Cl. 74—189.5)



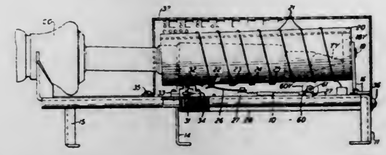
1. A hydraulic transmission for connecting a source of power and a load comprising a shaft, an impeller secured to the shaft, an internal gear rotatable with the impeller, a runner having a shell surrounding the impeller and gear, the impeller and runner constituting the hydraulic portion of the transmission, planet pinions meshing with the gear and rotatably connected to the shell, a gear freely journaled on the shaft in mesh with the pinions, and a one-way brake connection between the last named gear and a fixed part of the transmission whereby the drive is automatically shifted from the gear to the hydraulic portion at a predetermined speed of the source.

2,326,571
OUTSIDE MICROMETER
William A. Semerak, Chicago, Ill.
Application March 10, 1942, Serial No. 434,082
6 Claims. (Cl. 33—143)



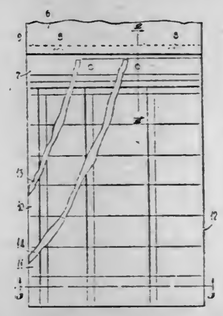
1. In a micrometer, a frame including a U-shaped portion, a pair of cooperating measuring pins carried by the respective arms of said U-shaped portion, one of said pins being fixed and the other being movable toward and away from the fixed pin, a tubular element fixedly mounted on said frame in substantially central alignment with said movable pin, a main operating body structure mounted and supported at its forward end for axial movement in said tubular element and operably connected at the forward end to said other measuring pin, and a sleeve carried by and movable with said body structure and disposed in telescopic relation to said tubular element, said sleeve having threaded connection to said body structure for rotative adjustment thereon, said sleeve and tubular element being provided with cooperating graduated scale and index features, whereby said main operating structure and sleeve together with said other pin may be freely shifted, in axial direction as a unit, to embrace an object between said pins and permit obtaining an instantaneous rough calibration of the object, said sleeve and tubular element being provided with a second set of cooperating graduated scale and index features, which together with the first mentioned set of said features permits obtaining relatively exact calibraton of the object.

2,326,572
HOLDER FOR ELECTRICALLY HEATED TOOLS
Amos H. Shangle, Roselle, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 1, 1942, Serial No. 449,270
2 Claims. (Cl. 219—23)



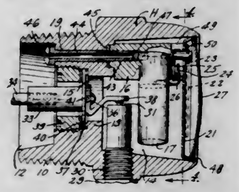
1. In a holder for an electrically heated tool, an energizing circuit for the tool, a supporting plate, a metallic tubing pivoted at one end to said plate for receiving the electrically heated tool, a sleeve of insulating material mounted on said metallic tubing, a heater element carried by said sleeve connected in shunt to the energizing circuit of the tool, and having contact points, an adjustable wiper for engaging said contact points for controlling the operation of said heater element, a pair of contact elements insulatedly mounted on said plate, a bridge piece carried by said sleeve, a spring disposed between said plate and said bridge piece for engaging said bridge piece with said contact elements simultaneously to close the energizing circuit of the tool and limiting the pivotal movement of said tubing relative to said base upon the removal of the tool therefrom.

2,326,573
LABOR SAVING REPORT PAD
Ward Shaver, Tulsa, Okla., assignor to Skelly Oil Company, Tulsa, Okla., a corporation of Delaware
Application December 29, 1941, Serial No. 424,828
8 Claims. (Cl. 282—10)



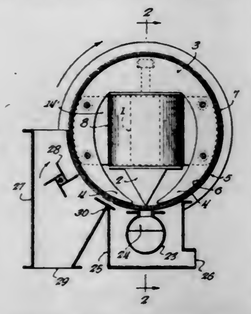
7. A record pad comprising a series of record sheets securely fastened together near an edge of the pad, removable record sheets arranged in the pad between the securely fastened sheets to form sets of record sheets, each removable sheet being of a less dimension in one direction than the securely fastened sheets, all of said sheets being secured together at another edge of the pad by an adhesive, a sheet of carbon paper arranged between a pair of the removable sheets, and a sheet of carbon paper arranged between one of the securely fastened sheets and one of the removable sheets.

2,326,574
PRESSURE GAUGE FOR USE WITH AIR VOLUME CONTROLS
Burton E. Shaw, Bristol, Ind., assignor to Penn Electric Switch Co., Goshen, Ind., a corporation of Iowa
Application October 23, 1939, Serial No. 300,815
3 Claims. (Cl. 73—109)



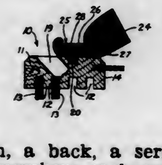
2. In a structure of the kind disclosed, a housing having means on one end portion thereof for pneumatic connection with the interior of a tank, said housing having a recess forming a chamber in the other end portion thereof, a partition in said housing between said end portions, a dial plate spanning said recess, gauge mechanism having means responsive to pressure and provided with a mounting boss within said chamber back of said dial plate, and means for communicating pressure from said first end portion of said housing through said partition to the pressure responsive means comprising a tubular screw through said partition and entering said mounting boss, said mounting boss having a passageway affording communication between said screw and the pressure responsive means.

2,326,575
MAGNETIC SEPARATOR
Roswell H. Stearns, Wauwatosa, Wis., assignor to Stearns Magnetic Mfg. Co., Milwaukee, Wis., a corporation of Wisconsin
Application April 10, 1939, Serial No. 267,113
6 Claims. (Cl. 209—219)



3. A magnetic separator comprising a revolubly mounted drum of non-magnetic material having a layer of magnetic wire wound thereon in successive convolutions without spacing, tightly on the outer side of said drum, which convolutions approximately lie in planes substantially at right angles to the axis of the drum, an electromagnet located within said drum and having pole tips adjacent each other and closely adjacent the inner periphery of the drum and providing a gap between the pole tips extending substantially parallel to the axis of the drum, means for rotating said drum, means for feeding material to said drum, and dividing means adjacent said drum, the arrangement of magnetic wires and pole tips preventing axial shifting of magnetic material clinging to said drum while said drum is being rotated and providing a concentrated, relatively narrow magnetic zone extending substantially axially of said drum.

2,326,576
BRUSH AND BROOM
Samuel Steinmetz, Bridgeport, Conn.
Application March 7, 1940, Serial No. 322,653
2 Claims. (Cl. 15—244)



1. In a brush, a back, a series of brushing members, said members each comprising a vulcanized strip of laminated material including layers of rubber gum and layers of cords, said layers of cords arranged with the cords of one layer transverse of those of the adjacent layer, means securing a longitudinal edge of each of said members to said back, said members slit transversely inwardly from their opposite longitudinal edges whereby such opposite edge portions comprise relatively movable teeth-like portions, and said teeth-like portions being curled out of the planes of the portions of the members by which they are carried by chemical treatment of said members.

2,326,577
REMOVAL OF MUD CAKE IN CASING CEMENT JOBS
James U. Teague, New Orleans, La., and George E. Cannon, Houston, Tex., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Original application September 27, 1939, Serial No. 296,734. Divided and this application January 1, 1943, Serial No. 471,022
2 Claims. (Cl. 166—22)

1. In the cementing of casing in a bore hole the step of using cement slurry mixed with sand.

2,326,578
THERAPEUTIC PRODUCT AND PROCESS OF MAKING IT
Urbain J. Thuau, Paris, France, assignor to Eli Lilly and Company, Indianapolis, Ind., a corporation of Indiana
No Drawing. Application November 22, 1939, Serial No. 305,655. In France August 31, 1939
14 Claims. (Cl. 260—512)

7. The reaction product of substantially pure metacresolsulfonic acid and an aldehyde.

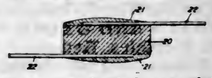
2,326,579
FASTENER
George A. Tinnerman, Cleveland, Ohio, assignor to Tinnerman Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application March 25, 1940, Serial No. 325,857
5 Claims. (Cl. 85—32)

1. A fastener for a stud projecting from an article to be secured through a supporting member comprising a single piece of sheet material bent to provide an arm engaging the inner surface of the support and a second arm integrally connected with the first arm and spaced inwardly therefrom and at an acute angle thereto, the first arm which engages the support being spaced



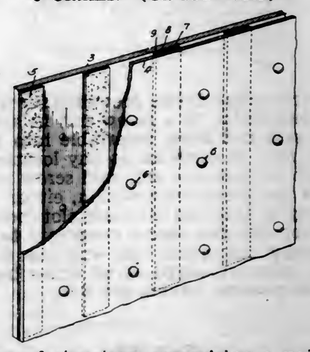
from the stud to allow its free passage beyond the arm and the second arm having stud-engaging means coacting with said stud.

2,326,580
RESISTANCE MATERIAL
Charles H. Trenkle, Ridgewood, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application March 27, 1942, Serial No. 436,471
8 Claims. (Cl. 201—76)



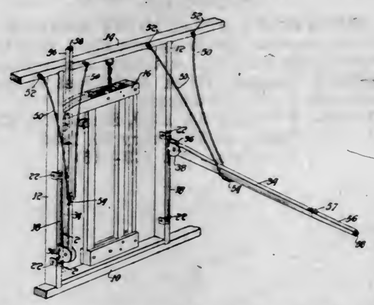
1. A resistance material consisting of intimately mixed, collectively heat treated oxides of manganese, cobalt, nickel and copper in which the metallic elements are present in amounts according to the order given, the amount of manganese being the greatest and of the order of more than about one-half and the amount of copper being less than approximately one-sixth of the total metallic elements present.

2,326,581
PANEL STRUCTURE
Felix Van Cleef, Chicago, Ill., assignor to Van Cleef Bros., Chicago, Ill., a partnership composed of Noah Van Cleef, Felix Van Cleef, and Paul Van Cleef
Application March 4, 1940, Serial No. 322,175
6 Claims. (Cl. 154—45.9)



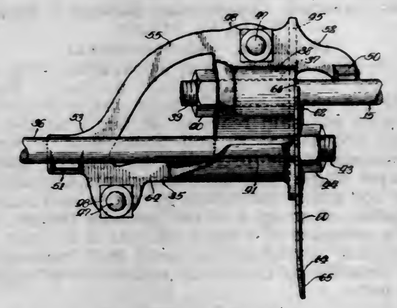
1. A panel structure comprising a pair of opposed spaced apart cross-connected panels, and a spacer piece clamped between the two panels and embodying a body part formed of comparatively thick flannel and having one face thereof napped and in direct abutment with the inner face of one of the panels and its other face unnapped, an intermediate coating of resilient impervious material covering, and joined to, the unnapped face of the body part, and a thin adhesive coating covering, and joined to, the intermediate coating and in contact and connected relation with the inner face of the other panel.

2,326,582
STALL PARTITION
Frank J. Van Cott and Leon J. Van Cott, Unadilla, N. Y.
Application February 19, 1940, Serial No. 319,730
6 Claims. (Cl. 119—15)



1. A construction for a stall partition including support means, a guide rod supported in vertical position on said support means, a U-shaped member extending loosely around said rod, stop means limiting upward movement of said U-shaped member on said rod, a partition member pivotally supported between the legs of said U-shaped member, and a yoke, the ends of said yoke being pivotally secured to said support means at horizontally spaced points above said guide rod and the midpoint of said yoke being attached to said partition member.

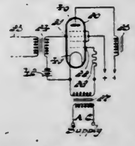
2,326,583
SILO DOOR FITTING
Frank J. Van Cott and Leon J. Van Cott, Unadilla, N. Y.
Application September 29, 1941, Serial No. 412,833
13 Claims. (Cl. 20—1.4)



1. In a silo structure, a door fitting comprising a body having an aperture for reception of a circumferential tie rod, a relatively flat connecting portion for the outside wall of the silo having extensions overlying a door jamb member and an adjacent stave member and securing means for attaching the body to the silo, a lug on one of said extensions spaced laterally from said aperture positioned for contact with said circumferential tie rod, said body having a recess parallel to said aperture and spaced therefrom in a vertical direction for reception of a silo door-front rod and a lug on the other extension spaced laterally from the recess and positioned for contact with the door-front rod on the side opposite from the corresponding contact location of said first lug with the circumferential tie rod, said lugs engaging the respective rods to minimize resistance to potential twisting of the fitting about a

horizontal axis and a flange on the side of said body adjacent the silo extending part way into the silo wall adjacent the door jamb member, said flange providing resistance to potential twisting of the fitting.

2,326,584
MULTIPLEX TELEPHONY SYSTEM
Johannes Jacobus Zaalberg van Zelst, Eindhoven, Netherlands, assignor, by mesne assignments, to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application February 28, 1940, Serial No. 321,342
In Germany February 20, 1939
3 Claims. (Cl. 179—15)



1. In a multiplex telephony system, a common transmission line adapted to transmit a train of elementary pulses each representing the signal in one of a pulrality of channels, and suppressor means in said transmission line to block the transmission line, only during the periods between successive pulses, against the passage of disturbing voltages which lie below a predetermined threshold value, said means comprising a controlled discharge tube, and a control circuit for said tube including a source of voltage which varies in synchronism with the pulses to thereby make the tube operative in the rhythm of the pulses.

2,326,585
HIGH PRESSURE ALKYLATION REACTION
Hans G. Vesterdal, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application October 5, 1940, Serial No. 359,895
10 Claims. (Cl. 260—683.4)

1. A process of reacting isoparaffins with olefins to produce saturated, normally liquid, branched chain hydrocarbons which comprises carrying out said reaction at temperatures between about 375° F. and about 950° F. under superatmospheric pressures in contact with a catalyst whose essential components are selected from the group consisting of oxides and sulfides of metals of group 6 of the periodic system, and in the presence of a small amount of at least one compound having the formula H_2X, wherein X is a member of the group consisting of oxygen and sulfur.

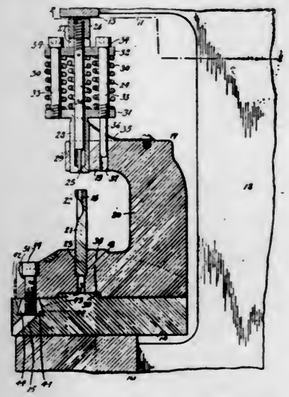
2,326,586
HIGH PRESSURE ALKYLATION REACTION
Hans G. Vesterdal, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application November 30, 1940, Serial No. 368,035
15 Claims. (Cl. 260—683.4)

11. A process which comprises condensing paraffins with monoolefins under superatmospheric temperatures and pressures in the presence of a catalyst mass whose essential components are selected from the group consisting of oxides and sulfides of metals of groups 5 and 6 of the periodic system while in the presence of a small amount of a compound having the formula H_2X, wherein X is a member taken from the group consisting of oxygen and sulfur.

2,326,587
HIGH PRESSURE ALKYLATION REACTION
Hans G. Vesterdal, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Original application October 5, 1940, Serial No. 359,895. Divided and this application November 8, 1941, Serial No. 418,321
10 Claims. (Cl. 260—683.4)

1. A process of reacting isoparaffins with olefins to produce saturated, normally liquid, branched chain hydrocarbons which comprises carrying out said reaction at temperatures between about 375° F. and about 950° F. under superatmospheric pressures in contact with a catalyst selected from the group consisting of oxides and sulfides of metals of group 5 of the periodic system, and in the presence of a small amount of at least one compound having the formula H_2X, wherein X is a member of the group consisting of oxygen and sulfur.

2,326,588
CLAMPING MECHANISM FOR PERFORATING APPARATUS AND OTHER PARTS
George F. Wales, Kenmore, N. Y.
Application March 14, 1942, Serial No. 434,724
5 Claims. (Cl. 164—118)

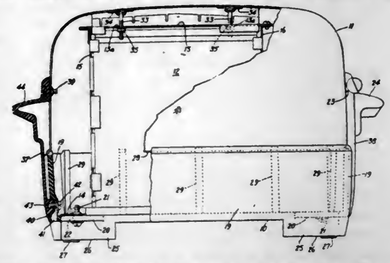


1. In a clamping device providing for the longitudinal movement of a screw nut in an undercut slot, said nut being insertable into said slot from the face of said slot at any location along the length of said slot and said screw nut, consisting of two piece construction, either piece of which may be inserted into said slot individually after which the two pieces cooperate to form a substantially completed nut and the pieces of said nut being arranged at all times below the face of the member having the slot.

2,326,589
APPLIANCE CONSTRUCTION
Walter R. Weeks, Hamden, Conn., assignor to General Electric Company, a corporation of New York
Application June 10, 1942, Serial No. 446,431
3 Claims. (Cl. 53—5)

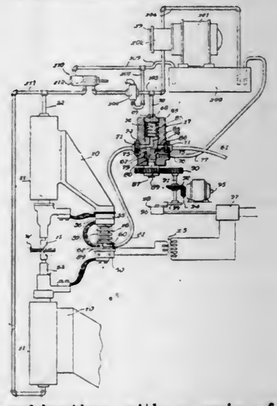
1. A casing construction for an appliance comprising a shell shaped to form an enclosure open at the bottom, a base member comprising vertically extending closed side walls shaped to define an opening into which the bottom of said shell is received in telescoping relation so that

the bottom edge of said shell is hidden by said walls, supporting means extending inwardly from the inner surface of said side walls, said supporting means being shaped to define a groove adapted to receive and support the lower edge of said shell, and means for drawing together said shell and said base member, said



groove having a surface sloping downwardly and outwardly so that when said base member and said shell are drawn together the lower edge of said shell is forced outwardly against the inner surface of said side walls whereby the periphery of the lower portion of said shell is made to conform to the contour of said side walls.

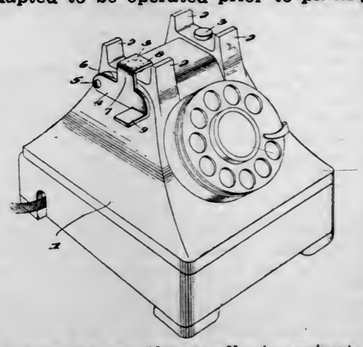
2,326,590
WELDING APPARATUS
William A. Weightman, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Co., Philadelphia, Pa., a corporation of Pennsylvania
Application May 5, 1939, Serial No. 271,823
3 Claims. (Cl. 219—4)



2. The combination with a pair of welding electrodes of a fluid pressure device for moving at least one of said electrodes, a stationary support adjacent said electrodes, a pair of conductors insulated from each other and carried by said support, electrical connections from each conductor to an electrode, at least one connection being adapted for relative movement between the respective electrode and conductor, said one connection including a series switch having a fixed contact and a movable contact, and an expansible member adapted to force the movable contact into yieldable engagement with said fixed contact.

2,326,591
TELEPHONE STAND
David E. White, Cleveland, Ohio
Application May 22, 1941, Serial No. 394,730
4 Claims. (Cl. 179—159)

1. In a telephone hand set having a cradle and a plunger type switch member in said set and a hand telephone adapted to actuate said switch member when placed on said cradle, the combination with said set of an operating member, a manually operable part on said operating member adapted to be operated prior to placing the

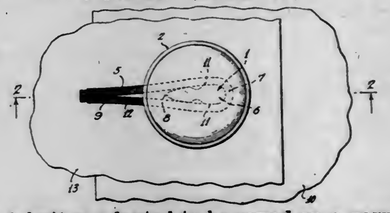


hand telephone on the cradle to actuate said switch member in a downward direction to thereby disconnect the telephone connection, said manually operable means being displaced laterally with respect to the axis of said cradle.

2,326,592
PROCESS FOR REMOVING LEAD SULPHATE FROM TITANIUM SALT SOLUTIONS
Charles Russell Wicker, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application May 17, 1940, Serial No. 335,765
10 Claims. (Cl. 23—117)

8. A process for purifying titanium salt solutions to render the same substantially free of lead contaminants present therein, comprising generating within said solution without substantially reducing the acidity thereof an alkaline earth metal sulphate from the group consisting of barium and strontium, the amount of said sulphate ranging from about 1–10 g. per liter of the alkaline earth metal for each 100 g. of TiO_2 present, and subsequently separating said sulphate from said solution.

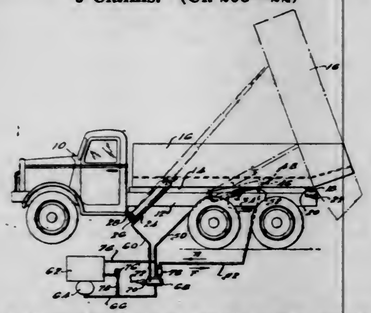
2,326,593
BUTTON
Robert H. Wollin, Milwaukee, Wis.
Application February 27, 1943, Serial No. 477,350
3 Claims. (Cl. 24—90)



1. A button adapted to be sewed on a garment layer comprising rigidly connected head and neck portions, said neck portion being in elongated, laterally tapered form to fit a correspondingly shaped buttonhole with the wider end of the taper at the larger end of the buttonhole and the narrower end of the taper towards the smaller end of the buttonhole to fit the neck portion within the buttonhole without undue

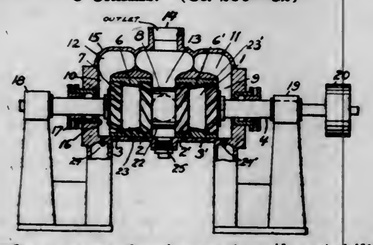
spreading of the same, said neck portion having substantially flat sides and rounded ends to avoid fraying the buttonhole by contact of the neck portion therewith, said neck portion being perforated to receive the sewing thread which secures the button on the garment layer, and said neck portion extending outwardly from the head portion to substantially a uniform extent throughout its length and terminating at its outer end in a substantially flat surface conforming to the tapered shape of the neck portion to firmly support the button throughout the length of the neck portion on the garment layer when sewed thereto and hold the button from sagging.

2,326,594
DUMP VEHICLE CONSTRUCTION
Louis S. Wood, Grosse Pointe Farms, Mich., assignor to Gar Wood Industries, Inc., Detroit, Mich., a corporation of Michigan
Application November 29, 1941, Serial No. 420,973
6 Claims. (Cl. 298—22)



1. A dumping vehicle construction comprising a frame, a body pivotally mounted on said frame for tilting movement with respect thereto, an hydraulic means for tilting said body, said hydraulic means including an hydraulic ram connected to said body and to said frame for hoisting said body, an hydraulic jack connected to said body and to said frame, and means providing an hydraulic power circuit operatively connected to said ram and to said jack, said last named means being so constructed and arranged as to supply fluid power to said ram to hoist said body and to supply fluid power to said jack to lower said body.

2,326,595
SIZE REDUCTION AND STABILIZATION OF OIL THICKENING POLYMERS
David W. Young, Roselle, and Charles C. Swoope, Union, N. J., assignors, by mesne assignments, to Jasco, Incorporated, a corporation of Louisiana
Application January 1, 1942, Serial No. 425,290
5 Claims. (Cl. 260—32)

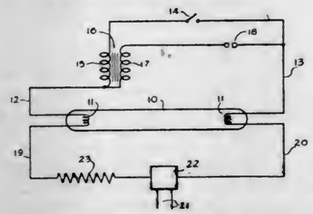


2. The process for increasing the stability of isobutylene polymers having the property of thickening and improving the viscosity characteristics of hydrocarbon lubricating oils which comprises dissolving the polymers in a hydrocarbon oil solvent, admixing a substantial amount of gaseous oxygen with the solution thus formed, and continuously passing said solution through a zone in which the polymers are subjected to hydraulic shearing and impact stresses produced by imparting a rapid whirling turbulent vortical motion to a stream of said solution and then abruptly dividing the stream of solution into a multiplicity of streams having a rectilinear motion.

2,326,596
LUBRICANT
John C. Zimmer, Union, and Arnold J. Morway, Clark Township, Union County, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application December 29, 1939, Serial No. 311,520
8 Claims. (Cl. 252—35)

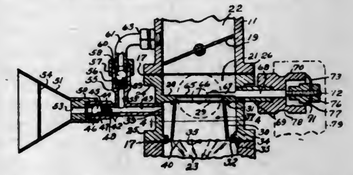
8. A lubricating grease substantially stable when repeatedly heated above 212° F. and cooled, comprising a minor proportion of soap selected from the group consisting of alkaline earth metals and aluminum soaps of fatty acids and naphthenic acids, and a major proportion of a mineral lubricating oil fraction having a viscosity index substantially below zero and consisting essentially of aromatic and unsaturated aliphatic hydrocarbons, extracted from a petroleum lubricating oil stock by a solvent having a selective solvent action on aromatic and unsaturated hydrocarbons, said extract having a viscosity of about 1,000–10,000 seconds Saybolt at 100° F.

2,326,597
GASEOUS ELECTRIC DISCHARGE DEVICE CIRCUIT
David W. Abernathy, Chicago, Ill., assignor to Products Development, Inc., Chicago, Ill., a corporation of Illinois
Application April 1, 1942, Serial No. 437,131
3 Claims. (Cl. 315—99)



1. In a circuit for initiating and maintaining the arc in a gaseous discharge device, a direct current source connected across and adapted to supply operating potential to said device, a branch of the circuit in parallel with said device and having transient producing means for supplying an ignition voltage to said device comprising a step up transformer the secondary of which is connected across said device, means interrupting the flow of direct current in the primary to cause the collapse of the magnetic field set up by said primary and as a consequence of this collapse the production of a high voltage transient in the secondary for igniting said device, and means disconnecting said secondary from said device upon ignition thereof, said disconnecting means comprising a spark gap adapted to have an arc established thereacross during the transient and prior to ignition of the device, but being incapable of maintaining said arc at the low voltage resulting from ignition of said device and hence becoming extinguished upon said ignition.

2,326,598
FUEL ECONOMIZER
John Acosta, Syracuse, N. Y., assignor of one-half to M. J. Cook, Syracuse, N. Y.
Application May 13, 1941, Serial No. 393,213
4 Claims. (Cl. 48—180)



1. A fuel economizer adapted to be located beyond a carburetor for an internal combustion engine, comprising in combination, a central passage establishing communication between the outlet of the carburetor and the intake manifold of the engine, a chamber surrounding said central passage, a plurality of openings connecting said chamber with said central passage and so constructed and arranged that the flow of the fuel and air mixture through said central passage aspirates fluid through said openings into said central passage in jets impinging upon said fuel and air mixture and creates a suction in said chamber, a conduit connecting said chamber to the atmosphere, a normally closed valve in said conduit constructed to be opened responsive to the suction in said chamber, a second conduit connecting said chamber to the outlet of the carburetor, and a normally closed valve in said second conduit constructed to be opened responsive to the suction in said chamber, whereby said jets may be supplied in part with auxiliary air and in part with fuel and air mixture from the carburetor.

2,326,599
PROCESS FOR BREAKING PETROLEUM EMULSIONS
Gwynne Allen, Long Beach, Calif., assignor to Petrolite Corporation, Ltd., St. Louis, Mo., a corporation of Delaware
No Drawing. Application May 27, 1942, Serial No. 444,761
7 Claims. (Cl. 252—340)

1. A process for breaking petroleum emulsions of the water-in-oil type, characterized by subjecting the emulsion to the action of a demulsifier comprising a sub-rubbery po'ymeric sulfur-converted polyhydric alcohol ester; said ester prior to sulfur-conversion containing at least 2 unsaturated high molal detergent-forming monocarboxylic acid radicals having at least 8 carbon atoms and not more than 32 carbon atoms each.

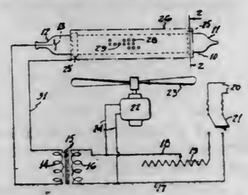
2,326,600
RUNNING BOARD
Charles B. Alvord, Marquette, Mich., assignor to United States Gypsum Company, Chicago, Ill., a corporation of Illinois
Application May 1, 1942, Serial No. 441,263
8 Claims. (Cl. 105—457)

1. In a sectional all metal running board for railway cars, a shallow rectangular frame comprising spaced longitudinal bars and transverse end bars welded together to form an integral frame, a sheet of expanded metal welded to one face of said frame to form a tread, and flanges adjacent the other side face of said frame and extending inwardly from the side bars and within



the normal thickness of said frame, said flanges having keyhole slots or the like therein to receive the heads of mounting bolts therethrough from the open side of said frame, said slots being of a contour to prevent turning of said bolts therein.

2,326,601
APPARATUS FOR PRODUCING OZONE
John H. Arff, Portland, Oreg., assignor to Rayozone Products Corporation, Portland, Oreg.
Application January 7, 1939, Serial No. 249,766
2 Claims. (Cl. 204—320)



1. In an ozone generator, the combination of an elongated, sealed, gas-filled glass tube having an encircling grid of sharply and longitudinally fluted, perforated metal whose innermost points are spaced from the exterior of said tube and having high tension connections to the gaseous filling and to said encircling grid.

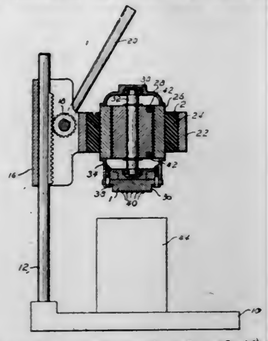
2,326,602
PROCESS FOR BREAKING PETROLEUM EMULSIONS
Gwynne Allen, Long Beach, Calif., assignor to Petrolite Corporation, Ltd., St. Louis, Mo., a corporation of Delaware
No Drawing. Application May 27, 1942, Serial No. 444,764
11 Claims. (Cl. 252—342)

1. A process for breaking petroleum emulsions of the water-in-oil type, characterized by subjecting the emulsion to the action of a demulsifier comprising a poly-carboxylic-acid-reacted sub-rubbery polymeric sulfur-converted polyhydric alcohol ester; said ester prior to sulfur-conversion containing at least 2 unsaturated high molal detergent-forming monocarboxylic acid radicals having at least 8 carbon atoms and not more than 32 carbon atoms each.

2,326,603
MARKING MACHINE
Thomas Barish, Hyattsville, Md.
Application September 27, 1941, Serial No. 412,639
6 Claims. (Cl. 101—1)

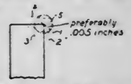
1. A marking machine for metal surfaces comprising a marking tool having on its face projecting marking portions of relatively small area adapted to be pressed against a surface to be

marked, and means for imparting to the tool while it is pressed against the surface a high



speed vibratory movement of relatively small magnitude in the plane of the surface.

2,326,604
METHOD OF MARKING
Thomas Barish, Hyattsville, Md.
Application September 27, 1941, Serial No. 412,640
3 Claims. (Cl. 101—32)

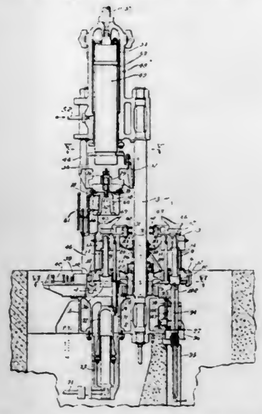


1. The method of marking on a fixed surface which consists in bringing into face-to-face engagement with the surface a tool having substantially the form and size of the marking which is to be made on the surface, and continuously moving the tool along the surface over a path which is repeated at a high frequency and which is very short with respect to the size of the tool, while maintaining the tool in substantially constant orientation with respect to the surface to thereby wear into the surface a depression having substantially the size and form of the tool.

2,326,605
FINISHING PIECE GOODS
Shailer L. Bass and Alfred A. Lawrence, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application August 11, 1941, Serial No. 406,407
9 Claims. (Cl. 117—65)

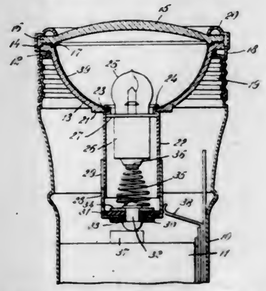
2. A method for the production of glassy finished dress goods of high uniformity and high retention of finish and shade on laundering, which comprises impregnating a fabric with an aqueous emulsion containing dispersed both a wax and a water-immiscible organic solvent solution of a plasticized cellulose ether which is itself insoluble in water, wherein the plasticized cellulose ether has a softening point between about 90° and 125° C. and wherein the wax has a melting point above 50° C. and is present in amount from 1 to about 10 per cent of the weight of plasticized cellulose ether to deposit on the cloth an amount of the named non-volatile treating agents in the range from about 0.5 to about 1.5 per cent of the dry weight of the cloth, drying to remove water and volatile solvents from the impregnated cloth, and then subjecting the fabric to a friction calendering operation at a cloth temperature at least sufficient to fuse the plasticized cellulose ether present.

2,326,606
FORGING PRESS
Florence C. Biggert, Jr., Pittsburgh, Pa., assignor to United Engineering & Foundry Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application June 25, 1942, Serial No. 448,445
12 Claims. (Cl. 78—10)



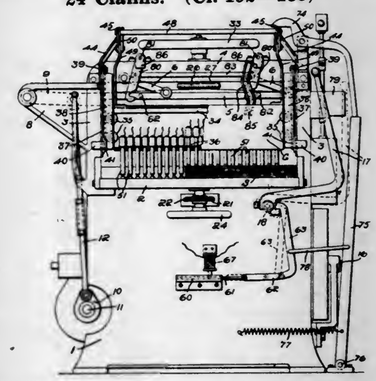
12. A forging press comprising a rotatable turret, a plurality of laterally spaced punches projecting upwardly therefrom, a plurality of vertically movable billet holders each provided with a central vertical opening receiving the upper end of one of the punches, means normally holding said billet holders in their upper position with their upper ends above the tops of the punches, means for indexing the turret to carry the punches and billet holders from station to station, a vertically reciprocable pot die above the turret at one of said stations, means for forcing the die down around an underlying billet to forge it into a blank around the punch below it while pushing the adjoining holder down, and means below the turret for forcing said holder upwardly again to strip the blank from the punch when the die is elevated.

2,326,607
HAND LAMP
Clyde C. Bohner, New Haven, Conn., assignor to Western Cartridge Company, New Haven, Conn., a corporation of Delaware
Application June 1, 1940, Serial No. 338,314
1 Claim. (Cl. 240—10.6)



A hand lamp comprising a [illegible]ng having a head, a reflector of insulating [illegible]erial mounted in the head, a lens permanently mounted on the reflector, the reflector being provided with a central opening, the rear face of the reflector adjacent the opening being shaped to form a seat normal to the axis of the hand lamp to properly position a lamp supporting member, a sleeve-like lamp supporting member having its forward end spun over the reflector around the central opening to secure it to the reflector, the sleeve-like member having an interior shoulder, a lamp mounted in the sleeve-like member with the bulb projecting through the central opening of the reflector, the stem of the lamp being provided with means cooperating with the shoulder in the sleeve-like member to limit the forward movement of the lamp, a slotted, cup-shaped member snugly and slidably fitting the rear end of the sleeve-like member, a spring mounted in the cup-shaped member and engaging the lamp bulb, to urge it forwardly in the sleeve-like member, and a contact member mounted in the bottom of the cup-shaped member and insulated therefrom, the contact member being adapted to engage the upper terminal of the battery to electrically connect the base of the lamp bulb to the battery terminal and to limit the rearward sliding movement of the cup-shaped member.

2,326,608
GUARD DEVICE FOR PAPER OR LIKE MACHINES
Louis Boraks, Brighton, Mass., assignor to Liberty Mutual Insurance Company, Boston, Mass., a corporation of Massachusetts
Application January 14, 1942, Serial No. 426,671
24 Claims. (Cl. 192—133)



1. Safety mechanism for paper cutting or like devices having a bed, a reciprocable blade, and means engageable by one hand of the operator to reciprocate said blade out of and into an inoperative position to effect a cutting stroke, said safety mechanism comprising a guard engageable by the other hand of the operator and slidably supported on said device to be positioned to block access by the operator to the path of said blade or to permit such access, means to lock said blade reciprocating means against actuation, and means operable to release said locking means when said guard is in blocking position.

2,326,609
DEPILATORY
Joseph N. Borglin, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application December 27, 1940, Serial No. 372,010
14 Claims. (Cl. 17—1)

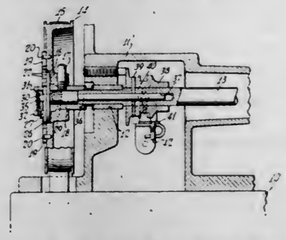
1. A depilatory comprising polymerized rosin and from about 5% to about 25%, by weight, of an oily modifier therefor, said depilatory being adapted to be applied in liquid form to hairy or feathered surfaces to be solidified by chilling and to be removed in the solid state to strip the hair or feathers from said surfaces.

2,326,610
EMULSIONS
Joseph N. Borglin, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 26, 1941, Serial No. 385,312
7 Claims. (Cl. 252—311.5)

5. A bituminous emulsion of the oil-in-water type comprising by weight from about 1% to about 70% of water-insoluble phase comprising a bituminous material and free polymerized rosin, from about 1% to about 40% of an emulsifying agent capable of yielding an oil-in-water type emulsion, and from about 30% to about 98% of an aqueous phase.

6. An emulsion of the oil-in-water type comprising free polymerized rosin, an alkali caseinate, and water.

2,326,611
CLUTCH
Charles L. Bossmeyer, Stratford, and Simon Yerkovich, Bridgeport, Conn., assignors to Dictaphone Corporation, New York, N. Y., a corporation of New York
Application October 8, 1941, Serial No. 414,062
2 Claims. (Cl. 192—28)

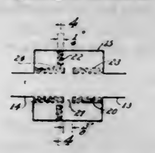


1. In a device of the character set forth, in combination, an exterior member rotatably mounted in coaxial relation with a rotatable interior member, a clutch element rigidly attached to said exterior member comprising an annular ring having its inner periphery scalloped to provide a plurality of concave surfaces, a spring pressed pawl pivotally mounted upon said interior member having a convex engagement surface adapted normally to make driving contact with the scalloped surface of said annular ring, a rod shiftable coaxially within said interior member to engage an extended portion of and trip said pawl out of driving contact with said annular ring, and means for shifting said rod.

2,326,612
SILENCER
Roland B. Bourne, West Hartford, Conn., assignor to The Maxim Silencer Company, Hartford, Conn., a corporation of Connecticut
Application November 25, 1940, Serial No. 367,054
21 Claims. (Cl. 181—48)

1. A silencer having a main sound conducting channel, a chamber having a substantial extent along the main channel, a partition of sound ab-

sorbing material positioned across the chamber substantially midway of its extent along the main channel, and a coupling between the main chan-



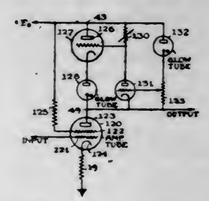
nel and said chamber composed at least in part of one or more substantially unrestricted openings.

2,326,613
SILENCER
Roland B. Bourne, West Hartford, and John P. Tyskewicz, Hartford, Conn., assignors to The Maxim Silencer Company, Hartford, Conn., a corporation of Connecticut
Application February 7, 1942, Serial No. 429,862
7 Claims. (Cl. 181—53)



1. A silencer comprising a substantially cylindrical casing divided transversely by a plurality of partitions into a series of chambers, an inlet conduit extending through the first chamber and having an open end within the second chamber and one or more openings into the first chamber, one or more conduits each provided with open ends in both second and third chambers and with one or more lateral escape openings, an exhaust conduit provided with one or more lateral escape openings and with an open end in the third chamber, and a conduit extending from the first chamber through the second chamber and having an open end within the third chamber.

2,326,614
AMPLIFIER
John R. Bowman, Pittsburgh, Pa., assignor to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware
Application October 10, 1940, Serial No. 360,681
6 Claims. (Cl. 179—171)



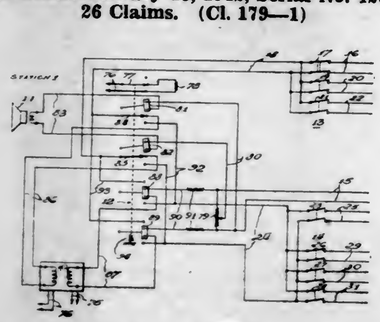
5. In an amplifier circuit of the type described, an amplifying tube having a plate circuit, and loading means in said circuit for regulating the plate current therein, comprising a load impedance including an adjustable circuit element of such character as to cause the amplifier circuit to function as a voltage amplifier along a load line of definite slope, said slope being adjustable to any arbitrarily small value by adjustment of said circuit constants without change of circuit pattern.

2,326,615
HANDBAG AND COVER THEREFOR
Warner R. Buxton, deceased, late of Longmeadow, Mass., by Mabel Allen Buxton, executrix, Longmeadow, Mass., assignor to Buxton, Incorporated, Springfield, Mass., a corporation of Massachusetts
Application December 22, 1941, Serial No. 423,992
5 Claims. (Cl. 150—28)



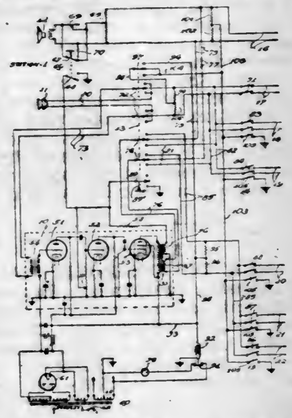
1. A hand bag which comprises, a foundation bag provided on the outer surface of its front and rear sides with pockets opening toward the top, the mouths of said pockets being closed for a short distance adjacent each end, a cover sheet folded around the bottom of the bag and extending upwardly along the sides thereof, free tongue members extending downwardly from the upper ends of the cover sheet between the cover sheet and the adjacent side wall of the foundation bag and into said pockets, said tongues being provided with ears extending laterally beneath the said closed portions at the ends of the mouths of the pockets.

2,326,616
COMMUNICATION SYSTEM
Richard H. Campbell, Racine, Wis., assignor to Webster Electric Company, Racine, Wis., a corporation of Delaware
Application January 16, 1942, Serial No. 426,978
26 Claims. (Cl. 179—1)



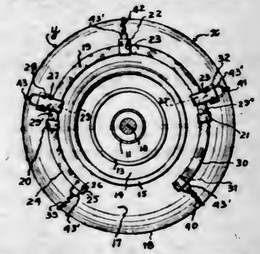
1. In an intercommunicating system, the combination including, a plurality of stations each having a loudspeaker utilizable both as a microphone and a receiver, an amplifier, and communication direction control switch means, a plurality of communication circuits between stations, each of said stations having one of said circuits as its individual circuit for reception from other stations, each of said stations also having a transmission circuit and station selector switch means for connecting the station to the individual circuits of other stations, means including circuits controlled by said communication direction control switch means at the respective stations for connecting the loudspeaker to the amplifier output and to the circuit individual to the station, and resistance means in the amplifier output circuit between the output and the point of connection of the loudspeaker to said individual circuit.

2,326,617
COMMUNICATION SYSTEM
Richard H. Campbell, Racine, Wis., assignor to Webster Electric Company, Racine, Wis., a corporation of Delaware
Application January 16, 1942, Serial No. 426,979
23 Claims. (Cl. 179—1)



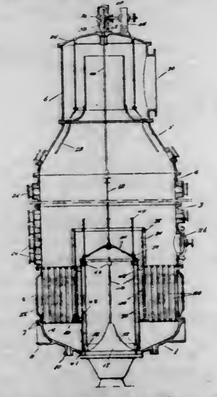
1. In an intercommunicating system, the combination including, a plurality of stations each having a microphone, a loudspeaker, an amplifier, communication control switch means, a plurality of communication circuits between stations, each of said communication circuits constituting an individual reception circuit for a particular station, a circuit at each station connecting the loudspeaker thereat to the reception circuit individual thereto, a transmission circuit, station selector switch means for connecting said transmission circuit to communication circuits individual to other stations, and means including circuits associated with said communication control switch means for connecting said microphone to the amplifier input and the amplifier output to said transmission circuit.

2,326,618
TIRE CHAIN ASSEMBLY
Eric W. Carlson and Carl H. Brainard, Omaha, Nebr.
Application March 31, 1941, Serial No. 386,028
9 Claims. (Cl. 152—242)



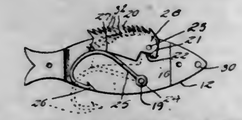
1. A tire chain assembly comprising a rigid member of approximately semi-circular contour in plan having a guide-strap-detent at each end thereof, two rigid members each defining approximately 90 degrees of a circle in plan and each having a strap-detent at one of their ends disposed about said semi-circular member, the other ends of said 90 degree members being each disposed for sliding movements toward and away from each other respectively through one of said guide-strap-detents, whereby said members may be placed at the inner side of a vehicle tire and become extended in parallelism with respect to each other to define in plan a major portion of a circle, said strap detents also comprising means for limiting said sliding movements in conjunction with said guide-strap-detents, a flexible chain adapted to be disposed at the outer side of said tire, means for attaching the ends of said side-chain together, a plurality of anti-skid chains adapted to be disposed across the periphery of said tire, and means for attaching opposite ends of said cross-chains respectively to said side-chain and said rigid members.

2,326,619
VACUUM PAN
Jose R. Carreras, San Juan, P. R., assignor to sucesores de Abarca, San Juan, P. R., a partnership consisting of Angel Abarca Portilla, Juan Abarca Portilla and Felipe F. Vidal
Application January 11, 1940, Serial No. 313,431
8 Claims. (Cl. 159—27)



8. In a vacuum pan, a heating section, a centrally positioned tubular member open at both ends and movable in said heating section, means for sealing said tubular member at the ends thereof and lessening the capacity of said heating section in the lowest position of said tubular member and means for raising said member from said position and relatively shifting said member and sealing means for opening said member to restore the capacity of said heating section.

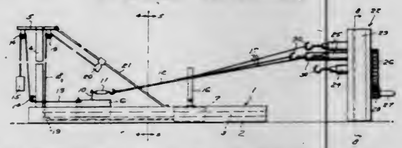
2,326,620
AUTOMATIC FISHHOOK LURE
Edouard P. Charpentier, San Pedro, Calif., assignor of forty-five per cent to W. J. Gillis and ten per cent to John W. Baker, both of Los Angeles County, Calif.
Application March 28, 1941, Serial No. 385,711
4 Claims. (Cl. 43—35)



1. A fishing lure comprising a body formed of outer plates and an inner plate, means for connecting the plates in spaced, side by side relationship, a hook pivotally connected at its shank end to each of the outer plates, said hooks extending rearwardly of the body from their piv-

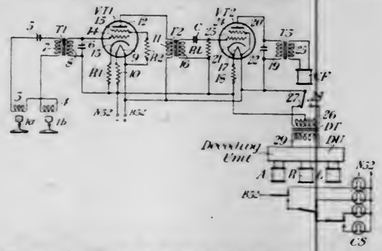
oted ends and being normally disposed between the outer plates and the inner plate, one of the hooks being arranged to swing outwardly through the top of the body and the other hook being arranged to swing outwardly through the bottom thereof, said hooks being normally held by friction in nested positions between the plates, a fin member pivotally connected to each of the outer plates at its forward end, said fin members being disposed in the spaces between the outer plates and the inner plate, the inner, longitudinal edges of the fin members being disposed to engage the hooks, and said fin members, when the hooks are in nested positions, having their outer edges protruding from the lure body so that the fin members can be pressed inwardly of the body to project the hooks.

2,326,621
TWISTING MACHINE
Frank P. A. Corda, North Tarrytown, N. Y.
Application February 13, 1943, Serial No. 475,817
1 Claim. (Cl. 57—25)



A twisting machine of the character described comprising an elongated base including a pair of spaced, parallel side bars having longitudinal channels in their opposed sides, a pair of blocks operable between the side bars, said blocks including tongues slidably engaged in the channels, means for connecting one end of a rope to one of the blocks, a fork on the other block engageable between the strands of the rope for separating said strands, a weight connected to said one block for tensioning the rope, a weight connected to said other block for moving the fork toward said one end of the rope for separating the strands, a housing, a plurality of shafts journaled in said housing, hooks on the shafts for connection with the rope strands for twisting same, and means for rotating the shafts.

2,326,622
RAILWAY TRAFFIC CONTROLLING APPARATUS
Ralph K. Crooks, Sharpsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application February 13, 1942, Serial No. 430,776
6 Claims. (Cl. 246—63)



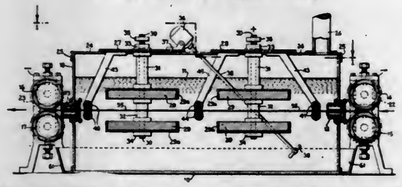
1. In controlling apparatus for use with alternating current coded at a preselected code rate and supplied to a receiving circuit tuned to reonance at the frequency of said alternating current, the combination comprising; an electron tube having a plate, a cathode, a control grid and a screen grid; a plate circuit for said tube including a source of direct current, a control grid circuit connected across said control grid and cathode and coupled to said receiving circuit to cause in the plate circuit current an alternating current component of a code corresponding to that of the alternating current, another grid circuit including a resistor connected between said screen grid and said direct current source independent of the other circuits of the tube to control the damping of said receiving circuit for minimizing code distortion due to the resonant condition of the receiving circuit, and a code following relay coupled to said plate circuit and governed by said coding of the alternating current component of the plate circuit current for operation of the relay at said code rate.

2,326,623
COATING COMPOSITION
Edwin W. Crosby, Swarthmore, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 30, 1941, Serial No. 412,955
4 Claims. (Cl. 260—3)

4. A coating composition adapted to be applied by spraying having approximately the following composition:

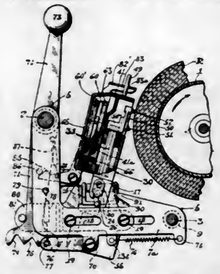
	Parts
Ultramarine blue pigment	4.1
Lithol red pigment	.4
Bone black pigment	.1
Aluminum flake pigment paste	2.9
Alkyd resin A (solids)	3.0
Alkyd resin B (solids)	30.3
Urea - formaldehyde - monohydric alcohol resin (solids)	.9
Driers	.2
Hydrocarbon solvents	57.1
Raw rubber	1.0
	100.0

2,326,624
ELECTROPLATING APPARATUS
Henry Csanyi, Jamaica, N. Y., assignor of one-half to Harry F. Wanvig, New York, N. Y.
Application January 16, 1940, Serial No. 314,036
1 Claim. (Cl. 204—206)
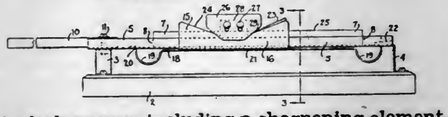


Electroplating apparatus comprising a tank for electrolyte having means in the side walls thereof for passing metal stock therethrough along a substantially horizontal path below the level of electrolyte therein, a cover for said tank completely enclosing the upper portion thereof, conduit means for carrying away fumes collecting under said cover, a plurality of anodes suspended in said tank from said cover in pairs at spaced intervals along the horizontal path of the stock and spaced substantially uniformly above and below said path, and means suspended from said cover and contacting the stock for removing gas from the surface of stock after it has passed between one pair of anodes and before it passes between another pair of anodes.

2,326,625
PHONOGRAPH
Michael J. Di Toro, East Orange, N. J., assignor to Thomas A. Edison, Incorporated, West Orange, N. J., a corporation of New Jersey
Application January 28, 1938, Serial No. 187,388
4 Claims. (Cl. 274—30)



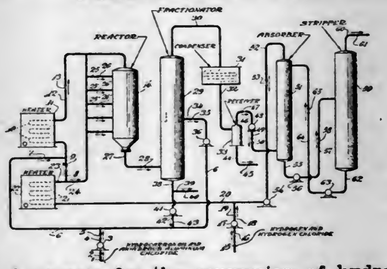
2. In a phonograph including means for supporting a record and a carriage movable in a path adjacent the record: the combination of a rocker system pivoted in the carriage along a substantially horizontal axis transverse to said path; a translating device pivoted to said rocker system below said axis and having a portion adjacent the record; and a record-engaging stylus included in said portion, said device during the engagement of said stylus with the record having a center of gravity at approximately the elevation of the line of its pivoting, and said device extending principally vertically upwardly from said line to said stylus.

2,326,626
SHARPENER
William J. Duncan, Houston, Tex.
Application January 3, 1941, Serial No. 372,965
5 Claims. (Cl. 51—214)



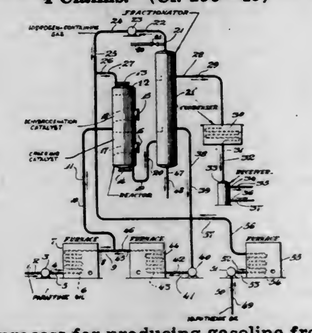
1. A sharpener including a sharpening element, an instrument carriage, means to slidably support said carriage adjacent said element including a spring disposed beneath the sharpening element to yieldably hold said carriage for depression by the instrument being sharpened.

2,326,627
TREATMENT OF HYDROCARBON OILS
Gustav Egloff and Vasili Komarewsky, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application September 30, 1940, Serial No. 359,074
5 Claims. (Cl. 196—54)



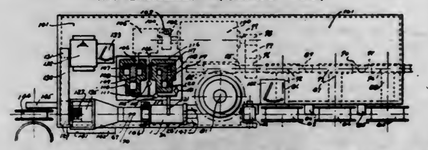
1. A process for the conversion of hydrocarbon oil into more valuable products which comprises mixing said oil with aluminum chloride to form a slurry, heating said slurry to a conversion temperature, introducing the heated slurry to one end of a reaction zone and therein effecting conversion of said oil in the absence of any external application of heat, withdrawing conversion products from the opposite end of said zone at a rate such that no substantial accumulation of liquid takes place therein, simultaneously in a second heating step heating a mixture of hydrogen and hydrogen chloride to a temperature above said conversion temperature, and supplying the thus heated mixture to said reaction zone to supply heat and promote the desired reaction.

2,326,628
CONVERSION OF HYDROCARBONS
Gustav Egloff, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application March 31, 1941, Serial No. 386,080
4 Claims. (Cl. 196—49)



1. A process for producing gasoline from naphthenic and paraffinic oils heavier than gasoline which comprises subjecting the naphthenic charging oil to catalytic dehydrogenation to convert naphthenes to aromatics, commingling the paraffinic charging oil with the heated products of the dehydrogenation, contacting the resultant mixture with a cracking catalyst under catalytic cracking conditions, fractionating the conversion products of the last-mentioned step to form gasoline distillate and reflux condensate, heating at least a portion of said reflux condensate to a temperature of from about 900° F. to about 1100° F. and supplying the thus heated material to the catalytic cracking step.

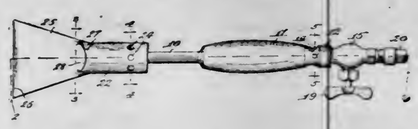
2,326,629
METAL ATTENUATING PROCESS AND APPARATUS
Martin E. Evans, Pittsburgh, Pa.
Application March 4, 1939, Serial No. 259,833
24 Claims. (Cl. 29—33)



1. In the process of producing an attenuated metal work strip the steps consisting of congealing molten metal in a mold coated with a binder and granulated ferrous aluminum alloy metal thereby providing a workable surface of said granulated metal on said congealing metal atten-

uating said ferrous aluminum alloy metal by rolling while hot, progressively congealing aluminum or other metal on said rolled metal to a uniform thickness, and attenuating said rolled and congealed metal.

2,326,630
PAINT BURNING AND SCRAPING TOOL
Joseph S. Fagan, Inglewood, Calif.
Application November 6, 1940, Serial No. 364,527
1 Claim. (Cl. 158—18)



In a paint burning and scraping tool, a hollow cylindrical member provided with a rear wall, a blade formed integral with and projecting forwardly and downwardly from the forward lower portion of said hollow member, there being a single oval shaped jet opening formed in the forward end of said hollow member, the major axis of which oval-shaped opening is horizontally disposed and the bottom of said opening coinciding with the upper surface of the rear portion of the blade so as to direct the single wide jet of burning gaseous fuel that passes through said opening forwardly to strike the surface that is being acted upon, forwardly from the front edge of the blade, a gaseous fuel supply pipe connected to the central portion of the wall closing the rear end of said hollow cylindrical member, and there being a plurality of air inlet apertures formed in said rear wall around the gaseous fuel supply tube connected thereto.

2,326,631
RADIOACTIVE UNIT AND METHOD OF PRODUCING THE SAME
Alois Fischer, New York, N. Y., assignor to United States Radium Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application August 15, 1941, Serial No. 407,098
11 Claims. (Cl. 250—106)

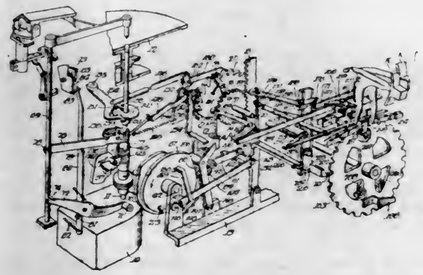
1. As a new article of manufacture, a radioactive unit in the form of a solid compact mass capable of emitting alpha, beta and gamma rays and consisting of a highly compressed and sintered intimate mixture of a finely comminuted radio-active substance selected from the class consisting of radio-active salts and a finely comminuted non-cementitious metal carrier selected from the class consisting of copper, steel, nickel, tungsten, silver and gold.

2,326,632
INTERCHANGEABLE TOOTHBRUSH
Benjamin Friedman, New York, N. Y.
Application October 3, 1941, Serial No. 413,391
2 Claims. (Cl. 15—176)



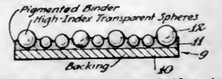
1. An interchangeable tooth brush, comprising a handle having a recessed head portion to receive a tooth brush or massaging member refill, a refill member in said recessed head portion, a stem removably mounted through said handle and engaging one end of said refill for releasably holding same, and stud and socket elements mounted on said handle and refill for holding the other end of said refill said refill having a series of openings engageable by said stem by which the refill may be supported in various positions.

2,326,633
AUTOMATIC PHONOGRAPH
John Gabel, Evanston, Ill., assignor to The John Gabel Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application August 30, 1940, Serial No. 354,867
9 Claims. (Cl. 274—10)



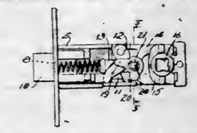
9. In an automatic phonograph, the combination of record playing mechanism, a vertically movable magazine for storing a plurality of records in vertically spaced relationship, mechanism for transferring the records from the magazine to said playing mechanism and back again, primary driving means for effecting upward movement of said magazine step by step to bring the records successively into position for transfer as aforesaid, mechanism for permitting selection of any one of the records in the magazine for reproduction, said selecting mechanism comprising supplemental driving means for effecting extended step by step upward movement of the magazine, a series of keys respectively related to the records in said magazine, means actuated by said keys for initiating operation of said supplemental driving means, an endless chain movably supported so as to have operative and inoperative reaches, means for driving said chain comprising a driving sprocket engaging a portion of said chain, disengageable means interconnecting said driving sprocket and said magazine for effecting coordinated movement of said magazine and chain, a plurality of members carried by said chain in such spaced relation to each other that one of said members is carried to the operative reach of the chain as another member leaves the same, said members when on the operative reach of the chain being adapted to engage any selected key, means actuated as an incident to such engagement for stopping the operation of said supplemental driving means, means for effecting disengagement of said interconnecting means when said magazine reaches its uppermost position so as to permit downward movement thereof independently of said driving sprocket and chain, means carried by said sprocket for starting and stopping said supplemental driving means during the downward movement of the magazine to thereby advance the chain independently of said primary driving means so as to carry one of said members on the chain from the inoperative reach to the operative reach thereof.

2,326,634
REFLEX LIGHT REFLECTOR
Melvin L. Gebhard, Harry Heltzer, John Edmund Clarke, and Edward P. Davis, St. Paul, Minn., assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware
Application December 26, 1941, Serial No. 424,528
13 Claims. (Cl. 88—82)



1. A reflex light reflector of the type having a layer of small transparent spheres providing a multiplicity of contiguous convex lens elements and having associated reflector means adapted in combination therewith to provide reflex reflection, characterized by said spheres having a refractive index within the range of approximately 1.70–1.90 so as to produce high brilliancy.

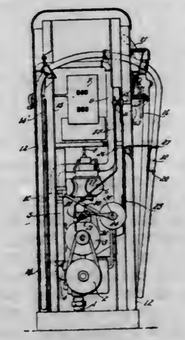
2,326,635
LOCK
Russell S. Gold and John Stadler, Berlin, Conn., assignors to The American Hardware Corporation, New Britain, Conn., a corporation of Connecticut
Application September 5, 1941, Serial No. 409,608
2 Claims. (Cl. 292—167)



1. In a lock of the tubular type, the combination with a lock case, a latch bolt spring-urged to advanced position and provided at its rear with a lug through which it is retracted, and bolt retracting means operable on said lug to retract the bolt, of a cover for said case, a dogging member in the form of a bell crank pivoted frictionally on said cover at the inside thereof, one arm of said bell crank serving as a dogging lug and the other as a retracting lug to be engaged and actuated by the lug on the bolt when the bolt is pressed back, a stop on said cover to determine the operative position of said dogging lug, movement of the dogging lug in the opposite direction being limited by said lug on the bolt, and means for operating said dogging member from the outside of said case including a spindle coaxial with said pivot.

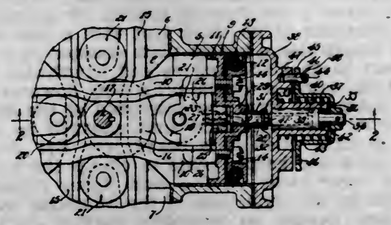
2,326,636
LIQUID DISPENSING APPARATUS
Alfred L. Grisé, Springfield, Mass., assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass., a corporation of Massachusetts
Application January 2, 1942, Serial No. 425,392
1 Claim. (Cl. 221—95)

In dispensing apparatus of the electric gasoline pump using a delivery hose with a loop normally hung on the outside ready for use and having means adapted to start and stop the pump which is automatically operated by movement of the hose nozzle to and from a point of delivery, the combination of a display casing, a delivery hose having a substantial portion of its length normally positioned inside the casing and another substantial portion normally hung as a loop for display outside the casing, an electric pump mechanism inside the casing having a starting and stopping switch, mechanism to open and close said switch, said mechanism comprising a switch-operating element, actuating means for said element made up of a drum-like member to store a long cable cord, a spring adapted to wind such cord on the drum-like member, a cord connected to tension said spring when unwound, said cord being connected to the hose portion normally outside the casing to cause its unwinding as said hose is



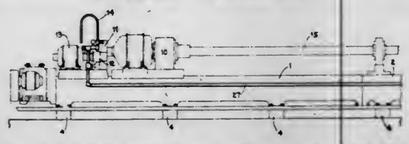
moved for delivery, a friction drive between said switch operating element and said drum adapted to promptly open and close said switch as the drum is turned in one direction or the other, all adapted for said cord to operate with the hose for the purpose described, whether or not the outside portion is moved along or the inside portion is pulled out of the casing to reach the point of delivery.

2,326,637
CALIBRATING MEANS FOR PISTON METERS
Alfred L. Grisé, Springfield, Mass., assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass., a corporation of Massachusetts
Application November 14, 1942, Serial No. 465,599
6 Claims. (Cl. 73—247)



1. In a meter of the type wherein fluid under pressure is admitted to and discharged from a cylinder to reciprocate a piston carrying a cam follower which engages and drives a cam on the meter shaft, stroke-adjusting means comprising a support for said follower mounted on the piston for movement toward and away from the cam, adjustable connecting means between said support and piston including interengaged nut and screw elements, one such element being rotatably mounted in the piston and held against movement in the direction of its axis and the other such element being fixed to said support and mounted for movement in the direction of its own axis and held against rotation about such axis, and means operable from outside said cylinder for turning the rotatable element.

2,326,638
MACHINE TOOL COOLANT SYSTEM
William F. Groene and Harold J. Siekmann, Cincinnati, Ohio, assignors to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio, a corporation of Delaware
Application November 30, 1942, Serial No. 467,284
2 Claims. (Cl. 29—27)



1. In a machine tool, a bed, a headstock mounted on said bed, means for chucking and rotating a gun barrel or tube in said lathe, turning tool carriages mounted on said bed having cutting tools operating on the outside of said tubes, a boring bar carriage having a boring bar with cutting tools operating inside of the bore of said gun barrel, a low pressure high volume fluid pressure pump connected to supply coolant to said turning tool carriages at relatively high volume and low pressure, a high pressure pump associated with said boring bar, and means for connecting said pump to said boring bar and its cutting tools to supply fluid pressure at high pressure low volume thereto, and means interconnecting said low pressure pump and said high pressure pump so as to effect a supercharging of said high pressure pump by said low pressure pump.

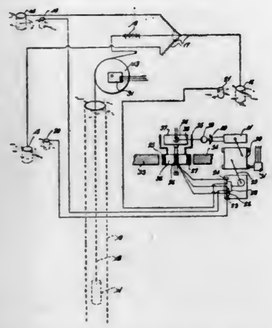
2,326,639
HOLDER FOR STROPPING RAZOR BLADES
Louis E. Hansen, Toronto, Ontario, Canada
Application April 21, 1943, Serial No. 483,847
In Canada August 13, 1942
2 Claims. (Cl. 30—333)



1. A holder of the class described comprising a handled member of a flat elongated shape having an intermediate extent upon which a razor blade is positionally located for stropping, and provided at its outer end with a slot running lengthwise, a keeper plate adapted to overlie said razor blade and extend lengthwise beyond the same, a tongue projecting downwardly and outwardly from the outer end of the keeper plate on a curvature and engaged in said slot so that when it is urged into the slot it will cause the keeper plate to clamp the interposed razor blade, and a cam finger pivotally carried by the inner end of the aforesaid member and having an eccentric portion engageable with a biased face provided on the inner end of said keeper plate, said cam finger coacting with the tongue and slot in applying clamping pressure upon the keeper plate.

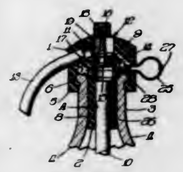
2,326,640
APPARATUS FOR DETERMINING THE DIP IN THE EARTH'S SUBSTRATA
Robert F. Davis, Washington, D. C., assignor to Well Surveys, Incorporated, Tulsa, Okla., a corporation of Delaware
Application January 29, 1941, Serial No. 376,528
4 Claims. (Cl. 175—182)

2. A device for determining the nature of subsurface formations that comprises an electrode adapted to be lowered into an opening in the earth, means to measure the depth to which said electrode is lowered, a source of power having one terminal connected to said electrode, a Y resistance to the center of which the other pole of said power source is connected, surface power electrodes connected to the opposite ends of said Y resistance and adapted to be located in the surface of the earth and in a generally symmetrical arrangement around the mouth of the bore hole,



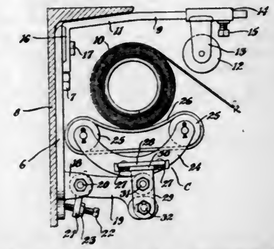
a measuring electrode positioned in the vicinity of each of said surface power electrodes, a Y inductance connecting said measuring electrodes and arranged so that the arms of said inductances are in substantially the same position relative to each other as are the surface power electrodes, and means for indicating the direction of the resulting magnetic field around said inductances.

2,326,641
BOTTLE STOPPER AND SIPHON
Edward W. Heeter, Belvidere, Ill., and Robert C. Woodhead, Elizabeth, N. J., assignors to Central Rubber & Mfg. Co., Chicago, Ill., a corporation of Illinois
Application November 15, 1940, Serial No. 365,820
3 Claims. (Cl. 215—4)



3. A combined bottle stopper and siphon comprising a body member having a downwardly extending stem portion adapted to extend into the neck of a bottle, means for securing said body member to the neck of a bottle to seal the bottle, said body member having a pair of communicating passages, one of said passages extending longitudinally of said stem, a valve for closing communication between said passages, means on said body member for operating said valve to effect communication between the passages, a tube slidably mounted in the passage in said stem and adapted to extend downwardly into a bottle, said tube being provided with an opening for passage of gas and air in an upper side wall thereof, and said opening being positioned to be opened and closed by said stem upon sliding movement of said tube within the stem.

2,326,642
AWNING BELT CENTER SUPPORT
Henry C. Heiser, Parma, Ohio, assignor to The Astrup Company, Cleveland, Ohio, a corporation of Ohio
Application November 24, 1941, Serial No. 420,195
5 Claims. (Cl. 242—73.5)

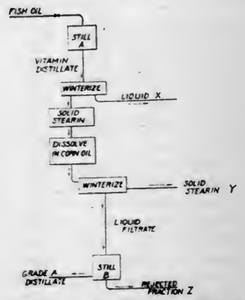


1. A roller awning center support including a wall bracket adapted for attachment to a support, an overlying arm adjustably mounted thereon, a guide roller mounted on said arm for horizontal adjustment relative thereto, an underlying support arm pivotally mounted on said wall bracket, means for adjusting said support arm toward and away from said overlying arm, a belt roller cradle rockably mounted on said support arm, rollers journaled in the ends of said cradle, an endless belt trained around said rollers for supporting an awning roll, and means securing said cradle in adjusting position on said arm.

2,326,643
COMPLEX POLYAMINO SULPHUR COMPOUND
William F. Hester, Drexel Hill, Pa., assignor to Röhm & Haas Company, Philadelphia, Pa., a corporation of Delaware
No Drawing. Application August 20, 1941, Serial No. 407,673
5 Claims. (Cl. 260—125)

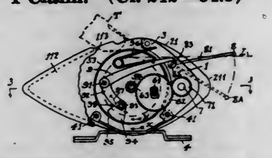
1. The reaction products obtained by combining an aliphatic polyamine with at least two molecular proportions of carbon disulphide in the presence of a base to form a polydithiocarbamate and reacting said polydithiocarbamate with a sulphur chloride.

2,326,644
VITAMIN PREPARATION
Kenneth C. D. Hickman, Rochester, N. Y., assignor to Distillation Products, Inc., Rochester, N. Y., a corporation of Delaware
Application May 3, 1940, Serial No. 333,189
7 Claims. (Cl. 167—81)



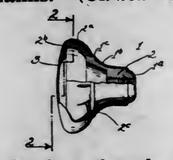
1. The process of extracting a vitamin from a fish oil stearin to obtain a vitamin product of improved taste, odor and color which comprises dissolving a fish oil stearin, which contains a fat soluble vitamin in a vegetable oil having a low melting point, cooling this mixture until the stearin-like solids separate, and separating the liquid portion from the solids whereby the vitamin in the stearin is transferred to the vegetable oil to leave an extracted stearin of substantially lower vitamin potency than the vegetable oil extract.

2,326,645
FISHING REEL
Carson E. Hill, Ferndale, Mich.
Application June 15, 1940, Serial No. 340,832
1 Claim. (Cl. 242—84.5)



A fishing reel comprising a frame, a spool rotatably mounted upon said frame, a line wound upon said spool, a bell-crank lever pivoted upon said frame having pivoted upon one arm a brake shoe adapted to frictionally engage said spool, said shoe having a surface arranged eccentrically in relation to the co-acting surface upon said spool so as to engage the same more intensely in one direction than in the other, spring means yieldingly urging said shoe against said spool, an oscillatable bail member responsive to variations in the tension of the line, and crank means upon said bail member adapted to engage the other arm of said lever and to release the braking action when said line is tensioned.

2,326,646
DOORKNOB
James Hillgren, Huntington Park, Calif.
Application June 29, 1940, Serial No. 343,192
4 Claims. (Cl. 292—347)



1. In a door knob, a ferrule having a flared outer end, a core member anchored within the ferrule and having its outer end flared beyond the flared end of the ferrule and extending axially outwardly therefrom, the flared end of the ferrule being anchored within the flared outer end of the core member and a knob member pressed around the outer flared portion of the core member and with its inner edge in engagement with the outer side of the flared portion of the ferrule.

2,326,647
SWITCHING MECHANISM
Arthur W. Horton, Jr., South Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 31, 1941, Serial No. 396,049
4 Claims. (Cl. 179—27.54)

1. A switching device comprising groups of connecting mechanisms arranged in horizontal

and vertical rows, each group consisting of two flexible magnetic springs and four stationary magnetic plates, an upper of said springs being normally in contact with an upper outside plate and the other or lower spring being normally in contact with a lower outside plate while the other two plates are located intermediate said springs normally out of contact with said springs, a group of coils one for each horizontal row of mechanism, each coil surrounding the upper plate and one of the intermediate plates of a corresponding horizontal row of said mechanisms, another group of coils one for each vertical row of said mechanisms, each coil surrounding the lower

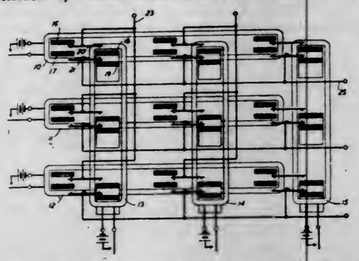


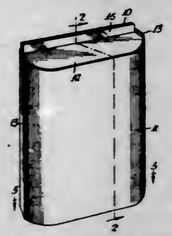
plate and the other of said intermediate plates of a corresponding vertical row of said mechanisms, and circuit means for energizing any coil in one group, any coil in the other group and for energization of said first energized coil to establish magnetic fields at the crosspoint of said coils to actuate the associated springs to open their connections with the outside plates and to connect said springs with the intermediate plates to establish an electrical connection between said springs through said intermediate plates, said connections being established regardless of the order in which said coils are energized.

2,326,648

COLLAPSIBLE CARDBOARD STRUCTURE

John V. Horr, North Tarrytown, N. Y., assignor to Einson-Freeman Co., Inc., Long Island City, N. Y., a corporation of Delaware

Application September 12, 1942, Serial No. 458,131
2 Claims. (Cl. 312—140.2)



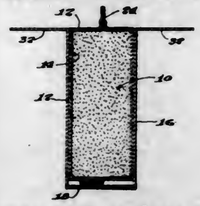
1. A collapsible cardboard structure adapted to be used as a serving bar, comprising upright front and back sections hingedly connected at the sides to allow them to be collapsed together or to be separated to define a tubular body, a bar top member hinged to the upper part of the back section and adapted to be swung from an inoperative substantially vertical position into an operative substantially horizontal position spanning the gap at the top of said body when the structure is set up, and means controlled by said member as it is swung into operative position for adjusting the front and back sections into separated set-up relationship, said means comprising a toggle link hinged at its forward end to the upper part of the front section and hinged at its rear end to the midportion of said bar top member.

2,326,649

VACUUM PACKAGE

Stanley R. Howard, Milton, Mass., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass., a corporation of Massachusetts

Application November 25, 1939, Serial No. 306,108
5 Claims. (Cl. 206—46)



1. An air evacuated package containing a granular commodity comprising an outer fibrous container, a liner therefor and a body of the commodity within the liner, said liner comprising a hermetically sealed thermoplastic bag having an adhesively sealed inner liner enclosing the commodity therein, the top closures of the thermo-plastic bag and its inner liner being of similar construction with the thermo-plastic top closure heat sealed and projecting above the inner liner and with the inner liner top closure adhesively sealed.

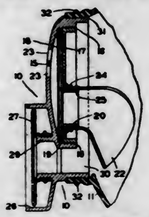
5. An air evacuated package containing a granular commodity, said package comprising a composite flexible bag collapsed against said commodity by atmospheric pressure and supported by said commodity, said composite bag comprising a hermetically sealed flexible thermo-plastic outer bag member and a closed inner liner surrounding said commodity and preventing contact between said commodity and said outer bag member to prevent rupture of said outer bag member by said granular commodity, said composite bag being positioned in an outer fibrous container to protect said thermo-plastic bag member.

2,326,650

GAS MASK FACEPIECE

Harry A. Husted, Detroit, Mich., assignor to The Standard Products Company, Detroit, Mich., a corporation of Ohio

Application April 18, 1941, Serial No. 389,129
4 Claims. (Cl. 128—141)



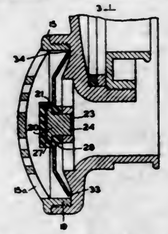
2. In a respiratory device such as a gas mask or the like, a face piece having an inwardly opening recess and an outwardly opening recess, one of said recesses being adapted to receive an exhalation valve and the other of said recesses being adapted to receive speech transmitting means, said recesses being in mutually overlapping relationship, a removable closure for said inwardly opening recess, said closure having an opening therethrough and also having an inwardly extending flange surrounding said opening and providing a passageway to said inwardly opening recess.

2,326,651

EXHALATION VALVE STRUCTURE FOR PROTECTIVE MASKS

Harry A. Husted, Detroit, Mich., assignor to The Standard Products Company, Detroit, Mich., a corporation of Ohio

Application September 20, 1941, Serial No. 411,614
4 Claims. (Cl. 251—119)



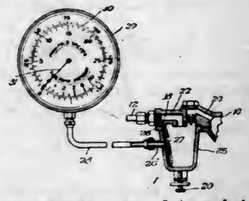
2. An exhalation valve structure for a respiratory device such as a gas mask, said valve structure comprising a wall portion provided with an exhalation aperture, a valve member having a resilient, imperforate disk-like portion normally engaging at its periphery the said wall portion to thereby seal said aperture, said disk-like portion having a centrally located socket, and a stud having a shank carried by and rigid with said wall portion, and having a head spaced from said wall portion and seated in said socket, said valve member having an annular flange below said disk-like portion and surrounding said stud between its head and said wall portion, said flange being of greater thickness than the periphery of said disk-like portion.

2,326,652

APPARATUS FOR DETERMINING FLUID PRESSURE

Bruno M. Ikert, Elgin, Ill., assignor to Warner-Patterson Company, Chicago, Ill., a corporation of Illinois

Application December 4, 1939, Serial No. 307,436
1 Claim. (Cl. 73—31)



In testing apparatus for determining if there is a clog in the fuel line of an internal combustion engine having a fuel pump and a sediment cup removably fastened to a fixture connected in the fuel line by connecting a pressure gauge to the fuel line adjacent the fuel pump, means for connecting said gauge to said fuel line comprising a cup-shaped receptacle constructed to be substituted for said sediment cup, means on said receptacle adapted to cooperate with means on said fixture detachably to connect said receptacle to said fixture in place of said sediment cup, a wall of said cup-shaped receptacle having an opening communicating with the interior of the receptacle, and a pressure gauge communicating with the opening in said receptacle, whereby the fuel line may be tested while it is intact.

2,326,653

GLUCOSIDELIKE COMPOUNDS OF THE STEROID SERIES AND A PROCESS OF OBTAINING THE SAME

Hans Herloff Inhoffen, Berlin-Wilmersdorf, Max Gehrke, Birkenwerder, near Berlin, and Walter Schoeller, Berlin-Charlottenburg, Germany, assignors to Schering Corporation, Bloomfield, N. J., a corporation of New Jersey

No Drawing. Application May 3, 1939, Serial No. 271,500. In Germany May 16, 1938
14 Claims. (Cl. 260—210)

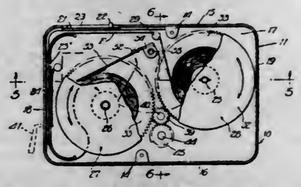
14. Process for the manufacture of glucoside-like derivatives of diol compounds of the steroid series comprising heating an acyl derivative of a glusosidic compound of the steroid series containing at least one carbonyl group in the molecule with a saturated monohydric alcohol capable of oxidation to the corresponding oxo compound, and with a member of the group consisting of aluminium and magnesium alcoholates, until reduction of the carbonyl group and saponification have taken place, the acyl group being that of a carboxylic acid.

2,326,654

FILM MAGAZINE FOR MOTION PICTURE CAMERAS

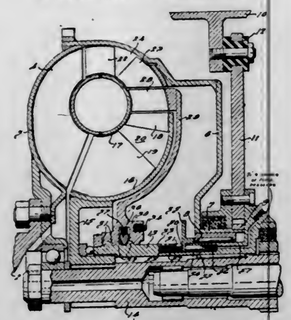
Philip Jagust, Brooklyn, N. Y., assignor to Norman Geiger, Brooklyn, N. Y.

Application June 4, 1941, Serial No. 396,518
4 Claims. (Cl. 242—71)



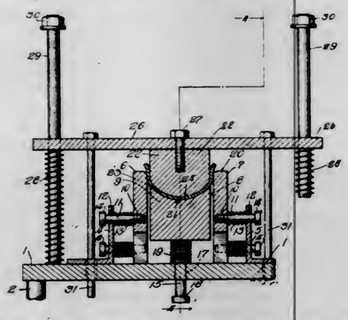
1. In a film magazine for use by amateur photographers, a rectangular lightproof casing having a side wall and a front end wall, the front end wall being provided with an exposure aperture, spaced front and rear spindles fixedly mounted on the side wall and extending inwardly therefrom, a film take-up roll rotatably mounted on the front spindle, a film supply roll rotatably mounted on the rear spindle, means within said casing for guiding the film from the supply roll past said exposure aperture and for direct winding upon the take-up roll, each roll including a core, enlarged outer and inner end disks concentric to the core, the outer end disk being fixedly secured to the outer end of said core, a resilient connection between the inner end disk and the inner end of said core, a gear provided on the inner end disk of the take-up roll, a gear provided on the inner end disk of the supply roll, an intermediate gear mounted on the inner side of the side wall and in gear meshing engagement with the gear of the take-up roll and the gear on the supply roll, and a drive gear rotatably mounted on the inner side of the said side wall and being in meshing engagement with said intermediate gear.

2,326,655
TURBO TRANSMISSION
Joseph Jandasek, Detroit, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application November 4, 1940, Serial No. 364,117
3 Claims. (Cl. 60—54)



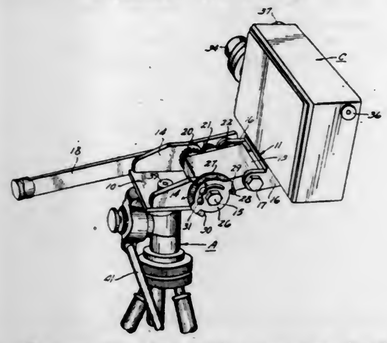
1. In a turbo transmission for a vehicle, a driven shaft, an axially extending stationary member concentrically mounted relative to the driven shaft, a fluid circuit, a guide wheel mounted on the stationary member and movable axially thereon into or out of the fluid circuit to operate the transmission as a torque converter or as a turbo clutch, cooperating means comprising an internally threaded guide wheel hub and a threaded segment on the stationary member whereby the guide wheel may be locked against rotation in the fluid circuit or shifted axially on the stationary member to withdraw the guide wheel from the fluid circuit to selectively operate the device as a torque converter or as a turbo clutch, a movable flange mounted on the stationary member and positioned to engage the hub, and fluid pressure actuated means operable while the device is in operation as a turbo clutch to move the flange and hub relative to the stationary member to introduce the guide wheel into the circuit to transform the device to operate as a torque converter.

2,326,656
SHOE TONGUE FORMING APPARATUS
Alfred Johnson, Chicago, Ill.
Application November 28, 1941, Serial No. 420,785
11 Claims. (Cl. 12—1)



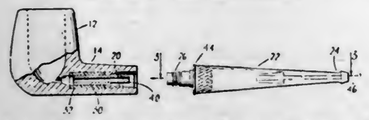
1. A forming member comprising a lower die, an upper die spaced from the lower die, spring means for urging one of said dies away from the other, means for limiting the movement of one die with respect to the other, a depressible foot treadle for moving the upper die against the lower die to bring the dies into nesting relationship, lever means fastened to the foot treadle, and means for locking said lever means in position to maintain said dies in operative forming nested position.

2,326,657
CAMERA MOUNTING
Wayburn E. Johnston, Minneapolis, Minn.
Application March 3, 1941, Serial No. 381,448
5 Claims. (Cl. 95—86)



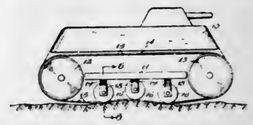
1. The combination with a camera having a photographic aperture and a view finder in laterally offset relation to the optical axis of the camera, of a camera carriage comprising a relatively fixed mounting element, a link-acting element pivotally anchored to the relatively fixed mounting element, a camera supporting element pivotally anchored to the link-acting element in spaced relation to the first mentioned pivot and having the said camera anchored thereto, means for maintaining a predetermined angular relation between the camera supporting element and the said relatively fixed mounting element under pivotal movements of the link-acting element, whereby under pivotal movements of the link-acting element the optical center of the view finder and the photographic axis of the camera will travel through arcs of eccentric but intersecting circles, and stop means positioned to limit pivotal movements of the link-acting elements between two extreme positions so disposed that positions of the optical center of the view finder and of the photographic axis of the camera are interchanged at one of said extreme positions.

2,326,658
SMOKER'S PIPE
Arthur Koenigsamen, Jamaica, N. Y., assignor to Henry Leonard & Thomas, Inc., Ozone Park, New York, N. Y., a corporation of New York
Application May 17, 1941, Serial No. 393,883
4 Claims. (Cl. 131—225)



1. A smoker's pipe comprising a bowl with an integral shank having a relatively large-diameter hole, the inner portion of said hole being provided with a liner made of cork or similar soft resilient material cemented in place, a metal sleeve having a smooth exterior including a small-diameter portion and a large-diameter portion, the small-diameter portion being dimensioned to be frictionally received in the cork liner, the large-diameter portion being dimensioned to be received in the outer portion of the hole, the large-diameter portion of the sleeve being internally threaded with a relatively coarse thread, and a stem having a bit end and a male tenon projecting from its opposite end, said tenon being externally threaded to mate with the internal thread of the sleeve, the friction between the sleeve and shank being greater than that of the thread whereby said stem may be separated from the shank by unscrewing the same, but "overturning" may be cured by rotation of the stem and sleeve relative to the shank.

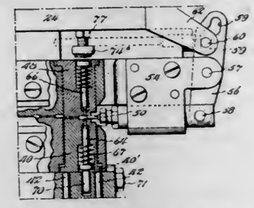
2,326,659
SPRINGY SUPPORT OF TRACTORS
Claus Hinrich Köhn, Rapperswil, St. Gallen, Switzerland, assignor to Karl Seiler, Zurich, Switzerland
Application July 30, 1940, Serial No. 348,516
In Switzerland April 27, 1939
4 Claims. (Cl. 305—9)



1. A vehicle, such as a tractor comprising, in combination, a supporting frame provided with tracks forming closed paths in substantially vertical planes, roller chains each substantially composed of two alternating types of links connected by joints, each joint comprising an axle and rollers on both ends of the axle, each roller engaging one of said tracks; one type of said links comprising a first cylinder coaxial with a substantially vertical plane and open towards the outside of said vehicle and the ground in corresponding positions, a second cylinder slidably arranged in said first cylinder and projecting to the outside of said vehicle, means for closing the inside end of said first cylinder, means for closing the outside end of said second cylinder and a footplate attached thereto, tensioned resilient means as exemplified by a compressed spring arranged within said telescoping first and second cylinders and engaging their closed ends, and a ring-like abutment on the inside of said first and another ring-like abutment on the outside and near to the inner end of said second cylinder, said abutments arranged to be spaced from each other when said resilient means are under load and said cylinders slide deeper into each other and to engage each other when said resilient means expand off-load to a predetermined extent but still are tensioned; the other type of said links being journaled on and connecting a pair of adjacent axles.

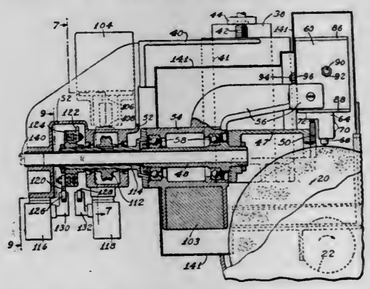
2,326,660
MACHINE FOR MAKING SOCKET PINS
Andrew J. Kosha, Stratford, Conn., assignor to The Bead Chain Manufacturing Company, Bridgeport, Conn., a corporation of Connecticut
Application July 31, 1941, Serial No. 404,939
16 Claims. (Cl. 113—1)

1. In a socket pin making machine, means for forming a tube from flat strip material, means for shaping said tube into a pin having a tubular portion partially closed at one end, a mandrel for opening the partially closed end of said pin and means for grooving said tubular portion cooperating with said mandrel in determining the



size of a reduced opening in said tubular portion.

2,326,661
TRUING APPARATUS
Lester J. Lalime, Providence, R. I., assignor to Brown and Sharpe Manufacturing Company, a corporation of Rhode Island
Application April 25, 1942, Serial No. 440,478
8 Claims. (Cl. 125—11)

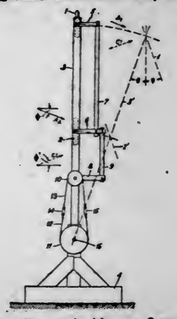


2. A truing apparatus for a grinding machine comprising a bracket located on the grinding machine in predetermined relation to the grinding wheel, a support pivotally mounted on the bracket to swing in a circular path, a truing tool holder transversely slidable on the support, means including a former arranged to move the truing tool holder transversely relative to the support as the support is swung about its pivot to cause the truing tool to produce a predetermined shape on the grinding wheel periphery, a slow speed reversible electric motor, a worm and worm wheel connection from the motor for rotating the support, and control means for the motor including a switch and a follower element rendered operative by the rotation of the support, said worm wheel being supported to turn co-axially and as a unit with the support through a predetermined angle to reverse the motor, and a second switch and follower element rendered operative by the return of the support to its initial position to stop the motor.

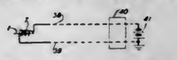
2,326,662
MEANS FOR INVESTIGATING ETHER PROPAGATION PATHS
Nils E. Lindenblad, Rocky Point, and James L. Finch, East Rockaway, N. Y., assignors to Radio Corporation of America, a corporation of Delaware
Application November 29, 1941, Serial No. 420,935
12 Claims. (Cl. 250—11)

3. A directional antenna system including a frame adapted to be pivoted in a vertical plane of a propagation path of a radio signal about an axis at one end adjacent to the earth's surface, a pair of rotatable loop antennas supported at

spaced points on said frame, means for rotating said loops the same amount as, but in an opposing direction to, the rotation of said frame about its axis.

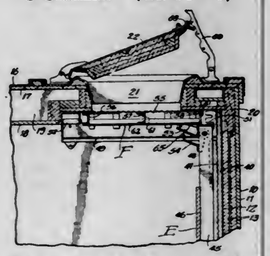


2,326,663
ALTERNATING CURRENT GENERATOR
Clarence A. Lovell, Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 14, 1941, Serial No. 393,406
9 Claims. (Cl. 179—90)



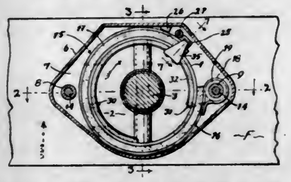
2. In a signaling system, a line, a source of current at one end of said line, an alternating current generator at the other end of said line, a polarizing winding for said generator connected over said line to said source of current, a magnetic circuit for said generator constructed and arranged so that the field strength of said generator will be an inverse function of the current flowing through said polarizing winding.

2,326,664
HATCH VENTILATOR FOR REFRIGERATOR CARS
John S. Lundvall, Chicago, Ill., assignor to Union Asbestos & Rubber Company, Chicago, Ill., a corporation of Illinois
Application September 7, 1940, Serial No. 355,754
3 Claims. (Cl. 98—6)



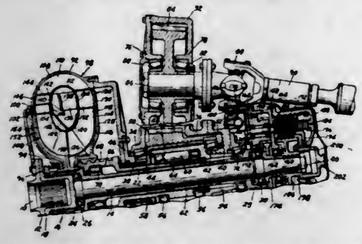
1. A hatch ventilator for a refrigerator car having a ventilating opening in its top comprising a drain plate adapted to underlie the opening with its edges spaced from the side walls of the car, the drain plate having upstanding flange members around its periphery to retain water thereon and formed with openings therethrough above the plate to permit the flow of air from the ventilating opening through the last named openings around the drain plate, means pivotally connecting the drain plate to a wall of the car so it can be swung into a vertical position along one wall of the car or into a horizontal position below the ventilating opening, the drain plate being formed adjacent one end with a drain opening, and a trough mounted in the car to register with the drain opening when the drain plate is in its horizontal position.

2,326,665
SHOCK ABSORBER
Bonnie L. Mallory, Cleveland Heights, Ohio
Application November 26, 1941, Serial No. 420,547
10 Claims. (Cl. 188—130)



1. In a shock absorber, the combination of a cylindrical drum, a shaft to which the drum is secured, a structure whereby the shaft is supported for oscillation, means through which oscillatory movement is adapted to be imparted to the shaft, a brake band extending part way about said drum in a plane normal to the axis thereof and having one end attached to said structure, a drag shoe, and a connector by means of which said drag shoe is attached to the opposite end of the band, said drag shoe frictionally engaging a part of the drum other than its exterior cylindrical surface for tensioning said band.

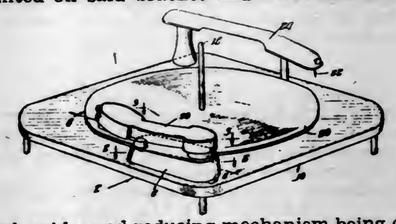
2,326,666
FLUID DRIVE
Raymond J. Miller, Detroit, Mich., assignor to Hydraulic Brake Company, Detroit, Mich., a corporation of California
Application December 15, 1941, Serial No. 423,103
8 Claims. (Cl. 74—189.5)



1. A power transmission comprising a mechanical transmission, a fluid transmission driven thereby, a clutch for the mechanical transmission providing for one speed of operation of the fluid transmission, a brake for the mechanical transmission providing for another speed of operation of the fluid transmission, a torque-multiplying means mounted between the transmission and operatively connected to the fluid transmission, and a shaft connected to the torque-multiplying means.

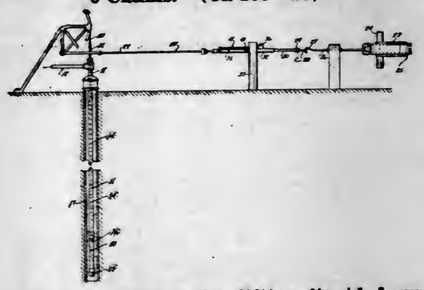
2,326,667
PHONOGRAPH RECORDER
James L. Donaldson Morrison, Benton Harbor, Mich., assignor to New Products Corporation, Benton Harbor, Mich., a corporation of Michigan
Application October 27, 1941, Serial No. 416,748
1 Claim. (Cl. 274—9)

A recording mechanism for a phonograph record player having a base plate supporting a turn-table, said mechanism comprising a recording arm adapted to carry a recording stylus, means for pivotally mounting said arm on said plate to one side of said turn-table, a drive wheel, a supporting bracket for said drive wheel, said bracket being constructed for attachment to said plate to position the drive wheel beneath the turn-table, said drive wheel being shiftably mounted on said bracket for movement into and out of engagement with said turn-table, means for yieldably urging said wheel into engagement with said turn-table, speed reducing mechanism mounted on said bracket and connected to said



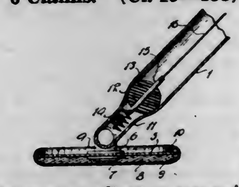
wheel, said speed reducing mechanism being constructed to permit movement of said wheel in a direction toward and from the turn-table while drivingly connected thereto, said speed reducing mechanism comprising a pair of spaced members having inner frictional driving surfaces, and a link connected to said arm and extending beneath said turn-table, said arm having the inner bar-like portion adapted to be received between said members in engagement with said frictional surfaces upon positioning of said recording arm to engage said stylus with a record member on said turn-table.

2,326,668
DEVICE FOR CONTROLLING THE TRANSMISSION OF POWER TO PUMPS
John C. Myers, Sperry, Okla., assignor of one-half to J. W. Scott Drilling Company, Tulsa, Okla., a corporation of Texas
Application August 25, 1941, Serial No. 408,150
6 Claims. (Cl. 103—23)



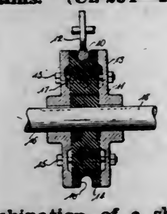
1. In an apparatus for lifting liquid from a well provided with a pump plunger to lift the liquid, a cylinder in which the plunger reciprocates, said cylinder having an inlet through which liquid is delivered to the plunger under normal pumping conditions, said inlet providing for the admission of gaseous fluid to the cylinder when the flow of liquid is interrupted, and a source of power to operate the plunger, the improvement which comprises a stopping device to discontinue the transmission of power to the plunger when a gaseous fluid is admitted through said inlet, said stopping device including a torsional oscillator through which motion is transmitted from said source of power to said pump plunger, said torsional oscillator being movable longitudinally under tension during the lifting strokes of said pump plunger, and relatively free of tension during the normal downward strokes, said oscillator being free to twist and untwist in response to variations in the tension, so as to oscillate during the normal pumping operations, an oscillatory operating member driven by said oscillator, and a stopping member to actuate said stopping device, said stopping member being in the path of said oscillatory operating member when said torsional oscillator is tensioned during a downward stroke of the pump plunger.

2,326,669
LIQUID WAX APPLICATOR
Harold C. Nimrick, Detroit, Mich.
Application September 25, 1941, Serial No. 412,271
6 Claims. (Cl. 15—138)



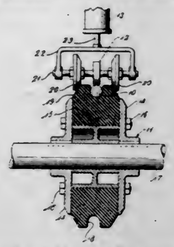
1. A liquid wax applicator comprising a hollow handle having an outer open end, a removable cap therefor, a tubular element at the opposite inner end of the handle, a plate carried by the said opposite end through which the tubular end extends, a flexible rubber washer having spaced flanges on opposite sides of the plate providing a flexible connection between the plate and the said tubular element, a pad on the side of the plate opposite that from which the handle extends, the hollow handle providing a means for carrying a supply of liquid wax, and manually operable valve means providing for flow by gravity of a desired quantity of the liquid from the handle to the pad.

2,326,670
SHEAVE AND PRESSURE RIDER
Joseph C. Patterson, Jr., Alexandria, Va.
Application August 21, 1941, Serial No. 407,811
5 Claims. (Cl. 254—176)



3. In the combination of a sheave having a peripheral groove to receive a cable or the like, a rider co-operating with said groove and means to apply pressure to said rider, a sheave comprising rigid flanges forming the sides thereof, a resilient body portion having a peripheral groove, said body portion lying between said flanges and being normally in contact therewith except in annular zones, each of which is defined, at least in part, by an inner face of a flange, the radial depth of the body portion being at least twice the diameter of the groove, and means passing through said zones for drawing said flanges toward one another to reduce the diameter of said groove, whereby to render the sheave adaptable to use with cables of different diameters and to allow compensation for wear of the groove.

2,326,671
SHEAVE AND PRESSURE RIDER
Joseph C. Patterson, Jr., Alexandria, Va.
Application February 4, 1943, Serial No. 474,746
6 Claims. (Cl. 254—176)



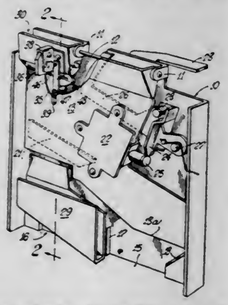
2. In the combination of a sheave having a peripheral groove to receive a cable, a rider cooperating with said groove and pressure means to apply pressure to said rider substantiailly radially of said sheave; a sheave comprising a resilient body portion in which the groove is formed, the peripheral edges of said body portion being beveled, a pair of riders having beveled faces adapted to cooperate with the beveled edges of said body portion and compress the periphery thereof longitudinally, and means connecting said last-named riders to the pressure means to be operated thereby, whereby upon operation of said pressure means all of the riders are actuated simultaneously.

2,326,672
METHOD AND COMPOSITION FOR THE TREATMENT OF AIR
Guy S. Paschal, New Rochelle, N. Y., assignor to himself and John T. Adams, New York, N. Y., jointly
No Drawing. Application February 11, 1941, Serial No. 378,375
8 Claims. (Cl. 21—53)

4. The process of treating the air in a confined space to freshen it that comprises the step of causing a solution of chlorophyll to be diffused into said space by spraying the solution into said space.

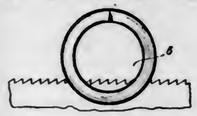
6. The treatment of air circulating in an air conditioning system which comprises the steps of causing diffusion into said circulated air of a mixture of chlorophyll and formaldehyde by spraying said mixture into the air.

2,326,673
COIN CHUTE
William Patzer and Walter A. Tratsch, Chicago, Ill.
Application October 7, 1939, Serial No. 298,394
4 Claims. (Cl. 194—97)



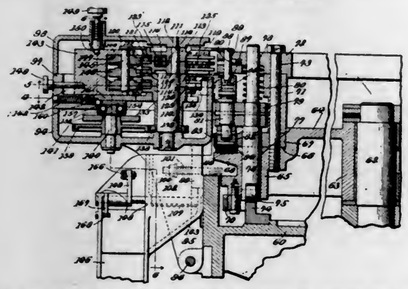
1. In a coin chute including an inclined coin passage down which coin elements gravitate, the combination of an entrance passage having its lower end terminating at the upper end of said coin passage, testing means at the juncture of said entrance passage and said coin passage, a pendently pivoted deflector having a coin engaging portion disposed in said coin passage on a side of said testing means toward the lower levels of said coin passage and in a vertical plane within the side margins of said entrance passage for normal engagement by coins in advance of gravitation thereof onto said inclined coin passage to deflect coins toward said testing means and being swingable in a direction away from said testing means to permit gravital movement of coins down said inclined coin passage.

2,326,674
INDUCTION HARDENING OF SAW TEETH
Harry A. Pavitt, Fitchburg, Mass., assignor to Simonds Saw and Steel Co., Fitchburg, Mass., a corporation of Massachusetts
Application July 26, 1940, Serial No. 347,666
2 Claims. (Cl. 148—21.5)



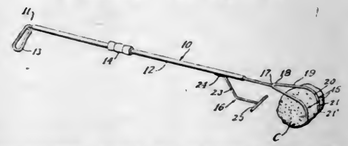
1. Method of hardening the teeth of a steel saw blade composed of "high speed tool steel", which comprises passing a high frequency induced current through the teeth of the blade to heat all particles of the teeth, both on the surface and in the interior thereof, to critical temperature without similarly heating other portions of the blade, and thereupon cooling the teeth to a temperature substantially below the critical temperature before substantial grain growth occurs; instead of either hardening the entire blade or merely surface hardening the teeth.

2,326,675
CROWN CAP COUNTING MECHANISM
Paul E. Pearson and Carl E. Magnus, Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application March 6, 1941, Serial No. 382,056
9 Claims. (Cl. 235—98)



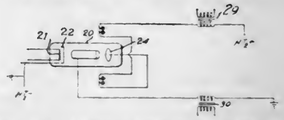
1. In cap counting mechanism, a traveling cap carrier, individual counting mechanism actuating elements carried by the carrier and including cap engaging portions and counting means actuating portions said cap engaging portions being engageable with caps on said carrier in a manner for controlling the positioning of the elements in effective position by reason of said cap engagement or in ineffective position in absence of said cap engagement whereby said elements are individually controlled as to non-effective or effective positions by the absence or presence on said carrier of individual caps, means for feeding caps onto said carrier, means for effecting disengagement of said cap engaging element portions individually from the caps and for discharging caps from said carrier, means for holding the counting means actuating element portions in said effective position after disengagement of said cap engaging element portions from the caps, and means actuated by said held element portions for counting the caps discharged from said carrier.

2,326,676
TONGS
George S. Peters, Evanston, Ill.
Application April 2, 1942, Serial No. 437,313
7 Claims. (Cl. 294—11)



1. In clinker tongs, an elongated handle shaft adapted to be grasped at one end by a user and having a pair of spaced tines extending from said other end at a slight angle to the longitudinal axis of said handle and then bent to extend at their end portions at an angle of approximately ninety degrees to said axis whereby said end portions of said tines may be used to loosen a clinker from a fire bed when said handle shaft is extended inwardly and downwardly through a furnace door and into the fire box of such a furnace, clamping means on said handle shaft shiftable to an unclamped relation wherein said clamping means will clear the fire bed during such a clinker loosening operation, and means for operating said clamping means to clamp a clinker against the side surfaces of said end portions and whereby said tongs and the clinker may be rotated about said axis of said handle to rest the clinker on the spaced intermediate portions of said tines.

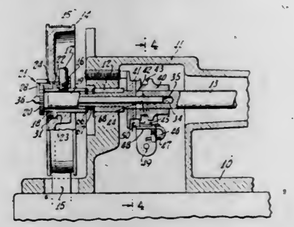
2,326,677
IONIC TUBE CIRCUITS
Adolf Perelmann, London, England
Application October 22, 1940, Serial No. 362,300
In Great Britain October 23, 1939
10 Claims. (Cl. 175—363)



1. A method of modifying an electric current, wherein a potential difference corresponding with the current is applied across the cathode-anode of an ionic discharge tube to produce between the said electrodes an electrostatic field and hence an electric current, modification of the latter current being achieved by applying a magnetic field transversely of the electrostatic field to cause at least a portion of the anode current to be diverted to a collector electrode disposed between the anode and cathode, the desired modified current being produced in an external circuit associated with the said collector electrode.

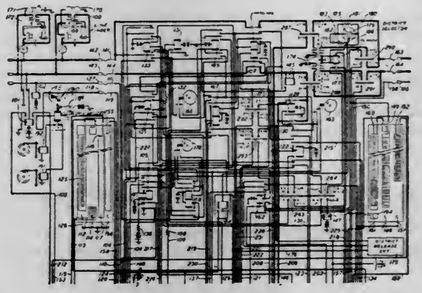
2. A method as claimed in claim 1, wherein an intermittent direct potential difference is applied across the anode-cathode of the ionic discharge tube in order to produce an alternating current in the collector circuit.

2,326,678
CLUTCH
John E. Renholdt, Bridgeport, Conn., assignor to Dictaphone Corporation, New York, N. Y., a corporation of New York
Application September 4, 1941, Serial No. 409,525
4 Claims. (Cl. 192—28)



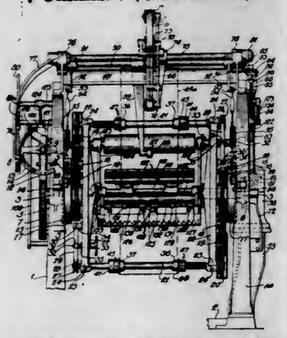
1. In a device of the character set forth, in combination, a driven shaft, a drive pulley relatively rotatable upon said shaft having an annular groove encircling said shaft, a clutch element rigid with said shaft, a drive shoe movable circumferentially in said annular groove, a clutch element carried by said drive shoe and movable into and out of driving engagement with said clutch element on said shaft, and a spring operatively disposed between said drive shoe and said drive pulley to take up shock when said clutch elements move into driving engagement.

2,326,679
PARTY LINE TELEPHONE SYSTEM
John B. Retallack, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 11, 1940, Serial No. 344,896
5 Claims. (Cl. 179—8.5)



1. In a telephone system, a line, two subscribers' stations connected thereto, a message register individual to each of said stations, an operating circuit for each of said message registers, a polarized relay selectively operable to close the circuit of either message register, a circuit for said relay and means for applying operating current of either polarity to said latter circuit for operating said relay, whereby the circuit of either one of said message registers is closed.

2,326,680
WEB TENSIONING FOR WEB SPLICING MACHINES
Charles L. Ricards, South Plainfield, N. J., assignor to Wood Newspaper Machinery Corporation, Plainfield, N. J., a corporation of Virginia
Original application September 1, 1937, Serial No. 162,002, now Patent No. 2,272,225, dated February 10, 1942. Divided and this application November 14, 1941, Serial No. 419,207
7 Claims. (Cl. 242—75)



1. The combination with a double arm reel for supporting two web rolls, of two means for applying tension each to one web roll separately, a single controlling means for governing each tension means in succession as it goes into action on the running roll, means for causing the tension to vary with the diameter of the roll, and means to stop the lessening of the tension before the roll is exhausted.

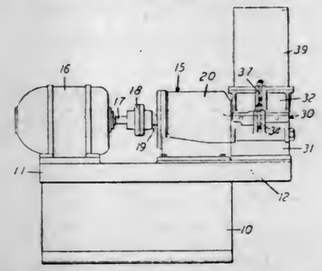
2,326,681
LOCK NUT
Irving Richardson, Newark, N. J.
Application April 14, 1943, Serial No. 482,953
9 Claims. (Cl. 151—7)



1. A lock nut blank having a coaxial cylindrical socket protruding from one face thereof, the rim of said socket having a sequence of substantially flat triangular teeth with the apices thereof near the inner periphery of said rim, and substantially plane surfaces converging from the sides of said triangles and meeting to form intervening depressed hollow wedge-shaped teeth that are widest at the inner periphery of said rim.

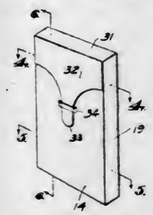
2,326,682
ROTARY CUTTING AND GRANULATING MACHINE
Fred M. Roddy, Providence, R. I.
Application January 7, 1942, Serial No. 425,922
5 Claims. (Cl. 83—6)

1. A rotary cutting or granulating machine comprising an overhanging support, a bearing housing, a rotor shaft journaled in said housing and having an end portion overhanging one end of said housing, and disposed above said overhanging support, knives carried by said overhanging end portion of said rotor shaft forming a rotary cutter, an end casing on said overhanging support enclosing and forming a cutting chamber about said rotatable knives, said casing comprising upper and lower separable end casing members, two knives within said lower end casing member arranged at opposite sides of said rotary cutter in cooperative relation thereto, a screen beneath and spaced from said rotary cutter and supported by said lower end casing member, and means detachably securing and accurately locating said lower end casing on the end of said



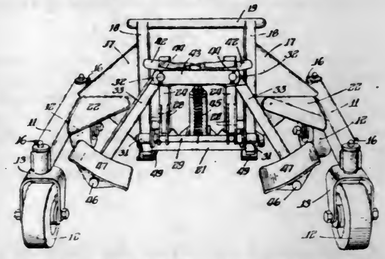
housing, said lower end casing resting on but being unattached to said overhanging support and, when disconnected from said bearing housing, being removable in a direction axially of said rotary cutter for cleaning of the machine.

2,326,683
CARTON COIN CONTAINER
Charles Ross, Los Angeles, Calif., assignor of one-half to John A. Earhuff, Los Angeles, Calif.
Application January 12, 1942, Serial No. 426,404
6 Claims. (Cl. 229—8.5)



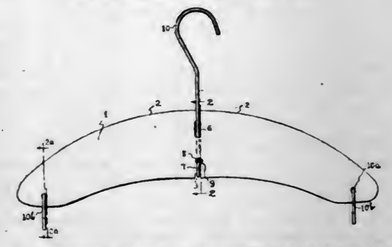
1. In a device of the kind described, an elongated piece of stiffened sheet material which, adjacent to its mid-length, is transversely bent at a right angle toward the same side along each of two parallel lines which are spaced apart from each other a sufficient distance to include between them the thickness of a coin-receiving chamber, the strip of material between said parallel lines forming the bottom of said chamber, a part of the sheet forming the back of said chamber and being extended at each side to form one of two wings, said wings each being right angularly bent along parallel lines and having terminal flaps which abut against each other lengthwise of the device, each of said wings forming the front and side walls of a separate chamber which is rectangular in cross section, the sheet having an angularly bent flap which forms the top wall of the coin chambers and which has a coin slot for each of said chambers, the part of the sheet at that side of said bottom forming strip which is opposite to the winged portion of the sheet being folded over upon and attached to the outer faces of said wings and thence extended beyond said attached portion to form a flap deflectable into an overlying relation to said coin slots, said deflectable sheet portion terminating in a tongue, the front wall of the device having a keeper element to cooperate with said tongue to maintain the flap of which it forms a part in the coin slot closing position.

2,326,684
DOLLY
William A. Ross, Springfield, Ill., assignor to Weaver Manufacturing Company, Springfield, Ill., a corporation of Illinois
Application June 6, 1942, Serial No. 446,053
10 Claims. (Cl. 214—65.4)



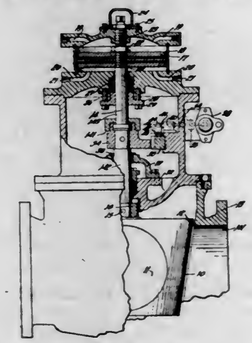
1. In a dolly of known type having a frame, carrying-wheels supporting said frame, a pair of oppositely-facing shoes, and means mounting said shoes on said frame (*a*) for their contraction toward one another in the plane of a vehicle-wheel to engage opposite lower portions of the tread of the wheel while the latter is supported on the ground or floor and for their expansion from one another to release the wheel, and (*b*) for elevation and lowering of said shoes while supporting said wheel, the novel combination of means normally maintaining said shoes in their expanded relation, and a single operating-means on said frame when actuated first producing said contraction of said shoes in the plane of the wheel into said engagement with the wheel-tread and then said elevation of said shoes and the raising of said wheel while supported by the shoes, the weight of said wheel and its load thereon lowering said shoes and wheel when permitted to do so by said operating-means, said shoe-expanding means automatically producing said expansion of said shoes and thus releasing said wheel subsequent to the landing of said wheel on the ground or floor.

2,326,685
GARMENT HANGER
Henry C. Ruen, Detroit, Mich., assignor, by mesne assignments, to Cleaners Hanger Company, a corporation of Michigan
Substituted for abandoned application Serial No. 123,640, February 2, 1937. This application April 7, 1942, Serial No. 438,015
2 Claims. (Cl. 223—87)



1. A garment hanger comprising a wire hanger member, having a hooked upper end and upturned at its lower end to form a clip, and a laterally elongated, garment-carrying member having an aperture approximately midway between its ends, affording a passage for the hanger member, and having an edge downward from such aperture, presenting a substantially horizontal portion to said clip and adapted to be embraced by the clip through an upward actuation of the hanger member, in completing the assembly, said edge being formed with a notch wherein the clip is engaged upon said upward actuation of the hanger member.

2,326,686
VALVE AND MEANS FOR OPERATING THE SAME
Eric A. Rutledge, Troy, N. Y., assignor to Rensselaer Valve Company, Cohoes, N. Y., a corporation of New York
Application August 3, 1940, Serial No. 350,563
4 Claims. (Cl. 137—139)

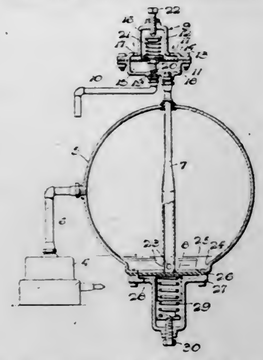


1. In a device of the character described, a cone valve rotatable between two operative positions, a source of fluid under pressure, a first fluid operated motor connected to rotate said cone valve, a second fluid operated motor connected to seat and unseat said cone valve, a secondary valve for controlling flow of fluid to and exhaust of fluid from said second motor, a primary valve to control flow of fluid from said source to and exhaust of fluid from said first motor and said secondary valve; said cone valve being connected to operate said secondary valve from an open position, in which fluid is supplied to said second motor to unseat the cone valve, to a closed position of said secondary valve, in which supply of fluid to and exhaust of fluid from said second motor is prevented, upon initiation of rotation of said cone valve from either of its said operative positions; and said cone valve being also connected to operate said secondary valve from said closed position to a second open position, in which fluid is supplied to said second motor to seat said cone valve, as said cone valve is rotated to approach either of its said operative positions.

2,326,687
FLUID PRESSURE MECHANISM
Roy S. Sanford, Middlebury, Conn., assignor to Bendix-Westinghouse Automotive Air Brake Company, Elyria, Ohio, a corporation of Delaware
Application December 11, 1941, Serial No. 422,597
10 Claims. (Cl. 303—88)

1. The combination with a reservoir for receiving fluid under pressure, of a conduit for exhausting condensate from said reservoir to atmosphere having one end thereof within said reservoir and terminating adjacent the bottom thereof, valvular means associated with said conduit and operable in response to variations in pressure in said reservoir for opening said conduit for permitting the exhaust of condensate

therethrough, pressure responsive means positioned adjacent the end of said conduit in the bottom of the reservoir and movable for breaking frozen condensate and preventing clogging



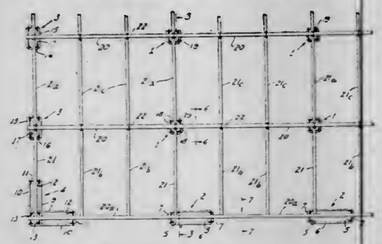
of said end of the conduit thereby, and resilient means for normally maintaining said valvular means and pressure responsive means in a predetermined position.

2,326,688

STRUCTURAL ELEMENTS

Maurice Sasso, Los Angeles, Calif.

Application January 31, 1941, Serial No. 376,879
4 Claims. (Cl. 189—34)



2. In a building structure having air core columns which have vertical corner legs and horizontal floor members; horizontal supports fixed to the legs and forming a perimetrical part of their respective columns, said members passing through the columns and being continuous between them and resting upon the supports at positions spaced from the legs of the columns, said members having rigid connection with one another and non-rigid connection with the columns whereby said members may rock with respect to the columns.

2,326,689

STORAGE BATTERY SEPARATOR

Bruno H. Schubert, Weehawken, N. J., assignor to National Lead Company, New York, N. Y., a corporation of New Jersey

No Drawing. Original application April 14, 1939, Serial No. 267,923, now Patent No. 2,290,496, dated July 21, 1942. Divided and this application October 2, 1941, Serial No. 413,299
6 Claims. (Cl. 136—149)

1. A storage battery separator substantially free from naturally occurring fats, waxes, resins, wood acids and salts of wood acids and having incorporated therein a small added amount of an active organic ligneous compound.

2,326,690

COMPOSITION STORAGE BATTERY SEPARATOR AND METHOD OF MAKING THE SAME

Bruno H. Schubert, Weehawken, N. J., assignor to National Lead Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application October 2, 1941, Serial No. 413,300
9 Claims. (Cl. 136—146)

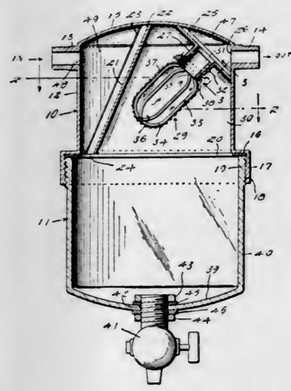
1. Method of manufacturing an improved composition storage battery separator composed essentially of porous rubber which comprises intimately mixing a small amount of an active organic ligneous compound with the primary constituents from which the separator is fabricated and thereafter fabricating the separator.

2,326,691

FREE FLOW LIQUID FUEL FILTER

Walter S. Schum, Kinzers, Pa.

Application April 7, 1941, Serial No. 387,290
2 Claims. (Cl. 210—165)



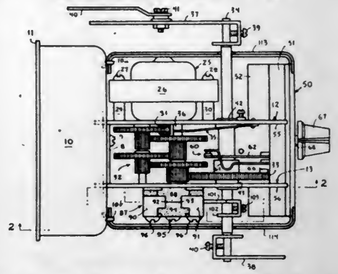
1. In a fluid filtering device, a lower receptacle open at its upper end, an inverted upper receptacle secured to the upper end of said lower receptacle, said upper receptacle including a cylindrical side wall and a dome-shaped top wall, an inlet nipple carried by said side wall adjacent the upper portion thereof, an outlet nipple diametrically opposed to said inlet nipple, an elongated baffle fixed along its longitudinal and top edges to the inner surfaces of the side and top walls and inclined upwardly and inwardly, the lower edge of said baffle being spaced from said side wall to thereby provide a lower outlet communicating with said lower receptacle, said baffle at its upper portion confronting the inner end of said inlet nipple and forming an inlet chamber, said inlet chamber gradually reducing toward said lower outlet, a second baffle fixed at its lower and side edges to said side wall and fixed at its upper edge to said top wall at a point spaced from the upper edge of said first baffle, said second baffle being inclined upwardly and inwardly and confronting the inner end of said outlet nipple to thereby form an outlet chamber, a downwardly and inwardly inclined nipple carried by said second baffle, a flexible filtering element, and frame-like means supporting said element from said latter nipple, said supporting means disposing said element on a downwardly and inwardly disposed inclination entirely within said upper receptacle.

2,326,692

MOTOR OPERATOR ASSEMBLY

Sylvanus C. Shipley, Minneapolis, Ward H. Ingersoll, St. Paul, and Benjamin Cyr, Minneapolis, Minn., assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application January 20, 1940, Serial No. 314,862
13 Claims. (Cl. 172—36)



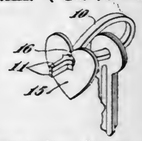
1. In a motor operator assembly, in combination, a frame comprising spaced members, a motor and a reduction gear train, said gear train including shafts journalled in said spaced members, a housing for said assembly, a panel detachably secured to said frame and forming a part of said housing, said panel having switch means supported thereon, and means operable by said motor for actuating said switch means, said switch means comprising switch blades depending from said panel into engagement with said actuating means when said panel is in position.

2,326,693

RETAINER

Jay J. Sindler, Boston, Mass.

Application January 7, 1942, Serial No. 425,887
1 Claim. (Cl. 70—458)



A device for retaining keys or other articles having eyes therein, comprising in combination a strip of rubber-like elastic material having sagittate ends, the articles being strung on the portion of the strip between such ends, and a plate having a hole therein no transverse dimension of which is greater than one transverse dimension of the sagittate ends, both ends of the strip being pulled through the hole in the plate so that the plate is between the article-receiving portion of the strip and the sagittate ends thereof.

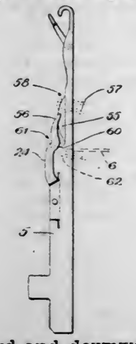
2,326,694

STITCH-TRANSFERRING DEVICE

Julius Sirmay, Philadelphia, Pa., assignor to Jacquard Knitting Machine Co., Inc., Philadelphia, Pa., a corporation of New York

Application November 8, 1938, Serial No. 239,499
11 Claims. (Cl. 66—95)

1. In a knitting machine, a needle having a hook at an end thereof, a sidewise-extending loop-opening clip at one side of the needle and having its end nearer the needle hook free, and a forwardly-extending projection, inclined forwardly and downwardly, to enter a loop to be transferred prior to the entry therein of the widest extent of the clip and of a thickness not substantially greater than the thickness of the needle, characterized by the fact that the forwardly-facing edge of the clip substantially continues the forward and downward inclination of said projection to a point further forward than any point on the projection.

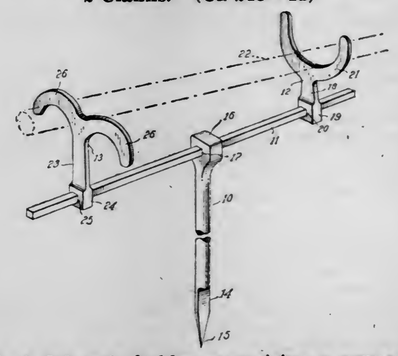


2,326,695

FISH POLE HOLDER

Leo Snider, Canton, Ohio

Application November 14, 1942, Serial No. 465,577
2 Claims. (Cl. 248—44)



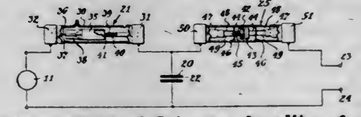
2. A fish pole holder comprising a supporting post having a flat sided opening through its upper portion, a flat sided rod slidably adjustable through said opening, a rest member having a flat sided opening slidably receiving said rod, said rest member being arranged to receive and support the handle portion of a fish pole, and a hook member having a flat sided opening slidably receiving said rod and having a downwardly curved hook arranged to engage over the end of said handle portion to hold the fish pole in adjusted position.

2,326,696

BLASTING MACHINE

Ralph N. Stoddard, East Orange, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

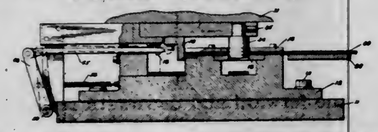
Application April 30, 1940, Serial No. 332,495
4 Claims. (Cl. 175—115)



1. The method of firing a plurality of electric

blasting caps which comprises generating an alternating current, rectifying the current, accumulating and storing the rectified current of less than firing value, preventing discharge at less than firing value, automatically discharging the stored current upon attaining firing value into a firing line, and supplying firing current to the plurality of blasting caps simultaneously.

2,326,697
FEEDING MECHANISM
Joseph Stuart, II, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
Application August 20, 1941, Serial No. 407,563
5 Claims. (Cl. 164—15)



1. A feeding mechanism comprising a reciprocating hook-like member adapted to impart a step by step movement to a strip of a plurality of layers of smokeless powder by intermittently engaging and releasing said strip by means of perforations in said strip.

2,326,698
COATING COMPOSITION CONTAINING POLYVINYL ACETATE METHYLAL
Robert C. Swain, Riverside, and Pierrepont Adams, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application December 26, 1940, Serial No. 371,783
3 Claims. (Cl. 260—42)

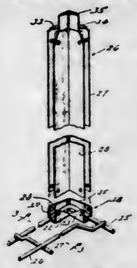
1. A coating composition containing polyvinyl acetate methylal and a melamine-formaldehyde resin which has been heated until reacted with an alcohol selected from the group consisting of butyl alcohols and benzyl alcohol, wherein the molal ratio of formaldehyde to melamine is at least about 4:1 and wherein the weight ratio of polyvinyl acetate methylal to melamine resin is at least about 3:2.

2,326,699
COATING COMPOSITION CONTAINING POLYISOBUTYLENE
Robert C. Swain, Riverside, and Pierrepont Adams, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application December 26, 1940, Serial No. 371,784
2 Claims. (Cl. 260—42)

1. A coating composition containing polyisobutylene and a melamine-formaldehyde resin which has been heated until reacted with a butyl alcohol wherein the molal ratio of formaldehyde to melamine is at least about 4:1 wherein the weight ratio of polyisobutylene to melamine resin is at least 3:2.

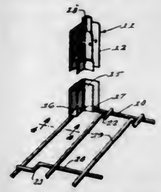
2,326,700
CRATE
Donald R. Swingle and William W. Robinson, Chattanooga, Tenn., assignors to Cumberland Case Company, Chattanooga, Tenn., a corporation of Tennessee
Application January 7, 1941, Serial No. 373,497
6 Claims. (Cl. 217—65)

1. A crate comprising a rectangular bottom wire constituting a runner, angular corner fittings welded on top of said wire, upright corner elements each comprising inner and outer angles secured to said fittings, a supporting grid se-



cured to said wire, and slats above said wire with their ends secured between the inner and outer angles of said corner elements.

2,326,701
CRATE
Donald R. Swingle and William W. Robinson, Chattanooga, Tenn., assignors to Cumberland Case Company, Chattanooga, Tenn., a corporation of Tennessee
Application January 7, 1941, Serial No. 373,498
4 Claims. (Cl. 217—65)



1. A crate having a rectangular bottom wire constituting a runner, corner elements rising from said wire, each of said elements including an outer angle welded to the outside of the wire and an inner angle having a foot portion welded to the top of the wire, a supporting grid welded to said wire, and slats above said wire with their ends secured between the angles of said corner elements.

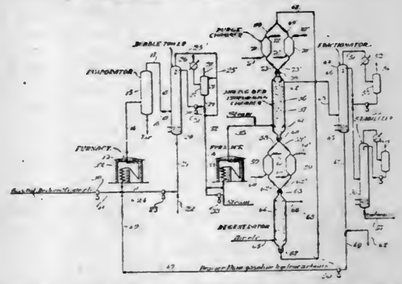
2,326,702
ETHERS
Fred Lowell Taylor and Clarence L. Moyle, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application December 23, 1940, Serial No. 371,404
3 Claims. (Cl. 260—613)

1. A compound having the formula

$$\left(\begin{array}{c} CH_3 \\ | \\ A-C- \\ | \\ H \end{array}\right)_{A_1}-O-C_nH_{2n}-O-C_nH_{2n}-Cl$$

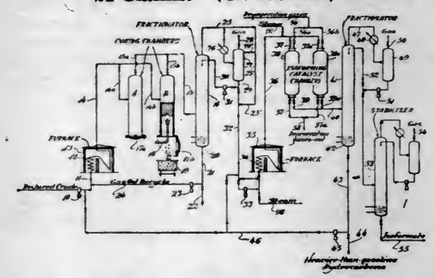
wherein A represents an aromatic radical selected from the group consisting of phenyl and phenyl radicals containing at least one of the substituents chloro, bromo, alkyl, and cyclohexyl, A_1 represents an aromatic radical selected from the group consisting of phenyl and phenyl radicals containing at least one of the substituents chloro, bromo, alkyl, alkoxy, benzyl, and cyclohexyl, m is an integer not greater than 3, and n is an integer from 2 to 4, inclusive.

2,326,703
ISOFORMING
Ernest W. Thiele and George E. Schmitkons, Chicago, Ill., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application August 3, 1940, Serial No. 350,272
9 Claims. (Cl. 196—49)



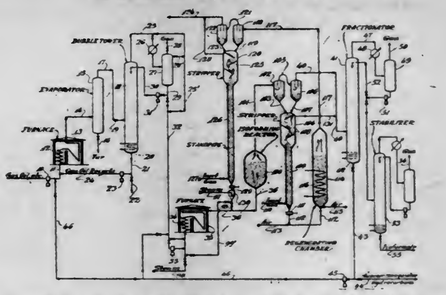
9. The method of improving the knock rating of a thermally cracked naphtha which comprises contacting said naphtha with a moving bed of a silica-alumina catalyst at a temperature of about 875 to 1150° F., a pressure of about atmospheric to 25 pounds per square inch and a space velocity within the approximate range of six to twenty volumes of liquid thermally cracked naphtha feed per volume of catalyst space per hour and sufficient to give a liquid yield within the approximate range of 94 to 99 weight per cent and an octane number improvement of at least about 5 A. S. T. M. octane number units.

2,326,704
COKER-ISOFORMING SYSTEM
Ernest W. Thiele, George E. Schmitkons, and Carl Max Hull, Chicago, Ill., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application November 20, 1940, Serial No. 366,376
21 Claims. (Cl. 196—50)



1. The method of refining high boiling carbonaceous materials for the production of marketable coke and high quality motor fuel having a clear A. S. T. M. octane number of at least 65 which method comprises rapidly heating said high boiling carbonaceous material to a temperature of about 850 to 1000° F., introducing said heated material into an enlarged coking drum at a pressure of about atmospheric to 100 pounds per square inch, withdrawing vapors from said coking drum until said drum becomes substantially filled with coke, then transferring the heated materials to another enlarged coking drum, removing marketable coke from said first named drum, fractionating the vapors leaving said coking drums to remove therefrom materials boiling above about 450° F. from a coker naphtha, heating said coker naphtha to a temperature of about 625 to 1100° F. under a pressure of about atmospheric to 50 pounds per square inch gauge, contacting said heated coker naphtha vapors with an isoforming catalyst at a rate within the approximate range of 4 to 40 volumes of liquid coker naphtha per hour per volume of catalyst space for obtaining a volume percent liquid yield within the approximate range of 94 to 99 and an octane number improvement of at least about 5 to 15 A. S. T. M. octane units and recovering a motor fuel of the gasoline boiling range from the products of said contacting step.

2,326,705
ISOFORMING
Ernest W. Thiele, George E. Schmitkons, and Carl Max Hull, Chicago, Ill., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application November 28, 1940, Serial No. 367,582
11 Claims. (Cl. 196—50)



1. The method of producing high octane number motor fuel from charging stock of the class consisting essentially of gas oil and heavier hydrocarbons which method comprises thermally cracking said charging stock to produce a thermally cracked naphtha having an end point below about 450° F. together with lighter and heavier products, removing the heavier products from the thermally cracked naphtha, heating the thermally cracked naphtha to a temperature of about 850 to 1100° F., introducing into a contacting zone a powdered isoforming catalyst and the hot naphtha stream in amounts sufficient to give a catalyst-to-oil weight ratio of materials entering said contacting zone within the approximate range of .001:1 to 10:1, retaining catalyst in said contacting zone in amounts and for a period of time as defined by the following formula:

$$T=at^{0.534}$$

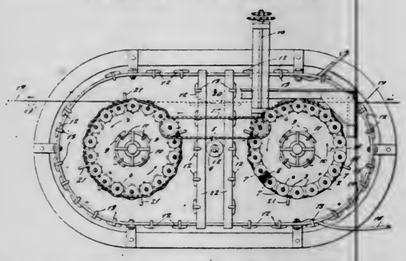
where T is tons of catalyst in contacting zone per hundred barrels of charging stock per hour which is introduced thereto, a is a constant ranging from about .05 to about .005 and t is the overall catalyst residence time in the reactor in minutes, separating the powdered catalyst from reaction vapors leaving said contacting zone and fractionating the vapors to obtain a gasoline fraction, a heavier-than-gasoline fraction and a lighter-than-gasoline fraction.

2,326,706
MANUFACTURE OF CATALYSTS
Charles L. Thomas and Jacob Elston Ahlberg, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application August 5, 1939, Serial No. 288,577
14 Claims. (Cl. 252—250)

1. A process for the manufacture of catalysts

for use in hydrocarbon conversion reactions, which comprises depositing a hydrated alumina upon a precipitated hydrated silica gel by the hydrolysis of an aluminum salt, said silica gel and alumina being precipitated in an aqueous medium containing an ammonium compound, treating the precipitated material with a reactant capable of separating alkali metal compounds from the gel and water to substantially remove alkali metal ions, heating the precipitated material to remove the major portion of the water content, forming particles of definite size and calcining above temperatures of about 800° F.

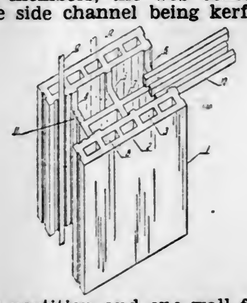
2,326,707
APPARATUS FOR ELECTROPLATING
Frederick W. Thomas, Englewood, N. J., and Robert D. Maclachlan, Barrington, R. I., assignors to Crown Fastener Corporation, Warren, R. I., a corporation of Delaware
Application May 29, 1940, Serial No. 337,752
4 Claims. (Cl. 204—199)



1. Apparatus adapted for the continuous electroplating of electrically conducting articles including separable fasteners, said articles being secured in spaced relation on an electrically nonconducting carrier, said apparatus comprising an electrolytic cell having two chambers containing an anode and a cathode, respectively, said chambers being separated by a structure comprising a series of bipolar electrodes mounted for individual rotation about their axes and a series of insulating members alternately disposed in relation to said electrodes and in sliding contact therewith; means to rotate said cylinders whereby a portion of the surface of each cylinder is alternately in the anode chamber and is then negative in relation to the anode therein and in the cathode chamber and is then positive in relation to the cathode therein so that metal deposited on said cylinder in the anode chamber is stripped therefrom in the cathode chamber; and means to continuously pass said articles, mounted on said carrier, successively into contact with each of said cylinders to deposit metal from said electrolyte on said articles.

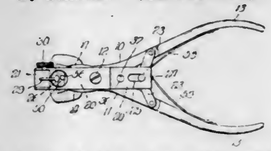
2,326,708
HOLLOW BUILDING UNIT FOR STEEL REINFORCED WALLS
Edwin F. Wanner, Pittsburgh, Pa., assignor to National Fireproofing Corporation, Pittsburgh, Pa., a corporation of Pennsylvania
Application April 17, 1940, Serial No. 330,070
3 Claims. (Cl. 72—41)

1. A building block comprising parallel walls having a plurality of cross-webs joined centrally by a partition extending parallel to said walls, said cross-webs being spaced to provide an open channel between the walls at one side of the block for vertical reinforcing members, and said webs and partition terminating short of one end of the block to provide a channel for horizontal reinforcing members, the web constituting the base of the side channel being kerfed between



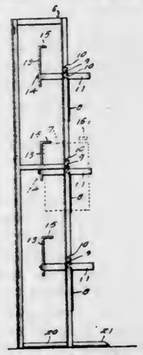
the central partition and one wall for breaking out a portion of the cross-web to provide an L-shaped internal column.

2,326,709
TOOL
William U. Watson, Chicago, Ill.
Application July 23, 1941, Serial No. 403,686
17 Claims. (Cl. 140—55)



1. In a tool of the character described for applying rings to eyelets of medals and the like, a stationary plate member for receiving and supporting a ring-like member having spaced apart ends, anvil means including a pair of members pivoted together and pivotally mounted on said plate member for movement about an axis substantially normal to the supporting surface of the plate member to operate over the surface of said plate member for engaging said ring-like member and substantially closing said spaced apart ends, said ring-like member being supported on said stationary plate member during operation of said anvil means, and means for effecting operation of said anvil means.

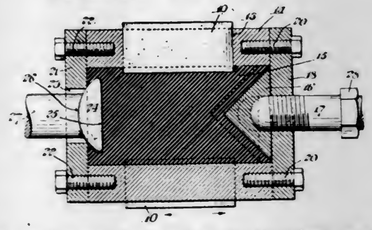
2,326,710
STORAGE RACK
Clark H. Waycott, Sr., Sacramento, Calif.
Application May 4, 1942, Serial No. 441,690
1 Claim. (Cl. 211—81)



In a storage rack of the character described,

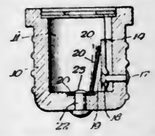
a vertical frame structure adapted for the pivotal support of containers, said frame structure including vertical corner posts, container supporting saddles pivotally mounted between the corner posts, each saddle including a vertical U-shaped strap, a horizontal strap having the side legs thereof secured intermediate their ends to the upper ends of the legs of the vertical strap, pivot pins at the points of connection of said straps for mounting on said corner posts, the spaced front ends of the horizontal side legs carrying inwardly directed extensions adapted to overlie a container supported in the saddle, and a container brace bar having its lower end supported on and vertically adjustable relative to the closed end of the horizontal U-shaped strap with its upper end angularly bent to overlie the upper end of a container.

2,326,711
HONING MECHANISM
Alfred Weiland, South Charleston, W. Va., assignor to General Machinery Ordnance Corporation, South Charleston, W. Va., a corporation of Ohio
Application May 26, 1942, Serial No. 444,591
10 Claims. (Cl. 51—184.1)



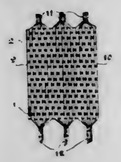
1. A reciprocable honing mechanism consisting of a head to enter the bore of a gun barrel, abrasive stones mounted for movement relative to said head and arranged to be projected beyond the periphery of said head, and means including a solid resilient deformable body confined against deformation except in the direction of said stones for projecting said stones outwardly into contact with the interior of said gun barrel.

2,326,712
CIRCUIT BREAKING PLUG
Harry Weiner, Chicago, Ill., assignor to Florio G. Flosi, doing business as Allied Industries, Chicago, Ill.
Application October 26, 1942, Serial No. 463,337
5 Claims. (Cl. 200—113)



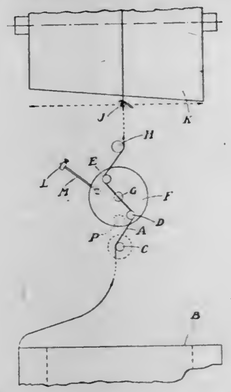
1. A circuit breaking plug embodying a casing of non-conducting material having an open end, two contact members within the casing normally separate from each other, but having a point contact engagement, contact terminals individual to said members and extending to the outside of the casing, the composition of said contact members being such that when a normal current is initially passed through said members they will fuse together at said point of contact, and when said members, after they are fused together, are subjected to an abnormal current, the point of fusion will soften and one of said contact members will be forced away from the other contact member to interrupt the circuit, the residual magnetism in one of said contact members after the separation of the members, and the inherent resiliency in the other contact member operating, when said abnormalcy is relieved, to cause the contact members to be brought into engagement, said members then again becoming fused together.

2,326,713
SHIELDING DEVICE
William J. Wesseler, East Cleveland, Ohio
Application October 25, 1939, Serial No. 301,197
19 Claims. (Cl. 89—36)



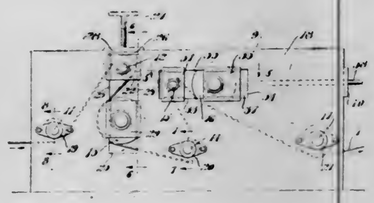
1. A protective device resistant to destruction through shock of impact or explosion, comprising a fabric formed of a plurality of series of strands of resistant wire-like material knitted with loops drawn tight to present relatively smooth surfaces formed by interknitted series of longitudinally extending substantially parallel strands of similarly looped structure on each side.

2,326,714
THREAD TENSIONING APPARATUS
Fred Wholton, Croft, near Leicester, England, assignor to Courtaulds Limited, London, England, a British company
Application July 29, 1942, Serial No. 452,795
In Great Britain January 29, 1942
3 Claims. (Cl. 242—154)



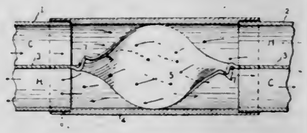
1. A device for compensating the tension in a running thread comprising two fixed guides, an axis situated between said fixed guides, a member mounted for free rotation on said axis, two guides attached to said member on opposite sides of said axis and moving with said member, and means attached to said member which means tend to cause the member to rotate about its axis in such a direction as to increase the length of the path along which the thread moves in contact with the two guides attached to said member.

2,326,715
MANUFACTURE OF CENTER STRETCHED STRIP
Lloyd L. Wilson, Sharpsville, and Harold W. Lowmiller, Farrell, Pa., and Maxwell L. Bible, Masury, Ohio, assignors to Sharon Steel Corporation, Sharon, Pa., a corporation of Pennsylvania
Application February 13, 1941, Serial No. 378,778
10 Claims. (Cl. 153—35)



1. Apparatus for center stretching a strip longitudinally thereof including a frame having laterally spaced side plates, a series of irregularly staggered convex rolls journaled at their ends in said side plates, means for pulling a continuous strip in a sinuous path successively past said rolls with its upper surface in contact with certain of said rolls and with its lower surface in contact with others of said rolls, and floating mountings in said side plates for certain of said rolls whereby the tensioned pull on the strip adjusts the location of said floating rolls with respect to the non-floating rolls to control the direction and equalize the tension on the strip between said non-floating rolls.

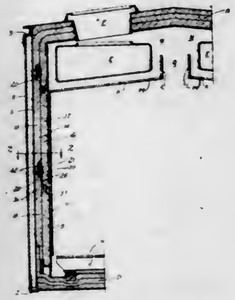
2,326,716
DUAL FLOW PIPE FITTING
Edwin J. Wood, Detroit, Mich.
Application September 19, 1941, Serial No. 411,458
2 Claims. (Cl. 138—38)



1. In a dual flow pipe, a partition inserted in said pipe in a substantially diametrical relation thereto, said partition being formed at opposite margins thereof with indentations projecting from opposite sides of the partition, and said pipe having indentations engaging in said indentations of the partition.

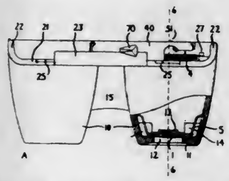
2,326,717
REFRIGERATOR CAR CONSTRUCTION
Kurt E. Zeidler, Chicago, Ill., assignor to Standard Railway Equipment Manufacturing Company, Chicago, Ill., a corporation of Delaware
Application August 2, 1940, Serial No. 349,727
15 Claims. (Cl. 20—4)

1. In an insulated wall, a wall element forming part of the wall, an insulation blanket adjacent thereto, a cleating member secured to said wall element and arranged to compress said blanket therebetween; a second insulation blanket disposed in flatwise relation with the first mentioned blanket, a rod depending from



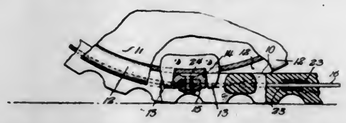
said member, and means to attach said second blanket to the lower end of said rod.

2,326,718
STEREOSCOPE
Gifford M. Mast, Davenport, Iowa, assignor to Tru-Vue, Inc., Rock Island, Ill.
Application January 7, 1941, Serial No. 373,420
11 Claims. (Cl. 88—29)



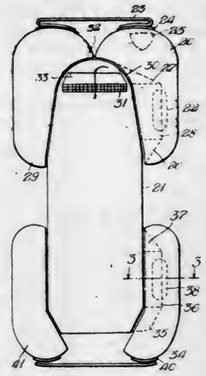
1. A stereoscope, adapted for use with a strip of picture film, comprising a casing formed of a body portion, including eye-tubes open at one of their ends, lenses in the other ends thereof, a lid removably engageable with the open end of the casing, to form a closure therefor, with a passage between the body portion and lid for the movement of a strip of film, translucent windows in said lid in register with the eye-tubes, means for guiding a strip of film through said passage, operable from without the casing, and means in said lid for holding said last-named means normally out of engaging position.

2,326,719
CABLE
Edward C. Myers, Kenosha, Wis.
Application December 30, 1935, Serial No. 56,793
13 Claims. (Cl. 305—10)



1. A flexible band track for track laying tractors and the like including rubber covered flexible metal tensioning members, rubber covered cross members at intervals therealong, tread body rubber encasing and adhering to the surface of the rubber covered metal members, intermediate driving members on said cross members, and guides for cooperating with the tractor drive wheel secured to the ends of said cross members.

2,326,720
PNEUMATIC PROTECTOR FOR AUTOMOBILES
Clauss Burkart Strauch, Milwaukee, Wis.
Application December 19, 1939, Serial No. 309,990
3 Claims. (Cl. 280—152)



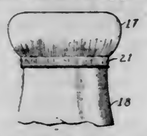
1. A non-symmetrical pneumatic fender for automobiles comprising an outer casing, and a plurality of inflated inner members substantially filling the outer casing and as an aggregate, maintaining the outer casing in its desired non-symmetrical shape substantially without bulging, said inner members being hollow and formed of flexible, substantially inextensible material, said inner members being arranged in close proximity to each other and having outer portions bearing against the casing, said outer portions of the inner members having contours corresponding to a portion of a symmetrical geometrical surface of revolution, whereby bulging of the non-symmetrical casing is prevented.

2,326,721
CYANOETHYL ETHER OF TERTIARY AMINO ALCOHOLS
Herman A. Bruson, Philadelphia, Pa., assignor to The Resinous Products & Chemical Company, Philadelphia, Pa., a corporation of Delaware
No Drawing. Application January 15, 1941, Serial No. 374,604
4 Claims. (Cl. 260—464)

1. A 2-cyanoalkyl ether of a hydroxyl-containing tertiary amine selected from a member of the class consisting of amines containing a hydroxyaralkyl radical, amines containing a hydroxyalkyl radical, and amines containing a hydroxyalkyl radical the alkyl chain of which is interrupted by at least one member of the class consisting of oxygen and sulfur, said 2-cyanoalkyl group being selected from a member of the class consisting of 2-cyanoethyl and 2-cyano-1-methylethyl groups.

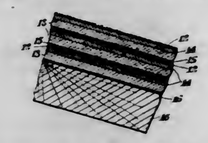
2,326,722
METHOD OF SEALING BOTTLES AND THE LIKE
Anton Burkardt, New York, N. Y., assignor to Pneumatic Cap & Seal Corporation, New York, N. Y., a corporation of Delaware
Application April 7, 1942, Serial No. 437,949
3 Claims. (Cl. 215—38)

3. A hood seal for bottles comprised of a cup-shaped core of fibrous material of approximately .007" thick having on the outer face thereof a coating of thermoplastic material approximately .00025" thick and adapted to be rendered tacky under heat of approximately 350° F. applied for one-half second, and a coating on its inner face of thermoplastic material approximately .00025"



thick and adapted to be rendered tacky under heat of approximate 135° F. applied for one-half second, the skirt portion of the hood seal being interfolded to form a band.

2,326,723
ROOFING
George Arthur Fasold, Mount Healthy, and Harold W. Greider, Wyoming, Ohio, assignors to The Philip Carey Manufacturing Company, a corporation of Ohio
Application December 18, 1940, Serial No. 370,636
19 Claims. (Cl. 154—51)

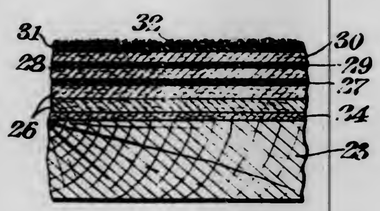


1. A roof covering having high resistance to fire comprising fibrous sheet material and thermoplastic bituminous coating material coating said sheet material, said coating material containing bitumen having a softening point above 160° F. and of the range 45% to 70% by weight of the coating material, and said coating material containing uniformly distributed therein and over said sheet material finely-divided solid water-insoluble heat-resistant mineral filler of the range 30% to 55% by weight of the coating material, at least 30% by weight of said coating material consisting of said finely-divided solid water-insoluble heat-resistant mineral filler which passes a 14-mesh testing sieve and over 50% by weight of which is retained on a 200-mesh testing sieve and which constitutes at least 15 pounds per 100 square feet of said roof covering and which has a flow resistance value of at least 40 minutes when a bituminous composition consisting of 65% by weight of coating asphalt having a softening point of 230° F. and 35% by weight of said filler is subjected to flame temperature under the flow resistance test as defined herein, said coating material when heat plasticized being spreadable to form a layer of uniform thickness and uniform consistency.

8. A roof covering having high resistance to fire comprising a plurality of sheets of fibrous sheet material impregnated with an asphaltic bitumen and thermoplastic bituminous coating material disposed in a plurality of layers and adherently coating said sheet material, said coating material containing asphaltic bitumen having a softening point above 160° F. and of the range 45% to 70% by weight of the coating material, and said coating material containing uniformly distributed therein finely divided solid water-insoluble heat-resistant mineral filler of the range 30% to 55% by weight of the coating material, at least 30% by weight of said coating material consisting of said finely-divided solid water-insoluble heat-resistant mineral filler which passes a 14-mesh testing sieve and over 50% by weight of which is retained on a 200-mesh

testing sieve and which has a flow resistance value of at least 40 minutes when a bituminous composition consisting of 65% by weight of coating asphalt having a softening point of 230° F. and 35% by weight of said filler is subjected to flame temperature under the flow resistance test as defined herein and which constitutes at least about 15 pounds per 100 square feet of said roof covering with at least about 6 pounds per 100 square feet contained in each of at least two of said layers of coating material, said coating material when heat plasticized being spreadable to form a layer of uniform consistency and uniform thickness.

2,326,724
ROOFING
George Arthur Fasold, Mount Healthy, and Harold W. Greider, Wyoming, Ohio, assignors to The Philip Carey Manufacturing Company, a corporation of Ohio
Application June 20, 1941, Serial No. 399,024
15 Claims. (Cl. 154—51)

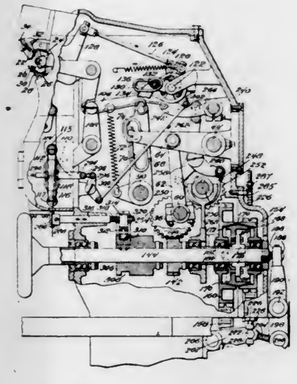


1. A roofing comprising a blister barrier waterproofing layer of thermoplastic bituminous material which is carried by sheet-like base material and which is of substantially uniform composition throughout and is of a thickness not less than that corresponding to about 10 pounds per 100 square feet of the roofing throughout the extent of said layer where said layer is designed to provide blister resistance, the thermoplastic bituminous material of said layer containing at least about 45% by weight of bitumen, and said thermoplastic bituminous material having a softening point above 300° F., having a viscosity of at least about 4×10^7 poises at 170° F., having a tensile strength of at least about 150 grams per square centimeter at 170° F., having a percent elongation at 77° F. of at least about 35, and having a work capacitance at 77° F. of at least 2,000 gm. cm. per cu. cm., and said thermoplastic bituminous material when heat-plasticized being spreadable to form a layer of uniform consistency and uniform thickness and said bituminous waterproofing layer being uniformly throughout resistant for at least about two hours to water at 185° F.

2,326,725
CURING CATALYST FOR ACID-CURING THERMOSETTING RESINS
David W. Jayne, Jr., Old Greenwich, and Paul C. Schroy, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application July 4, 1939, Serial No. 282,820
13 Claims. (Cl. 260—71)

1. A composition comprising an acid-curing thermosetting resin and a latent curing catalyst selected from the group consisting of N-acyl imides and N-acyl sulfonamides.

2,326,726
SHOE SEWING MACHINE
Bernard T. Leveque, Wenham, Mass., assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J., a corporation of New Jersey
Application August 17, 1940, Serial No. 353,083
10 Claims. (Cl. 112—220)



1. An outsole shoe sewing machine having, in combination, stitch forming and work feeding devices, a crank shaft, driving means therefor, separate trains of connections for actuating certain of said devices from the crank shaft, each comprising a member provided with a cam slot, a follower in the slot, a crank and connections for imparting a relative movement to the member and follower lengthwise of the slot, said follower and member being mounted for relative back and forth movement transversely of the slot during the movement of the follower lengthwise of the slot, means for transmitting said back and forth movement to one of said devices comprising an element movable to disconnect said device from the crank shaft, means for disconnecting the crank shaft from its driving means, means comprising a control member for moving said elements, and means for actuating said control member to disconnect the actuated devices from the shaft while permitting continued rotation of the shaft to final stopping position.

2,326,727
ACCELERATOR OF THE DELAYED ACTION TYPE AND ACID-CURING THERMOSETTING RESIN
Paul C. Schroy, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application July 4, 1939, Serial No. 282,819
14 Claims. (Cl. 260—71)

1. A composition comprising an acid curing thermosetting resin and a small amount of a product substantially identical with that obtained by reacting a tertiary monoamine with an acid at a temperature not over about 60–70° C.

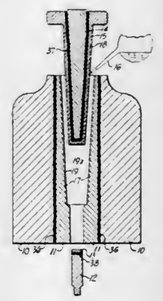
2,326,728
PLASTICIZING THERMOSETTING RESINS
Paul C. Schroy, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application May 13, 1941, Serial No. 393,257
12 Claims. (Cl. 260—33)

1. A formaldehyde-urea molding composition comprising N, p-toluene-sulfonyl ethanolamine as a plasticizer.

2,326,729
CERAMICS
John W. Whittemore, Blacksburg, and Charles R. Oberfell, Lynchburg, Va., assignors to The Mead Corporation, Chillicothe, Ohio, a corporation of Ohio
No Drawing. Application March 15, 1938, Serial No. 195,994
9 Claims. (Cl. 106—72)

1. The method of increasing the strength of clay material which comprises adding thereto while in a wet plastic state containing approximately 20% to 30% moisture a small controlled quantity of the order of .1% to .25% of an additive material in an amount such as to bring about a flocculating condition of particles of clay, said additive material comprising a mixture containing a major proportion of chestnut extract as an essential ingredient and of the order of 20% to 40% common salt.

2,326,730
MOLD AND METHOD OF MAKING THE SAME
John F. Kelly and William J. Kelly, Elkins, W. Va.
Application September 18, 1939, Serial No. 295,551
4 Claims. (Cl. 49—65)



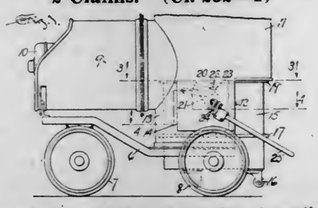
3. An implement for forming molten glass adapted to be used with glass molding machinery for molding glassware, said implement being composed of a body of cast iron having fused thereto a glass engaging portion composed of:

	Per cent
Carbon	2.25 to 3.25
Silicon	1.00 to 3.00
Manganese	0.50 to 1.00
Nickel	20.00 to 50.00

Balance principally iron with impurities,

said glass engaging portion also including chromium 0.01% to 6.00% and molybdenum in quantities between 0.01% and 2.00%.

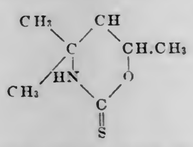
2,326,731
COLLECTION RECEPTACLE FOR VACUUM CLEANERS
Wilbur V. Paine, East Hartford, Conn., assignor to The Spencer Turbine Company, Hartford, Conn., a corporation of Connecticut
Application November 22, 1939, Serial No. 305,659
2 Claims. (Cl. 232—1)



1. In a device of the character described comprising a chambered shell having an opening through the bottom thereof, a receptacle of bulky and weighty characteristics inconvenient for manual handling, a recess receiving and supporting portion forming part of and extending from the bottom of said shell and having a bottom and a side both opening into the recess therein for the reception of the upper portion of said receptacle, and lever lifting means mounted in the opposite side walls of said receiving and supporting portion and engageable with lever abutment means formed on the exterior of the upper portion of said receptacle to lift the latter into contact with the bottom of said chambered shell, said lever lifing means including a lever of bail form extending exteriorly of the shell with its opposite ends pivotally mounted in the side walls of said receiving and supporting portion.

2,326,732
4,4,6-TRIMETHYL-2-THIO-TETRAHYDRO-1,3,2-OXAZINE
Harry L. Fisher, Stamford, Conn., assignor to U. S. Industrial Alcohol Co., New York, N. Y., a Corporation of West Virginia
No Drawing. Application May 7, 1941, Serial No. 392,346
2 Claims. (Cl. 260—244)

1. A new composition of matter, 4,4,6-trimethyl-2-thio-tetra-hydro-1,3,2-oxazine, having the formula



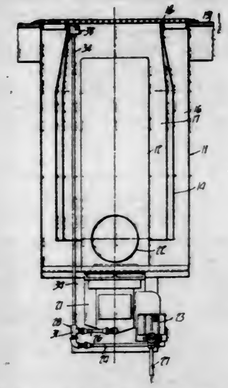
2. The reaction product obtained by refluxing diacetonalkamine, a fixed alkali and carbon disulfide in an alcoholic solvent, said product being characterized by its insolubility in aqueous alkalies.

2,326,733
ACCELERATOR OF VULCANIZATION
Harry L. Fisher, Stamford, Conn., assignor to U. S. Industrial Alcohol Co., New York, N. Y., a corporation of West Virginia
No Drawing. Original application May 7, 1941, Serial No. 392,346. Divided and this application November 24, 1941, Serial No. 420,236
3 Claims. (Cl. 260—791)

1. A composition comprising rubber and 4,4,6-trimethyl-2-thio-tetrahydro-1,3,2-oxazine as an accelerator of vulcanization.

2,326,734
THERMOSTATIC FUEL CONTROL FOR HEATERS
Harry C. Little, San Rafael, Calif.
Application April 2, 1940, Serial No. 327,454
2 Claims. (Cl. 126—116)

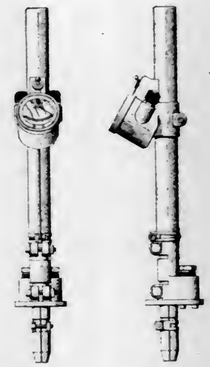
1. In combination with a floor furnace, an air circulating heater including a combustion casing and exteriorly spaced walls defining a vertical warm air passage alongside of said casing and a fluid fuel burner mounted at the bottom of said casing to heat the same and having a fuel inlet conduit underlying said passage, a thermostatically operated valve unit comprising a valve body adapted for connection to said conduit at a position under said passage, a valve mounted for vertical reciprocation in said body and closing the passage through said body in its lower position, a tube connected to said valve body and extending upwardly therefrom in alignment with the movement of said valve, a valve stem extending vertically through said tube, a bimetal strip supported by the upper end of said tube and connected to said stem for normally supporting the latter in an elevated open position of said valve and being responsive to increasing temperature in said passage to permit a gravitation of said stem and valve towards closed position of



said valve, said tube being open at its upper end to permit discharge of oil vapor.

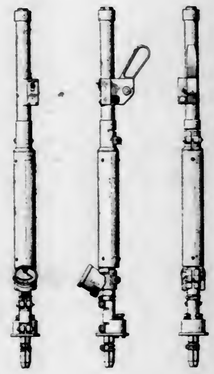
DESIGNS
AUGUST 10, 1943

136,121
DESIGN FOR AN ELECTRIC WELDING APPARATUS
Albert W. Baird, Cranford, N. J., assignor to The Linde Air Products Company, a corporation of Ohio
Application December 26, 1942, Serial No. 109,140
Term of patent 14 years



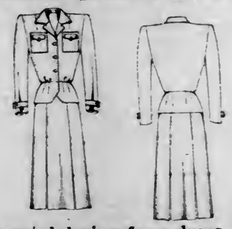
The ornamental design for an electric welding apparatus, substantially as shown.

136,122
DESIGN FOR AN ELECTRIC WELDING APPARATUS
Albert W. Baird, Cranford, N. J., assignor to The Linde Air Products Company, a corporation of Ohio
Application December 26, 1942, Serial No. 109,141
Term of patent 14 years



The ornamental design for an electric welding apparatus, substantially as shown.

136,123
DESIGN FOR A DRESS
Bonnie Cashin, New York, N. Y.
Application July 5, 1943, Serial No. 110,614
Term of patent 3½ years



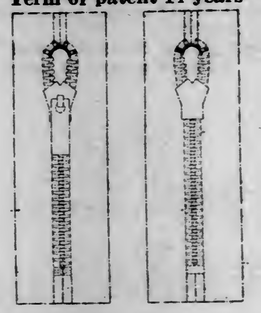
The ornamental design for a dress, substantially as shown.

136,124
DESIGN FOR A BOTTLE OPENER
Frank Mossberg, Attleboro, Mass.
Application May 15, 1943, Serial No. 110,213
Term of patent 7 years



The ornamental design for a bottle opener, substantially as shown.

136,125
DESIGN FOR A SLIDE FASTENER STRINGER
Morris Norkin, New York, N. Y., assignor to Marvel Slide Fastener Corporation, New York, N. Y., a corporation of New York
Application May 19, 1942, Serial No. 106,954
Term of patent 14 years



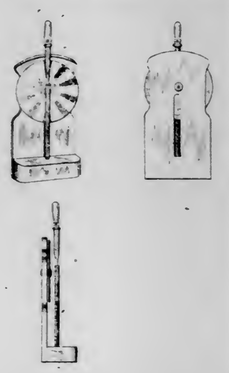
The ornamental design for a slide fastener stringer, substantially as shown and described.

136,126
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Alfred Philippe, Cranston, R. I.
Application July 10, 1943, Serial No. 110,647
Term of patent 3½ years



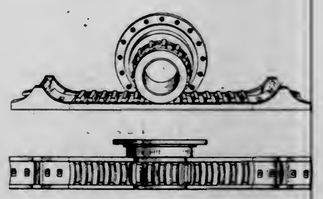
The ornamental design for a brooch or similar article, substantially as shown.

136,127
DESIGN FOR AN ICTERUS INDEX COLOR SCALE
Joseph Ungar, Bronx, N. Y.
Application January 13, 1943, Serial No. 109,256
Term of patent 7 years



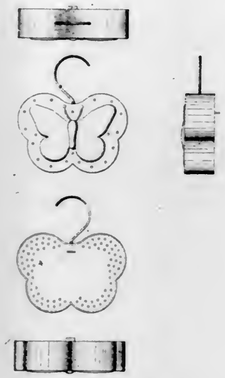
The ornamental design for an icterus index color scale, as shown.

136,128
DESIGN FOR A RACK AND PINION ASSEMBLY
Theron G. Gerow, Chicago, Ill., assignor to Kensington Steel Company, Chicago, Ill., a corporation of Illinois
Application March 29, 1943, Serial No. 109,854
Term of patent 14 years



The ornamental design for a rack and pinion assembly, substantially as shown.

136,129
DESIGN FOR A CHEMICAL CONTAINER
George C. Irwin, St. Louis, Mo.
Application January 25, 1943, Serial No. 109,340
Term of patent 14 years



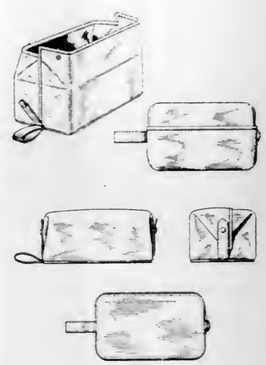
The ornamental design for a chemical container, as shown.

136,130
DESIGN FOR A VOLATILE MOTH EXTERMINANT
George C. Irwin, St. Louis, Mo.
Application January 25, 1943, Serial No. 109,341
Term of patent 14 years



The ornamental design for a volatile moth exterminant, as shown.

136,131
DESIGN FOR A FOLDING UTILITY CASE
Harry I. Schwartz, New York, N. Y.
Application June 2, 1943, Serial No. 110,347
Term of patent 7 years



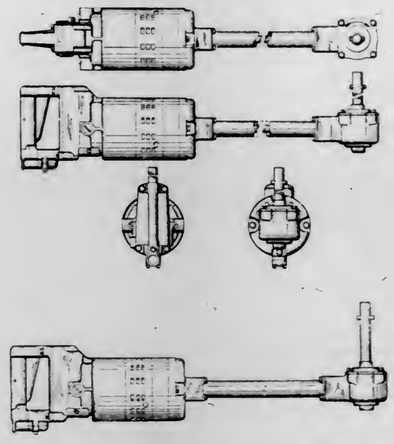
The ornamental design for a folding utility case, as shown.

136,132
DESIGN FOR A JABOT OR SIMILAR ARTICLE
Sylvan M. Baar, New York, N. Y.
Application July 1, 1943, Serial No. 110,577
Term of patent 3½ years



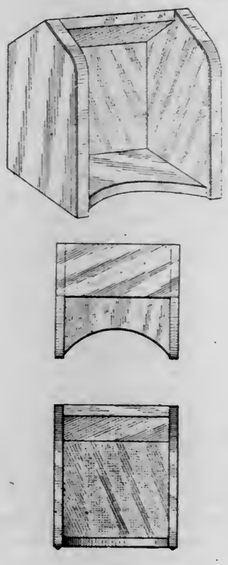
The ornamental design for a jabot or similar article, substantially as shown.

136,133
DESIGN FOR AN EXTERNAL ENERGIZER FOR INTERNAL COMBUSTION ENGINE STARTERS
David J. Conant, Cleveland Heights, Ohio, assignor to Jack & Heintz Research Corporation, Bedford, Ohio, a corporation of Ohio
Application May 14, 1943, Serial No. 110,206
Term of patent 14 years

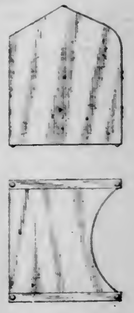


The ornamental design for an external energizer for internal combustion engine starters, substantially as shown.

136,134
DESIGN FOR A TELEPHONE BOOTH OR THE LIKE
Willis L. Manning, Park Ridge, Ill., assignor to Burgess Battery Company, Freeport, Ill., a corporation of Delaware
Application February 20, 1943, Serial No. 109,595
Term of patent 14 years



136,134—Continued



The ornamental design for a telephone booth or the like, as shown.

136,135
DESIGN FOR A HANDBAG OR SIMILAR ARTICLE
Dorothy Portser, New York, N. Y.
Application February 16, 1943, Serial No. 109,554
Term of patent 3½ years



The ornamental design for a handbag or similar article substantially as shown and described.

136,136
DESIGN FOR A FINGER RING
Abraham Sager, Chicago, Ill.
Application February 8, 1941, Serial No. 98,849
Term of patent 14 years





The ornamental design for a finger ring, as shown and described.

136,137
DESIGN FOR A CURTAIN ROD BRACKET
Phillip L. Teninty, Stockton, Calif.
Application May 25, 1943, Serial No. 110,279
Term of patent 7 years





The ornamental design for a curtain rod bracket, as shown.

136,138
DESIGN FOR A FINGER RING
Julius Blumstein, Brighton Beach, N. Y.
Application May 12, 1943, Serial No. 110,192
Term of patent 3½ years





The ornamental design for a finger ring, as shown and described.

136,139
DESIGN FOR A DRESS
Ruth R. Kass, New York, N. Y.
Application July 19, 1943, Serial No. 110,691
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

136,140
DESIGN FOR A DRESS
Ruth R. Kass, New York, N. Y.
Application July 19, 1943, Serial No. 110,692
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

136,141
DESIGN FOR A DRESS
Ruth R. Kass, New York, N. Y.
Application July 19, 1943, Serial No. 110,693
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

136,142
DESIGN FOR A DRESS
Ruth R. Kass, New York, N. Y.
Application July 19, 1943, Serial No. 110,694
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

136,143
DESIGN FOR A DRESS
Ruth R. Kass, New York, N. Y.
Application July 19, 1943, Serial No. 110,695
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

136,144
DESIGN FOR A DRESS
Joset Walker, New York, N. Y.
Application July 17, 1943, Serial No. 110,688
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

136,145
DESIGN FOR A DRESS
Joset Walker, New York, N. Y.
Application July 17, 1943, Serial No. 110,689
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

136,146
DESIGN FOR A DRESS
Joset Walker, New York, N. Y.
Application July 17, 1943, Serial No. 110,690
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

136,147
DESIGN FOR A DRESS
Bonnie Cashin, New York, N. Y.
Application July 17, 1943, Serial No. 110,681
Term of patent 3½ years



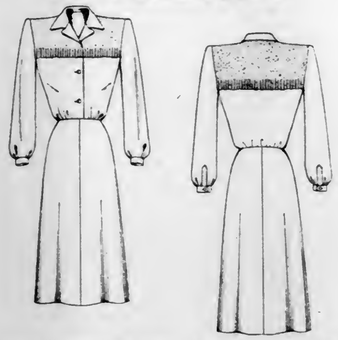
The ornamental design for a dress, substantially as shown.

136,148
DESIGN FOR A DRESS
Bonnie Cashin, New York, N. Y.
Application July 17, 1943, Serial No. 110,682
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

136,149
DESIGN FOR A DRESS
Bonnie Cashin, New York, N. Y.
Application July 17, 1943, Serial No. 110,683
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

136,150
DESIGN FOR A DRESS
Bonnie Cashin, New York, N. Y.
Application July 17, 1943, Serial No. 110,684
Term of patent 3½ years



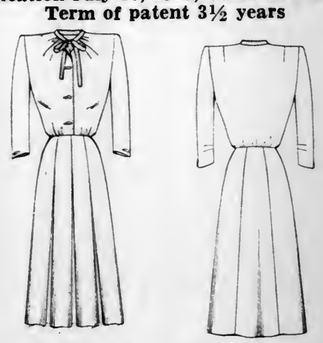
The ornamental design for a dress, substantially as shown.

136,151
DESIGN FOR A DRESS
Bonnie Cashin, New York, N. Y.
Application July 17, 1943, Serial No. 110,685
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

136,152
DESIGN FOR A DRESS
Bonnie Cashin, New York, N. Y.
Application July 17, 1943, Serial No. 110,686
Term of patent 3½ years



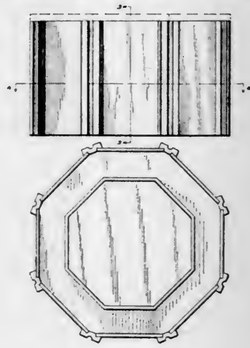
The ornamental design for a dress, substantially as shown.

136,153
DESIGN FOR A DRESS
Joset Walker, New York, N. Y.
Application July 17, 1943, Serial No. 110,687
Term of patent 3½ years

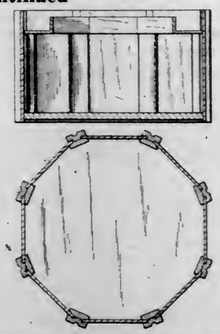


The ornamental design for a dress, substantially as shown.

136,154
DESIGN FOR A SEWING BASKET
Virgil G. Beauchamp, Chapin, Ill.
Application April 27, 1943, Serial No. 110,056
Term of patent 14 years

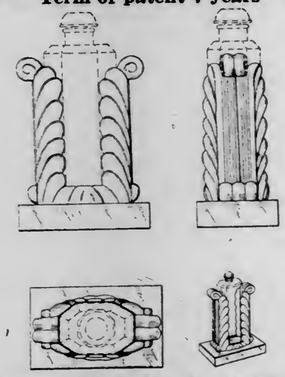


136,154—Continued



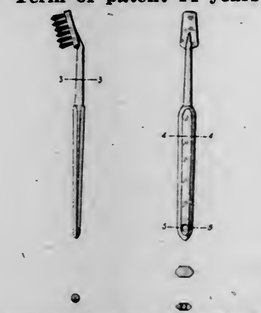
The ornamental design for a sewing basket, as shown and described.

136,155
DESIGN FOR A COMBINED PERFUME BOTTLE AND STAND THEREFOR
Arthur R. Botham, New York, N. Y., assignor to Coty, Inc., a corporation of Delaware
Application April 9, 1943, Serial No. 109,940
Term of patent 7 years



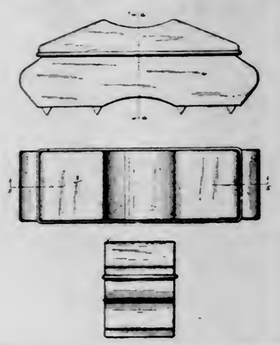
The ornamental design for a combined perfume bottle and stand therefor, substantially as shown and described.

136,156
DESIGN FOR A TOOTHBRUSH
Clarence W. Fuller, Yonkers, N. Y.
Application May 19, 1943, Serial No. 110,236
Term of patent 14 years

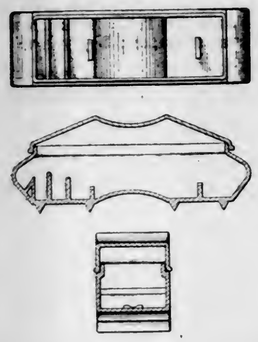


The ornamental design for a toothbrush, substantially as shown.

136,157
DESIGN FOR A SAFETY RAZOR HONE CASE
Lee Roy Scott, Greenwood, Miss.
Application May 24, 1943, Serial No. 110,267
Term of patent 7 years



136,157—Continued



The ornamental design for a safety razor hone case, as shown and described.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Allied Control Company, Inc., New York, N. Y. Electrical relays. Serial No. 460,228; Aug. 10. Class 21.
American Allsafe Company, Inc., Buffalo, N. Y. Goggles. Serial No. 460,466; Aug. 10. Class 26.
American Phenolic Corporation, Chicago, Ill. Electrical cables. Serial No. 460,231; Aug. 10. Class 21.
American Steel Foundries, Chicago, Ill. Railway equipment. Serial No. 454,494; Aug. 10. Class 19.
American Woolen Company, Boston, Mass., and New York, N. Y. Women's coats. Serial No. 460,725; Aug. 10. Class 39.
Artcraft Sportswear Company, New York, N. Y. Table cloths, napkins, table scarves, etc. Serial No. 455,552; Aug. 10. Class 42.
Bausch & Lomb Optical Company, Rochester, N. Y. Telescopes, binoculars, apparatus for projecting images, etc. Serial No. 458,891; Aug. 10. Class 26.
Blackman, Julius, Corp., doing business as Supreme Pharmaceutical Company, New York, N. Y. Vitamins. Serial No. 460,409; Aug. 10. Class 6.
Bon Ami Company, The, New York, N. Y. Scouring soap in cake and powdered form. Serial No. 460,414; Aug. 10. Class 4.
Camp, Chester B., Indianapolis, Ind. Translucent, imperforate, cellulose acetate or like comparatively non-inflammable screens. Serial No. 460,949; Aug. 10. Class 12.
Cardox Corporation, Chicago, Ill. Fire extinguishing trucks and mobile fire extinguishing units. Serial No. 460,950; Aug. 10. Class 23.
Casa Prima Citrus Company, The, San Francisco, Calif. Fruit concentrate. Serial No. 459,724; Aug. 10. Class 45.
Central Soya Company, Inc., Fort Wayne, Ind. Soy grits. Serial No. 459,461; Aug. 10. Class 46.
Central Soya Company, Inc., Fort Wayne, Ind. Soy flour. Serial No. 459,462; Aug. 10. Class 46.
Chase Brass & Copper Co. Incorporated, Waterbury, Conn. Rods of copper base alloys. Serial No. 461,338; Aug. 10. Class 14.
Chilcraft Coat Co. (See Schechter, Nathan.)
Clay-Adams Co., Inc., New York, N. Y. Microscopes, microscope slides, microscope slide containers, etc. Serial No. 454,532; Aug. 10. Class 26.
Coblentz Bag Company, Inc., New York, N. Y. Ladies' handbags. Serial No. 461,432; Aug. 10. Class 3.
Crise Electric Manufacturing Company, Columbus, Ohio. Thermostatically controlled switch apparatus. Serial No. 459,361; Aug. 10. Class 26.
Dobeckmun Company, The, Cleveland, Ohio. Protective backing material of laminated or coated film. Serial No. 460,792; Aug. 10. Class 50.
Double-Mix, Inc., Kansas City, Mo. Composition of matter in tablet or powdered form. Serial No. 456,918; Aug. 10. Class 6.
Eastman Kodak Company, Jersey City, N. J., and Rochester, N. Y. Folders or easel folders. Serial No. 461,108; Aug. 10. Class 37.
Edroy Products Company, New York, N. Y. Binocular loop. Serial No. 460,892; Aug. 10. Class 26.
Eelbeck Milling Company, Columbus, Ga. Table syrup. Serial No. 458,834; Aug. 10. Class 46.
Ehrlich, Richard, G., New York, N. Y. Folding boxes of paper and/or cardboard. Serial No. 461,092; Aug. 10. Class 2.
Endless Belt Corporation, Pisgah Forest, N. C. Linen, cotton, and other fabric endless belts. Serial No. 453,750; Aug. 10. Class 35.
Endo Products Inc., New York, N. Y. Preparation used in genital urinary disturbances. Serial No. 460,989; Aug. 10. Class 6.
Finkl, A., & Sons Company, Chicago, Ill. Finished die blocks and sow blocks. Serial No. 459,973; Aug. 10. Class 23.
Firestone Tire & Rubber Company, The, Akron, Ohio. Reclaimed rubber. Serial No. 460,446; Aug. 10. Class 1.
Floridin Company, Warren, Pa. Diluent or carrier for an insecticidal agent. Serial No. 460,990; Aug. 10. Class 6.
Gelles, Charles S., & Son. (See Gelles, Charles S.)
Gelles, Charles S., doing business as Charles S. Gelles & Son, Boston, Mass. Men's and boys' neckties, mufflers, and necktie and handkerchief sets. Serial No. 455,705; Aug. 10. Class 39.
Gillespie, Charles E., Seymour, Ind. Newspaper column. Serial No. 460,956; Aug. 10. Class 38.
Graf, John, Company, Milwaukee, Wis. Root beer and non-alcoholic, non-cereal, maltless beverages. Serial No. 460,524; Aug. 10. Class 45.
Hercules Powder Company, Wilmington, Del. Resin for use as a raw material in adhesives, core oils, etc. Serial No. 461,113; Aug. 10. Class 1.
Hollins, William & Company, Limited, Nottingham, England. Women's and children's dresses and frocks, including sport dresses, etc. Serial Nos. 456,146–7; Aug. 10. Class 39.
Holophane Company, Inc., New York, N. Y. Periodical publication. Serial No. 432,253; Aug. 10. Class 38.
Hornstein Sales, Chicago, Ill. Picture frames. Serial No. 458,036; Aug. 10. Class 32.
Horowitz & Son, Inc., New York, N. Y. Watches. Serial No. 460,262; Aug. 10. Class 27.
Ice Kist Packing Company, Salinas, Calif. Fresh vegetables. Serial No. 460,896; Aug. 10. Class 46.
Indium Corporation of America, Utica, N. Y. Chemicals and solutions used in electroplating. Serial No. 460,054; Aug. 10. Class 6.
Inland Steel Company, Chicago, Ill. Electrolytic tin plate. Serial No. 459,789; Aug. 10. Class 14.
International Laboratories Limited, London, England. Medicated preparations. Serial No. 460,958; Aug. 10. Class 6.
Interwoven Stocking Company, New Brunswick, N. J. Hosiery. Serial No. 461,140; Aug. 10. Class 39.
Interwoven Stocking Company, New Brunswick, N. J. Hosiery. Serial No. 461,281; Aug. 10. Class 39.
Kasco Mills, Inc. Dog ration or dog food. Serial No. 461,318; Aug. 10. Class 46.
Kay & Zuckerman, New York, N. Y. Ladies' and misses' coats, suits, and coat and suit ensembles. Serial No. 461,221; Aug. 10. Class 39.
Keim, Melville, Chicago, Ill. Golf bags. Serial No. 461,254; Aug. 10. Class 22.
Kendall Company, The, Walpole, Mass. Absorbent gauze, absorbent cotton, absorbent waste cotton, etc. Serial No. 460,960; Aug. 10. Class 44.
Kitchen Art Foods Inc., Chicago, Ill. Cleaning preparations for upholstery, rugs, etc. Serial No. 458,315; Aug. 10. Class 4.
Koch Butchers' Supply Company, North Kansas City, Mo. Insecticides. Serial No. 460,961; Aug. 10. Class 6.
Kuenz, Ray B., St. Louis, Mo. Non-alcoholic, non-cereal, maltless beverages. Serial No. 460,328; Aug. 10. Class 45.
Lacto-Vee Products Company, Dayton, Ohio. Blend of proteins, vitamins, iodine, etc. Serial No. 460,704; Aug. 10. Class 46.
Lathin Watch Company, New York, N. Y. Watches and watch movements. Serial No. 459,937; Aug. 10. Class 27.
Lemmond, Fred B., Greensboro, N. C. Yarn. Serial No. 460,843; Aug. 10. Class 43.
Lupomatic Tumbling Machine Co., Inc., New York, N. Y. Tumbling barrels, machines, and apparatus for cutting down, abrading, etc. Serial No. 461,412; Aug. 10. Class 23.
Master Surgical Instrument Corp., Irvington, N. J. Haemostatic forceps, tissue forceps, skin clips, etc. Serial No. 461,256; Aug. 10. Class 44.
McCormick & Co., Incorporated, Baltimore, Md. Coffee concentrate. Serial No. 461,594; Aug. 10. Class 46.
Marlin Firearms Company, The, New Haven, Conn. Lather shaving cream and brushless shaving cream. Serial No. 461,379; Aug. 10. Class 4.
Mortell, J. W., Company, Kankakee, Ill. Weatherproof coatings and compounds. Serial No. 460,844; Aug. 10. Class 12.
Mote, Carl H., Indianapolis, Ind. Monthly publication. Serial No. 460,604; Aug. 10. Class 38.
Munier, Eliodora, Brooklyn, N. Y. Toilet preparations. Serial No. 461,002; Aug. 10. Class 6.
National Synthetics, New York, N. Y. Medicinal preparation used as an antacid. Serial No. 459,312; Aug. 10. Class 6.
Nichols Proprietary Limited, South Melbourne, Australia. Unguent or ointment containing vitamins. Serial No. 459,051; Aug. 10. Class 6.
Norman, Kelso, San Francisco, Calif. Electric soldering irons. Serial No. 460,675; Aug. 10. Class 21.
Novelty Kits, Limited, New York, N. Y. Handbags, purses, key cases, etc. Serial No. 461,118; Aug. 10. Class 3.
Parfums Charbert, Inc., New York, N. Y. Gentlemen's toiletries. Serial No. 461,004; Aug. 10. Class 4.
Pepperell Manufacturing Company, Boston, Mass. Writing paper. Serial No. 461,150; Aug. 10. Class 37.
Petroleum Iron Works Company, Inc., The, Petroleum, Hubbard Township, Ohio, and Sharon, Pa. Sheet metal barrels, sheet metal drums and sheet metal pails. Serial No. 461,468; Aug. 10. Class 2.
Pinaud, Incorporated, New York, N. Y. Lotion used on the legs to simulate stockings. Serial No. 460,389; Aug. 10. Class 6.
Pinaud, Incorporated, New York, N. Y. Toilet soap. Serial No. 461,285; Aug. 10. Class 4.
Pinaud, Incorporated, New York, N. Y. Perfume. Serial No. 461,286; Aug. 10. Class 6.

Porcelain Enamel & Mfg. Co. of Baltimore, The, doing business as The Porcelain Enamel & Mfg. Co., Baltimore, Md. Composite material comprising a mixture in divided form. Serial No. 458,020; Aug. 10. Class 1.
Prack Laboratories, Inc., New York, N. Y. Preparation to be applied to the skin and fingernails as a protective coating. Serial No. 460,349; Aug. 10. Class 6.
Pugsley's Remedies. (See Pugsley, William.)
Pugsley, William, doing business as Pugsley's Remedies, Toronto, Ontario, Canada. Ointment for the relief of cuts, burns, boils, etc. Serial No. 457,686; Aug. 10. Class 6.
Pure Oil Company, The, Chicago, Ill. Chemical composition. Serial No. 454,810; Aug. 10. Class 6.
Raniville, F., Company, Grand Rapids, Mich. Belt dressing. Serial No. 457,614; Aug. 10. Class 4.
Reelee Foods, Inc., Los Angeles, Calif. Packaged soups. Serial No. 461,385; Aug. 10. Class 46.
Research Tool Company, Saginaw, Mich. Burrs, new and reground rotary files and cutters. Serial No. 460,806; Aug. 10. Class 23.
Ruberoid Co., The, Boundbrook, N. J., and New York, N. Y. Asphalt roll felt roofing. Serial No. 460,909; Aug. 10. Class 12.
Sapolin Co., Inc., New York, N. Y. Oil base paints. Serial No. 461,595; Aug. 10. Class 16.
Schechter, Nathan, doing business as Childcraft Coat Co., New York, N. Y. Infants' and children's coats, hats, coat and legging combinations, etc. Serial No. 461,057; Aug. 10. Class 39.
Schering Corporation, Bloomfield, N. J. Preparation for internal use for the purpose of facilitating the taking of X-ray pictures. Serial No. 460,557; Aug. 10. Class 6.
Schuster, Murray L., doing business as United Sanitary Chemicals Company, Baltimore, Md. Bed bug spray. Serial No. 460,939; Aug. 10. Class 6.
Schuster, Murray L., doing business as United Sanitary Chemicals Company, Baltimore, Md. Disinfectant. Serial No. 460,942; Aug. 10. Class 6.
Schuster, Murray L., doing business as United Sanitary Chemicals Company, Baltimore, Md. Insecticide. Serial No. 460,943; Aug. 10. Class 6.
Schuster, Murray L., doing business as United Sanitary Chemicals Company, Baltimore, Md. Disinfectant, deodorant. Serial No. 460,945; Aug. 10. Class 6.
Security Mills, Inc., Knoxville, Tenn. Manufactured food mixtures for animals and poultry. Serial No. 461,572; Aug. 10. Class 46.
Seltzer, Murray, New York, N. Y. Ladies' cord fabric handbags. Serial No. 461,448; Aug. 10. Class 3.
Siegel Brothers Kiki Maid Koats, Inc., New York, N. Y. Ladies' and misses' coats and suits. Serial No. 460,127; Aug. 10. Class 39.
Siegel Brothers Kiki Maid Koats, Inc., New York, N. Y. Ladies' and misses' coats and suits. Serial No. 460,631; Aug. 10. Class 39.
Simplicity Pattern Co., Inc., New York, N. Y. Paper garment patterns. Serial No. 460,748; Aug. 10. Class 26.
Southport Paint Company, Inc., Savannah, Ga. Dry paints, paste paints, ready mixed paints, etc. Serial No. 458,851; Aug. 10. Class 16.
Stearns, Frederick & Company, Detroit, Mich. Vitamin preparation. Serial No. 461,067; Aug. 10. Class 6.
Stix, Baer and Fuller Company, St. Louis, Mo. Cosmetic and toilet preparations. Serial No. 454,703; Aug. 10. Class 6.
Strauss, Levi, & Company, San Francisco, Calif. Waistband type overalls. Serial No. 455,769; Aug. 10. Class 39.
Supreme Pharmaceutical Company. (See Blackman, Julius, Corp.)
T-Lax Products Company, Birmingham, Ala. Medicinal preparation as an aid for the relief of head colds, etc. Serial No. 460,816; Aug. 10. Class 6.
Tradition House, Chicago, Ill. Greeting cards. Serial No. 461,472; Aug. 10. Class 38.
United Sanitary Chemicals Company. (See Schuster, Murray L.)
United Shoe Machinery Corporation, Boston, Mass. Metal shanks. Serial No. 447,677; Aug. 10. Class 13.
U. S. A. Brands, Inc., New York, N. Y. Medicinal compounds consisting of various vitamins. Serial No. 460,855; Aug. 10. Class 6.
Vidal, Ricardo, Habana, Cuba. Cigars. Serial No. 461,157; Aug. 10. Class 17.
Warwick Chemical Company, West Warwick, R. I. Amorphous and crystalline hydrocarbon waxes and derivatives thereof. Serial No. 460,278; Aug. 10. Class 6.
Wilkins, John H., Company, Washington, D. C. Cereal beverage preparation. Serial No. 458,604; Aug. 10. Class 46.
Wilmington Chemical Corporation, Wilmington, Del. Viscous liquid of semi-liquid chemical raw material of unsaturated hydrocarbon nature and containing carbon black. Serial No. 460,560; Aug. 10. Class 1.
Wisconsin Pharmacal Company, Milwaukee, Wis. Rat poison. Serial No. 461,401; Aug. 10. Class 6.
Wolfenden, R., & Sons, Attleboro, Mass. Fibres, sliver, slubbing and roving. Serial No. 461,124; Aug. 10. Class 1.
Zenith Radio Corporation, Chicago, Ill. Talking machines and talking machine records. Serial No. 461,404; Aug. 10. Class 36.

LIST OF REGISTRANTS OF TRADE-MARKS

Ace Sales Corporation, New York, N. Y. Shoe-shining outfits. 402,671; Aug. 10; Serial No. 441,597; published June 1, 1943. Class 4.
Ace Sales Corporation, New York, N. Y. Shoe-shining outfits. 402,756; Aug. 10; Serial No. 459,186; published June 1, 1943. Class 4.
Akoun, Huguette J., New York, N. Y. Poems and songs. 402,690; Aug. 10; Serial No. 454,491; published June 1, 1943. Class 38.
Alden Manufacturing Company, Springfield, assignor, by mesne assignments, to Alden Products Company, Brockton, Mass. Parts for radio apparatus. 175,843; renewed Nov. 13, 1943.
Alden Products Company. (See Alden Manufacturing Company, assignor.)
Alert Products Co. (See Coan, N. C.)
Allen, Thomas D., New York, N. Y. Laxatives. 402,720; Aug. 10; Serial No. 458,322; published June 1, 1943. Class 6.
American Abrasive Metals Company, New York, N. Y. Cast metal. 171,808; renewed Aug. 14, 1943.
American Agricultural Chemical Company, The, assignor to The American Agricultural Chemical Company, New York, N. Y. Fertilizer. 170,622; renewed July 17, 1943.
American Chemical Paint Company, Ambler, Pa. Hormone spray. 402,770; Aug. 10; Serial No. 459,355; published June 1, 1943. Class 6.
American Lace Paper Company, Milwaukee, Wis. Paper wadding. 176,435; renewed Nov. 27, 1943.
American Molasses Company, New York, N. Y. Periodicals pertaining to food products. 402,744; Aug. 10; Serial No. 459,041; published May 25, 1943. Class 38.
Animal Foods Company. (See Coan, N. C.)
Ansul Chemical Company, Marinette, Wis. Refrigerants and chemical fumigants, etc. 402,775; Aug. 10; Serial No. 459,459; published June 1, 1943. Class 6.
Arcady Farms Milling Company, Chicago, Ill. Prepared stock feed. 176,844; renewed Dec. 4, 1943.
Archibald & Kendall, Inc. (See Archibald & Lewis Company, assignor.)
Archibald & Lewis Company, assignor, by mesne assignments, to Archibald & Kendall, Inc., New York, N. Y. Spices, bird seed, bird food, etc. 172,932; renewed Sept. 11, 1943.
Arkansas Company, Inc., Newark, N. J. Detergents. 402,729; Aug. 10; Serial No. 458,673; published June 1, 1943. Class 4.
Associated Retail Millinery, Inc., Dallas, Tex. Hats for women. 402,719; Aug. 10; Serial No. 458,217; published May 18, 1943. Class 39.
Bachmann Brothers, Inc., Philadelphia, Pa. Goggles. 402,703; Aug. 10; Serial No. 456,764; published June 1, 1943. Class 26.
Bardinet, Ltd., New York, N. Y. Alcoholic cordials. 402,765; Aug. 10; Serial No. 459,292; published May 25, 1943. Class 49.
Bar-None Sales Co. (See Coan, N. C.)
Blodgett, Marion, New York, N. Y. Magazine. 402,807; Aug. 10. Class 38.
Bossong, Joseph C., New York, N. Y. Hosiery. 175,184; renewed Oct. 30, 1943.
Boye Needle Company, The, Chicago, Ill. Metal, composition, and wooden crochet hooks. 402,667; Aug. 10; Serial No. 429,392; published May 18, 1943. Class 40.
Boye Needle Company, The, Chicago, Ill. Metal, composition, and wooden crochet hooks. 402,668; Aug. 10; Serial No. 429,641; published May 18, 1943. Class 40.
Brook, Lily, Farms, Inc., Buffalo, to Lily Brook Farms, Inc., Bowmansville, N. Y. Cheese, canned fresh and evaporated milk, etc. 176,749; renewed Nov. 27, 1943.
Brown Shoe Company, Inc., St. Louis, Mo. Boys' and girls' shoes. 176,970; renewed Dec. 11, 1943.
Bryan Full Fashioned Mills, Inc., Chattanooga, Tenn. Hosiery. 402,675; Aug. 10; Serial No. 446,613; published May 25, 1943. Class 39.
Buckeye Blower Company. (See Columbus Heating & Ventilating Company.)
Bunte Brothers, Chicago, Ill. Confectionery. 177,035; renewed Dec. 11, 1943.
Busy Bee Candy Company, St. Louis, Mo. Candy and cakes. 174,775; renewed Oct. 23, 1943.

Buxton, David H., doing business as Buxton Rheumatic Medicine Co., to Hope Buxton, doing business as Buxton Medicine Company, Abbot Village, Maine, successor. Compound for treating rheumatism. 175,568; renewed Nov. 6, 1943.
Buxton, Hope. (See Buxton, David H.)
Buxton Medicine Company. (See Buxton, David H.)
California Prune & Apricot Growers, Inc., assignor to California Prune & Apricot Growers Association, assignor to California Prune and Apricot Growers Association, San Jose, Calif. Salad and cooking oils, candies, fresh vegetables, etc. 176,727; renewed Nov. 27, 1943.
California Prune & Apricot Growers Association. (See California Prune and Apricot Growers, Inc., assignor.)
Camero Vineyards Co., Fresno, Calif. Liqueurs and cordials. 402,799; Aug. 10. Class 49.
Cantor Greenspan Co., Inc., New York, N. Y. Piece goods. 402,694; Aug. 10; Serial No. 455,203; published May 11, 1943. Class 42.
Casey, Paul S. (See Peters, Albert T.)
Cauchois Coffee Company, New York, N. Y. Coffee. 177,174; renewed Dec. 11, 1943.
Celastic Corporation, The. (See Keith, Geo. E., Company, assignor.)
Celite Products Company, Los Angeles, Calif., and New York, assignor to Johns-Manville Corporation, New York, N. Y. Material for arresting and separating impurities or other matter from fluids. 170,594; renewed July 17, 1943.
Charis Corporation, Allentown, Pa. Corsets and foundation garments. 402,753; Aug. 10; Serial No. 459,163; published May 25, 1943. Class 39.
Charleston Electrical Supply Company, Charleston, W. Va. Printed publication. 176,728; renewed Nov. 27, 1943.
Cheney Brothers, South Manchester, to Cheney Brothers, South Manchester, Conn., and New York, N. Y. Fabrics in the piece. 175,173; renewed Oct. 30, 1943.
Clegg, Edwin R. (See Clegg, Sherman D.)
Clegg, Sherman D., doing business as Vinco Herb Company, Dayton, Ohio, assignor to Edwin R. Clegg, doing business as Vinco Herb Company, Lafayette, Ind. Herb tablets. 172,719; renewed Sept. 11, 1943.
Coan, N. C., doing business as Animal Foods Company, Alert Products Co., Bar-None Sales Co., Delight Dog Food Co., and Hi-Test Products Co., San Jose, Calif., and Houston, Tex. Foods in concentrated and dehydrated, packaged form. 402,691; Aug. 10; Serial No. 454,776; published May 25, 1943. Class 46.
Cohen, Goldman & Co., Inc. (See Meyer-Wise & Kaichen Company, The, assignor.)
Cohn-Hall-Marx Co., New York, N. Y. Cotton, rayon, and/or silk piece goods or combinations thereof. 402,754; Aug. 10; Serial No. 459,167; published May 25, 1943. Class 42.
Coker's Pedigreed Seed Company. (See Pedigreed Seed Company.)
Colonial Mills, Inc., New York, N. Y. Rayon piece goods. 402,768; Aug. 10; Serial No. 459,329; published May 25, 1943. Class 42.
Colorthru Chemicals. (See Hardy, Benjamin James.)
Columbus Heating & Ventilating Company, The, doing business as Buckeye Blower Company, Columbus, Ohio, to John J. Nesbitt, Inc., Philadelphia, Pa., successor. Combined heater and ventilator. 167,873; renewed May 8, 1943.
Conrad Razor Blade Co., Inc., Long Island City, N. Y. Holders made of synthetic materials. 402,688; Aug. 10; Serial No. 454,113; published June 1, 1943. Class 2.
Consolidated Rendering Company, Boston, Mass. Oleo, oleo oil, and shortening. 177,225; renewed Dec. 11, 1943.
Container Corporation of America, Chicago, Ill. Toys. 402,737; Aug. 10; Serial No. 458,909; published June 1, 1943. Class 22.
Continental Lithograph Corporation, Cleveland, Ohio. Piece goods. 402,709; Aug. 10; Serial No. 457,721; published May 11, 1943. Class 42.
Cooper's, Incorporated, Kenosha, Wis. Sport shirts and sweaters for men and boys. 402,718; Aug. 10; Serial No. 458,111; published May 25, 1943. Class 39.
County Perfumery Company, Inc., The, Bloomfield, N. J. Shampoo. 402,692; Aug. 10; Serial No. 454,824; published June 1, 1943. Class 6.
Cross, Mark, Company, New York, N. Y. Handbags, sewing bags, purses, etc. 402,705; Aug. 10; Serial No. 456,956; published June 1, 1943. Class 3.
Dailey Mills, Inc., Binghamton, N. Y. Livestock and poultry feeds. 402,805; Aug. 10. Class 46.
Dairymen's League Co-Operative Association, Inc., New York, N. Y. Fluid milk. 402,676; Aug. 10; Serial No. 448,500; published June 1, 1943. Class 46.
Davega-City Radio, Inc., New York, N. Y. Men's and boys' pajamas, underwear, neckties, etc., and shoes. 402,711; Aug. 10; Serial No. 457,848; published May 11, 1943. Class 39.
Delapenha, R. U., & Co. Inc., New York, N. Y. Brandy. 402,806; Aug. 10. Class 49.
Delight Dog Food Co. (See Coan, N. C.)
Dell Publishing Company, Inc., New York, N. Y. Magazine. 402,794; Aug. 10. Class 38.
Dell Publishing Company, Inc., New York, N. Y. Printed publication. 402,812; Aug. 10. Class 38.
De Luxe Clock & Mfg. Co., Inc., The, New York, N. Y. Framed pictures. 402,797; Aug. 10. Class 38.
De Metz, Louis Hirsch, Company, New York, N. Y. Watches, watch-movements, watchcases and parts thereof. 402,771–2; Aug. 10; Serial Nos. 459,362–3; published June 1, 1943. Class 27.
Dempster Brothers, Incorporated, Knoxville, Tenn. Hoisting units and detachable buckets and containers therefor. 402,672–3; Aug. 10; Serial Nos. 442,061–2; published June 1, 1943. Class 23.
Derby Foods, Inc. (See Pond, E. K., Company.)
Devoe & Raynolds Company, Inc., New York, N. Y. Mixed paints. 402,788; Aug. 10; Serial No. 459,738; published June 1, 1943. Class 16.
Dorgan-McPhillips Sales Co. Inc., Mobile, Ala., assignor, by mesne assignments, to Southern Shell Fish Company, Inc., Harvey, La. Canned shrimp. 176,715; renewed Nov. 27, 1943.
Drug Products Co., Inc., The, Long Island City, N. Y. Antacid-adsorbent. 402,761; Aug. 10; Serial No. 459,238; published June 1, 1943. Class 6.
Duarte Foothill Citrus Association. (See Maddock, Arthur G., assignor.)
Durene Association of America, New York, N. Y. Yarns. 402,710; Aug. 10; Serial No. 457,826; published May 11,1943. Class 43.
Durkee Marine Products Corporation, New York and Grasmere, Staten Island, N. Y. Padlocks, locks, latches, etc. 402,763; Aug. 10; Serial No. 459,261; published June 1, 1943. Class 25.
Eastman Kodak Company, Jersey City, N. J., and Rochester, N. Y. Rayon piece goods. 402,727; Aug. 10; Serial No. 458,649; published May 11, 1943. Class 42.
Edgerly, William W., doing business as Royal Palm Products, Scranton, Pa. Paint brush cleaner, japan drier, bronzing liquid, etc. 402,687; Aug. 10; Serial No. 452,855; published June 1, 1943. Class 16.
Ellerstein, Jack I., New York, N. Y. Hatpins. 402,804; Aug. 10. Class 40.
Ellerstein, Jack I.-Chas. A. Gerber Corp, New York, N. Y. Hatpins. 402,810; Aug. 10. Class 40.
Firth-Sterling Steel Company, McKeesport, Pa. Tool and die steels. 402,758–9; Aug. 10; Serial Nos. 459,219–20; published May 25, 1943. Class 14.
Fly, Joel Orval, doing business as The Fly Manufacturing Co., Shelbyville, Tenn. Work clothing. 177,118; renewed Dec. 11, 1943.
Fly Manufacturing Co. The. (See Fly, Joel Orval.)
Forged Steel Products Company, Newport, Pa. Wire cutters, water pump pliers, brake pliers, etc. 402,743; Aug. 10; Serial No. 458,963; published May 18, 1943. Class 23.
Forstman Woolen Co., The, Passaic, N. J. Woolen piece goods. 402,764; Aug. 10; Serial No. 459,285; published May 25, 1943. Class 42.
Foy Paint Company. (See Johnston, R. F., Paint Company.)
Franklin County Distilling Company, Inc., The, Bardstown, Ky. Whiskey. 402,796; Aug. 10. Class 49.
Freund, Robert, doing business as The Twin Editions, New York, N. Y. Color prints. 402,811; Aug. 10. Class 38.
Fromm, Frank H., doing business as F. H. Fromm & Company, Philadelphia, Pa., to Frank H. Fromm, New York, N. Y. Canned sardines. 169,285; renewed June 12, 1943.
Fromm, F. H., & Company. (See Fromm, Frank H.)
Gale Shoe Mfg Co., Boston, Mass. Shoes. 402,677; Aug. 10; Serial No. 449,046; published May 18, 1943. Class 39.
Gamble Stores Incorporated, Minneapolis, Minn. Floor wax. 402,682; Aug. 10; Serial No. 452,042; published June 1, 1943. Class 16.
General Cable Corporation, New York, N. Y. Insulated electrical wires and cables. 402,803; Aug. 10. Class 21.
General Chemical Company, New York, N. Y. Herbicide and weed killer having insecticidal properties. 402,789; Aug. 10; Serial No. 459,752; published June 1, 1943. Class 6.
General Electric Company, Schenectady, N. Y. Non-metallic gear wheels and gear-wheel blanks. 171,835; renewed Aug. 14, 1943.
General Electric Company, Schenectady, N. Y. Electric motors. 172,367; renewed Aug. 28, 1943.
Goodyear Rubber Company, New York, N. Y., assignor to The Goodyear Rubber Company, Middletown, Conn. Rubber goods, leather goods, and waterproof oiled fabrics. 23,455–6; re-renewed Aug. 8, 1943.
Goodyear Tire & Rubber Company, The, Akron, Ohio. Printers' supplies made of rubber and rubber and fabric. 402,745–8; Aug. 10; Serial Nos. 459,074–7; published June 1, 1943. Class 50.
Gottesman, Seymour, New York, N. Y. Woolens, silks, cottons, etc., in the piece. 402,702; Aug. 10; Serial No. 456,670; published May 25, 1943. Class 42.
Grant, W. T., Company, Lynn, Mass., and New York, assignor to W. T. Grant Company, New York, N. Y. Paint brushes. 171,349; renewed Aug. 7, 1943.
Grindex Company. (See Schmidt, Glenn T.)

Gsell, R., & Co., Inc., New York, N. Y. Watches and watch movements, watch cases and parts thereof. 402,778; Aug. 10; Serial No. 459,514; published June 1, 1943. Class 27.

Gude Brothers, Keiffer Co., New York, N. Y. Eggs. 176,180–1; renewed Nov. 20, 1943.

Gude Brothers, Kieffer Co., New York, N. Y. Eggs. 176,183; rewewed Nov. 20, 1943.

Gypsy Dyes, Inc., Chicago, Ill. Dyes. 177,238; renewed Dec. 11, 1943.

Hardy, Benjamin James, doing business under the name Colorthru Chemicals, New York, N. Y. Paints. 402,740; Aug. 10; Serial No. 458,937; published June 1, 1943. Class 16.

Harber & Kirschten Shoe Co., The, Chicago, Ill. Shoes. 176,160; renewed Nov. 20, 1943.

Harrison, Monroe, Chicago, Ill. Non-alcoholic, non-cereal, maltless beverages. 402,679; Aug. 10; Serial No. 451,382; published May 18, 1943. Class 45.

Haxton Canning Company, Inc., Oakfield, N. Y. Canned fruits and vegetables, frozen fruits, fresh vegetables, etc. 402,666; Aug. 10; Serial No. 419,423; published Sept. 1, 1942. Class 46.

Hearst Consolidated Publications, Inc., Los Angeles, Calif. Pictorial section of a newspaper, magazine or the like. 402,801; Aug. 10. Class 38.

Heil, Theodore, Berkeley, Calif. Ball games. 402,793; Aug. 10; Serial No. 459,874; published June 1, 1943. Class 22.

Henri Foods, Inc., Lon Island City, N. Y. Spaghetti dinners, mayonnaise, bouillon, etc. 402,670; Aug. 10; Serial No. 437,510; published June 1, 1943. Class 46.

Hillyard Chemical Company. (See Hillyard, Newton S.)

Hillyard, Newton S., doing business as Hillyard Chemical Company, assignor, by mesne assignments, to Hillyard Chemical Company, St. Joseph, Mo. Disinfectant. 174,861; renewed Oct. 23, 1943.

Hillyard, Newton S., doing business as Hillyard Chemical Company, assignor, by mesne assignments, to Hillyard Chemical Company, St. Joseph Mo. Floor dressing. 175,130; renewed Oct. 30, 1943.

Hi-test Products Co. (See Coan, N. C.)

Holland Cotton Products Company, Holland, Mich. Mattress pads, mattress protectors, quilts, etc. 402,693; Aug. 10; Serial No. 455,120; published May 11, 1943 Class 42.

Horlicks Food Company, assignor to Horlick's Malted Milk Corporation, Racine, Wis. Malt extract and other food for infants and invalids. 23,791; re-renewed Nov. 7, 1943.

Horlick's Malted Milk Corporation. (See Horlicks Food Company, assignor.)

Howards Fifth Ave., Inc., New York, N. Y. Women's collars, vestees, dickeys, etc. 402,723; Aug. 10; Serial No. 458,461; published May 11, 1943. Class 39.

Illinois Canning Company, Hoopeston, Ill. Canned vegetables. 177,162; renewed Dec. 11, 1943.

Illinois Canning Company, Hoopeston, Ill. Canned corn. 177,163; renewed Dec. 11, 1943.

Illinois Razor Strop Company, Chicago, Ill. Razor strops. 402,704; Aug. 10; Serial No. 456,893; published June 1, 1943. Class 4.

Impervious Paper Container Corporation, Washington, D. C. Impervious paper containers. 402,735; Aug. 10; Serial No. 458,879; published June 1, 1943. Class 2.

Inertol Company, Inc., Newark, N. J. Waterproofing and protective paint or enamel coating. 402,715; Aug. 10; Serial No. 458,070; published June 1, 1943. Class 16.

International Motor Company, New York, N. Y., by change of name to Mack Manufacturing Corporation. Motor busses. 171,484; renewed Aug. 7, 1943.

International Motor Company, New York, N. Y., by change of name to Mack Manufacturing Corporation. Metal parts for cushioned connections in vehicles. 171,504; renewed Aug. 7, 1943.

International Motor Company, New York, N. Y., by change of name to Mack Manufacturing Corporation. Cushioned connections for use in vehicles. 171,507; renewed Aug. 7, 1943.

Italian Vineyard Company, Los Angeles, Calif. Wines. 402,795; Aug. 10. Class 47.

Jablow, I., & Co., Philadelphia, Pa. Boys' shirts, pajamas, sportswear, etc. 402,750–2; Aug. 10; Serial Nos. 459,114–16; published June 1, 1943. Class 39.

Jackson, Jules, Co., Inc., New York, N. Y. Combs which both comb and curl. 402,798; Aug. 10. Class 40.

Jennings, O. D., and Company, assignor to O. D. Jennings & Company, Chicago, Ill. Coin-controlled machines. 171,506; renewed Aug. 7, 1943.

Johns-Manville Corporation. (See Celite Products Company, assignor.)

Johnston, R. F., Paint Company, The, Cincinnati, Ohio, assignor to Foy Paint Company, Inc., The, Norwood, Cincinnati, Ohio. Decorating outfits. 174,443; renewed Oct. 16, 1943.

Jordan Marsh Company, Boston, Mass. Woman's hat or cap. 402,714; Aug. 10; Serial No. 458,014; published May 11, 1943. Class 39.

Kayser, Julius, & Co., New York, N. Y. Hosiery, anklets, and protective socks. 402,716; Aug. 10; Serial No. 458,100; published May 25, 1943. Class 39.

Keith, Geo. E., Company, Brockton, Mass., assignor, by mesne assignments, to The Celastic Corporation, Wilmington, Del., and Arlington, N. J. Boot and shoe tips and counters. 176,023; renewed Nov. 13, 1943.

Kendrick, James R., Co. Inc., Philadelphia, Pa. Knitted elastic fabric in the piece. 174,957; renewed Oct. 30, 1943.

King Features Syndicate, Inc., New York, N. Y. Newspaper section or department. 402,717; Aug. 10; Serial No. 458,102; published May 25, 1943. Class 38.

Kingan & Co. Incorporated, Indianapolis, Ind. Cooked hams in tins and wieners. 402,680; Aug. 10; Serial No. 451,626; published June 23, 1942. Class 46.

Klein Chocolate Co., Inc., Elizabethtown, Pa. Chocolate. 402,738; Aug. 10; Serial No. 458,919; published June 1, 1943. Class 46.

Knox Company, The, Los Angeles, Calif. Medicinal preparation. 402,779; Aug. 10; Serial No. 459,521; published June 1, 1943. Class 6.

Laskin Brothers, assignor to Laskin Brothers, Inc., Philadelphia, Pa. Clothing for women. 171,842; renewed Aug. 14, 1943.

Lavapine, Limited. (See Petrie, William Kinnell, assignor.)

Letourneau, R. G., Inc., Stockton, Calif., and Peoria, Ill. Grading and earth working equipment. 402,782; Aug. 10; Serial No. 459,691; published June 1, 1943. Class 2[illegible].

Lippey, Da[illegible], doing business as The Lippey Company, Los Angeles, Calif. Shoe laces. 402,712; Aug. 10; Serial No. 457,959; published May 18, 1943. Class 40.

Livingston-Bronstein, New York, N. Y. Ladies' and misses' waists, blouses, dresses, etc. 402,725; Aug. 10; Serial No. 458,595; published June 1, 1943. Class 39.

Lockwood, Lawrence A., doing business as Lawrence A. Lockwood Company, Not Inc., Chicago, Ill. Delousing leg bands for chickens. 402,776; Aug. 10; Serial No. 459,475; published June 1, 1943. Class 50.

Lorraine Manufacturing Company, Pawtucket, to Lorraine Manufacturing Company, Pawtucket, R. I., and New York, N. Y. Cotton goods in the piece. 171,977; renewed Aug. 21, 1943.

Lowe, Joe, Co. Inc., Brooklyn, assignor to Joe Lowe Corporation, New York, N. Y. Cake and cake mix. 176,580; renewed Nov. 27, 1943.

Lowe, Joe, Corporation. (See Popsicle Corporation, The, assignor.)

Ludlow-Saylor Wire Company, The, St. Louis, Mo. Screens. 402,760; Aug. 10; Serial No. 459,225; published June 1, 1943. Class 23.

Machin, Ada, New York, N. Y. Preparation for the treatment of athlete's foot. 402,701; Aug. 10; Serial No. 456,468; published June 1, 1943. Class 6.

Mack Manufacturing Corporation. (See International Motor Company.)

Maddock, Arthur G., assignor to Duarte Foothill Citrus Association, Duarte, Calif. Fresh citrous fruits. 176,964; renewed Dec. 11, 1943.

Mallinson Fabrics Corporation, New York, N. Y. Piece goods of silk, wool, cotton, etc. 402,696; Aug. 10; Serial No. 455,346; published May 18, 1943. Class 42.

Manawul Patent Corporation, Boston, Mass. Yarns. 402,678; Aug. 10; Serial No. 450,073; published May 18, 1943. Class 43.

Marilyn Shoe Company, Milwaukee, Wis. Shoes. 402,766; Aug. 10; Serial No. 459,310; published May 25, 1943. Class 39.

Meik Bros. Proprietary Limited, Collingwood, near Melbourne, Australia. Razor strops and machines, and parts thereof. 402,780; Aug. 10; Serial No. 459,548; published May 25, 1943. Class 23.

Metal Cutting Tools Inc., Rockford, Ill. Metal cutting tools. 402,731; Aug. 10; Serial No. 458,843; published May 18, 1943. Class 23.

Meyer-Wise & Kaichen Company, The, Cincinnati, Ohio, assignor to Cohen, Goldman & Co., Inc., New York, N. Y. Articles of clothing. 175,765; renewed Nov. 13, 1943.

Mixing Equipment Co., Inc., Rochester, N. Y. Fluid agitating and mixing devices. 402,708; Aug. 10; Serial No. 457,654; published May 18, 1943. Class 23.

Moorman Manufacturing Company, Quincy, Ill. Waterers and feeders for poultry and farm animals. 402,777; Aug. 10; Serial No. 459,477; published June 1, 1943. Class 50.

Mulhens, Ferd., Inc., New York, N. Y. Complexion powder. 402,792; Aug. 10; Serial No. 459,846; published June 1, 1943. Class 6.

Municipal Shoe Co., Inc., The, Brooklyn, N. Y. Boys' and girls' shoes. 402,706; Aug. 10; Serial No. 457,504; published May 11, 1943. Class 39.

Nesbitt, John J., Inc. (See Columbus Heating & Ventilating Company, The.)

New England Confectionery Company, Boston, to New England Confectionery Company, Cambridge, Mass. Candy. 170,001; renewed July 10, 1943.

New York-Ohio Chemical Company, Lewiston, N. Y. Chlorinated metals. 402,762; Aug. 10; Serial No. 459,246; published June 1, 1943. Class 6.

Nickel Plate Elevator Company, The, Cleveland, Ohio. Poultry and stock feed. 177,000; renewed Dec. 11, 1943.

Obrecht, G. Fred, doing business as P. Fred'k Obrecht & Son, Baltimore, Md. Horse, poultry, hog, etc., feeds. 176,754; renewed Nov. 27, 1943.

Obrecht, P. Fred'k, & Son. (See Obrecht, G. Fred.)

Oxo, Limited, London, England. Soups, and preparations for making soups. 177,039; renewed Dec. 11, 1943.

Pacific Mills, Boston, Mass. Rayon piece goods. 402,733; Aug. 10; Serial No. 458,866; published May 25, 1943. Class 42.

Pacific Mills, Boston, Mass. Piece goods. 402,734; Aug. 10; Serial No. 458,868; published May 18, 1943. Class 42.

Paper and Industrial Appliances, Inc., New York, N. Y. Beating engines comprising apparatus for paper making. 402,724; Aug. 10; Serial No. 458,571; published May 18, 1943. Class 23.

Park Knitwear Co. Inc., New York, N. Y. Women's sweaters, bathing suits, and jackets. 402,732; Aug. 10; Serial No. 458,847; published May 25, 1943. Class 39.

Parsons Chemical Works, Grand Ledge, Mich. Fumigant. 402,783; Aug. 10; Serial No. 459,694; published June 1, 1943. Class 6.

Pearl-Wick Corporation, Astoria, Long Island, N. Y. Collapsible bags on frames. 402,686; Aug. 10; Serial No. 452,733; published Aug. 18, 1942. Class 2.

Pedigreed Seed Company, Hartsville, S. C., by change of name to Coker's Pedigreed Seed Company. Farm and garden seeds. 167,694; renewed May 8, 1943.

Pendle & Rivett Limited, London, England. Cloth and stuffs of wool and worsted. 174,127; renewed Oct. 2, 1943.

Perlman, A. M., Inc., New York, N. Y. Textile fabrics. 402,685; Aug. 10; Serial No. 452,620; published May 11, 1943. Class 42.

Peters, Albert T., doing business as Vitamineral Products Co., to Paul S. Casey, doing business as Vitamineral Products Co., Peoria, Ill., successor. Cattle, swine, dairy, and poultry feed. 176,506; renewed Nov. 27, 1943.

Petrie, William Kinnell, assignor to Lavapine, Limited, Dundee, Scotland. Floor polish. 176,641; renewed Nov. 27, 1943.

Philco Corporation, Philadelphia, Pa. Cabinets and stands. 402,689; Aug. 10; Serial No. 454,377; published June 1, 1943. Class 32.

Phoenix Ice Machine Co., The, Cleveland, Ohio, by change of name to The Phoenix Machine Company. Ice and refrigerating machinery, ammonia compressors, etc. 172,019; renewed Aug. 21, 1943.

Pig'N Whistle Corporation, San Francisco, Calif. Candy and confectionery. 402,669; Aug. 10; Serial No. 433,625; published Sept. 29, 1942. Class 46.

Plymouth Wholesale Dry Goods Corporation, New York, N. Y. Dungarees, work shirts and overalls for men and boys. 402,741; Aug. 10; Serial No. 458,949; published May 18, 1943. Class 39.

Plymouth Wholesale Dry Goods Corporation, New York, N. Y. Men's outer shirts, hats, bath and lounging robes, etc. 402,742; Aug. 10; Serial No. 458,950; published May 25, 1943. Class 39.

Pond, E. K., Company, Chicago, Ill., by change of name to Derby Foods, Inc. Peanut butter. 171,627; renewed Aug. 7, 1943.

Pond's Extract Company, New York, N. Y. Rouge compacts. 402,800; Aug. 10. Class 6.

Popsicle Corporation, The, assignor, by mesne assignments, to Joe Lowe Corporation, New York, N. Y. Lollypops. 177,230; renewed Dec. 11, 1943.

Prim-Era Hosiery Mills, Inc., Chester, Ill. Ladies' hosiery. 402,749; Aug. 10; Serial No. 459,082; published May 18, 1943. Class 39.

Promotions, Inc., Youngstown, Ohio. Chairs, tables, davenports, etc. 402,707; Aug. 10; Serial No. 457,510; published June 1, 1943. Class 32.

Pure Oil Company, The, Chicago, Ill. Gasoline, fuel oil, and burning oil. 402,802; Aug. 10. Class 15.

Rheem Manufacturing Company, Washington, D. C. Base metal. 402,728; Aug. 10; Serial No. 458,662; published June 1, 1943. Class 14.

Rosenstein Brothers, Paterson, N. J. Piece goods. 402,713; Aug. 10; Serial No. 457,995; published May 11, 1943. Class 42.

Roth, Otto, to Otto Roth & Co., Inc., New York, N. Y., successor. Cheese. 152,263; renewed Feb. 21, 1943.

Roth, Otto, & Co., Inc. (See Roth, Otto.)

Rothstein, Aaron J., doing business as Triangle Thread Mills, New York, N. Y. Mercerized and plain cotton thread. 177,037; renewed Dec. 11, 1943.

Royal Crown Bottling Company of Newark, Inc., Newark, N. J. Dies and alignment apparatus. 402,767; Aug. 10; Serial No. 459,316; published May 18, 1943. Class 23.

Royal Palm Products. (See Edgerly, William W.)

Saks & Company, New York, N. Y. Women's clothing. 402,736; Aug. 10; Serial No. 458,884; published June 1, 1943. Class 39.

San Francisco Sulphur Co., assignor to Stauffer Chemical Company, San Francisco, Calif. Sulphur. 175,654; renewed Nov. 6, 1943.

San Francisco Sulphur Co., assignor to Stauffer Chemical Company, San Francisco, Calif. Sulphur. 177,244; renewed Dec. 11, 1943.

Scheel, William H., Inc., Brooklyn, N. Y. Lac and varnish gums. 402,739; Aug. 10; Serial No. 458,923; published June 1, 1943. Class 1.

Schering Corporation, Bloomfield, N. J. Laxative preparation. 402,790; Aug. 10; Serial No. 459,770; published June 1, 1943. Class 6.

Schmidt, A. O., Company. (See Schmidt, A. O.)

Schmidt, A. O., doing business as A. O. Schmidt Co., to Helen M. Schmidt, trading as A. O. Schmidt Company, San Francisco, Calif., successor. Medicine for diseases peculiar to females. 176,178; renewed Nov. 20, 1943.

Schmidt, Glenn T., doing business as Grindex Company, Cincinnati, Ohio. Coffee grinding machine. 402,769; Aug. 10; Serial No. 459,349; published May 18, 1943. Class 23.

Schmidt, Helen M. (See Schmidt, A. O.)

Scholnick Shoe Corp., Jamaica Plain, Boston, Mass. Shoes. 402,681; Aug. 10; Serial No. 451,631; published May 11, 1943. Class 39.

Schratz, Inc., Detroit, Mich. Toilet and bath detergent preparations. 402,808; Aug. 10. Class 4.

Schultz, Lightfoot, Company, Hoboken, N. J., to Lightfoot Schultz Company, New York, N. Y., and Hoboken, N. J. Soaps. 175,871; renewed Nov. 13, 1943.

Shatz, Nathan, Sportswear, Inc., St. Louis, Mo. Women's and misses' dresses, skirts and blouses. 402,695; Aug. 10; Serial No. 455,243; published June 1, 1943. Class 39.

Skinner, William, & Sons, Holyoke, Mass., and New York, N. Y. Piece goods. 402,755; Aug. 10; Serial No. 459,178; published May 25, 1943. Class 42.

Society of Chemical Industry in Basle, Basel, Switzerland. Chemical substance for use in the finishing of textiles. 402,781; Aug. 10; Serial No. 459,679; published June 1, 1943. Class 6.

Southern Shell Fish Company, Inc. (See Dorgan-McPhillips Sales Co. Inc., assignor.)

Sperry, Pierce, Middlefield, Ohio. Booklets. 402,722; Aug. 10; Serial No. 458,421; published June 1, 1943. Class 37.

Squire and Co. Birmingham Limited, Stirchley, Birmingham, by change of name to Taylors (Cash Chemists) Midland, Limited, Leeds, England. Cough mixture for human use. 170,513; renewed July 17, 1943.

Standard Chemical Products, Inc., Hoboken, N. J. Textile oils, sulphonated oils, textile sizings, etc. 402,773; Aug. 10; Serial No. 459,382; published June 1, 1943. Class 6.

Stauffer Chemical Company. (See San Francisco Sulphur Co., assignor.)

Stelzer Brothers, Inc., New York, N. Y. Women's belts. 402,730; Aug. 10; Serial No. 458,820; published May 11, 1943. Class 39.

Sturm & Scheinberg, assignor to Sturm & Scheinberg, Incorporated, New York, N. Y. Garters and arm bands. 169,494; renewed June 19, 1943.

Summers, Charles G., & Co. Inc., assignor, by mesne assignments, to The Torsch-Summers Co., to The Torsch Canning Company, Baltimore, Md., successor. Canned fruits and vegetables. 169,488; renewed June 19, 1943.

Surpass Chemical Co. Inc., Albany, N. Y. Chemical preparation. 173,829; renewed Oct. 2, 1943.

Sylvania Electric Products Inc., Salem, Mass. Electric energy translating devices. 402,697–700; Aug. 10; Serial Nos. 456,051–4; published June 1, 1943. Class 21.

Taylor, Charles H., Springfield, Mass. Game. 402,757; Aug. 10; Serial No. 459,210; published June 1, 1943. Class 22.

Taylors (Cash Chemists) Midland, Limited. (See Squire and Co., Birmingham, Limited.)

Thew Shovel Company, The, Lorain, Ohio. Power cranes, power shovels and power dragline machines. 402,809; Aug. 10. Class 23.

Tinnerman, A. H., doing business as Tinnerman Stove & Range Co., assignor to Tinnerman Products, Inc., Cleveland, Ohio. Gas ranges, gas heaters, coal ranges, etc. 170,098; renewed July 10, 1943.

Tinnerman Products, Inc. (See Tinnerman, A. H., assignor.)

Tinnerman Stove & Range Co. (See Tinnerman, A. H.)

Torsch Canning Company. (See Summers, Charles G., & Co. Inc.)

Torsch-Summers Co., The. (See Summers, Charles G., & Co. Inc., assignor.)

Townsend, E. M., & Co., assignor, by mesne assignments, to Townsend, Stricker & Co., New York, N. Y. Hosiery. 175,002; renewed Oct. 30, 1943.

Townsend, Stricker & Co. (See Townsend, E. M., & Co.)

Triangle Thread Mills. (See Rothstein, Aaron J.)

Trimfoot Company, St. Louis, Mo. Infants' and children's high shoes. 402,683; Aug. 10; Serial No. 452,112; published May 11, 1943. Class 39.

Twin Editions, The. (See Freund, Robert.)

Ulrich Manufacturing Corporation, Shelbyville, Ill. Tools. 402,674; Aug. 10; Serial No. 444,812; published May 25, 1943. Class 23.

United States Navy Department, The, Washington, D. C. Suitcases and trunks. 402,791; Aug. 10; Serial No. 459,798; published June 1, 1943. Class 3.

Vinco Herb Company. (See Clegg, Sherman D.)

Vitamineral Products Co. (See Peters, Albert T.)

Wassell Organization. Westport, Conn. Chart board. 402,721; Aug. 10; Serial No. 458,361; published June 1, 1943. Class 50.
Whittle Music Company, Dallas, Tex. Drum heads. 402,684; Aug. 10; Serial No. 452,257; published June 1, 1943. Class 36.
Williams Brothers & Company. (See Williams, D. S.)
Williams, D. S., doing business as Williams Brothers & Company, to Williams Brothers & Co., Wilkes-Barre, Pa., successor. Canned vegetables, canned milk, catchup, etc. 172,640; renewed Sept. 11, 1943.
Windsor-Lloyd Products, Inc., Philadelphia, Pa. Protective cream. 402,774; Aug. 10; Serial No. 459,456; published June 1, 1943. Class 6.
Winthrop Products Inc., New York, N. Y. Pharmaceutical preparations. 402,784; Aug. 10; Serial No. 459,709; published June 1, 1943. Class 6.
Winthrop Products Inc., New York, N. Y. Antibacterial specific preparation. 402,785; Aug. 10; Serial No. 459,710; published June 1, 1943. Class 6.
Winthrop Products Inc., New York, N. Y. Antimalarial (gametocide) preparations. 402,786; Aug. 10; Serial No. 459,715; published June 1, 1943. Class 6.
Winthrop Products Inc., New York, N. Y. Antianemic preparation. 402,787; Aug. 10; Serial No. 459,718; published June 1, 1943. Class 6.
Wolf Brothers, Philadelphia, Pa. Window envelopes. 172,897; renewed Sept. 11, 1943.
Wyner, I. A., & Co. Inc., New York, N. Y. Piece goods. 402,726; Aug. 10; Serial No. 458,606; published May 25, 1943. Class 42.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Gums, Lac and varnish. W. H. Scheel, Inc. 402,739; Aug. 10; Serial No. 458,923; published June 1, 1943.
Seeds, Farm and garden. Pedigreed Seed Company. 167,694; renewed May 8, 1943.

CLASS 2

Bags on frames, Collapsible. Pearl-Wick Corporation. 402,686; Aug. 10; Serial No. 452,733; published Aug. 18, 1942.
Holders made of synthetic materials. Conrad Razor Blade Co., Inc. 402,688; Aug. 10; Serial No. 454,113; published June 1, 1943.
Impervious paper containers. Impervious Paper Container Corporation. 402,735; Aug. 10; Serial No. 458,879; published June 1, 1943.

CLASS 3

Handbags, sewing bags, purses, etc. M. Cross Company. 402,705; Aug. 10; Serial No. 456,956; published June 1, 1943.
Suitcases and trunks. United States Navy Department. 402,791; Aug. 10; Serial No. 459,798; published June 1, 1943.

CLASS 4

Detergent preparations, Toilet. Schratz, Inc. 402,808; Aug. 10.
Detergents. Arkansas Company. 402,729; Aug. 10; Serial No. 458,673; published June 1, 1943.
Shoe-shining outfits. Ace Sales Corporation. 402,671; Aug. 10; Serial No. 441,597; published June 1, 1943.
Shoe-shining outfits. Ace Sales Corporation. 402,756; Aug. 10; Serial No. 459,186; published June 1, 1943.
Soaps. Lightfoot Schultz Company. 175,871; renewed Nov. 13, 1943.
Strops, Razor. Illinois Razor Strop Company. 402,704; Aug. 10; Serial No. 456,893; published June 1, 1943.

CLASS 6

Antacid-adsorbent. Drug Products Co. 402,761; Aug. 10; Serial No. 459,238; published June 1, 1943.
Antianemic preparation. Winthrop Products Inc. 402,787; Aug. 10; Serial No. 459,718; published June 1, 1943.
Antibacterial specific preparation. Winthrop Products Inc. 402,785; Aug. 10; Serial No. 459,710; published June 1, 1943.
Antimalarial (gametocide) preparations. Winthrop Products Inc. 402,786; Aug. 10; Serial No. 459,715; published June 1, 1943.
Chemical preparation. Surpass Chemical Co. Inc. 173,829; renewed Oct. 2, 1943.
Chemical substance for use in the finishing of textiles. Society of Chemical Industry in Basle. 402,781; Aug. 10; Serial No. 459,679; published June 1, 1943.
Compacts, Rouge. Pond's Extract Company. 402,800; Aug. 10.
Compound for treating rheumatism. D. H. Buxton. 175,568; renewed Nov. 6, 1943.
Cough mixture for human use. Squire and Co. Birmingham Limited. 170,513; renewed July 17, 1943.
Cream, Protective. Windsor-Lloyd Products, Inc. 402,774; Aug. 10; Serial No. 459,456; published June 1, 1943.
Disinfectant. N. S. Hillyard. 174,861; renewed Oct. 23, 1943.
Dyes, Gypsy Dyes, Inc. 177,238; renewed Dec. 11, 1943.
Fumigant. Parsons Chemical Works. 402,783; Aug. 10; Serial No. 459,694; published June 1, 1943.
Herbicide and weed killer having insecticidal properites. General Chemical Company. 402,789; Aug. 10; Serial No. 459,752; published June 1, 1943.
Laxative preparation. Schering Corporation. 402,790; Aug. 10; Serial No. 459,770; published June 1, 1943.
Laxatives. T. D. Allen. 402,720; Aug. 10; Serial No. 458,322; published June 1, 1943.
Medicinal preparation. Knox Company. 402,779; Aug. 10; Serial No. 459,521; published June 1, 1943.
Medicine for diseases peculiar to females. A. O. Schmidt. 176,178; renewed Nov. 20, 1943.
Metals, Chlorinated. New York-Ohio Chemical Company. 402,762; Aug. 10; Serial No. 459,246; published June 1, 1943.
Pharmaceutical preparations. Winthrop Products Inc. 402,784; Aug. 10; Serial No. 459,709; published June 1, 1943.
Powder, Complexion. Ferd. Mulhens, Inc. 402,792; Aug. 10; Serial No. 459,846; published June 1, 1943.
Preparation for the treatment of athlete's foot. A. Machin. 402,701; Aug. 10; Serial No. 456,468; published June 1, 1943.
Refrigerants and chemical fumigants, etc. Ansul Chemical Company. 402,775; Aug. 10; Serial No. 459,459; published June 1, 1943.
Shampoo. County Perfumery Company. 402,692; Aug. 10; Serial No. 454,824; published June 1, 1943.
Spray, Hormone. American Chemical Paint Company. 402,770; Aug. 10; Serial No. 459,355; published June 1, 1943.
Sulphur. San Francisco Sulphur Co. 175,654; renewed Nov. 6, 1943.
Sulphur. San Francisco Sulphur Co. 177,244; renewed Dec. 11, 1943.
Tablets, Herb. S. D. Clegg. 172,719; renewed Sept. 11, 1943.
Textile oils, sulphonated oils, textile sizings, etc. Standard Chemical Products, Inc. 402,773; Aug. 10; Serial No. 459,382; published June 1, 1943.

CLASS 10

Fertilizer. American Agricultural Chemical Company. 170,622; renewed July 17, 1943.

CLASS 14

Base metal. Rheem Manufacturing Company. 402,728; Aug. 10; Serial No. 458,662; published June 1, 1943.
Metal, Cast. American Abrasive Metals Company. 171,808; renewed Aug. 14, 1943.
Steels, tool and die. Firth-Sterling Steel Company. 402,758–9; Aug. 10; Serial Nos. 459,219–20; published May 25, 1943.

CLASS 15

Gasoline, fuel oil, and burning oil. Pure Oil Company. 402,802; Aug. 10.

CLASS 16

Brush cleaner, japan drier, bronzing liquid, Paint. W. W. Edgerly. 402,687; Aug. 10; Serial No. 452,855; published June 1, 1943.
Floor dressing. N. S. Hillyard. 175,130; renewed Oct. 30, 1943.
Floor polish. W. K. Petrie. 176,641; renewed Nov. 27, 1943.
Paint or enamel coating, Waterproofing and protective. Inertol Company. 402,715; Aug. 10; Serial No. 458,070; published June 1, 1943.
Paints, Benjamin James Hardy. 402,740; Aug. 10; Serial No. 458,937; published June 1, 1943.
Paints, Mixed. Devoe & Raynolds Company. 402,788; Aug. 10; Serial No. 459,738; published June 1, 1943.
Wax, Floor. Gample Stores Incorporated. 402,682; Aug. 10; Serial No. 452,042; published June 1, 1943.

CLASS 19

Busses, Motor. International Motor Company. 171,484; renewed Aug. 7, 1943.
Connections for use in vehicles, Cushioned. International Motor Company. 171,507; renewed Aug. 7, 1943.
Metal parts for cushioned connections in vehicles. International Motor Company. 171,504; renewed Aug. 7, 1943.

CLASS 21

Electric energy translating devices. Sylvania Electric Products, Inc. 402,697–700; Aug. 10; Serial Nos. 456,051–4; published June 1, 1943.

Electric Motors. General Electric Company. 172,367; renewed Aug. 28, 1943.
Parts for radio apparatus. Alden Manufacturing Company. 175,843; renewed Nov. 13, 1943.
Wires and cables, Insulated electrical. General Cable Corporation. 402,803; Aug. 10.

CLASS 22

Game. C. H. Taylor. 402,757; Aug. 10; Serial No. 459,210; published June 1, 1943.
Games, Ball. T. Heil. 402,793; Aug. 10; Serial No. 459,874; published June 1, 1943.
Toys. Container Corporation of America. 402,737; Aug. 10; Serial No. 458,909; published June 1, 1943.

CLASS 23

Coin-controlled machines. O. D. Jennings and Company. 171,506; renewed Aug. 7, 1943.
Cranes, power shovels and power dragline machines, Power. Thew Shovel Company. 402,809; Aug. 10.
Dies and alignment apparatus. Royal Crown Bottling Company of Newark. 402,767; Aug. 10; Serial No. 459,316; published May 18, 1943.
Engines comprising apparatus for paper making, Beating. Paper and Industrial Appliances, Inc. 402,724; Aug. 10; Serial No. 458,571; published May 18, 1943.
Equipment, Grading and earth working. R. G. Letourneau, Inc. 402,782; Aug. 10; Serial No. 459,691; published June 1, 1943.
Fluid agitating and mixing devices. Mixing Equipment Co. 402,708; Aug. 10; Serial No. 457,654; published May 18, 1943.
Gear wheels, and gear-wheel blanks, Nonmetallic. General Electric Company. 171,835; renewed Aug. 14, 1943.
Grinding machines, Coffee. G. T. Schmidt. 402,769; Aug. 10; Serial No. 459,349; published May 18, 1943.
Hoisting units and detachable buckets and containers therefor. Dempster Brothers, Incorporated. 402,672–3; Aug. 10; Serial Nos. 442,061–2; published June 1, 1943.
Razor strops and machines, and parts thereof. Meik Bros. Proprietary Limited. 402,780; Aug. 10; Serial No. 459,548; published May 25, 1943.
Screens. Ludlow-Saylor Wire Company; 402,760; Aug. 10; Serial No. 459,225; published June 1, 1943.
Tools. Ulrich Manufacturing Corporation. 402,674; Aug. 10; Serial No. 444,812; published May 25, 1943.
Tools, Metal cutting. Metal Cutting Tools Inc. 402,731; Aug. 10. Serial No. 458,843; published May 18, 1943.
Wire cutters, water pump pliers, brake pliers etc. Forged Steel Products Company. 402,743; Aug. 10; Serial No. 458,963; published May 18, 1943.

CLASS 25

Padlocks, locks, latches, etc. Durkee Marine Products Corporation. 402,763; Aug. 10; Serial No. 459,261; published June 1, 1943.

CLASS 26

Goggles. Bachmann Brothers, Inc. 402,703; Aug. 10; Serial No. 456,764; published June 1, 1943.

CLASS 27

Watches and watch movements, watchcases and parts thereof. R. Gsell & Co. 402,778; Aug. 10; Serial No. 459,514; published June 1, 1943.
Watches, watch-movements, watchcases, and parts thereof. L. H. de Metz Company. 402,771–2; Aug. 10; Serial Nos. 459,362–3; published June 1, 1943.

CLASS 29

Brushes, Paint. W. T. Grant Company. 171,349; renewed Aug. 7, 1943.

CLASS 31

Ice and refrigerating machinery, ammonia compressors, etc. Phoenix Ice Machine Co. 172,019; renewed Aug. 21, 1943.
Material for arresting and separating impurities or other matter from fluids. Celite Products Company. 170,594; renewed July 17, 1943.

CLASS 32

Cabinets and stands. Philco Corporation. 402,689; Aug. 10; Serial No. 454,377; published June 1, 1943.
Chairs, tables, davenports, etc. Promotions, Inc. 402,707; Aug. 10; Serial No. 457,510; published June 1, 1943.

CLASS 34

Heater and ventilator, Combined. Columbus Heating & Ventilating Company. 167,873; renewed May 8, 1943.
Ranges, gas heaters, coal ranges, etc., Gas. A. H. Tinnerman. 170,098; renewed July 10, 1943.

CLASS 35

Rubber goods, leather goods, and waterproof oiled fabrics. Goodyear Rubber Company. 23,455–6; re-renewed Aug. 8, 1943.

CLASS 36

Drum heads. Whittle Music Company. 402,684; Aug. 10; Serial No. 452,257; published June 1, 1943.

CLASS 37

Booklets. P. Sperry. 402,722; Aug. 10; Serial No. 458,421; published June 1, 1943.
Envelopes, Window. Wolf Brothers. 172,897; renewed Sept. 11, 1943.
Wadding, Paper. American Lace Paper Company. 176,435; renewed Nov. 27, 1943.

CLASS 38

Magazine. M. Blodgett. 402,807; Aug. 10.
Magazine. Dell Publishing Company. 402,794; Aug. 10.
Newspaper section or department. King Features Syndicate, Inc. 402,717; Aug. 10; Serial No. 458,102; published May 25, 1943.
Periodicals pertaining to food products. American Molasses Company. 402,744; Aug. 10; Serial No. 459,041; published May 25, 1943.
Pictures, Framed. De Luxe Clock & Mfg. Co. 402,797; Aug. 10.
Poems and songs. H. J. Akoun. 402,690; Aug. 10; Serial No. 454,491; published June 1, 1943.
Prints, Color. R. Freund. 402,811; Aug. 10.
Publication, Printed. Charleston Electrical Supply Company. 176,728; renewed Nov. 27, 1943.
Publication, Printed. Dell Publishing Company. 402,812; Aug. 10.
Section of a newspaper, magazine or the like, Pictorial. Hearst Consolidated Publications, Inc. 402,801; Aug. 10.

CLASS 39

Articles of clothing. Meyer-Wise & Kaichen Company. 175,765; renewed Nov. 13, 1943.
Belts, Women's. Stelzer Brothers, Inc. 402,730; Aug. 10; Serial No. 458,820; published May 11, 1943.
Clothing for women. Laskin Brothers. 171,842; renewed Aug. 14, 1943.
Clothing, Women's. Saks & Company. 402,736; Aug. 10; Serial No. 458,884; published June 1, 1943.
Clothing, Work. J. O. Fly. 177,118; renewed Dec. 11, 1943.
Collars, vestees, dickeys, etc., Women's. Howards Fifth Ave., Inc. 402,723; Aug. 10; Serial No. 458,461; published May 11, 1943.
Corsets and foundation garments. Charis Corporation. 402,753; Aug. 10; Serial No. 459,163; published May 25, 1943.
Dresses, skirts, and blouses, Women's and misses'. N. Shatz Sportswear, Inc. 402,695; Aug. 10; Serial No. 455,243; published June 1, 1943.
Dungarees, work shirts and overalls for men and boys. Plymouth Wholesale Dry Goods Corporation. 402,741; Aug. 10; Serial No. 458,949; published May 18, 1943.
Garters and arm bands. Sturm & Scheinberg. 169,494; renewed June 19, 1943.
Hat or cap, Woman's. Jordan Marsh Company. 402,714; Aug. 10; Serial No. 458,014; published May 11, 1943.
Hats for women. Associated Retail Millinery, Inc. 402,719; Aug. 10; Serial No. 458,217; published May 18, 1943.
Hosiery. J. C. Bossong. 175,184; renewed Oct. 30, 1943.
Hosiery. Bryan Full Fashioned Mills, Inc. 402,675; Aug. 10; Serial No. 446,613; published May 25, 1943.
Hosiery. E. M. Townsend & Co. 175,002; renewed Oct. 30, 1943.
Hosiery, anklets and protective socks. Julius Kayser & Co. 402,716; Aug. 10; Serial No. 458,100; published May 25, 1943.
Hosiery, Ladies'. Prim-Era Hosiery Mills, Inc. 402,749; Aug. 10; Serial No. 459,082; published May 18, 1943.
Pajamas, underwear, neckties, etc., and shoes, Men's and boys'. Davega-City Radio, Inc. 402,711; Aug. 10; Serial No. 457,848; published May 11, 1943.
Rubber goods, leather goods, and water proof oiled fabrics. Goodyear Rubber Company. 23,455–6; re-renewed Aug. 8, 1943.
Shirts and sweaters for men and boys, Sport. Cooper's, Incorporated. 402,718; Aug. 10; Serial No. 458,111; published May 25, 1943.
Shirts, hats, bath and lounging robes, etc., Men's outer. Plymouth Wholesale Dry Goods Corporation. 402,742; Aug. 10; Serial No. 458,950; published May 25, 1943.
Shirts, pajamas, sportswear, etc., Boys'. I. Jablow & Co. 402,750–2; Aug. 10; Serial Nos. 459,114–16; published June 1, 1943.
Shoes. Gale Shoe Mfg. Co. 402,677; Aug. 10; Serial No. 449,046; published May 18, 1943.
Shoes. Harper & Kirschten Shoe Co. 176,160; renewed Nov. 20, 1943.
Shoes. Marilyn Shoe Company. 402,766; Aug. 10; Serial No. 459,310; published May 25, 1943.
Shoes. Scholnick Shoe Corp. 402,681; Aug. 10; Serial No. 451,631; published May 11, 1943.
Shoes, Boys' and girls'. Brown Shoe Company. 176,970; renewed Dec. 11, 1943.
Shoes, Boys' and girls'. Municipal Shoe Co. 402,706; Aug. 10; Serial No. 457,504; published May 11, 1943.
Shoes, Infants' and children's high. Trimfoot Company. 402,683; Aug. 10; Serial No. 452,112; published May 11, 1943.
Sweaters, bathing suits, and jackets, Women's. Park Knitwear Co. Inc. 402,732; Aug. 10; Serial No. 458,847; published May 25, 1943.

Tips and counters, Boot and shoe. Geo. E. Keith Company. 176,023; renewed Nov. 13, 1943.
Waists, blouses, dresses, etc., Ladies' and misses'. Livingston-Bronstein. 402,725; Aug. 10; Serial No 458,595; published June 1, 1943.

CLASS 40

Combs which both comb and curl. Jules Jackson Co. 402,798; Aug. 10.
Crochet hooks, Metal, composition, and wooden. Boye Needle Company. 402,667; Aug. 10; Serial No. 429,392; published May 18, 1943.
Crochet hooks, Metal, composition, and wooden. Boye Needle Company. 402,668; Aug. 10; Serial No. 429,641; published May 18, 1943.
Hatpins. J. I. Ellerstein. 402,804; Aug. 10.
Hatpins. Jack I. Ellerstein-Chas. A. Gerber Corp. 402,810; Aug. 10.
Shoe laces. D. Lippey. 402,712; Aug. 10; Serial No. 457,959; published May 18, 1943.

CLASS 42

Cloth and stuffs of wool and worsted. Pendle & Rivett Limited. 174,127; renewed Oct. 2, 1943.
Cotton goods in the piece. Lorraine Manufacturing Company. 171,977; renewed Aug. 21, 1943.
Cotton, rayon, and/or silk piece goods or combinations thereof. Cohn-Hall-Marx Co. 402,754; Aug. 10; Serial No. 459,167; published May 25, 1943.
Fabric in the piece, Knitted elastic. James R. Kendrick Co. Inc. 174,957; renewed Oct. 30, 1943.
Fabrics in the piece. Cheney Brothers. 175,173; renewed Oct. 30, 1943.
Pads, mattress protectors, quilts, etc., Mattress. Holland Cotton Products Company. 402,693; Aug. 10; Serial No. 455,120; published May 11, 1943.
Piece goods. Cantor Greenspan Co. 402,694; Aug. 10; Serial No. 455,203; published May 11, 1943.
Piece goods. Continental Lithograph Corporation. 402,709; Aug. 10; Serial No. 457,721; published May 11, 1943.
Piece goods. Pacific Mills. 402,734; Aug. 10; Serial No. 458,868; published May 18, 1943.
Piece goods. Rosenstein Brothers. 402,713; Aug. 10; Serial No. 457,995; published May 11, 1943.
Piece goods. William Skinner & Sons. 402,755; Aug. 10; Serial No. 459,178; published May 25, 1943.
Piece goods. I. A. Wyner & Co. Inc. 402,726; Aug. 10; Serial No. 458,606; published May 25, 1943.
Piece goods of silk, wool, cotton, etc. Mallinson Fabrics Corporation. 402,696; Aug. 10; Serial No. 455,346; published May 18, 1943.
Piece goods, Rayon. Colonial Mills, Inc. 402,768; Aug. 10; Serial No. 459,329; published May 25, 1943.
Piece goods, Rayon. Eastman Kodak Company. 402,727; Aug. 10; Serial No. 458,649; published May 11, 1943.
Piece goods, Rayon. Pacific Mills. 402,733; Aug. 10; Serial No. 458,866; published May 25, 1943.
Piece goods, Woolen. Forstmann Woolen Co. 402,764; Aug. 10; Serial No. 459,285; published May 25, 1943.
Textile fabrics. A. M. Perlman, Inc. 402,683; Aug. 10; Serial No. 452,620; published May 11, 1943.
Woolens, silks, cottons, etc., in the piece. S. Gottesman. 402,702; Aug. 10; Serial No. 456,670; published May 25, 1943.

CLASS 43

Thread, Mercerized and plain cotton. A. J. Rothstein. 177,037; renewed Dec. 11, 1943.
Yarns. Durene Association of America. 402,710; Aug. 10; Serial No. 457,826; published May 11, 1943.
Yarns. Manawul Patent Corporation. 402,678; Aug. 10; Serial No. 450,073; published May 18, 1943.

CLASS 45

Beverages, Non-alcoholic, non-cereal, maltless. M. Harrison. 402,679; Aug. 10; Serial No. 451,382; published May 18, 1943.

CLASS 46

Cake and cake mix. Joe Lowe Co. Inc. 176,580; renewed Nov. 27, 1943.
Candy. New England Confectionery Company. 170,001; renewed July 10, 1943.
Candy and cakes. Busy Bee Candy Company. 174,775; renewed Oct. 23, 1943.
Candy and confectionery. Pig'n Whistle Corporation. 402,669; Aug. 10; Serial No. 433,625; published Sept. 29, 1942.
Canned corn. Illinois Canning Company. 177,163; renewed Dec. 11, 1943.
Canned fruits and vegetables. Charles G. Summers & Co. Inc. 169,488; renewed June 19, 1943.
Canned fruits and vegetables, frozen fruits, fresh vegetables. Haxton Canning Company. 402,666; Aug. 10; Serial No. 419,423; published Sept. 1, 1942.
Canned sardines. F. H. Fromm. 189,285; renewed June 12, 1943.
Canned shrimp. Dorgan-McPhillips Sales Co. Inc. 176,715; renewed Nov. 27, 1943.
Canned vegetables. Illinois Canning Company. 177,162; renewed Dec. 11, 1943.
Canned vegetables, canned milk, catchup, etc. D. S. Williams. 172,640; renewed Sept. 11, 1943.
Cheese. O. Roth. 152,263; renewed Feb. 21, 1943.
Cheese, canned fresh and evaporated milk, etc. Lily Brook Farms, Inc. 176,749; renewed Nov. 27, 1943.
Chocolate. Klein Chocolate Co. 402,738; Aug. 10; Serial No. 458,919; published June 1, 1943.
Coffee. Cauchois Coffee Company. 177,174; renewed Dec. 11, 1943.
Confectionery. Bunte Brothers. 177,035; renewed Dec. 11, 1943.
Eggs. Gude Brothers, Kieffer Co. 176,180–1; renewed Nov. 20, 1943.
Eggs. Gude Brothers, Kieffer Co. 176,183; renewed Nov. 20, 1943.
Feed, Cattle, swine, dairy and poultry. A. T. Peters. 176,506; renewed Nov. 27, 1943.
Feed, Poultry and stock. Nickel Plate Elevator Company. 177,000; renewed Dec. 11, 1943.
Feed, Prepared stock. Arcady Farms Milling Company. 176,844; renewed Dec. 4, 1943.
Feeds, Horse, poultry, hog, etc. G. Fred Obrecht. 176,754; renewed Nov. 27, 1943.
Feeds, Livestock and poultry. Dailey Mills, Inc. 402,805; Aug. 10.
Foods in concentrated and dehydrated packaged form. N. C. Coan. 402,691; Aug. 10; Serial No. 454,776; published May 25, 1943.
Fruits, Fresh citrous. A. G. Maddock. 176,964; renewed Dec. 11, 1943.
Hams in tins and wieners, Cooked. Kingan & Co. Incorporated. 402,680; Aug. 10; Serial No. 451,626; published June 26, 1942.
Lollypops. Popsicle Corporation. 177,230; renewed Dec. 11, 1943.
Malt extract and other food for infants and invalids. Horlicks Food Company. 23,791; re-renewed Nov. 7, 1943.
Milk, Fluid. Dairymen's League Co-Operative Associations, Inc. 402,676; Aug. 10; Serial No. 448,500; published June 1, 1943.
Oils, candies, fresh vegetables, etc., Salad and cooking. California Prune and Apricot Growers, Inc. 176,727; renewed Nov. 27, 1943.
Oleo, oleo oil, and shortening. Consolidated Rendering Company. 177,225; renewed Dec. 11, 1943.
Peanut butter. E. K. Pond Company. 171,627; renewed Aug. 7, 1943.
Soups and preparations for making soups. Oxo, Limited. 177,039; renewed Dec. 11, 1943.
Spaghetti dinners, mayonnaise, bouillon, etc. Henri Foods, Inc. 402,670; Aug. 10; Serial No. 437,510; published June 1, 1943.
Spices, bird seed, bird food, etc. Archibald & Lewis Company. 172,932; renewed Sept. 11, 1943.

CLASS 47

Wines. Italian Vineyard Company. 402,795; Aug. 10.

CLASS 49

Brandy. R. U. Delapenha & Co. Inc. 402,806; Aug. 10.
Cordials, Alcoholic. Bardinet, Ltd. 402,765; Aug. 10; Serial No. 459,292; published May 25, 1943.
Liqueurs and cordials. Cameo Vineyard Co. 402,799; Aug. 10.
Whiskey. Franklin County Distilling Company. 402,796; Aug. 10.

CLASS 50

Chart board. Wassell Organization. 402,721; Aug. 10; Serial No. 458,361; published June 1, 1943.
Decorating outfits. R. F. Johnston Paint Company. 174,443; renewed Oct. 16, 1943.
Leg bands for chickens, Delousing. L. A. Lockwood. 402,776; Aug. 10; Serial No. 459,475; published June 1, 1943.
Printers' supplies made of rubber and rubber and fabric. Goodyear Tire & Rubber Company. 402,745–8; Aug. 10; Serial Nos. 459,074–7; published June 1, 1943.
Rubber goods, leather goods, and water proof oiled fabrics. Goodyear Rubber Company. 23,455–6; re-renewed Aug. 8, 1943.
Waterers and feeders for poultry and farm animals. Moorman Manufacturing Company. 402,777; Aug. 10; Serial No. 450,477; published June 1, 1943.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 10TH DAY OF AUGUST, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Autem, Fred, Mount Pen, assignor to Textile Machine Works, Wyomissing, Pa. Applying label-like elements to articles of manufacture. Re. 22,362; Aug. 10.
Cutler-Hammer, Inc. (See Stansbury, Carrol, assignor.)
McMahon, John H. (See Miller, A. W., and McMahon.)
Miller, Arthur W., Albany, and J. H. McMahon, El Cerrito, Calif. Automatic motion picture machine. Re. 22,363; Aug. 10.
Stansbury, Carroll, Chevy Chase, Md., assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Circuit controller. Re. 22,364; Aug. 10.
Textile Machine Works. (See Autem, Fred, assignor.)

LIST OF DESIGN PATENTEES

Baar, Sylvan M., New York, N. Y. Jabot or similar article. 136,132; Aug. 10.
Baird, Albert W., Cranford, N. J., assignor to The Linde Air Products Company. Electric welding apparatus. 136,121; Aug. 10.
Baird, Albert W., Cranford, N. J., assignor to The Linde Air Products Company. Electric welding apparatus. 136,122; Aug. 10.
Beauchamp, Virgil G., Chapin, Ill. Sewing basket. 136,154; Aug. 10.
Blumstein, Julius, Brighton Beach, N. Y. Finger ring. 136,138; Aug. 10.
Botham, Arthur R., New York, N. Y., assignor to Coty, Inc. Combined perfume bottle and stand therefor. 136,155; Aug. 10.
Burgess Battery Company. (See Manning, Willis L., assignor.)
Cashin, Bonnie, New York, N. Y. Dress. 136,123; Aug. 10.
Cashin, Bonnie, New York, N. Y. Dress. 136,147; Aug. 10.
Cashin, Bonnie, New York, N. Y. Dress. 136,148; Aug. 10.
Cashin, Bonnie, New York, N. Y. Dress. 136,149; Aug. 10.
Cashin, Bonnie, New York, N. Y. Dress. 136,150; Aug. 10.
Cashin, Bonnie, New York, N. Y. Dress. 136,151; Aug. 10.
Cashin, Bonnie, New York, N. Y. Dress. 136,152; Aug. 10.
Conant, David J., Cleveland Heights, assignor to Jack & Heintz Research Corporation, Bedford, Ohio. External energizer for internal combustion engine starters. 136,133; Aug. 10.
Coty, Inc. (See Botham, Arthur R., assignor.)
Fuller, Clarence W., Yonkers, N. Y. Toothbrush. 136,156; Aug. 10.
Gerow, Theron G., assignor to Kensington Steel Company, Chicago, Ill. Rack and pinion assembly. 136,128; Aug. 10.
Irwin, George C., St. Louis, Mo. Chemical container. 136,129; Aug. 10.
Irwin, George C., St. Louis, Mo. Volatile moth exterminant. 136,130; Aug. 10.
Jack & Heintz Research Corporation. (See Conant, David J., assignor.)
Kass, Ruth R., New York, N. Y. Dress. 136,139; Aug. 10.
Kass, Ruth R., New York, N. Y. Dress. 136,140; Aug. 10.
Kass, Ruth R., New York, N. Y. Dress. 136,141; Aug. 10.
Kass, Ruth R., New York, N. Y. Dress. 136,142; Aug. 10.
Kass, Ruth R., New York, N. Y. Dress. 136,143; Aug. 10.
Kensington Steel Company. (See Gerow, Theron G., assignor.)
Linde Air Products Company, The. (See Baird, Albert W., assignor.)
Manning, Willis L., Park Ridge, assignor to Burgess Battery Company, Freeport, Ill. Telephone booth or the like. 136,134; Aug. 10.
Marvel Slide Fastener Corporation. (See Norkin, Morris, assignor.)
Mossberg, Frank, Attleboro, Mass. Bottle opener. 136,124; Aug. 10.
Norkin, Morris, assignor to Marvel Slide Fastener Corporation, New York, N. Y. Slide fastener stringer. 136,125; Aug. 10.
Philippe, Alfred, Cranston, R. I. Brooch or similar article. 136,126; Aug. 10.
Portser, Dorothy, New York, N. Y. Handbag or similar article. 136,135; Aug. 10.
Sager, Abraham, Chicago, Ill. Finger ring. 136,136; Aug. 10.
Schwartz, Harry I., New York, N. Y. Folding utility case. 136,131; Aug. 10.
Scott, Lee R., Greenwood, Miss. Safety razor hone case. 136,157; Aug. 10.
Teninty, Phillip L., Stockton, Calif. Curtain rod bracket. 136,137; Aug. 10.
Ungar, Joseph, Bronx, N. Y. Icterus index color scale. 136,127; Aug. 10.
Walker, Joset, New York, N. Y. Dress. 136,144; Aug. 10.
Walker, Joset, New York, N. Y. Dress. 136,145; Aug. 10.
Walker, Joset, New York, N. Y. Dress. 136,146; Aug. 10.
Walker, Joset, New York, N. Y. Dress. 136,153; Aug. 10.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 10TH DAY OF AUGUST, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abernathy, David W., assignor to Products Development, Inc., Chicago, Ill. Gaseous electric discharge device circuit. 2,326,597; Aug. 10.

Acosta, John, assignor of one-half to M. J. Cook, Syracuse, N. Y. Fuel economizer. 2,326,598; Aug. 10.

Acrotorque Company, The. (See Fuller, E. W., and Morgensen, assignors.)

Adams, Clarence H., assignor to Cone Automatic Machine Company Inc., Windsor, Va. Safety mechanism. 2,326,423; Aug. 10.

Adams, John T. (See Paschal, Guy S., assignor.)

Adams, Pierrepont. (See Swain, R. C., and Adams.)

Agriculture of the U. S. of America, Claude R. Wickard and his successors in office, Secretary of. (See Gertler, S. I., and Haller, assignors.)

Ahlberg, Jacob E. (See Thomas, C. L., and Ahlberg.)

Aiazzone, Remo, et al. (See Reenstierna, Gustaf L., assignor.)

Alcorn Combustion Company. (See Lyster, Roy S., assignor.)

Alcorn Combustion Company. (See Praeger, Frank H., assignor.)

Alien Property Custodian. (See Baldwin, Philip S.)

Alien Property Custodian. (See Brandel, S., and Perrot.)

Alien Property Custodian. (See Crapez, Jules.)

Alien Property Custodian. (See Hopff, H., Rapp, and Rinke.)

Alien Property Custodian. (See Pier, M., and Free.)

Alien Property Custodian. (See Piquerez, Emile.)

Alien Property Custodian. (See Rutishauser, Georg.)

Alien Property Custodian. (See Schierenbeck, Julius.)

Alien Property Custodian. (See Schmidt, O., and Stadelmann.)

Alien Property Custodian. (See Zeltner, Joseph.)

Allen, Clarence E., San Francisco, Calif. Rear-view mirror. 2,326,316; Aug. 10.

Allen, Gwynne, Long Beach, Calif., assignor to Petrolite Corporation, Ltd., St. Louis, Mo. Breaking petroleum emulsions. 2,326,599; Aug. 10.

Allen Gwynne, Los Beach, Calif., assignor to Petrolite Corporation, Ltd., St. Louis, Mo. Breaking petroleum emulsions. 2,326,602; Aug. 10.

Allied Industries. (See Weiner, Henry.)

Allied Manufacturers, Inc. (See Boehm, N. J., and Staub, assignors.)

Allis-Chalmers Manufacturing Company. (See Norelius, Emil F., assignor.)

Alvord, Charles B., Marquette, Mich., assignor to United States Gypsum Company, Chicago, Ill. Running board. 2,326,600; Aug. 10.

American Brake Shoe & Foundry Company, The. (See Browne, Lindsay H., assignor.)

American Can Company. (See Erb, George C., assignor.)

American Can Company. (See Pelosi, Nicholas, assignor.)

American Can Company. (See Zabler, Erwin E., assignor.)

American Car and Foundry Company. (See McBride, John J., assignor.)

American Chemical Paint Company. (See Romig, Gerald C., assignor.)

American Cyanamid Company. (See Jayne, D. W., Jr., and Schroy, assignors.)

American Cyanamid Company. (See Schroy, Paul C., assignor.)

American Cyanamid Company. (See Swain, R. C., and Adams, assignor.)

American Hardware Corporation, The. (See Gold, R. S., and Stadler, assignors.)

American Laundry Machinery Company, The. (See Matthews, Albert, assignor.)

American Radiator & Standard Sanitary Corporation. (See Georg, Bernard, assignor.)

American Rolling Mill Company, The. (See Dimmick, Ralph B., assignor.)

American Steel and Wire Company of New Jersey, The. (See Peirce, Walter T., assignor.)

American Tool Works Company, The. (See Kullman, A., and Black, assignors.)

Amtsberg, Lester A., Cleveland, Ohio, assignor to Chicago Pneumatic Tool Company, New York, N. Y. Impact wrench. 2,326,317; Aug. 10.

Andersen, Niels Y., Kenmore, assignor to Remington Rand Inc., Buffalo, N. Y. Card index file. 2,326,277; Aug. 10.

Anderson, Rex R., Marshall, Mich. Method and apparatus for compartment heating. 2,326,318; Aug. 10.

Andis Clipper Company. (See Andis, Mathew and M. G., Jr., assignors.)

Andis, Mathew and M. G., Jr., assignors to Andis Clipper Company, Racine, Wis. Shaving device. 2,326,192; Aug. 10.

Andres, Lloyd J., assignor to Permo Products Corporation, Chicago, Ill. Phonograph stylus. 2,326,424; Aug. 10.

Andrews, Harry I., South Norwalk, Conn. Desiccating apparatus. 2,326,512; Aug. 10.

Arff, John H., assignor to Rayozone Products Corporation, Portland, Oreg. Apparatus for producing ozone. 2,326,601; Aug. 10.

Arthur, Alexander F., Homestead, assignor, by mesne assignments, to F. C. Peters, Miami Beach, Fla. Potato drying apparatus. 2,326,115; Aug. 10.

Arzberger, Cornelius F., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Products of riboflavin by butyl alcohol producing bacteria. 2,326,425; Aug. 10.

Associated Electric Laboratories, Inc. (See Hadfield Bertram M., assignor.)

Associated Electric Laboratories, Inc. (See Obergfell, H. F., and Sangebusch, assignors.)

Astrup Company, The. (See Heiser, Henry C., assignor.)

Atlantic Refining Company, The. (See Chalfant, W. E., and McConomy, assignors.)

Atlantic Refining Company, The. (See Gzemski, Felix C., assignor.)

Aust, Hugo E. (See Sundquist, J. A., and Aust.)

Automatic Devices Corporation. (See Cohen, Joseph H., assignor.)

Avedikian, Soureń Z., Baltimore, Md. Method and apparatus for feeding hygroscopic and reactive materials. 2,326,276; Aug. 10.

Babcock & Wilcox Company. (See Bailey, E. G., and Raynor, assignor.)

Bailey, Ervin G., Easton, Pa., and A. E. Raynor, Rockville Center, N. Y., assignor to The Babcock & Wilcox Company, Newark, N. J. Steam generator. 2,326,513; Aug. 10.

Bailey, Richard S., Baltimore, Md., assignor to Bendix Aviation Corporation, South Bend, Ind. Crystal working apparatus. 2,326,319; Aug. 10.

Baker, Corwin W., Stoneham, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Machine for shaping shoe uppers over lasts. 2,326,193; Aug. 10.

Baker, Homer B., assignor to The Balmar Corporation, Baltimore, Md. Driving box equipment. 2,326,426; Aug. 10.

Baker, John C., Montclair, N. J., assignor to Standard Brands Incorporated, New York, N. Y. Making of bread. 2,326,278; Aug. 10.

Baker, John W., et al. (See Charpentier, Edouard P., assignor.)

Baldwin, Philip S., Florence, Italy; vested in the Alien Property Custodian. Hydraulic pressure transmission system. 2,326,116; Aug. 10.

Bales, James E., assignor to Lyon Metal Products, Incorporated, Aurora, Ill. Cabinet structure. 2,326,320; Aug. 10.

Balmar Corporation, The. (See Baker, Homer B., assignor.)

Banker, Oscar H., assignor to New Products Corporation, Chicago, Ill. Automatic clutch mechanism. 2,326,279; Aug. 10.

Barber-Colman Company. (See Peterson, Burt A., assignor.)

Bard, Francis N., Highland Park, Ill. Roof scraper. 2,326,514; Aug. 10.

Barish, Thomas, Hyattsville, Md. Marking machine. 2,326,603; Aug. 10.

Barish, Thomas, Hyattsville, Md. Marking. 2,326,604; Aug. 10.

Barlow & Seelig Mfg. Co. (See Schroeder, Simon E., assignor.)

Barmeier, Floyd E., Chicago, Ill., assignor to General Printing Ink Corporation, New York, N. Y. Multicolor printing and ink therefor. 2,326,321; Aug. 10.

Bartelink, Everhard H. B., Niskayuna, N. Y., assignor to General Electric Company. Television system. 2,326,515; Aug. 10.

Bartlow, Justin D., Long Beach, assignor to J. C. Owens, Los Angeles, Calif. Carpet stretcher. 2,326,117; Aug. 10.

Barton, Edward G., Cleveland, Ohio. Demonstration device. 2,326,194; Aug. 10.

Bass, Lawrence W., and H. S. Olcott, Pittsburgh, Pa., assignors to Cotton Research Foundation. Protein recovery. 2,326,195; Aug. 10.

Bass, Shailer L., and A. A. Lawrence, assignors to The Dow Chemical Company, Midland, Mich. Finishing piece goods. 2,326,605; Aug. 10.

Bauer, Benjamin B., Chicago, Ill., assignor to S. N. and F. Shure, trustees, doing business as Shure Brothers, a partnership. Translating device. 2,326,280; Aug. 10.

Bauer, Hans F., Chicago, J. V. Bauer, Elmwood Park, and D. M. Hawley, Geneva, assignors to Stein, Hall Manufacturing Company, Chicago, Ill. Pregummed hanging material. 2,326,118; Aug. 10.

Bauer, Jordan V. (See Bauer, Hans F. and J. V., and Hawley.)

Bead Chain Manufacturing Company, The. (See Kosha, Andrew J., assignor.)

Beatty, Bennie V., Uniontown, Pa., assignor of three-eighths to R. E. Day, and three-eighths to C. B. Harter, Tulsa, Okla. Measuring instrument for determining angles and the like. 2,326,518; Aug. 10.

Becker, Walter A., Charlotte, N. C. Box construction. 2,326,281; Aug. 10.

Bell, Curtis M., Berkeley, Calif. Automatic collet chuck. 2,326,322; Aug. 10.

Bell, Joseph D., San Francisco, Calif. Convertible bed. 2,326,196; Aug. 10.

Bell Telephone Laboratories, Incorporated. (See Dickieson, Alton C., assignor.)

Bell Telephone Laboratories, Incorporated. (See Dowey, T. L., and Lovell, assignors.)

Bell Telephone Laboratories, Incorporated. (See Eagon, L. L., and McKim, assignors.)

Bell Telephone Laboratories, Incorporated. (See Hall, Nathan I., assignor.)

Bell Telephone Laboratories, Incorporated. (See Harrison, H. C., and Little, assignors.)

Bell Telephone Laboratories, Incorporated. (See Horton, Arthur W., Jr., assignor.)

Bell Telephone Laboratories, Incorporated. (See Lovell, Clarence A., assignor.)

Bell Telephone Laboratories, Incorporated. (See Meacham, Larned A., assignor.)

Bell Telephone Laboratories, Incorporated. (See Mohr, Milton E., assignor.)

Bell Telephone Laboratories, Incorporated. (See Retallack, John B., assignor.)

Bell Telephone Laboratories, Incorporated. (See Shangle, Amos H., assignor.)

Bell Telephone Laboratories, Incorporated. (See Trenkle, Charles H., assignor.)

Bell Telephone Laboratories, Incorporated. (See Trucksess, David E., assignor.)

Bell Telephone Laboratories, Incorporated. (See Young, Clarence H., assignor.)

Bendix Aviation Corporation. (See Bailey, Richard S., assignor.)

Bendix Aviation Corporation. (See Jandasek, Joseph, assignor.)

Bendix-Westinghouse Automotive Air Brake Company. (See Sanford, Roy S., assignor.)

Benedict, Wayne L., assignor to Universal Oil Products Company, Chicago, Ill. Catalyst manufacture. 2,326,323; Aug. 10.

Bennett, Arthur W. (See Roberts, F., and Bennett.)

Benninghofen, Paul, et al., trustees. (See Waechter, Harry J., assignor.)

Berger, Henry G., Woodbury, L. A. Hamilton, Wenonah, and E. W. Fuller, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Dielectric or insulating oil. 2,326,324; Aug. 10.

Bertrand, Frederic E., Lynnn, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Insole machine. 2,326,119; Aug. 10.

Bible, Maxwell L. (See Wilson, L. L., Lowmiller, Bible.)

Bickel, Gerald O., Kokomo, Ind. Electrical gauge. 2,326,427; Aug. 10.

Bierenfeld, Josef, Shorewood, Wis., assignor to Square D Company, Detroit, Mich. Enclosure. 2,326,282; Aug. 10.

Biggert, Florence C., Jr., assignor to United Engineering & Foundry Company, Pittsburgh, Pa. Forging press. 2,326,606; Aug. 10.

Billings & Spencer Company, The. (See Kuehn, Raymond L., assignor.)

Binder, John M., New Hyde Park, assignor to Consolidated Cork Corporation, New York, N. Y. Lubricating device for cork-rod packing machines. 2,326,428; Aug. 10.

Bishop & Babcock Manufacturing Company, The. (See Mayo, Edward L., assignor.)

Black, Charles. (See Kullman, A., and Black.)

Black, George M., Cleveland Heights, Ohio. Metal coating composition. 2,326,120; Aug. 10.

Black, John E. and R. S., Mendota, Ill. Glue spreader, surface coater, and the like. 2,326,429; Aug. 10.

Black, Robert S. (See Black, John E. and R. S.)

Blanchard, Werner J., Dayton, Ohio, assignor, by mesne assignments, to General Motors Corporation, Detroit, Mich. Propeller manufacture. 2,326,430; Aug. 10.

Blecha, John, Kremmling, Colo. Hydraulic reverse scraper. 2,326,197; Aug. 10.

Bludworth, Joseph E., Cumberland, Md., assignor to Celanese Corporation of America. Preparation of composite fabric. 2,326,121; Aug. 10.

Bluechel, Joseph H. (See Smith, Alfred, assignor.)

Boehm, Norman J., Detroit, and D. E. Staub, Grosse Pointe Park, assignors to Allied Manufactures, Inc., Detroit, Mich. Spreader leg and drag. 2,326,325; Aug. 10.

Bohner, Clyde C., assignor to Western Cartridge Company, New Haven, Conn. Hand lamp. 2,326,607; Aug. 10.

Bolidens Gruvaktiebolag. (See Lundbäck, S. V., and Nilsson, assignors.)

Bol-Mac Products Company. (See McConnohie, Levi L., assignor.)

Bonsall, Charles D., Chicago, Ill., assignor to Standard Railway Equipment Manufacturing Company. Manufacturing seam caps. 2,326,283; Aug. 10.

Boraks, Louis, Brighton, assignor to Liberty Mutual Insurance Company, Boston, Mass. Guard device for paper or like machines. 2,326,608; Aug. 10.

Borglin, Joseph N., assignor to Hercules Powder Company, Wilmington, Del. Depilatory. 2,326,609; Aug. 10.

Borglin, Joseph N., assignor to Hercules Powder Company, Wilmington, Del. Emulsions. 2,326,610; Aug. 10.

Bossmeyer, Charles L., Stratford, and S. Yerkovitch, Bridgeport, Conn., assignors to Dictaphone Corporation, New York, N. Y. Clutch. 2,326,611; Aug. 10.

Bourne, Roland B., West Hartford, assignor to The Maxim Silencer Company, Hartford, Conn. Silencer. 2,326,612; Aug. 10.

Bourne, Roland B., West Hartford, and J. P. Tyskewicz, assignors to The Maximum Silencer Company, Hartford, Conn. Silencer. 2,326,613; Aug. 10.

Bowman, John R., assignor to Gulf Research & Development Company, Pittsburgh, Pa. Amplifier. 2,326,614; Aug. 10.

Boyce, John N. (See van Amerongen, W., and Boyce.)

Brainard, Carl H. (See Carlson, E. W., and Brainard.)

Brandel, Serge, Vuillefrancha-sur-Mar, Alpes-Maritimes, and H. Perrot, Paris, France; vested in the Alien Property Custodian. Shoe and the like. 2,326,198; Aug. 10.

Braunschmidt, Ludwig, Bitterfeld, K. van Briessen, Leipzig, and K. Hissbach, Wolfen, Germany, assignors to General Aniline & Film Corporation, New York, N. Y. Color control in photographic copying apparatus and the like. 2,326,431; Aug. 10.

Breedis, John, Croydon, assignor to Röhm & Haas Company, Philadelphia, Pa. Polymerization. 2,326,326; Aug. 10.

Breese, James L., assignor to Oil Devices, Santa Fe, N. Mex. Movable radiating and combustion chamber for fluid fuel burners. 2,326,432; Aug. 10.

Bretthauer, John H., and W. Cermak, New York, N. Y. Double action safety switch. 2,326,199; Aug. 10.

Brewer, Richard D., Wayne, assignor to Ford Motor Company, Dearborn, Mich. Connector. 2,326,327; Aug. 10.

Bristol Company, The. (See Bristol, Franklin B., assignor.)

Bristol Company, The. (See Hart, Eugene H., assignor.)

Bristol Company, The. (See Mabey, Arthur R., assignor.)

Bristol Company, The. (See MacLaren, Frederick B., Jr., assignor.)

Bristol, Franklin B., Middlebury, assignor to The Bristol Company, Waterbury, Conn. Telemetric apparatus. 2,326,200; Aug. 10.

Broeren, Frank L., Neenah, assignor to Marathon Paper Mills Company, Rothschild, Wis. Package for dispensing interfolded sheets. 2,326,433; Aug. 10.

Brown and Sharpe Manufacturing Company. (See Lalime, Lester J., assignor.)

Brown, George B., Manville, N. J., assignor to Johns-Manville Corporation, New York, N. Y. Compressed and densified product and making the same. 2,326,516; Aug. 10.

Brown, George B., Martinsville, N. J., assignor to Johns-Manville Corporation, New York, N. Y. Manufacturing fibrous insulation. 2,326,517; Aug. 10.

Brown, Herbert C. (See Kharasch, M. S., and Brown.)

Brown Instrument Company, The. (See Keeler, Earl A., assignor.)

Brown, Joseph D., New York, assignor to Poloron Products, Incorporated, New Rochelle, N. Y. Thermal jug. 2,326,434; Aug. 10.

Browne, Lindsay H., Pittsford, N. Y., assignor to The American Brake Shoe & Foundry Company. Bottle capping mechanism. 2,326,284; Aug. 10.

Brumagin, Ivan S., North Warren, Pa. Flexible coupling. 2,326,201; Aug. 10.

Bruson, Herman A., assignor to The Resinous Products & Chemical Company, Philadelphia, Pa. Cyanoethyl ether of tertiary amino alcohols. 2,326,721; Aug. 10.

Bryan, Herbert W., assignor to Gillette Safety Razor Company, Boston, Mass. Blade magazine. 2,326,202; Aug. 10.

Budd, Edward G. Manufacturing Co. (See Weightman, William A., assignor.)

Burkardt, Anton, assignor to Pneumatic Cap & Seal Corporation, New York, N. Y. Sealing bottles and the like. 2,326,722; Aug. 10.

Burke, James P., Knoxville, Tenn., assignor to F. L. McLaughlin, Detroit, Mich. Nut retainer. 2,326,285; Aug. 10.

Burnside, Don G., East Orange, N. J., assignor to Radio Corporation of America. Ultra high frequency coupling means. 2,326,519; Aug. 10.
Bush, Paine L., Dallas, Tex. Strap fastener. 2,326,328; Aug. 10.
Bush, Russell J., Wabash, Ind., assignor to The General Tire & Rubber Company, Akron, Ohio. Machinery packing. 2,326,286; Aug. 10.
Butler, Ursal K. (See Flynt, Robert C.)
Buxton, Incorporated. (See Buxton, Warner R.)
Buxton, Mabel A., executrix. (See Buxton, Warner R.)
Buxton, Warner R., deceased, by M. A. Buxton, Longmeadow, executrix, assignor to Buxton, Incorporated, Springfield, Mass. Hand bag and cover therefor. 2,326,615; Aug. 10.
Bynum, Pink T., Beeville, Tex. Coring apparatus. 2,326,435; Aug. 10.
Cairns Corporation. (See Lermont, B., and Wolf, assignors.)
Caldwell, Harry F., assignor, by mesne assignments, to Oliver Machinery Company, Grand Rapids, Mich. Label attaching machine. 2,326,436; Aug. 10.
Calhoun, Ralph E., Metaline Falls, Wash. Reconditioning drill bits. 2,326,520; Aug. 10.
Calhoun, Ralph E., Metaline Falls, Wash. Reconditioning drill bits. 2,326,521; Aug. 10.
Camp, Joseph O., Oak Park, Ill. Internal combustion engine. 2,326,329; Aug. 10.
Campbell, Richard H., assignor to Webster Electric Company, Racine, Wis. Communication system. 2,326,616; Aug. 10.
Campbell, Richard H., assignor to Webster Electric Company, Racine, Wis. Communication system. 2,326,617; Aug. 10.
Cannon, George E. (See Teague, J. U., and Cannon.)
Carey, Philip, Manufacturing Company, The. (See Fasold, G. A., and Greider, assignors.)
Carlson, Eric W., and Carl H. Brainard, Omaha, Nebr. Tire chain assembly. 2,326,618; Aug. 10.
Carlson, Henry S., assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Cabinet construction. 2,326,330; Aug. 10.
Carreras, Jose R., assignor to sucesores de Abarca, San Juan, Puerto Rico, a partnership consisting of Angel Abarca Portilla, Juan Abarca Portilla, and Felipe F. Vidal. Vacuum pan. 2,326,619; Aug. 10.
Cash, A. W., Company. (See Klinker, John J., assignor.)
Celanese Corporation of America. (See Bludworth, Joseph E., assignor.)
Celanese Corporation of America. (See Dreyfus, C., and Schneider, assignors.)
Celanese Corporation of America. (See Whitehead, William, assignor.)
Central Rubber & Mfg. Co. (See Hecter, E. W., and Woodhead, assignors.)
Cermak, William. (See Bretthauer, J. H., and Cermak.)
Chalfant, William E., Upper Darby, and H. F. McConomy, assignors to The Atlantic Refining Company, Philadelphia, Pa. Recovery of phenol in gas purification systems. 2,326,122; Aug. 10.
Chamberlain, William H., Higham Ferrers, England. Counter molding machine. 2,326,437; Aug. 10.
Chantler, Thomas, Grotton, near Oldham, assignor to Platt Brothers and Company Limited, Oldham, England. Drawing-off arrangement or mechanism for dealing with fleeces intermediate of scribblers or carding engines. 2,326,331; Aug. 10.
Charpentier, Edouard P., San Pedro, assignor of forty-five per cent to W. J. Gillis, and ten per cent to J. W. Baker, Los Angeles, Calif. Automatic fishhook lure. 2,326,620; Aug. 10.
Chicago Die Casing Manufacturing Company. (See Koch, Paul F., assignor.)
Chicago Pneumatic Tool Company. (See Amtsberg, Lester A., assignor.)
Chicago Pneumatic Tool Company. (See Schaedler, Raymond J., assignor.)
Chicago Pneumatic Tool Company. (See Snyder, Raymond C., assignor.)
Cities Service Oil Company. (See Opsal, Borger L., assignor.)
Clarke, Clement S., Shreveport, La. Treating hydrocarbons. 2,326,438; Aug. 10.
Clarke, John E. (See Gebhard, M. L., Heltzer, Clarke, and Davis.)
Clausen, Henry P., White Plains, N. Y., assignor to The Gray Manufacturing Company, Hartford, Conn. Machine for making long playing sound records. 2,326,332; Aug. 10.
Cleaners Hanger Company. (See Ruen, Henry C., assignor.)
Clements Mfg. Co. (See Clements, William J., assignor.)
Clements, William J., assignor to Clements Mfg. Co., Chicago, Ill. Hose connection for vacuum cleaners and the like. 2,326,439; Aug. 10.
Cloud, Gould H., Linden, and W. J. Sparks, Elizabeth, N. J., assignors to Standard Oil Development Company. Diesel fuel. 2,326,522; Aug. 10.
Cochrane, William R. (See McNabb, W. J., and Cochrane.)
Coffman, Donald D., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Copolymers of unsaturated isocyanates. 2,326,287; Aug. 10.
Cohen, Joseph H., assignor to Automatic Devices Corporation, Bridgeport, Conn. Cigar lighter. 2,326,333; Aug. 10.
Columbian Rope Company. (See Dodge, Milo C., assignor.)
Combustion Engineering Company. (See Place, Palmer B., assignor.)
Commercial Solvents Corporation. (See Arzberger, Cornelius F., assignor.)
Commons, Charles H., Jr. (See Frost, L. J., and Commons.)
Cone Automatic Machine Company Inc. (See Adams, Clarence H., assignor.)
Coney, James D., Chicago, Ill., assignor to L. A. Young Spring & Wire Corporation, Detroit, Mich. Garment hanger. 2,326,334; Aug. 10.
Connolly, Gerald C., and R. N. Watts, Baton Rouge, La., assignors to Standard Oil Development Company. Preparation of gel catalyst. 2,326,523; Aug. 10.
Consolidated Cork Corporation. (See Binder, John M., assignor.)
Continental Can Company. (See Eggerss, Hans A., assignor.)
Continental Can Company. (See Pearson, P. E. and Magnus, assignors.)
Continental Motors Corporation. (See Jackson, Thomas, assignor.)
Cook, M. J. (See Acosta, John, assignor.)
Corda, Frank P. A., North Tarrytown, N. Y. Twisting machine. 2,326,621; Aug. 10.
Cotton Research Foundation. (See Bass, L. W., and Olcott, assignors.)
Courchene, Theodore P., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Lasting machine. 2,326,123; Aug. 10.
Courtaulds Limited. (See Wholton, Fred, assignor.)
Craig, David, assignor, by mesne assignments, to The B. F. Goodrich Company, Akron, Ohio. Treatment of conjugated diene hydrocarbons. 2,326,440; Aug. 10.
Crane Packing Company. (See Payne, Frank E., assignor.)
Crapez, Jules, Mons-en-Baroeul, France; vested in the Alien Property Custodian. Psychrometer. 2,326,124; Aug. 10.
Crooks, Ralph K., Sharpsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway traffic controlling apparatus. 2,326,622; Aug. 10.
Crosby, Edwin W., Swarthmore, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Coating composition. 2,326,623; Aug. 10.
Crown Fastener Corporation. (See Thomas, F. W., and Maclachlan, assignors.)
Csanyi, Henry, Jamaica, assignor of one-half to H. F. Wanvig, New York, N. Y. Electroplating apparatus. 2,326,624; Aug. 10.
Cumberland Case Company. (See Swingle, D. R., and Robinson, assignors.)
Cunningham, Marion M., South Bend, assignor to Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind. Mattress covering. 2,326,441; Aug. 10.
Cutler-Hammer, Inc. (See Krieger, Alvin W., assignor.)
Cutler-Hammer, Inc. (See Stansbury, Carroll, assignor.)
Cyr, Benjamin. (See Shipley, S. C., Ingersoll, and Cyr.)
Dath, George E., Mokena, assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock absorbing mechanism. 2,326,288; Aug. 10.
Davis, Claude W., Roanoke, Va. Golf practicing device. 2,326,524; Aug. 10.
Davis, Edward P. (See Gebhard, M. L., Heltzer, Clarke, and Davis.)
Davis, Robert F., Washington, D. C., assignor to Well Surveys, Incorporated, Tulsa, Okla. Apparatus for determining the dip in the earth's substrata. 2,326,640; Aug. 10.
Day, R. E. et al. (See Beatty, Vennie V., assignor.)
Dehn, William C., Three Rivers, Mich., assignor to Fairbanks, Morse & Co., Chicago, Ill. Air cooling of engines. 2,326,335; Aug. 10.
De Jur-Amsco Corporation. (See Leonard, Anthon A., assignor.)
De Luca, Anthony. (See Russell, James H., assignor.)
Denneen, Francis S. (See Dunn, W. C., and Denneen.)
Dennison, Brook J., Aspinwall, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Laminated glazing panel. 2,326,203; Aug. 10.
Dermond, Lawrence C., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Engine starting apparatus. 2,326,125; Aug. 10.
De Shong, William J., Union Springs, N. Y. Spar. 2,326,289; Aug. 10.
Desmone, John A. (See Nichols, R., and Desmone.)
Dewey and Almy Chemical Company. (See Neiley, S. B., and Habib, assignors.)
De Wit, Hendrik P., Casigua, Venezuela, assignor to Shell Development Company, San Francisco, Calif. Gas-lift control. 2,326,442; Aug. 10.
Dick, Roscoe S., Conneaut, Ohio, assignor to General Electric Company. Base for electric lamps and similar devices. 2,326,336; Aug. 10.
Dickieson, Alton C., Mountain Lakes, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Alarm and testing circuit. 2,326,290; Aug. 10.

Dictaphone Corporation. (See Bossmeyer, C. L., and Yerkovich, assignors.)
Dictaphone Corporation. (See Renholdt, John E., assignor.)
Diesbach, Fritz G., et al., trustees. (See Waechter, Harry J., assignor.)
Dillon, Robert L., Manchester, assignor of one-half to D. J. Sullivan, Nashua, N. H. Automobile radio antenna. 2,326,443; Aug. 10.
Dimmick, Ralph B., Butler, Pa., assignor to The American Rolling Mill Company, Middletown, Ohio. Heat-treating car wheels and the like. 2,326,126; Aug. 10.
Dimmick, Ralph B., Butler, Pa., assignor to The American Rolling Mill Company, Middletown, Ohio. Forged car wheel. 2,326,127; Aug. 10.
Di Renzo, Simon, Philadelphia, Pa. Radio compass direction finder. 2,326,337; Aug. 10.
Distillation Products, Inc. (See Hickman, Kenneth C. D., assignor.)
Di Toro, Michael J., East Orange, assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Phonograph. 2,326,625; Aug. 10.
Diwoky, Roy J., assignor to Standard Oil Company, Chicago, Ill. Preventing deleterious coke deposits. 2,326,525; Aug. 10.
Dobmeier, Fred. (See Rearwin, Earl W., assignor.)
Dodge, Elbert S., and J. Tobin, Ilion, assignors to Remington Rand Inc., Buffalo, N. Y. Typewriting and like machine. 2,326,291; Aug. 10.
Dodge, Milo C., assignor to Columbian Rope Company, Auburn, N. Y. Molded plastic body. 2,326,526; Aug. 10.
Dorman, Jack R., Cincinnati, Ohio. Tube and coupling. 2,326,292; Aug. 10.
Doser, Arnold. (Se Siefken, W., and Doser.)
Dow Chemical Company, The. (See Bass, S. L., and Lawrence, assignors.)
Dow Chemical Company, The. (See Taylor, F. L., and Moyle, assignors.)
Dowdell, Joshua R., Dallas, Tex., assignor to Nash Engineering Company, South Norwalk, Conn. Charge forming device. 2,326,205; Aug. 10.
Dowey, Thomas L., Summit, and C. A. Lovell, Maplewood, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Automatic questionnaire. 2,326,204; Aug. 10.
Draperies, Incorporated. (See Ripley, Walter L., assignor.)
Dreyfus, Camille, New York, N. Y., and G. Schneider, Montclair, N. J., assignors to Celanese Corporation of America. Production of composite fabric. 2,326,128; Aug. 10.
Drott, Edward A., and J. H. Kerber, assignors to Hi-Way Service Corporation, Milwaukee, Wis. Material handling apparatus. 2,326,338; Aug. 10.
Drying & Concentrating Company. (See Hall, Joseph M., assignor.)
Dudgeon, Harry A., Kenilworth, England. Sizing device for machining operations. 2,326,339; Aug. 10.
Dudley, Victor I., Franklin, Pa., assignor to Joy Manufacturing Company. Spill board. 2,326,444; Aug. 10.
Dummer, Samuel R., Dunellen, N. J. Bottle stopper. 2,326,340; Aug. 10.
Dumore Company, The. (See Nelson, James H., assignor.)
Duncan, William J., Houston, Tex. Sharpener. 2,326,626; Aug. 10.
Dunn, William C., Shaker Heights, and F. S. Denneen, assignors to The Ohio Crankshaft Company, Cleveland, Ohio. Apparatus for electric heating. 2,326,206; Aug. 10.
Du Pont, E. I., de Nemours & Company. (See Coffamn, Donald D., assignor.)
Du Pont, E. I., de Nemours & Company. (See Crosby, Edwin W., assignor.)
Du Pont, E. I., de Nemours & Company. (See Johnson, C. R., Pilcher, and Stanley, assignors.)
Du Pont, E. I., de Nemours & Company. (See Kharasch, M. S., and Brown, assignors.)
Du Pont, E. I., de Nemours & Company. (See Lontz, John F., assignor.)
Du Pont, E. I., de Nemours & Company. (See Macht, Maurice L., assignor.)
Du Pont, E. I., de Nemours & Co. (See Neal, A. M., and Sturgis, assignors.)
Du Pont, E. I., de Nemours & Company. (See Werntz, James H., assignor.)
Du Pont, E. I., de Nemours & Co. (See Wicker, Charles R., assignor.)
Durma-Gard, Inc. (See Weisberger, Irving, assignor.)
Eagon, Lloyd L., New York, N. Y., and B. McKim, East Orange, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Signaling system. 2,326,445; Aug. 10.
Earhuff, John A. (See Ross, Charles, assignor.)
Eby, Ivan D., Ridgewood, N. J. Ship's funnel. 2,326,446; Aug. 10.
Eddy, William C., Kenilworth, Ill., assignor to Radio Corporation of America. Supporting apparatus. 2,326,207; Aug. 10.
Edison, Thomas A., Incorporated. (See Carlson, Henry S., assignor.)
Edison, Thomas A., Incorporated. (See Di Toro, Michael J., assignor.)
Edwards, Hilbert E., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Control mechanism. 2,326,208; Aug. 10.
Eggerss, Hans A., Van Wert, Ohio, assignor to Continental Can Company, Inc., New York, N. Y. Container. 2,326,209; Aug. 10.
Egg-Safety Carton Corporation. (See Moore, George C., Jr., assignor.)
Egloff, Gustav, assignor to Universal Oil Products Company, Chicago, Ill. Conversion of hydrocarbons. 2,326,628; Aug. 10.
Egloff, Gustav, and V. Komarewsky, assignors to Universal Oil Products Company, Chicago, Ill. Treatment of hydrocarbon oils. 2,326,627; Aug. 10.
Ehlers, George M., and G. Kodama, assignors to Globe-Union, Inc., Milwaukee, Wis. Variable condenser. 2,326,341; Aug. 10.
Ehrlich, Louis B., Toledo, Ohio. Solenoid switch. 2,326,342; Aug. 10.
Eichenberger, Erwin, Detroit, Mich. Pencil type flashlight. 2,326,343; Aug. 10.
Elnson-Freeman Co., Inc. (See Horr, John V., assignor.)
Eisenberg, George M. (See Moerk, F. N., and Eisenberg.)
Elmendorf, Duryea E., Cleveland, and K. H. Keller, Cleveland Heights, Ohio, assignors to General Electric Company. Apparatus for detecting variations in wire-like bodies. 2,326,344; Aug. 10.
Emmerich, Werner, assignor to The Frank Tea and Spice Company, Cincinnati, Ohio. Carton construction. 2,326,527; Aug. 10.
Empire Metal Cap Company. (See Merolle, Augustus L., assignor.)
Empire Shield Co. (See Freedland, Max, assignor.)
Enderson, Reuben T., Rochester, Minn. Pipe cutting gauge. 2,326,447; Aug. 10.
Erb, George C., Forest Hills, assignor to American Can Company, New York, N. Y. Container. 2,326,129; Aug. 10.
Erland af Kleen, Nils, Stockholm, Sweden. Refrigerator. 2,326,130; Aug. 10.
Ernst, Eugene, Livingston, N. J. Knockdown flat offset gauge. 2,326,448; Aug. 10.
Ernst, Eugene, Livingston, N. J. Flat offset gauge. 2,326,449; Aug. 10.
Ernst, Walter, and I. B. Lawyer, Mount Gilead, Ohio, assignors to The Hydraulic Development Corporation, Inc., Wilmington, Del. Testing press. 2,326,345; Aug. 10.
Eschelbacher, Emanuel, New York, N. Y. Clear vision steering wheel. 2,326,131; Aug. 10.
Evans, Martin E., Pittsburgh, Pa. Metal attenuating process and apparatus. 2,326,629; Aug. 10.
Fagan, Joseph S., Inglewood, Calif. Paint burning and scraping tool. 2,326,630; Aug. 10.
Fairbanks, Morse & Co. (See Dehn, William C., assignor.)
Falk, Adolf C., Drexel Hill, and R. A. Wagner, Sharon Hill, Pa., assignors to Kellett Autogiro Corporation. Aircraft landing gear. 2,326,210; Aug. 10.
Farnsworth Television and Radio Corporation. (See Leichner, William G., assignor.)
Fasold, George A., Mount Healthy, and H. W. Greider, Wyoming, Ohio, assignors to The Philip Carey Manufacturing Company. Roofing. 2,326,723; Aug. 10.
Fasold, George A., Mount Healthy, and H. W. Greider, Wyoming, Ohio, assignors to The Philip Carey Manufacturing Company. Roofing. 2,326,724; Aug. 10.
Fawick, Thomas L., Akron, Ohio. Flexible shaft connection. 2,326,450; Aug. 10.
Fawick, Thomas L., Akron, Ohio. Flexible coupling. 2,326,451; Aug. 10.
Fay, Joseph M. (See Markgraf, F. H., Jr., and Fay.)
Fear, Ernest D., assignor of thirty percent to I. E. Fear and twenty percent to H. Murphy, Kansas City, Mo. Making cottage cheese. 2,326,132; Aug. 10.
Fear, Ernest D., assignor of thirty percent to I. E. Fear and twenty percent to H. Murphy, Kansas City, Mo. Making cheese. 2,326,133; Aug. 10.
Fear, Irving E., et al. (See Fear, Ernest D., assignor.)
Festervan, Benjamin J., and N. F. Henderson, Monroe City, Tex. Paraffin scraper. 2,326,528; Aug. 10.
Finch, James L. (See Lindenblad, N. E., and Finch.)
Fisadco Limited. (See Haslam, William H., assignor.)
Fischer, Alois, assignor to United States Radium Corporation, New York, N. Y. Radioactive unit and producing the same. 2,326,631; Aug. 10.
Fisher, Harry L., Stamford, Conn., assignor to U. S. Industrial Alcohol Co., New York, N. Y. 4,4,6-trimethyl-2-thio-tetrahydro-1,3,2-oxazine. 2,326,732; Aug. 10.
Fisher, Harry L., Stamford, Conn., assignor to U. S. Industrial Alcohol Co., New York, N. Y. Accelerator of vulcanization. 2,326,733; Aug. 10.
Flannery Bolt Company. (See Greenslade, Grover R., assignor.)
Flosi, Florio G. (See Weiner, Harry, assignor.)
Flynt, Robert C., and U. K. Butler, Winston-Salem, N. C. Toy machine gun. 2,326,530; Aug. 10.
Foote, Alton G., Wickliffe, Ohio, assignor to General Electric Company. Vapor lamp for sound recording. 2,326,346; Aug. 10.

Ford Motor Company. (See Brewer, Richard D., assignor.)
Ford Motor Company. (See Zoerlein, E., and Hoffmann, assignors.)
Fordon, Lee A. (See Ullrich, Fred J., assignor.)
Forss, Frithiof P., Aurora, assignor to Independent Pneumatic Tool Company, Chicago, Ill. Impact tool. 2,326,347; Aug. 10.
Frank Tea and Spice Company, The. (See Emmerich, Werner, assignor.)
Free, Gerhard. (See Pier, M., and Free.)
Freedland, Max, New York, N. Y., assignor to Empire Shield Co., Inc. Utility bag. 2,326,452; Aug. 10.
Frellich, Jacob, Bronx, and C. N. Frey, Scarsdale, assignors to Standard Brands Incorporated, New York, N. Y. Manufacture of baked goods. 2,326,134; Aug. 10.
Frese, Joseph F., assignor to Monitor Controller Company, Baltimore, Md. Overload cutout for electric circuits. 2,326,529; Aug. 10.
Frey, Charles N. (See Frellich, J., and Frey.)
Frico Products Corporation. (See Horton, Erwin C., assignor.)
Friedman, Benjamin, New York, N. Y. Interchangeable toothbrush. 2,326,632; Aug. 10.
Friedmann, Hugo, Astoria, N. Y. Removable adjusting attachment for drawing compasses and the like. 2,326,135; Aug. 10.
Frost, Leon J., and C. H. Commons, Jr., Niagara Falls, assignors to The Titanium Alloy Manufacturing Company, New York, N. Y. Enameling composition and the like and making the same. 2,326,348; Aug. 10.
Fry, Benjamin W., University City, and J. Gottfried, St. Louis, Mo. Coin selector. 2,326,211; Aug. 10.
Fuller, Ernest W., Shaker Heights, and O. Morgensen, Jr., Dayton, assignors to The Acrotorque Company, Cleveland, Ohio. Windshield wiper mechanism. 2,326,349; Aug. 10.
Fuller, Everett W. (See Berger, H. G., Hamilton, and Fuller.)
Gabel, John, Evanston, assignor to The John Gabel Manufacturing Company, Chicago, Ill. Automatic phonograph. 2,326,633; Aug. 10.
Gabel, John, Manufacturing Company, The. (See Gabel, John, assignor.)
Gardiner, Winfield C. (See O'Connor, V. T., and Gardiner.)
Garelick, Joseph, Hurleyville, N. Y. Chlorinator. 2,326,212; Aug. 10.
Garrett, David L., Denver, Colo. Percussion tool. 2,326,136; Aug. 10.
Gast, Albert K., St. Joseph, Mich. Shade cutter. 2,326,293; Aug. 10.
Gates, William E. F., Welwyn Garden City, England, assignor to Imperial Chemical Industries Limited, Coloring of synthetic resinous compositions. 2,326,531; Aug. 10.
Gebhard, Melvin L., H. Heltzer, J. E. Clarke and E. P. Davis, assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Reflex light reflector. 2,326,634; Aug. 10.
Gee, William P., Plainfield, N. J., assignor, by mesne assignments, to The Texas Company, New York, N. Y. Continuous process of decolorizing lubricating oil. 2,326,294; Aug. 10.
Gee, William P., Plainfield, N. J., assignor, by mesne assignments, to The Texas Company, New York, N. Y. Decolorizing oil with decolorizing earth in the presence of naphtha. 2,326,295; Aug. 10.
Gehrke, Max. (See Inhoffen, H. H., Gehrke, and Schoeller.)
Geiger, Norman. (See Jagust, Philip, assignor.)
Gelpcke, Alfred W., Brooklyn, assignor to The Rawlplug Company, Inc., New York, N. Y. Screw anchor. 2,326,453; Aug. 10.
General Aniline & Film Corporation. (See Braunschmidt, Ludwig, van Briessen, and Hissbach, assignors.)
General Aniline & Film Corporation. (See Riester, O., and Wilmanns, assignors.)
General Aniline & Film Corporation. (See Schneider, W., Schulze, and Wilmanns, assignors.)
General Aniline & Film Corporation. (See Siefken, W., and Doser, assignors.)
General Electric Company. (See Bartelink, Everhard H. B., assignor.)
General Electric Company. (See Dick, Roscoe S., assignor.)
General Electric Company. (See Elmendorf, D. E., and Keller, assignors.)
General Electric Company. (See Foote, Alton G., assignor.)
General Electric Company. (See Hutt, Philip, assignor.)
General Electric Company. (See Light, Philip H., assignor.)
General Electric Company. (See Mittag, Albert H., assignor.)
General Electric Company. (See Morse, Harold F., assignor.)
General Electric Company. (See Rich, Theodore A., assignor.)
General Electric Company. (See Van Horn, Irving H., assignor.)
General Electric Company. (See Weeks, Walter R., assignor.)
General Machinery Ordnance Corporation. (See Welland, Alfred, assignor.)
General Motors Corporation. (See White, Joe, assignor.)
General Motors Corporation. (See Blanchard, Werner J., assignor.)
General Motors Corporation. (See Dermond, Lawrence C., assignor.)
General Motors Corporation. (See Lignian, Jean A., assignor.)
General Printing Ink Corporation. (See Barmeier, Floyd E., assignor.)
General Tire & Rubber Company, The. (See Bush, Russell J., assignor.)
General Tire & Rubber Company, The. (See Kraft, Herman T., assignor.)
Gentile, Scipio S., North College Hill, Ohio. Venetian blind. 2,326,454; Aug. 10.
Gertler, Samuel I., and H. L. J. Haller, Washington, D. C., assignors to Claude R. Wickard as Secretary of Agriculture of the United States of America, and his successors in office. Insecticide. 2,326,350; Aug. 10.
Gettleman, Fredrick, Milwaukee, Wis. Double walled container. 2,326,137; Aug. 10.
Gilbert & Barker Manufacturing Company. (See Grise, Alfred L., assignor.)
Gillette, Elmon C., et al. (See Reenstierna, Gustaf L., assignor.)
Gillette Safety Razor Company. (See Bryan, Herbert W., assignor.)
Gillis, W. J., et al. (See Charpentier, Edouard P., assignor.)
Globe American Corporation. (See Hill, Dewey H., assignor.)
Globe-Union Inc. (See Ehlers, G. M., and Kodama, assignors.)
Goerg, Bernard, Bronxville, assignor to American Radiator & Standard Sanitary Corporation, New York, N. Y. Heating apparatus. 2,326,351; Aug. 10.
Gold, Russell S., and J. Stadler, Berlin, assignors to The American Hardware Corporation, New Britain, Conn. Lock. 2,326,635; Aug. 10.
Goodrich, B. F., Company, The. (See Craig, David, assignor.)
Goodrich, B. F., Company, The. (See Mayne, Robert, assignor.)
Gorrien, John, assignor to C. C. Needham, Minneapolis, Minn. Device for connecting hose pipes to faucets. 2,326,213; Aug. 10.
Gottfried, John. (See Fry, B. W., and Gottfried.)
Gottfried, John, assignor to National Slug Rejectors, Inc., St. Louis, Mo. Coin selector. 2,326,214; Aug. 10.
Gouin, Louis J., East Orange, N. J. Latch opening and window actuating mechanism. 2,326,456; Aug. 10.
Graebner, Otto F., assignor to The Murray Corporation of America, Detroit, Mich. Window construction. 2,326,532; Aug. 10.
Grand Rapids Store Equipment Company. (See Welch, Kenneth C., Jr., assignor.)
Grant, Harry C., Jr., New York, N. Y., assignor to Specialties Development Corporation, Bloomfield, N. J. Control head. 2,326,138; Aug. 10.
Gray Manufacturing Company, The. (See Clausen, Henry P., assignor.)
Gray, Reid B., Dundalk, assignor to The Glenn L. Martin Company, Middle River, Md. Fastening means. 2,326,455; Aug. 10.
Great American Industries, Inc. (See Smith, Wesley L., assignor.)
Green, Samuel G., Gray, Ga. Gun barrel mounting. 2,326,139; Aug. 10.
Greider, Harold W. (See Fasold, G. A., and Greider.)
Greig, James W., Grosse Pointe Park, assignor to Hudson Motor Car Company, Detroit, Mich. Motor vehicle hood locking construction. 2,326,533; Aug. 10.
Greenslade, Grover R., Scott Township, Allegheny County, assignor to Flannery Bolt Company, Bridgeville, Pa. Method and apparatus for detecting progressive fractures or the like in heavily stressed working members. 2,326,352; Aug. 10.
Grise, Alfred L., Springfield, assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Liquid dispensing apparatus. 2,326,636; Aug. 10.
Grise, Alfred L., Springfield, assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Calibrating means for piston meters. 2,326,637; Aug. 10.
Groene, William F., and H. J. Siekmann, assignors to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Machine tool coolant system. 2,326,638; Aug. 10.
Gross, Henry E., College Station, Tex. Marine foundation. 2,326,353; Aug. 10.
Gruender, Oscar C., assignor to Nordberg Manufacturing Company, Milwaukee, Wis. Jaw crusher. 2,326,215; Aug. 10.
Gulf Research & Development Company. (See Bowman, John R., assignor.)
Gzemski, Felix C., assignor to The Atlantic Refining Company, Philadelphia, Pa. Lubricant. 2,326,140; Aug. 10.
Haas, Samuel T. (See Stetler, Lowell, assignor.)
Haberstump, Alfred H., assignor to The Murray Corporation of America, Detroit, Mich. Bath tub. 2,326,534; Aug. 10.

Habib, Emile E. (See Neiley, Stephen B., and Habib.)
Hadfield, Bertram M., Harrow Weald, England, assignor to Associated Electric Laboratories Inc., Chicago, Ill. Alternating current signaling system. 2,326,457; Aug. 10.
Hale, Kermit M., Richmond, Va. Blackout hood. 2,326,354; Aug. 10.
Hall, Frank G., Chicago, Ill. Electric home permanent waver. 2,326,141; Aug. 10.
Hall, Joseph M., Chicago, Ill., assignor to Drying & Concentrating Company. Method of and apparatus for concentrating liquid products. 2,326,142; Aug. 10.
Hall, Narthan I., Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Selection system. 2,326,458; Aug. 10.
Haller, Herbert L. J. (See Gertler, S. I., and Haller.)
Halstead, John H., San Jose, Calif. Hydraulic packing. 2,326,355; Aug. 10.
Hamilton, Lyle A. (See Berger, H. G., Hamilton, and Fuller.)
Hansen, Erik F., New York, N. Y. Marking and combined marking and spreading machine. 2,326,459; Aug. 10.
Hansen, Louis E., Toronto, Ontario, Canada. Holder for stropping razor blades. 2,326,639; Aug. 10.
Hapman, Henry W., Detroit, Mich. Conveyer. 2,326,535; Aug. 10.
Harding, Joseph E., Boston, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Shoe and outsole therefor. 2,326,216; Aug. 10.
Harrison, Henry C., Port Washington, and J. B. Little, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Machine for sealing receptacles. 2,326,296; Aug. 10.
Hart, Eugene H., assignor to The Bristol Company, Waterbury, Conn. Thermometer bulb mounting. 2,326,217; Aug. 10.
Harter, Charles B., et al. (See Beatty, Vennie V., assignor.)
Hartford National Bank and Trust Company, trustee. (See Van Zelst, Johannes J. Z., assignor.)
Hartley, William L., Chicago, Ill., and D. Whitehead, Wyoming, Ohio., assignors to Link-Belt Company. Reclaiming foundry sand. 2,326,218; Aug. 10.
Hartsock, Guy M., and H. S. Rounds, assignors to Mid-West Hydro-Pierce, Inc., Detroit, Mich. Machine for piercing tubes. 2,326,536; Aug. 10.
Harvel Corporation, The. (See Harvey, Mortimer T., assignor.)
Harvey, Mortimer T., East Orange, N. J., assignor to The Harvel Corporation. Composition of matter and method and steps of making and using the same. 2,326,297; Aug. 10.
Hasbrouck, Harold J., Jr., Merchantville, N. J., assignor to Radio Corporation of America. Signal translating apparatus. 2,326,460; Aug. 10.
Haslam, William H., assignor to Fisadco Limited, London, England. Vegetable washing machine. 2,326,356; Aug. 10.
Hawley, Don M. (See Bauer, H. F. and J. V., and Hawley.)
Hayward, John T., Tulsa, Okla. Well depth recording. 2,316,219; Aug. 10.
Heeter, Edward W., Belvidere, Ill., and R. C. Woodhead, Elizabeth, N. J., assignors to Central Rubber & Mfg. Co., Chicago, Ill. Bottle stopper and siphon. 2,326,641; Aug. 10.
Heiser, Henry C., Parma, assignor to The Astrup Company, Cleveland, Ohio. Awning belt center support. 2,326,642; Aug. 10.
Helm, Emerson B. (See MacLaurin, R. D., and Helm.)
Heltzer, Harry. (See Gebhard, M. L., Heltzer, Clarke, and Davis.)
Henderson, Nathan F. (See Festervan, B. J., and Henderson.)
Henning, George E., Joppa, and J. A. Wagner, Baltimore, Md., assignors to Western Electric Company, Incorporated, New York, N. Y. Tensioning apparatus. 2,326,220; Aug. 10.
Hercules Powder Company. (See Borglin, Joseph N., assignor.)
Hercules Powder Company. (See Stuart, Joseph, II., assignor.)
Hester, William F., Drexel Hill, assignor to Röhm & Haas Company, Philadelphia, Pa. Complex polyamino sulphur compound. 2,326,643; Aug. 10.
Hewitt, Ernest W., Stamford, Conn., assignor to The Western Union Telegraph Company, New York, N. Y. Type wheel stop unit. 2,326,298; Aug. 10.
Hickman, Kenneth C. D., assignor to Distillation Products, Inc., Rochester, N. Y. Vitamin preparation. 2,326,644; Aug. 10.
Hill, Carson E., Ferndale, Mich. Fishing reel. 2,326,645; Aug. 10.
Hill, Dewey H., Macomb, Ill., assignor to Globe American Corporation, Kokomo, Ind. Fuel oil burner. 2,326,221; Aug. 10.
Hill, James R., Cleveland Heights, assignor to Willard Storage Battery Company, Cleveland, Ohio. Storage battery. 2,326,537; Aug. 10.
Hillgren, James, Huntington Park, Calif. Doorknob. 2,326,646; Aug. 10.
Hissbach, Kurt. (See Braunschmidt, L., van Briessen, and Hissbach.)
Hi-Way Service Corporation. (See Drott, E. A., and Kerber, assignors.)
Hoffmann, Johannes E. (See Zoerlein, E., and Hoffmann.)
Hopff, Heinrich, and W. Rapp, Ludwigshafen-on-the-Rhine, and H. Rinke, Leverkusen-Schlebusch, Germany; vested in the Alien Property Custodian. Aryl-substituted hydrogenated cyclic compound and producing same. 2,326,222; Aug. 10.
Horr, John V., North Tarrytown, assignor to Einson-Freeman Co., Inc., Long Island City, N. Y. Collapsible cardboard structure. 2,326,648; Aug. 10.
Horton, Arthur W., Jr., South Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Switching mechanism. 2,326,647; Aug. 10.
Horton, Erwin C., Hamburg, assignor to Trico Products Corporation, Buffalo, N. Y. Motor vehicle construction. 2,326,357; Aug. 10.
Hovarter, Otto T., Ashley, Ind. Rockable roller assembly. 2,326,223; Aug. 10.
Howard, Stanley R., Milton, assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Vacuum package. 2,326,649; Aug. 10.
Howe, Harold, Rowayton, Conn. Structure having a folding support surface. 2,326,461; Aug. 10.
Hubbell, Harvey, Incorporated. (See Sundquist, J. A., and Aust, assignors.)
Hudson Motor Car Company. (See Greig, James W., assignor.)
Hufferd, George H., Detroit, Mich., assignor to Thompson Products, Incorporated, Cleveland, Ohio. Self-sealing detachable coupling. 2,326,143; Aug. 10.
Hull, Carl M. (See Thiele, E. W., Schmitkons, and Hull.)
Hull, Homer L., Marion, Ohio. Tumbler type lock. 2,326,358; Aug. 10.
Humbert, Louis J., Rhodelia, Ky. Dispensing device. 2,326,359; Aug. 10.
Husted, Harry A., assignor to The Standard Products Company, Detroit, Mich. Gas mask facepiece. 2,326,650; Aug. 10.
Husted, Harry A., assignor to The Standard Products Company, Detroit, Mich. Exhalation valve structure for protective masks. 2,326,651; Aug. 10.
Hutt, Philip, Milford, Conn., assignor to General Electric Company. Receptacle for electric wiring systems. 2,326,538; Aug. 10.
Hydraulic Brake Company. (See Miller, Raymond J., assignor.)
Hydraulic Development Corporation, The. (See Ernst, W., and Lawyer, assignors.)
Hyland, Edward P., et al. (See Moerk, F. N., and Eisenberg, assignors.)
Ikert, Bruno M., Elgin, Ill., assignor to Warner-Patterson Company, Chicago, Ill. Apparatus for determining fluid pressure. 2,326,652; Aug. 10.
Imperial Chemical Industries Limited. (See Gates, William E. F., assignor.)
Independent Pneumatic Tool Company. (See Forss, Frithiof P., assignor.)
Industrial Rayon Corporation. (See MacLaurin, R. D., and Helm, assignors.)
Ingersoll, Homer H., assignor to Kalasign Company of America, Kalamazoo, Mich. Pumping unit. 2,326,360; Aug. 10.
Ingersoll-Rand Company. (See Morrison, William A., assignor.)
Ingersoll, Ward H. (See Shipley, S. C., Ingersoll, and Cyr.)
Inhoffen, Hans H., Berlin-Wilmersdorf, M. Gehrke, Birkenwerder near Berlin, and W. Schoeller, Berlin-Carlottenburg, Germany, assignors to Schering Corporation, Bloomfield, N. J. Glucosidelike compounds of the steroid series and obtaining the same. 2,326,653; Aug. 10.
Irany, Ernest P., Shawinigan Falls, assignor to Shawinigan Chemicals Limited, Montreal, Quebec, Canada. Powdered resin manufacture. 2,326,539; Aug. 10.
Jackson, Thomas, North Muskegon, assignor to Continental Motors Corporation, Detroit, Mich. Outboard engine construction. 2,326,224; Aug. 10.
Jacobsen, Otto S., assignor to The Lock-Seal Company, Chicago, Ill. Building construction. 2,326,361; Aug. 10.
Jacquard Knitting Machine Co. (See Sirmay, Julius, assignor.)
Jagust, Philip, Brooklyn, assignor to N. Geiger, New York, N. Y. Film magazine for motion picture cameras. 2,326,654; Aug. 10.
Jandasek, Joseph, Detroit, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind. Turbo transmission. 2,326,655; Aug. 10.
Jasco, Incorporated. (See Young, D. W., and Swoope, assignors.)
Jayne, David W., Jr., Old Greenwich, and P. C. Schroy, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Curing catalysts for acid-curing thermosetting resins. 2,326,725; Aug. 10.
Jeffrey, Joseph G., Halifax, assignor of one-third to R. B. MacLennan, Brookfield, and one-third to O. H. Parsons, Halifax, Nova Scotia, Canada. Dancing toy. 2,326,225; Aug. 10.
Jenkins, Alexander F., Baltimore, Md. Torch tip assembling tool. 2,326,362; Aug. 10.

Joesting, Frederick D., Chicago, Ill., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Thermostat. 2,326,226; Aug. 10.

Johns-Manville Corporation. (See Brown, George B., assignor.)

Johnson, Alfred, Chicago, Ill. Shoe tongue forming apparatus. 2,326,656; Aug. 10.

Johnson, Charles R., Glenn Mills, W. S. Pilcher, Woodbury, and C. B. Stanley, Paulsboro, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. End closure for explosive cartridges. 2,326,310; Aug. 10.

Johnson, James P., Shaker Heights, Ohio. Pressure regulator valve. 2,326,462; Aug. 10.

Johnson, Walter L., Bay City, Mich. Measuring instrument. 2,326,363; Aug. 10.

Johnston, Dwight A., assignor to McKay Machine Company, Youngstown, Ohio. Automatic tube cutoff. 2,326,463; Aug. 10.

Johnston, Francis C., Visalia, Calif. Measuring vessel. 2,326,144; Aug. 10.

Johnston, Wayburn E., Minneapolis, Minn. Camera mounting. 2,326,657; Aug. 10.

Jones, Dudley G., Aldwych, London, England. Radial cylinder motor and the like. 2,326,464; Aug. 10.

Joy Manufacturing Company. (See Dudley, Victor I., assignor.)

Kalasign Company of America. (See Ingersoll, Homer H., assignor.)

Kearfott Engineering Co. (See Kraemer, Waldo L., assignor.)

Keeler, Earl A., Norristown, assignor to The Brown Instrument Company, Philadelphia, Pa. Control apparatus. 2,326,465; Aug. 10.

Keller, Karl H. (See Elmendorf, D. E., and Keller.)

Keller, Spencer R., Handley, W. Va. Trimming machine. 2,326,227; Aug. 10.

Kellett Autogiro Corporation. (See Falk, A. C., and Wagner, assignors.)

Kelly, John F. and W. J., Elkins, W. Va. Mold and making the same. 2,326,730; Aug. 10.

Kelly, William J. (See Kelly, John F. and W. J.)

Kerber, Joseph H. (See Drott, E. A., and Kerber.)

Kharasch, Morris S., and H. C. Brown, Chicago, Ill., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Chemical process. 2,326,228; Aug. 10.

Kharasch, Morris S., and H. C. Brown, Chicago, Ill., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Producing carboxylic acid chlorides. 2,326,229; Aug. 10.

King, Henry G., Lorain, Ohio. Lighting device. 2,326,364; Aug. 10.

Kingdon, Ralph H., assignor to Square D Company, Detroit, Mich. Electric switch. 2,326,299; Aug. 10.

Kircher, Paul J., Plainville, assignor to Landers, Frary & Clark, New Britain, Conn. Bathroom weighing scale. 2,326,365; Aug. 10.

Kitterman, Carl C., Albia, Iowa. Trailer coupler. 2,326,466; Aug. 10.

Klinker, John J., assignor to A. W. Cash Company, Decatur, Ill. Furnace regulation. 2,326,230; Aug. 10.

Koch, Paul F., Oak Park, Ill., assignor to Chicago Die Casting Manufacturing Company. Variable pitch pulley. 2,326,468; Aug. 10.

Kodama, George. (See Ehlers, G. M., and Kodama.)

Koenigsamen, Arthur, Jamaica, assignor to Henry Leonard & Thomas, Inc., Ozone Park, New York, N. Y. Smoker's pipe. 2,326,658; Aug. 10.

Köhn, Claus H., Rapperswil, Saint Gallen, assignor to K. Seiler, Zurich, Switzerland. Springy supports of tractors. 2,326,659; Aug. 10.

Komarewsky, Vasili. (See Egloff, G., and Komarewsky.)

Kosha, Andrew J., Stratford, assignor to The Bead Chain Manufacturing Company, Bridgeport, Conn. Machine for making socket pins. 2,326,660; Aug. 10.

Kraft Cheese Company. (See Linstedt, William F., assignor.)

Kraft, Herman T., assignor to The General Tire & Rubber Company, Akron, Ohio. Preloader for fluid operated devices. 2,326,300; Aug. 10.

Kraemer, Waldo L., Brooklyn, N. Y., assignor to Kearfott Engineering Co., Inc. Window cleaning apparatus. 2,326,231; Aug. 10.

Krantz, Edward, deceased; by H. Krantz, administratrix, assignor of one-half to H. A. Torstenson, and one-half to Y. Pearson, Chicago, Ill. Fastener driving tool. 2,326,540; Aug. 10.

Krantz, Helen, administratrix. (See Krantz, Edward.)

Krenke, Orland A., Martins Ferry, Ohio. Paper fastener. 2,326,366; Aug. 10.

Krieger, Alvin W., assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Electric switch. 2,326,232; Aug. 10.

Kroon, Reinout P., Swarthmore, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Turbine blade fastening. 2,326,145; Aug. 10.

Krug, Frederick H., Mount Vernon, Wash. Method and apparatus for making photographic montages. 2,326,367; Aug. 10.

Kuehn, Raymond L., Hartford, Conn., assignor to The Billings & Spencer Company. Machine tool. 2,326,467; Aug. 10.

Kuehn, Raymond L., Hartford, Conn., assignor to The Billings & Spencer Company. Machine tool. 2,326,541; Aug. 10.

Kullman, Alfred, and C. Black, assignors to The American Tool Works Company, Cincinnati, Ohio. Gear forming machine. 2,326,368; Aug. 10.

Kurzbin, Karl, Monterey, Calif. Canning apparatus. 2,326,146; Aug. 10.

La Lande, William A., Jr., Upper Darby, assignor to Porocel Corporation, Philadelphia, Pa. Preparation and use of sugar refining adsorbent. 2,326,369; Aug. 10.

Laline, Lester J., Providence, R. I., assignor to Brown and Sharpe Manufacturing Company. Truing apparatus. 2,326,661; Aug. 10.

Landen, William J., Arlington, Va. Projectile. 2,326,147; Aug. 10.

Landers, Frary & Clark. (See Kircher, Paul J., assignor.)

Landmeier, Edwin W., Cincinnati, Ohio, assignor to The Wadsworth Electric Manufacturing Co., Inc., Covington, Ky. Plug fuse receptacle structure. 2,326,370; Aug. 10.

Lane-Wells Company. (See Spangler, Irl M., assignor.)

Lane-Wells Company. (See Spencer, Lloyd, assignor.)

Lane-Wells Company. (See Taylor, F. A., and Spencer, assignors.)

Lane-Wells Company. (See Zschokke, Arthur J., assignor.)

Larson, Edward S., Chicago, and E. J. Skeppstrom, Park Ridge, assignors to Teletype Corporation, Chicago, Ill. Sensing apparatus. 2,326,148; Aug. 10.

Lawrence, Alfred A. (See Bass, S. L., and Lawrence.)

Lawyer, Ira B. (See Ernst, Walter, and Lawyer.)

Leatherman, Martin, Hyattsville, Md. Fireproofing composition. 2,326,233; Aug. 10.

Le Blond, R. K., Machine Tool Company. (See Groene, W. F., and Siekmann, assignors.)

Leedy, Carroll E. (See Rigby, E. F., and Leedy.)

Leffel, James D., Newport, R. I., assignor to Remington Rand Inc., Buffalo, N. Y. Drawing fixture. 2,326,301; Aug. 10.

Leichner, William G., Fort Wayne, Ind., assignor to Farnsworth Television an Radio Corporation. Supporting device. 2,326,469; Aug. 10.

Leidel, Harold J., Wadsworth, Ohio. Tire tool. 2,326,234; Aug. 10.

Leonard, Anthon A., Glenside, Pa., assignor to De Jur-Amsco Corporation, Shelton, Conn. Photographic enlarger. 2,326,542; Aug. 10.

Leonard, Henry, & Thomas, Inc. (See Koenigsamen, Arthur, assignor.)

Lermont, Basil, New York, and A. M. Wolff, Brooklyn, assignors to Cairns Corporation, New York, N. Y. Metal forming device. 2,326,470; Aug. 10.

Le Tourneau, R. G., Inc. (See Le Tourneau, Robert G., assignor.)

Le Tourneau, Robert G., Peoria, Ill., assignor to R. G. Le Tourneau, Inc. Multiple chuck turret. 2,326,371; Aug. 10.

Leveque, Bernard T., Wenham, Mass., assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J. Shoe sewing machine. 2,326,726; Aug. 10.

Liberty Mutual Insurance Company. (See Boraks, Louis, assignor.)

Lienhard, Fritz, assignor to Magus A. G., Zurich, Switzerland. Trend crank mechanism, particularly for cycles. 2,326,235; Aug. 10.

Light, Philip H., Schenectady, N. Y., assignor to General Electric Company. Protection of alternating current electric power systems. 2,326,149; Aug. 10.

Lignian, Jean A., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Impregnating method. 2,326,372; Aug. 10.

Lilly, Eli, and Company. (See Thuau, Urbain J., assignor.)

Linde Air Products Company. (See Zenner, George H., assignor.)

Lindenblad, Nils E., Rocky Point, and J. L. Finch, East Rockaway, N. Y., assignors to Radio Corporation of America. Investigating ether propagation paths. 2,326,662; Aug. 10.

Lindsay & Lindsay. (See Lindsay, Harvey B., assignor.)

Lindsay, Harvey B., Evanston, assignor, by mesne assignments, to Lindsay & Lindsay, Chicago, Ill. Pontoon bridge. 2,326,236; Aug. 10.

Link-Belt Company. (See Hartley, W. L., and Whitehead, assignors.)

Linstedt, William F., Freeport, assignor to Kraft Cheese Company, Chicago, Ill. Filling mechanism. 2,236,302; Aug. 10.

Lissman, Marcel A., Temple City, assignor to Western Precipitation Corporation, Los Angeles, Calif. Rectifying apparatus for electrical precipitators. 2,326,237; Aug. 10.

Lithograph Press Manufacturing Company, The. (See Stempel, Laszlo M., assignor.)

Little, Harry C., San Rafael, Calif. Thermostatic fuel control for heater. 2,326,734; Aug. 10.

Little, John B. (See Harrison, H. C., and Little.)

Lock-Seal Company, The. (See Jacobsen, Otto S., assignor.)

Lombard, Robert H. (See Milligan, L. H., and Lombard.)

Long, John R., assignor to Wingfoot Corporation, Akron, Ohio. Alkoxy acrylonitriles and preparing the same. 2,326,373; Aug. 10.

Lontz, John F., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Composition and method. 2,326,471; Aug. 10.

Lovell, Clarence A., Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Alternating current generator. 2,326,663; Aug. 10.

Lovell, Clarence A. (See Dowey, T. L., and Lovell.)

Lowmiller, Harold W. (See Wilson, L. L., Lowmiller, and Bible.)

Lundbäck, Sven V., Stockholm, and B. H. E. Nilsson, Skelleftehann, assignors to Bolidens Gruvaktiebolag, Stockholm, Sweden. Method relating to protecting plants and the like and to producing means for such purposes. 2,326,472; Aug. 10.

Lundvall, John S., Chicago, Ill., assignor to Union Asbestos & Rubber Company, Chicago, Ill. Hatch ventilator for refrigerator cars. 2,326,664; Aug. 10.

Lyon Metal Products, Incorporated. (See Bales, James E., assignor.)

Lyster, Roy S., Lansdowne, assignor to Alcorn Combustion Company, Philadelphia, Pa. Petroleum heater. 2,326,473; Aug. 10.

Mabey, Arthur R., assignor to The Bristol Company, Waterbury, Conn. Controlling apparatus. 2,326,238; Aug. 10.

Macht, Maurice L., Jersey City, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Methyl methacrylate molding composition. 2,326,543; Aug. 10.

Maclachlan, Robert D. (See Thomas, F. W., and Maclachlan.)

MacLaren, Frederick B., Jr., assignor to The Bristol Company, Waterbury, Conn. Electrothermally operated circuit controller. 2,326,239; Aug. 10.

MacLaurin, Robert D., Bay Village, and E. B. Helm, assignors to Industrial Rayon Corporation, Cleveland, Ohio. Manufacture of thread or the like. 2,326,150; Aug. 10.

MacLennan, R. Byron, et al. (See Jeffrey, Joseph G., assignor.)

Magnus, Carl E. (See Pearson, P. E., and Magnus.)

Magus, A. G. (See Lienhard, Fritz, assignor.)

Mallory, Bonnie L., Cleveland Heights, Ohio. Shock absorber. 2,326,665; Aug. 10.

Malsbary, Job F., and W. W. Taylor, Oakland, Calif. Diaphragm pump. 2,326,474; Aug. 10.

Malzahn, Charles F., Perry, Okla. Contour cutting attachment for turning lathes. 2,326,240; Aug. 10.

Manning, Maxwell & Moore, Incorporated. (See Whitcomb, P., and Moore, assignors.)

Marathon Paper Mills Company. (See Broeren, Frank L., assignor.)

Marbury, Ralph E., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Water-cooled capacitor. 2,326,151; Aug. 10.

Marbury, Ralph E., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Water-cooled capacitor. 2,326,152; Aug. 10.

Marien, Charles A., and M. W., assignors to Ramsey Accessories Manufacturing Corporation, St. Louis, Mo. Piston skirt expander. 2,326,375; Aug. 10.

Marien, Melvin W. (See Marien, C. A. and M. W.)

Markgraf, Frederic H., Jr., and J. M. Fay, assignors of one-third to R. Muller, San Francisco, Calif. Welder's hood. 2,326,376; Aug. 10.

Martin, Alfred M., Park Ridge, Ill. Visible records device. 2,326,241; Aug. 10.

Martin, Glenn L., Company, The. (See Gray, Reid B., assignor.)

Martin, Glenn L., Company, The. (See Overbeke, John W., assignor.)

Martin, Steve L., Menard, Tex. Float valve. 2,326,544; Aug. 10.

Mast, Gifford M., Davenport, Iowa, assignor to Tru-Vue, Inc., Rock Island, Ill. Stereoscope. 2,326,718; Aug. 10.

Matthews, Albert, Cincinnati, assignor to The American Laundry Machinery Company, Norwood, Cincinnati, Ohio. Liquid control apparatus. 2,326,475; Aug. 10.

Maxim Silencer Company. (See Bourne, Roland B., assignor.)

Maxim Silencer Company, The. (See Bourne, R. B., and Tyskewicz, assignor.)

Mayer, Edgar, Maspeth, assignor to Rivoli Corset Co. Inc., New York, N. Y. Woman's corset. 2,326,476; Aug. 10.

Mayne, Robert, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Track and grouser therefor. 2,326,477; Aug. 10.

Mayne, William H., assignor to O. S. Petty, San Antonio, Tex. Seismic circuit. 2,326,153; Aug. 10.

Mayo, Edward L., assignor to The Bishop & Babcock Manufacturing Company, Cleveland, Ohio. Automotive vehicle heating apparatus. 2,326,242; Aug. 10.

McBride, John J., Bayonne, N. J., assignor to American Car and Foundry Company, New York, N. Y. Slack adjuster for railway brakes. 2,326,377; Aug. 10.

McCarthy, Henry J., Danvers, Mass., assignor to Sylvania Electric Products Inc. Thermal relay for fluorescent lamps. 2,326,154; Aug. 10.

McCarthy, Vern I., Maywood, assignor to Vulcan Stamping & Mfg Co., Bellwood, Ill. Sealing ring. 2,326,545; Aug. 10.

McConnohie, Levi L., assignor, by mesne assignments, to Bol-Mac Products Company, Galesburg, Mich. Submerged double acting pump. 2,326,378; Aug. 10.

McConomy, Henry F. (See Chalfant, W. E., and McConomy.)

McCook, Joseph F., Scarsdale, N. Y. Constructing piles. 2,326,155; Aug. 10.

McCord, Andrew T., Collingswood, N. J., assignor to The Sherwin-Williams Company. Making titanium containing pigments. 2,326,156; Aug. 10.

McCord, Andrew T., Collingswood, and H. F. Saunders, Haddonfield, N. J., assignors to The Sherwin-Williams Company, Cleveland, Ohio. Activated anhydrite, making the same and product including it. 2,326,157; Aug. 10.

McCord, Andrew T., and H. F. Saunders, Haddonfield, N. J., assignors to The Sherwin-Williams Company, Cleveland, Ohio. Extended titanium dioxide pigment. 2,326,158; Aug. 10.

McDonald, Jesse D., assignor of one-third to J. E. Thomas, Enid, Okla. Baking pan. 2,326,546; Aug. 10.

McKay Machine Company. (See Johnston, Dwight A., assignor.)

McKim, Burton. (See Eagon, L. L., and McKim.)

McLaughlin, F. L. (See Burke, James P., assignor.)

McNabb, Arthur E., Monessen, assignor to Pittsburgh Steel Company, Pittsburgh, Pa. Road guard. 2,326,547; Aug. 10.

McNabb, Walter J., and W. R. Cochrane, Delhi, Calif. Mattress frame elevating and lowering mechanism for cribs. 2,326,379; Aug. 10.

Meacham, Larned A., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Selection system. 2,326,478; Aug. 10.

Mead Corporation, The. (See Whittemore, J. W., and Oberfell, assignors.)

Mejdrich, May F., Chicago, Ill. Faucet coupling. 2,326,479; Aug. 10.

Mendel, Alfred, New York, N. Y. Finger stall, catheter, sheath, or the like. 2,326,159; Aug. 10.

Merk, George S., Flushing, N. Y. Bag frame. 2,326,304; Aug. 10.

Merolle, Augustus L., assignor to Empire Metal Cap Company, Brooklyn, N. Y. Closure. 2,326,480; Aug. 10.

Meyer, Geo. J., Manufacturing Co. (See Meyer, George J., assignor.)

Meyer, George J., Milwaukee, assignor to Geo. J. Meyer Manufacturing Co., Cudahy, Wis. Saturator. 2,326,243; Aug. 10.

Meyer, Harvey E., Kansas City, Mo. Battery hold-down. 2,326,481; Aug. 10.

Mid-West Hydro-Pierce, Inc. (See Hartsock, G. M., and Rounds, assignors.)

Mierson, Augustus, San Francisco, Calif. Protector for plants and the like. 2,326,548; Aug. 10.

Miller, Cornell M., Cheltenham, Pa. Garment. 2,326,380; Aug. 10.

Miller, Edgar P., Kansas City, Mo. Frame for wall openings. 2,326,549; Aug. 10.

Miller, Raymond J., assignor to Hydraulic Brake Company, Detroit, Mich. Fluid drive. 2,326,666; Aug. 10.

Milligan, Lowell H., and R. H. Lombard, assignors to Norton Company, Worcester, Mass. Apparatus for the manufacture or grinding wheels. 2,326,381; Aug. 10.

Milwaukee Lace Paper Co. (See Pringle, C. E., and Murray, assignors.)

Miner, W. H., Inc. (See Dath, George E., assignor.)

Minneapolis-Honeywell Regulator Company. (See Joesting, Frederick D., assignor.)

Minneapolis-Honeywell Regulator Company. (See Shipley, S. C., Ingersoll, and Cyr, assignors.)

Minnesota Mining & Manufacturing Company. (See Gebhard, M. L., Heltzer, Clarke, and Davis, assignors.)

Mishawaka Rubber Woolen Manufacturing Company. (See Cunningham, Marion M., assignor.)

Mittag, Albert H., Schenectady, N. Y., assignor to General Electric Company. Electric valve translating circuits. 2,326,550; Aug. 10.

Moerk, Frank N., and G. M. Eisenberg, Philadelphia, Pa., assignors of one-fourth to E. P. Hyland, and one-fourth to A. M. Stackhouse, Moorestown, N. J. Sewage treatment. 2,326,303; Aug. 10.

Moffitt, William C., Salinas, Calif. Wheeled golf club carrier. 2,326,482; Aug. 10.

Mohr, Milton E., Jamaica, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Selecting system. 2,326,551; Aug. 10.

Monitor Controller Company. (See Frese, Joseph F., assignor.)

Montgomery, H. A., Company, The. (See Nill, Edward A., assignor.)

Moore, George C., Jr., Los Angeles, Calif., assignor to Egg-Safety Carton Corporation, New York, N. Y. Egg carton. 2,326,244; Aug. 10.

Moore, Henry S. (See Whitcomb, P., and Moore.)

Moran, Robert C., Wenonah, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Stabilized mineral oil composition. 2,326,483; Aug. 10.

Morarre, Thomas O., Washington, D. C. Practice drum. 2,326,305; Aug. 10.

Moreland, Stephen T., and P. C. Tracy, Toledo, Ohio, assignors to Owens-Illinois Glass Company. Motor control. 2,326,382; Aug. 10.

Moreton, Henry H., Los Angeles, Calif. Filtering apparatus. 2,326,484; Aug. 10.

Morgensen, Otto, Jr. (See Fuller, E. W., and Morgensen.)

Morrison, James L. D., assignor to New Products Corporation, Benton Harbor, Mich. Phonograph recorder. 2,326,667; Aug. 10.

Morrison, William A., Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Blowing device. 2,326,383; Aug. 10.

Morse, Harold F., Southport, Conn., assignor to General Electric Company. Astronomical telescope. 2,326,552; Aug. 10.

Morway, Arnold J. (See Zimmer, J. C., and Morway.)

Mount, Walter M., Tulsa, Okla. Demulsifying and settling tank. 2,326,384; Aug. 10.

Moyle, Clarence L. (See Taylor, F. L., and Moyle.)

Muller, Ronald. (See Markgraf, F. H., Jr., and Fay.)

Mullins, Virgil R., Swayzee, Ind. Cartographic instruction device. 2,326,385; Aug. 10.

Munday, John C., Baton Rouge, La., assignor to Standard Oil Development Company. Conversion of hydrocarbon. 2,326,553; Aug. 10.

Murphy, Helendoris, et al. (See Fear, Ernest D., assignor.)

Murray Corporation of America, The. (See Graebner, Otto F., assignor.)

Murray Corporation of America. (See Haberstump, Alfred H., assignor.)

Murray, Marie M. (See Pringle, C. E., and Murray.)

Myers, E. A., & Sons. (See Pelz, Alfred E., assignor.)

Myers, Edward C., Kenosha, Wis. Cable. 2,326,719; Aug. 10.

Myers, John C., Sperry, assignor of one-half to J. W. Scott Drilling Company, Tulsa, Okla. Device for controlling the transmission of power to pumps. 2,326,668; Aug. 10.

Nall, Forrest, Mission, Kans. Bowling alley. 2,326,554; Aug. 10.

Nash Engineering Company. (See Dowdell, Joshua R., assignor.)

National Automatic Tool Company, The. (See Rodal, Ralph, assignor.)

National Fireproofing Corporation. (See Wanner, Edwin F., assignor.)

National Lead Company. (See Schubert, Bruno H., assignor.)

National Slug Rejectors, Inc. (See Gottfried, John, assignor.)

Neal, Arthur M., Wilmington, Del., and B. M. Sturgis, Pitman, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Vulcanization of rubber. 2,326,555; Aug. 10.

Needham, Clyde C. (See Gorrien, John, assignor.)

Neiley, Stephen B., Winchester, and E. E. Habib, Arlington, assignors to Dewey and Almy Chemical Company, North Cambridge, Mass. Manufacture of articles from aqueous rubber dispersions. 2,326,160; Aug. 10.

Nelson, Christy B., Tokeland, Wash. Sea food washing machine. 2,326,485; Aug. 10.

Nelson, James H., assignor to The Dumore Company, Racine, Wis. Oil distributor assembly. 2,326,161; Aug. 10.

New Products Corporation. (See Baker, Oscar H., assignor.)

New Products Corporation. (See Morrison, James L. D., assignor.)

Newman, David F., Rockville Centre, assignor to Trans-Lux Corporation, New York, N. Y. Tape-controlling arrangement. 2,326,386; Aug. 10.

Nicholides, Emmanuel C., Chicago, Ill. Speed indicating and recording device. 2,326,246; Aug. 10.

Nicholides, Emmanuel C., Chicago, Ill. Speed exhibiting device. 2,326,247; Aug. 10.

Nicholides, Emmanuel C., Chicago, Ill. Speed exhibiting device. 2,326,248; Aug. 10.

Nichols, Raymond, Pittsburgh, and J. A. Desmone, Springdale, Pa., assignors to Pittsburgh Corning Corporation. Wall for buildings. 2,326,245; Aug. 10.

Nill, Edward A., assignor to The H. A. Montgomery Company, Detroit, Mich. Drawing composition and making the same. 2,326,387; Aug. 10.

Nilsson, Bertil H. E. (See Lundbäck, S. V., and Nilsson.)

Nimrick, Harold C., Detroit, Mich. Liquid wax applicator. 2,326,669; Aug. 10.

Nokes, Ernest S., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Cementing machine. 2,326,249; Aug. 10.

Nordberg Manufacturing Company. (See Gruender, Oscar C., assignor.)

Norelius, Emil F., Springfield, Ill., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Track release mechanism. 2,326,486; Aug. 10.

Norton Company. (See Milligan, L. H., and Lombard, assignors.)

O'Beirne, Donald E., Waukesha, Wis. Bee observation unit. 2,326,250; Aug. 10.

Oberfell, Charles R. (See Whittemore, J. W., and Oberfell.)

Obergfell, Herbert F., River Forest, and H. Sengebusch, Villa Park, assignors to Associated Electric Laboratories, Inc., Chicago, Ill. Impulse transmitting device. 2,326,388; Aug. 10.

O'Connor, Vincent T., Revere, Mass., and W. C. Gardiner, Derry, N. H. Apparatus for use in preparing poultry for the market. 2,326,162; Aug. 10.

Ohio Brass Company, The. (See Shafer, Homer J., assignor.)

Ohio Crankshaft Company, The. (See Dunn, W. C., and Denneen, assignors.)

Oil Devices. (See Breese, James L., assignor.)

Olcott, Harold S. (See Bass, L. W., and Olcott.)

Oliver Machinery Company. (See Caldwell, Harry F., assignor.)

Opsal, Borger L., Oklahoma City, assignor, by mesne assignments of one-half to Cities Service Oil Company, Bartlesville, Okla. Device for spooling reda and like cable. 2,326,556; Aug. 10.

Overbeke, John W., Anneslie, assignor to The Glenn L. Martin Company, Baltimore, Md. Valve. 2,326,487; Aug. 10.

Owen, William A., Johnson City, Tenn. Resilient tire for vehicles. 2,326,488; Aug. 10.

Owens-Illinois Glass Company. (See Moreland, S. T., and Tracy, assignors.)

Owens, Jesse C. (See Bartlow, Justin D., assignor.)

Paine, Wilbur V., East Hartford, assignor to The Spencer Turbine Company, Hartford, Conn. Collection receptacles for vacuum cleaners. 2,326,731; Aug. 10.

Parsons, Osborne H., et al. (See Jeffrey, Joseph G., assignor.)

Paschal, Guy S., New Rochelle, assignor to himself and J. T. Adams, New York, N. Y., jointly. Method and composition for the treatment of air. 2,326,672; Aug. 10.

Pate, Sherman E., assignor to Permo Products Corporation, Chicago, Ill. Phonograph stylus. 2,326,389; Aug. 10.

Patterson, Joseph C., Jr., Alexandria, Va. Sheave and pressure rider. 2,326,670; Aug. 10.

Patterson, Joseph C., Jr., Alexandria, Va. Sheave and pressure rider. 2,326,671; Aug. 10.

Patterson, Raymond L., assignor to Powder Metals and Alloys, Inc., New York, N. Y. Heat-treatment apparatus. 2,326,163; Aug. 10.

Patzer, William and W. A. Tratsch, Chicago, Ill. Coin chute. 2,326,673; Aug. 10.

Pavitt, Harry A., assignor to Simonds Saw and Steel Co., Fitchburg, Mass. Induction hardening of saw teeth. 2,326,674; Aug. 10.

Payne, Frank E., Barrington, assignor to Crane Packing Company, Chicago, Ill. Liquid seal. 2,326,489; Aug. 10.

Payne, Pearson M., Denver, Colo. Metal-casting method and apparatus. 2,326,164; Aug. 10.

Pearson, Paul E., and C. E. Magnus, Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y. Crown cap counting mechanism. 2,326,675; Aug. 10.

Pearson, Valentine, et al. (See Krantz, Edward, assignor.)

Peirce, Walter T., Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey. Electric cable. 2,326,557; Aug. 10.

Pelosi, Nicholas, Newark, N. J., assignor to American Can Company, New York, N. Y. Conveyer. 2,326,165; Aug. 10.

Pelz, Alfred E., Mount Lebanon, assignor to E. A. Myers & Sons, Pittsburgh, Pa. Spring clip. 2,326,558; Aug. 10.

Penn Electric Switch Co. (See Shaw, Burton E., assignor.)

Perelmann, Adolf, London, England. Ionic tube circuits. 2,326,677; Aug. 10.

Perelson, Harold N., Huntington Park, Calif. Fluid dispenser. 2,326,490; Aug. 10.

Permo Products Corporation. (See Andres, Lloyd J., assignor.)

Permo Products Corporation. (See Pate, Sherman E., assignor.)

Perrot, Henri. (See Brandel, S., and Perrot.)

Peters, Frederick C. (See Arthur, Alexander F., assignor.)

Peters, George S., Evanston, Ill. Tongs. 2,326,676; Aug. 10.

Peterson, Burt A., assignor to Barber-Colman Company, Rockford, Ill. Yarn winding mechanism. 2,326,307; Aug. 10.

Petrolite Corporation, Ltd. (See Allen, Gwynne, assignor.)

Petty, Olive S. (See Mayne, William H., assignor.)

Pfannmuller, Julius, North Plainfield, N. J., and H. Schleich, New Dorp, Staten Island, assignors to Wallerstein Company, Inc., New York, N. Y. Proteolytic bating composition. 2,326,306; Aug. 10.

Pier, Mathias, Heidelberg, and G. Free, Ludwigshafen-on-the-Rhine, Germany; vested in the Alien Property Custodian. Production of non-knocking motor fuels. 2,326,166; Aug. 10.

Pilcher, William S. (See Johnson, C. R., Pilcher, and Stanley.)

Piquerez, Emile, Saint-Cloud, France; vested in the Alien Property Custodian. Lubrication of aero and other engines. 2,326,167; Aug. 10.

Piquerez, Emile, Saint-Cloud, France; vested in the Alien Property Custodian. Apparatus for testing and indicating the condition of vehicle brakes. 2,326,168; Aug. 10.

Piquerez, Emile, Saint-Cloud, France; vested in the Alien Property Custodian. Fluid delivery meter. 2,326,169; Aug. 10.

Piquerez, Emile, Saint-Cloud, France; vested in the Alien Property Custodian. Filing limiter. 2,326,251; Aug. 10.

Pittsburgh Corning Corporation. (See Nichols, R., and Desmone, assignors.)

Pittsburgh Plate Glass Company. (See Dennison, Brook J., assignor.)

Pittsburgh Steel Company. (See McNabb, Arthur E., assignor.)

Place, Palmer B., Tenafly, N. J., assignor to Combustion Engineering Company, Inc., New York, N. Y. Steam separator. 2,326,491; Aug. 10.

Platt Brothers and Company Limited. (See Chantler, Thomas, assignor.)

Platt, Samuel, San Francisco, Calif. Container. 2,326,390; Aug. 10.

Pneumatic Cap & Seal Corporation. (See Burkardt, Anton, assignor.)

Pneumatic Scale Corporation, Limited. (See Howard, Stanley R., assignor.)

Poloron Products Incorporated. (See Brown, Joseph D., assignor.)

Porocel Corporation. (See La Lande, William A., Jr., assignor.)

Poster Machines Corporation. (See Sneed, John, assignor.)

Powder Metals and Alloys, Inc. (See Patterson, Raymond L., assignor.)

Praeger, Frank H., Merion, assignor to Alcorn Combustion Company, Philadelphia, Pa. Petroleum heater. 2,326,492; Aug. 10.

Premo, Owen D., Muskegon Heights, Mich. Shaft milling and grinding machine. 2,326,391; Aug. 10.

Pringle, Charles E., and M. M. Murray, assignors to Milwaukee Lace Paper Co., Milwaukee, Wis. Display stand. 2,326,493; Aug. 10.

Proctor, William E., Baltimore, Md. Alarm mechanism 2,326,559; Aug. 10.

Proctor, William E., Baltimore, Md. Marine boiler regulator. 2,326,560; Aug. 10.

Productive Inventions, Inc. (See Smulski, Theodore J., assignor.)

Products Development, Inc. (See Abernathy, David W., assignor.)

Pure Oil Company, The. (See Williams, Norman D., assignor.)

Radio Corporation of America. (See Burnside, Don G., assignor.)

Radio Corporation of America. (See Eddy, William C., assignor.)

Radio Corporation of America. (See Hasbrouck, Harold J., assignor.)

Radio Corporation of America. (See Lindenblad, N. E., and Finch, assignors.)

Radio Corporation of America. (See Runge, Frank E., assignor.)

Radio Corporation of America. (See Usselman, George L., assignor.)

Ramsey Accessories Manufacturing Corporation. (See Marien, C. A. and M. W., assignors.)

Rapp, Wilhelm. (See Hopff, H., Rapp, and Rinke.)

Ratzburg, Emil H., Shenandoah, Pa. Reversing mechanism. 2,326,494; Aug. 10.

Rawlplug Company, The. (See Gelpcke, Alfred W., assignor.)

Raynor, Arthur E. (See Bailey, E. G., and Raynor.)

Rayozone Products Corporation. (See Arff, John H., assignor.)

Rearwin, Earle W., assignor of one-half to F. Dobmeier, Buffalo, N. Y. Well pumping apparatus. 2,326,170; Aug. 10.

Reenstierna, Gustaf L., assignor of one-third to R. Aiazzone, Union City, N. J., and one-third to E. C. Gillette, New York, N. Y. Golf club. 2,326,495; Aug. 10.

Reeves, Paul B., assignor to Reeves Pulley Company, Columbus, Ind. Variable speed unit and pulley therefor. 2,326,392; Aug. 10.

Reeves Pulley Company. (See Reeves, Paul B., assignor.)

Reggio, Ferdinando C., Detroit, Mich. Fuel injection device. 2,326,171; Aug. 10.

Reiff, Orland M., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Mineral oil composition and improving agent therefor. 2,326,496; Aug. 10.

Reisser, Vernon H., Omaha, Nebr. Road working machine. 2,326,561; Aug. 10.

Reissner, Hans, Chicago, Ill. Control for variable pitch propellers. 2,326,308; Aug. 10.

Remington Rand Inc. (See Anderson, Niels Y., assignor.)

Remington Rand Inc. (See Dodge, E. S., and Tobin, assignors.)

Remington Rand Inc. (See Leffel, James D., assignor.)

Remington Rand Inc. (See Thompson, Russell G., assignor.)

Renholdt, John E., Bridgeport, Conn., assignor to Dictaphone Corporation, New York, N. Y. Clutch. 2,326,678; Aug. 10.

Rensen, Philip J., Philadelphia, Pa. Precision square. 2,326,562; Aug. 10.

Rensselaer Valve Company. (See Rutledge, Eric A., assignor.)

Resinous Products & Chemical Company. (See Bruson, Herman A., assignor.)

Retallack, John B., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Party line telephone system. 2,326,679; Aug. 10.

Rezos, Louis H., Arlington, Va. Adjustable slicing knife. 2,326,563; Aug. 10.

Ricards, Charles L., South Plainfield, assignor to Wood Newspaper Machinery Corporation, Plainfield, N. J. Web tensioning for web splicing machines. 2,326,680; Aug. 10.

Rice, John V., Jr., Philadelphia, Pa. Cartridge. 2,326,393; Aug. 10.

Rich, Theodore A., Schenectady, N. Y., assignor to General Electric Company. Galvanometer. 2,326,252; Aug. 10.

Richardson, Irving, Newark, N. J. Lock nut. 2,326,681; Aug. 10.

Richey, James G., Alhambra, Calif. Combined safety joint and jar. 2,326,394; Aug. 10.

Riddell, Joseph M., Minneapolis, Minn. Shaft sinking apparatus. 2,326,172; Aug. 10.

Riester, Oskar, Dessau, and G. Wilmanns, Wolfen, Kreis Bitterfeld, Germany, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y. Water-soluble nitrogen-containing heterocyclic compound. 2,326,497; Aug. 10.

Rigby, Edward F., Detroit, and Carroll E. Leedy, Birmingham, Mich. Sound recording apparatus. 2,326,564; Aug. 10.

Rinke, Heinrich. (See Hopff, H. Rapp, and Rinke.)

Ripley, Walter L., assignor to Draperies, Incorporated, Strasburg, Va. Catafalque. 2,326,565; Aug. 10.

Ritchie, Jesse H. (See Ritchie, William H., assignor.)

Ritchie, William H., Chicago, Ill., assignor of one-half to J. H. Ritchie, Pittsburgh, Pa. Automobile license plate. 2,326,566; Aug. 10.

Rivoli Corset Co. Inc. (See Mayer, Edgar, assignor.)

Roberts, Fred, and A. W. Bennett, Kansas City, Mo. Transmission of sound and conversation. 2,326,253; Aug. 10.

Robinson, Charles A., Salem, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Fastening distributor. 2,326,254; Aug. 10.

Robinson, William W. (See Swingle, D. R., and Robinson.)

Rodal, Ralph, assignor to The National Automatic Tool Company, Richmond, Ind. Hydropneumatic machine tool feed. 2,326,498; Aug. 10.

Roddy, Fred M., Providence, R. I. Rotary cutting and granulating machine. 2,326,682; Aug. 10.

Röhm & Haas Company. (See Breedis, John, assignor.)

Röhm & Haas Company. (See Hester, William F., assignor.)

Romig, Gerald C., Elkins Park, assignor to American Chemical Paint Company, Ambler, Pa. Producing phosphate coatings on ferrous metal articles. 2,326,309; Aug. 10.

Root, Lemma J., Bothell, Wash. Drive means for propeller driven craft. 2,326,567; Aug. 10.

Rose, William H., Jersey City, N. J., assignor to Stanco Incorporated. Sprayer device. 2,326,568; Aug. 10.

Rosenberg, Philip, New York, N. Y. Cabinet. 2,326,255; Aug. 10.

Rosenthal, Fritz, assignor to The University of Tennessee Research Corporation, Knoxville, Tenn. Phenolic molding composition. 2,326,569; Aug. 10.

Ross, Charles, assignor of one-half to J. A. Earhuff, Los Angeles, Calif. Carton coin container. 2,326,683; Aug. 10.

Ross, William A., assignor to Weaver Manufacturing Company, Springfield, Ill. Dolly. 2,326,684; Aug. 10.

Rounds, Harold S. (See Hartsock, G. M., and Rounds.)

Ruen, Henry C., Detroit, Mich., assignor, by mesne assignments, to Cleaners Hanger Company. Garment hanger. 2,326,685; Aug. 10.

Runge, Frank E., Indianapolis, Ind., assignor to Radio Corporation of America. Phonographic apparatus. 2,326,499; Aug. 10.

Russell, Arthur O., assignor to Sylvania Industrial Corporation, Fredericksburg, Va. Process and apparatus for handling material. 2,326,173; Aug. 10.

Russell, James H., assignor, by mesne assignments, to A. de Luca, St. Louis, Mo. Garment hanger. 2,326,256; Aug. 10.

Rutishauser, Georg, Basel, Switzerland; vested in the Alien Property Custodian. Method and apparatus for the production of curled threads from cellulose acetate. 2,326,174; Aug. 10.

Rutledge, Eric A., Troy, assignor to Rensselaer Valve Company, Cohoes, N. Y. Valve and means for operating the same. 2,326,686; Aug. 10.

S & W Fine Foods, Inc. (See Steinwand, Otto J., assignor.)

Samiran, David, Fairfield, Ohio. Air eliminator. 2,326,175; Aug. 10.
Samuel, John O., assignor to Unifloc Reagents Limited, Swansea, Wales. Flocculating reagent for aqueous suspensions and sludges. 2,326,395; Aug. 10.
Sanford, Roy S., Middlebury, Conn., assignor to Bendix-Westinghouse Automotive Air Brake Company, Elyria, Ohio. Fluid pressure mechanism. 2,326,687; Aug. 10.
Sasso, Maurice, Los Angeles, Calif. Structural elements. 2,326,688; Aug. 10.
Saunders, Harold F. (See McCord, A. T., and Saunders.)
Saunders, Harold F. (See Todd, S. P., Saunders, and Verduin.)
Schaedler, Raymond J., Cleveland, Ohio, assignor to Chicago Pneumatic Tool Company, New York, N. Y. Safety governor for pneumatic tools. 2,326,396; Aug. 10.
Schaefer, Robert M., and W. F. Shurts, assignors to Twin Disc Clutch Company, Racine, Wis. Hydraulic transmission. 2,326,570; Aug. 10.
Schering Corporation. (See Inhoffen, H. H., Gehrke, and Schoeller, assignors.)
Schierenbeck, Julius, Heidelberg, Germany; vested in the Alien Property Custodian. High-pressure vessel. 2,326,176; Aug. 10.
Schleich, Hans. (See Pfannmuller, J., and Schleich.)
Schmidt, George. (See Schmidt, Lambert and G.)
Schmidt, Lambert and G., Leeds, N. Y. Time lag fuse. 2,326,257; Aug. 10.
Schmidt, Otto, Heidelberg-Ziegelhausen, and S. Stadelmann, Ludwigshafen-on-the-Rhine, Germany; vested in the Alien Property Custodian. Production of butadiene. 2,326,258; Aug. 10.
Schmitkons, George E. (See Thiele, E. W., and Schmitkons.)
Schmitkons, George E. (See Thiele, E. W., Schmitkons, and Hull.)
Schneider, George. (See Dreyfus, C., and Schneider.)
Schneider, Wilhelm, and H. Schulze, Dessau, and G. Wilmanns, Wolfen, Kreis Bitterfeld, Germany, assignors to General Aniline & Film Corporation, New York, N. Y. Photographic and cinematographic multicolor images of correct color value. 2,326,500; Aug. 10.
Schnell, Steve, Kirkwood, assignor to Wagner Electric Corporation, St. Louis, Mo. Brake shoe mounting construction. 2,326,177; Aug. 10.
Schoeller, Walter. (See Inhoffen, H. H., Gehrke, and Schoeller.)
Schroeder, Simon E., Chicago, Ill., assignor to Barlow & Seelig Mfg. Co., Ripon, Wis. Clothes wringer. 2,326,259; Aug. 10.
Schroy, Paul C., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Plasticizing thermosetting resins. 2,326,728; Aug. 10.
Schroy, Paul C., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Accelerators of the delayed action type and acid-curing thermosetting resin. 2,326,727; Aug. 10.
Schroy, Paul C. (See Jayne, D. W., Jr., and Schroy.)
Schubert, Bruno H., Weehawken, N. J., assignor to National Lead Company, New York, N. Y. Storage battery separator. 2,326,689; Aug. 10.
Schubert, Bruno H., Weehawken, N. J., assignor to National Lead Company, New York, N. Y. Composition storage battery separator and making the same. 2,326,690; Aug. 10.
Schubert, Homer M., Salem, Oreg. Score card. 2,326,260; Aug. 10.
Schulze, Heinz. (See Schneider, W., Schulze, and Wilmanns.)
Schum, Walter S., Kinzers, Pa. Free flow liquid fuel filter. 2,326,691; Aug. 10.
Schwartz, Edward, Hollywood, Calif. Animated picture device. 2,326,397; Aug. 10.
Scott, J. W., Drilling Company. (See Myers, John C., assignor.)
Seeberger, Fred B., Yeadon, Pa. Shears. 2,326,178; Aug. 10.
Seiler, Karl. (See Köhn, Claus H., assignor.)
Semerak, William A., Chicago, Ill. Outside micrometer. 2,326,571; Aug. 10.
Sengebusch, Hans. (See Obergfell, H. F., and Sengebusch.)
Shafer, Homer J., assignor to The Ohio Brass Company, Mansfield, Ohio. Piston valve. 2,326,398; Aug. 10.
Shandle, Amos H., Roselle, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Holder for electrically heated tools. 2,326,572; Aug. 10.
Sharon Steel Corporation. (See Wilson, L. L., Lowmiller, and Bible, assignors.)
Shaver, Ward, assignor to Skelly Oil Company, Tulsa, Okla. Labor saving report pad. 2,326,573; Aug. 10.
Shaw, Burton E., Bristol, assignor to Penn Electric Switch Co., Goshen, Ind. Pressure gauge for use with air volume controls. 2,326,574; Aug. 10.
Shawinigan Chemicals Limited. (See Irany, Ernest P., assignor.)
Shell Development Company. (See de Wit, Hendrik P., assignor.)
Shell Development Company. (See Tulleners, Anton J., assignor.)
Sherwin-Williams Company, The. (See McCord, Andrew T., assignor.)
Sherwin-Williams Company, The. (See McCord, A. T., and Saunders, assignors.)
Sherwin-Williams Company, The. (See Tawney, Pliny O., assignor.)
Sherwin-Williams Company, The. (See Todd, S. P., Saunders, and Verduin, assignors.)
Shields, Della M., Ventura, Calif. Bedclothes harness. 2,326,399; Aug. 10.
Shipley, Sylvanus C., Minneapolis, W. H. Ingersoll, St. Paul, and B. Cyr, assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Motor operator assembly. 2,326,692; Aug. 10.
Shippee, Carl C. (See Shippee, Windsor, and C. C.)
Shippee, Winsor and C. C., Red Banks, N. J. Lock nut. 2,326,261; Aug. 10.
Shuhart, Donald V., Fort Worth, Tex. Autoperisphere. 2,326,400; Aug. 10.
Shure Brothers. (See Bauer, Benjamin B.)
Shure, Frances, et al., trustees. (See Bauer, Benjamin B., assignor.)
Shure, S. N., et al., trustees. (See Bauer, Benjamin B., assignor.)
Shurts, Wilbur F. (See Schaeffer, R. M., and Shurts.)
Siefken, Werner, Cologne, and A. Doser, Cologne-Mulheim, Germany, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y. Isocyanates. 2,326,501; Aug. 10.
Sieg, Herman F., Pittsburgh, Pa. Cutting and scraping device. 2,326,502; Aug. 10.
Siekmann, Harold J. (See Groene, W. F., and Siekmann.)
Simonds Saw and Steel Co. (See Pavitt, Harry A., assignor.)
Sincerbeaux, Chauncey M., West Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Transfer mechanism for accumulators. 2,326,401; Aug. 10.
Sindler, Jay J., Boston, Mass. Retainer. 2,326,693; Aug. 10.
Sirmay, Julius, assignor to Jacquard Knitting Machine Co., Philadelphia, Pa. Stitch-transferring device. 2,326,694; Aug. 10.
Skelly Oil Company. (See Shaver, Ward, assignor.)
Skeppstrom, Edwin J. (See Larson, E. S., and Skeppstrom.)
Smith, Alfred, Burnaby, British Columbia, Canada, assignor to J. H. Bluechel, Vancouver, British Columbia, Dominion of Canada. Building construction. 2,326,503; Aug. 10.
Aug. 10.
Smith, Wesley L., Bedford, Va., assignor to Great American Industries, Inc., New York, N. Y. Chute. 2,326,504; Aug. 10.
Smulski, Theodore J., Gary, Ind., assignor to Productive Inventions, Inc. Windshield wiper arm. 2,326,402; Aug. 10.
Sneed, John, assignor, by mesne assignments, to Poster Machines Corporation, Detroit, Mich. Exhibiting or display device. 2,326,179; Aug. 10.
Snider, Leo, Canton, Ohio. Fishpole holder. 2,326,695; Aug. 10.
Snyder, Raymond C., Franklin, Pa., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Method of and apparatus for hard facing. 2,326,403; Aug. 10.
Socony-Vacuum Oil Company. (See Berger, H. G., Hamilton, and Fuller, assignors.)
Socony-Vacuum Oil Company. (See Moran, Robert C., assignor.)
Socony-Vacuum Oil Company. (See Reiff, Orland M., assignor.)
Southern Steel Company. (See White, Loyd J., assignor.)
Spangler, Irl M., Oklahoma City, Okla., assignor to Lane-Wells Company, Los Angeles, Calif. Setting tool for bridging plugs. 2,326,404; Aug. 10.
Sparks, William J. (See Cloud, G. H., and Sparks.)
Specialties Development Corporation. (See Grant, Harry C., Jr., assignor.)
Spencer, Lloyd, assignor to Lane-Wells Company, Los Angeles, Calif. Side-wall sampling device for well bores. 2,326,405; Aug. 10.
Spencer, Lloyd, assignor to Lane-Wells Company, Los Angeles, Calif. Gun perforator. 2,326,406; Aug. 10.
Spencer, Lloyd. (See Taylor, F. A., and Spencer.)
Spencer Turbine Company, The. (See Paine, Wilbur V., assignor.)
Square D Company. (See Bierenfeld, Josef, assignor.)
Square D Company. (See Kingdon, Ralph H., assignor.)
Stadler, John. (See Gold, R. S., and Stadler.)
Stanco Incorporated. (See Rose, William H., assignor.)
Stackhouse, A. M., et al. (See Moerk, F. N., and Eisenberg, assignors.)
Stadelmann, Sigmund. (See Schmidt, O., and Stadelmann.)
Standard Brands Incorporated. (See Baker, John C., assignor.)
Standard Brands Incorporated. (See Freilich, J., and Frey, assignors.)
Standard Oil Company. (See Diwoky, Roy J., assignor.)
Standard Oil Company. (See Thiele, E. W., and Schmikons, assignors.)
Standard Oil Company. (See Thiele, E. W., Schmitkons, and Hull, assignors.)

Standard Oil Development Company. (See Connolly, G. C., and Watts, assignors.)
Standard Oil Development Company. (See Cloud, G. H., and Sparks, assignors.)
Standard Oil Development Company. (See Munday, John C.)
Standard Oil Development Company. (See Teague, J. U., and Cannon, assignors.)
Standard Oil Development Company. (See Vesterdal, Hans G., assignor.)
Standard Oil Development Company. (See Zimmer, J. C., and Morway, assignors.)
Standard Products Company, The. (See Husted, Harry A., assignor.)
Standard Railway Equipment Manufacturing Company. (See Bonsall, Charles D., assignor.)
Standard Railway Equipment Manufacturing Company. (See Zeidler, Kurt E., assignor.)
Stanley, Charles B. (See Johnson, C. R., Pilcher, and Stanley.)
Stansbury, Carroll, Wauwatosa, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Circuit controller. 2,326,262; Aug. 10.
Starrett, L. S., Company, The. (See Swinney, George T., assignor.)
Staub, David E. (See Boehm, N. J., and Staub.)
Stearns Magnetic Mfg. Co. (See Stearns, Roswell H., assignor.)
Stearns, Roswell H., Wauwatosa, assignor to Stearns Magnetic Mfg. Co., Milwaukee, Wis. Magnetic separator. 2,326,575; Aug. 10.
Stein, Hall Manufacturing Company. (See Bauer, H. F. and J. V., and Hawley, assignors.)
Steiner, Hubbard W., Detroit, Mich., assignor to United States Rubber Company, New York, N. Y. Tank fitting. 2,326,263; Aug. 10.
Steinmetz, Samuel, Bridgeport, Conn. Brush and broom. 2,326,576; Aug. 10.
Steinwand, Otto J., Oakland, assignor to S & W Fine Foods, Inc., San Francisco, Calif. Treating fruit. 2,326,407; Aug. 10.
Stempel, Laszlo M., Coraopolis, assignor to The Lithograph Press Manufacturing Company, Pittsburgh, Pa. Adjustable thrust bearing. 2,326,180; Aug. 10.
Stetler, Lowell, assignor, by mesne assignments, to S. T. Haas, Cleveland, Ohio. Grinding machine. 2,326,264; Aug. 10.
Stoddard, Ralph N., East Orange, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Blasting machine. 2,326,696; Aug. 10.
Strauch, Clauss B., Milwaukee, Wis. Pneumatic protector for automobiles. 2,326,720; Aug. 10.
Strawsine, Fern A., Corunna, Mich. Connecting bead chains to lower clips. 2,326,408; Aug. 10.
Stuart, Joseph, II, assignor to Hercules Powder Company, Wilmington, Del. Feeding mechanism. 2,326,697; Aug. 10.
Sturgis, Bernard M. (See Neal, A. M., and Sturgis.)
Sucesores de Abarca. (See Carreras, Jose R., assignor.)
Sullivan, D. J. (See Dillon, Robert L., assignor.)
Sundquist, John A., Fairfield, and H. E. Aust, assignors to Harvey Hubbell, Incorporated, Bridgeport, Conn. Adjustable angle cord grip plug cap. 2,326,181; Aug. 10.
Sundstrand, Oscar J., West Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 2,326,409; Aug. 10.
Swain, Robert C., Riverside, and P. Adams, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Coating composition containing polyvinyl acetate methylal. 2,326,698; Aug. 10.
Swain, Robert C., Riverside, and P. Adams, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Coating composition containing polyisobutylene. 2,326,699; Aug. 10.
Swingle, Donald R., and W. W. Robinson, assignors to Cumberland Case Company, Chattanooga, Tenn. Crate. 2,326,700; Aug. 10.
Swingle, Donald R., and W. W. Robinson, assignors to Cumberland Case Company, Chattanooga, Tenn. Crate. 2,326,701; Aug. 10.
Swinney, George T., Los Angeles, Calif., assignor to The L. S. Starrett Company, Athol, Mass. Telescoping gauge. 2,326,410; Aug. 10.
Swoope, Charles C. (See Young, D. W., and Swoope.)
Sylvania Electric Products Inc. (See McCarthy, Henry J., assignor.)
Sylvania Industrial Corporation. (See Russell, Arthur O., assignor.)
Tawney, Pliny O., Chicago, Ill., assignor to The Sherwin-Williams Company, Cleveland, Ohio. Urea-formaldehyde resin. 2,326,265; Aug. 10.
Taylor, Charles H., Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Suction cleaning apparatus. 2,326,311; Aug. 10.
Taylor, Francis A., Long Beach, and L. Spencer, assignors to Lane-Wells Company, Los Angeles, Calif. Setting tool for cement retainers. 2,326,411; Aug. 10.
Taylor, Fred L., and C. L. Moyle, assignors to The Dow Chemical Company, Midland, Mich. Ethers. 2,326,702; Aug. 10.
Taylor, Jack, Yavapai County, Ariz. Double divider. 2,326,412; Aug. 10.
Taylor, Walter W. (See Malsbary, J. F., and Taylor.)
Teague, James U., New Orleans, La., and G. E. Cannon, Houston, Tex., assignors to Standard Oil Development Company. Removal of mud cake in casing cement jobs. 2,326,577; Aug. 10.
Technical Casting & Manufacturing Co. (See van Amerongen, W., and Boyce, assignors.)
Teletype Corporation. (See Larson, E. S., and Skeppstrom, assignors.)
Texas Company, The. (See Gee, William P., assignor.)
Texas Company, The. (See Watson, Claude W., assignor.)
Thiele, Ernest W., and G. E. Schmitkons, assignors to Standard Oil Company, Chicago, Ill. Isoforming. 2,326,703; Aug. 10.
Thiele, Ernest W., G. E. Schmitkons, and C. M. Hull, assignors to Standard Oil Company, Chicago, Ill. Coker-isoforming system. 2,326,704; Aug. 10.
Thiele, Ernest W., G. E. Schmitkons, and C. M. Hull, assignors to Standard Oil Company, Chicago, Ill. Isoforming. 2,326,705; Aug. 10.
Thomas, Charles L., J. E. Ahlberg, assignors to Universal Oil Products Company, Chicago, Ill. Manufacture of catalysts. 2,326,706 Aug. 10.
Thomas, Frederick W., Englewood, N. J., and R. D. Maclachlan, Barrington, assignors to Crown Fastener Corporation, Warren, R. I. Apparatus for electroplating. 2,326,707; Aug. 10.
Thomas, John E. (See McDonald, Jesse D., assignor.)
Thompson, George W., Chicago, Ill. Harmonic calculator. 2,326,413; Aug. 10.
Thompson, James F., St. Louis, Mo. Storage container. 2,326,414; Aug. 10.
Thompson Products, Incorporated. (See Hufferd, George H., assignor.)
Thompson, Russell G., Elmira, assignor to Remington Rand Inc., Buffalo, N. Y. Typewriting and like machine. 2,326,312; Aug. 10.
Thomsen, Alfred M., San Francisco, Calif. Internal combustion and apparatus therefor. 2,326,266; Aug. 10.
Thuau, Urbain J., Paris, France, assignor to Eli Lilly and Company, Indianapolis, Ind. Therapeutic product and making it. 2,326,578; Aug. 10.
Tinnerman, George A., assignor to Tinnerman Products, Inc., Cleveland, Ohio. Fastener. 2,326,579; Aug. 10.
Tinnerman Products, Inc. (See Tinnerman, George A., assignor.)
Titanium Alloy Manufacturing Company, The. (See Frost, L. J., and Commons, assignors.)
Titus, Buel F., San Francisco, Calif. Automatic liquid dispensing device. 2,326,415; Aug. 10.
Tobin, John. (See Dodge, E. S., and Tobin.)
Todd, Seldon P. Gloucester City, H. F. Saunders, Haddonfield, and F. C. Verduin, Audubon, N. J., assignors to The Sherwin-Williams Company, Cleveland, Ohio. Titanium pigment composition and making the same. 2,326,182; Aug. 10.
Torstenson, Henry A., et al. (See Krantz, Edward, assignor.)
Tracy, Mearl V., assignor to Tracy Tool Co., Pasadena, Calif. Gauge for power saws. 2,326,416; Aug. 10.
Tracy, Parker C. (See Moreland, S. T., and Tracy.)
Tracy Tool Co. (See Tracy, Mearl V., assignor.)
Trans-Lux Corporation. (See Newman, David F., assignor.)
Tratsch, Walter A. (See Patzer, W., and Tratsch.)
Trenkle, Charles H., Ridgewood, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Resistance material. 2,326,580; Aug. 10.
Trucksess, David E., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Alarm circuit. 2,326,313; Aug. 10.
True-Vue, Inc. (See Mast, Gifford M., assignor.)
Tulleners, Anton J., Long Beach, assignor to Shell Development Company, San Francisco, Calif. Manufacture of higher alcohols. 2,326,505; Aug. 10.
Tummins, Samuel H., Houston, Tex. Wallboard fastener. 2,326,506; Aug. 10.
Twin Disc Clutch Company. (See Schaeffer, R. M., and Shurts, assignors.)
Tyskewicz, John P. (See Bourne, R. B., and Tyskewicz.)
Ullrich, Fred J., Kalamazoo, assignor of one-half to Lee A. Fordon, Detroit, Mich. Box or carton. 2,326,417; Aug. 10.
Underwood Elliott Fisher Company. (See Sincerbeaux, Chauncey M., assignor.)
Underwood Elliott Fisher Company. (See Sundstrand, Oscar J., assignor.)
Unifloc Reagents Limited. (See Samuel, John O., assignor.)
Union Asbestos & Rubber Company. (See Lundvall, John S., assignor.)
Union Switch & Signal Company, The. (See Crooks, Ralph K., assignor.)
United Engineering & Foundry Company. (See Biggert, Florence C., Jr., assignor.)
United Shoe Machinery Corporation. (See Baker, Corwin W., assignor.)
United Shoe Machinery Corporation. (See Bertrand, Frederic E., assignor.)
United Shoe Machinery Corporation. (See Courchene, Theodore P., assignor.)

United Shoe Machinery Corporation. (See Harding, Joseph E., assignor.)
United Shoe Machinery Corporation. (See Leveque, Bernard T., assignor.)
United Shoe Machinery Corporation. (See Nokes, Ernest S., assignor.)
United Shoe Machinery Corporation. (See Robinson, Charles A., assignor.)
United Shoe Machinery Corporation. (See Whitaker, Carl F., assignor.)
United States Gypsum Company. (See Alvord, Charles B., assignor.)
U. S. Industrial Alcohol Co. (See Fisher, Harry L., assignor.)
United States Radium Corporation. (See Fischer, Alois, assignor.)
United States Rubber Company. (See Steiner, Hubbard W., assignor.)
Universal Oil Products Company. (See Benedict, Wayne L., assignor.)
Universal Oil Products Company. (See Egloff, Gustav, assignor.)
Universal Oil Products Company. (See Egloff, G., and Komarewsky, assignors.)
Universal Oil Products Company. (See Thomas, C. L., and Ahlberg.)
University of Tennessee Research Corporation, The. (See Rosenthal, Fritz, assignor.)
Urbank, John C., St. Paul, Minn. Bed. 2,326,183; Aug. 10.
Usselman, George L., Port Jefferson, N. Y., assignor to Radio Corporation of America. Frequency modulation. 2,326,314; Aug. 10.
Van Amerongen, William, and J. N. Boyce, assignors to The Technical Casting & Manufacturing Co., Akron, Ohio. Finning. 2,326,418; Aug. 10.
Van Briessen, Karl. (See Braunschmidt, L., van Briessen, and Hissbach.)
Van Cleef Bros. (See Van Cleef, Felix, assignor.)
Van Cleef, Felix, assignor to Van Cleef Bros., Chicago, Ill. Panel structure. 2,326,581; Aug. 10.
Van Cott, Frank J. and L. J., Unadilla, N. Y. Stall partition. 2,326,582; Aug. 10.
Van Cott, Frank J. and L. J., Unadilla, N. Y. Silo door fitting. 2,326,583; Aug. 10.
Van Cott, Leon J. (See Van Cott, Frank J. and L. J.)
Van Horn, Irving H., East Cleveland, Ohio, assignor to General Electric Company. Electric lamp. 2,326,419; Aug. 10.
Van Zelst, Johannes Jacobus Zaalberg, Eindhoven, Netherlands, assignor, by mesne assignments, to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Multiplex telephony system. 2,326,584; Aug. 10.
Vavroch, Jaroslav, Cedar Rapids, Iowa. Windshield attachment. 2,326,267; Aug. 10.
Verduin, Fredric C. (See Todd, S. P., Saunders, and Verduin.)
Vesterdal, Hans G., Elizabeth, N. J., assignor to Standard Oil Development Company. High pressure alkylation reaction. 2,326,585; Aug. 10.
Vesterdal, Hans G., Elizabeth, N. J., assignor to Standard Oil Development Company. High pressure alkylation reaction. 2,326,586; Aug. 10.
Vesterdal, Hans G., Elizabeth, N. J., assignor to Standard Oil Development Company. High pressure alkylation reaction. 2,326,587; Aug. 10.
Vickers, Harry F., assignor to Vickers, Incorporated, Detroit, Mich. Timing device for power transmission systems. 2,326,184; Aug. 10.
Vickers, Incorporated. (See Vickers, Harry F., assignor.)
Vukasinovich, John P., Oakland, Calif. Hot beverage dispenser. 2,326,420; Aug. 10.
Vulcan Stamping & Mfg. Co. (See McCarthy, Vern I., assignor.)
Wadsworth Electric Manufacturing Co., The. (See Landmeier, Edwin W., assignor.)
Waechter, Harry J., Mount Healthy, assignor to P. Benninghofen and F. G. Diesbach, Hamilton, Ohio, as trustees. Autographic register. 2,326,108; Aug. 10.
Waechter, Harry J., Mount Healthy, assignor to P. Benninghofen and F. G. Diesbach, Hamilton, Ohio, as trustees. Autographic register. 2,326,109; Aug. 10.
Waechter, Harry J., Mount Healthy, assignor to P. Benninghofen and F. G. Diesbach, Hamilton, Ohio, as trustees. Autographic register. 2,326,110; Aug. 10.
Wagner Electric Corporation. (See Schnell, Steve, assignor.)
Wagner, Julius A. (See Henning, G. E., and Wagner.)
Wagner, Robert A. (See Falk, A. C., and Wagner.)
Wales, George F., Kenmore, N. Y. Clamping mechanism for perforating apparatus and other parts. 2,326,588; Aug. 10.
Wallerstein Company. (See Pfannmuller, J., and Schleich, assignors.)
Walter, Gustave, Jersey City, N. J. Adjustable shaft bearing. 2,326,268; Aug. 10.
Wanner, Edwin F., assignor to National Fireproofing Corporation, Pittsburgh, Pa. Hollow building unit for steel reinforced walls. 2,326,708; Aug. 10.
Wanvig, Harry F. (See Csanyi, Henry, assignor.)
Warner-Patterson Company. (See Ikert, Bruno M., assignor.)
Waterbury Farrel Foundry and Machine Company, The. (See Wilcox, Richard L., assignor.)
Waters, Harry F., New York, N. Y. Lined carton. 2,326,269; Aug. 10.
Watson, Claude W., Tuckahoe, assignor, by mesne assignments, to The Texas Company, New York, N. Y. Conversion of hydrocarbons. 2,326,186; Aug. 10.
Watson, William U., Chicago, Ill. Tool. 2,326,709; Aug. 10.
Watts, Rhea N. (See Connolly, G. C., and Watts.)
Waycott, Clark H., Sr., Sacramento, Calif. Storage rack. 2,326,710; Aug. 10.
Weaver Manufacturing Company. (See Ross, William A., assignor.)
Webster Electric Company. (See Campbell, Richard H., assignor.)
Weeks, Walter R., Hamden, Conn., assignor to General Electric Company. Appliance construction. 2,326,589; Aug. 10.
Weightman, William A., assignor to Edward G. Budd Manufacturing Co., Philadelphia, Pa. Welding apparatus. 2,326,590; Aug. 10.
Weiland, Alfred, assignor to General Machinery Ordnance Corporation, South Charleston, W. Va. Honing mechanism. 2,326,711; Aug. 10.
Weiner, Harry, assignor to F. G. Flosi, doing business as Allied Industries, Chicago, Ill. Circuit breaking plug. 2,326,712; Aug. 10.
Weisberger, Irving, assignor to Durma-Gard, Inc., New York, N. Y. Arm protector or the like. 2,326,422; Aug. 10.
Welch, Kenneth C., Jr., assignor to Grand Rapids Store Equipment Company, Grand Rapids, Mich. Furniture construction. 2,326,507; Aug. 10.
Well Surveys, Incorporated. (See Davis, Robert F., assignor.)
Werntz, James H., Brandywine Hundred, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Chemical compound and process. 2,326,270; Aug. 10.
Wesseler, William J., East Cleveland, Ohio. Shielding device. 2,326,713; Aug. 10.
Wessinger, Ernst, Long Island City, N. Y. Dental vulcanizing flask. 2,326,271; Aug. 10.
Western Cartridge Company. (See Bohner, Clyde C., assignor.)
Western Electric Company. (See Henning, G. E., and Wagner, assignors.)
Western Precipitation Corporation. (See Lissman, Marcel A., assignor.)
Western Union Telegraph Company, The. (See Hewitt, Ernest W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Edwards, Hilbert E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Kroon, Reinout P., assignor.)
Westinghouse Electric & Manufacturing Company. (See Marbury, Ralph E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Stoddard, Ralph N., assignor.)
Westinghouse Electric & Manufacturing Co. (See Taylor, Charles H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Zetterquist, Eric A., assignor.)
Whitaker, Carl F., Beverly, Mass., assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J. Shoe sewing machine. 2,326,272; Aug. 10.
Whitcomb, Preston, Bridgeport, and H. S. Moore, Easton, Conn., assignors to Manning, Maxwell & Moore, Incorporated, New York, N. Y. Power transmission mechanism. 2,326,508; Aug. 10.
White, David E., Cleveland, Ohio. Telephone stand. 2,326,591; Aug. 10.
White, Joe, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Electric horn. 2,326,421; Aug. 10.
White, Loyd J., assignor to Southern Steel Company, San Antonio, Tex. Liquefied gas system. 2,326,187; Aug. 10.
White, Loyd J., assignor to Southern Steel Company, San Antonio, Tex. Combination slip tube gauge and evacuating liquefied gas storage tanks. 2,326,188; Aug. 10.
Whitehead, Donald. (See Hartley, W. L., and Whitehead.)
Whitehead, William, Rye, N. Y., assignor to Celanese Corporation of America. Preparation of laminating fabric. 2,326,189; Aug. 10.
Whitehead, William, Rye, N. Y., assignor to Celanese Corporation of America. Preparation of laminating fabric. 2,326,190; Aug. 10.
Whittemore, John W., Blacksburg, and C. R. Oberfell, Lynchburg, Va., assignors to The Mead Corporation, Chillicothe, Ohio. Ceramics. 2,326,729; Aug. 10.
Wholton, Fred, Croft, near Leicester, assignor to Courtaulds Limited, London, England. Thread tensioning apparatus. 2,326,714; Aug. 10.
Wicker, Charles R., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Removing lead sulphate from titanium salt solutions. 2,326,592; Aug. 10.
Wilcox, Richard L., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Shaft driving mechanism. 2,326,273; Aug. 10.

Willard Storage Battery Company. (See Hill, James R., assignor.)
Williams, Norman D., assignor to The Pure Oil Company, Chicago, Ill. Halogenated extreme pressure lubricant. 2,326,315; Aug. 10.
Wilmanns, Gustav. (See Riester, O., and Wilmanns.)
Wilmanns, Gustav. (See Schenider, W., Schulze, and Wilmanns.)
Wilson, Lloyd L., Sharpsville, H. W. Lowmiller, Farrell, Pa., and M. L. Bible, Masury, Ohio, assignors to Sharon Steel Corporation, Sharon, Pa. Manufacture of center stretched strip. 2,326,715; Aug. 10.
Wingfoot Corporation. (See Long, John R., assignor.)
Wolf, Arnold M. (See Lermont, B., and Wolf.)
Wollin, Robert H., Milwaukee, Wis. Button. 2,326,593; Aug. 10.
Womack, Harry G., Atlanta, Ga. Supporting carriage for wood to be sawed. 2,326,509; Aug. 10.
Wood, Edwin J., Detroit, Mich. Dual flow pipe fitting. 2,326,716; Aug. 10.
Wood, Gar, Industries, Inc. (See Wood, Louis S., assignor.)
Wood, Louis S., Grosse Pointe Farms, assignor to Gar Wood Industries, Inc., Detroit, Mich. Dump vehicle construction. 2,326,594; Aug. 10.
Wood Newspaper Machinery Corporation. (See Ricards, Charles L., assignor.)
Woodhead, Robert C. (See Heeter, E. W., and Woodhead.)
Worden, R. B., Granger, Wash. Fishing line attachment. 2,326,510; Aug. 10.
Yerkovich, Simon. (See Bossmeyer, C. L., and Yerkovich.)
Young, Clarence H., Lincoln Park, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electric measuring apparatus. 2,326,274; Aug. 10.
Young, David W., Roselle, and C. C. Swoope, Union, N. J., assignors, by mesne assignments, to Jasco, Incorporated. Size reduction and stabilization of oil thickening polymers. 2,326,595; Aug. 10.
Young, L. A., Spring & Wire Corporation. (See Coney, James D., assignor.)
Zabler, Erwin E., Chicago, Ill., assignor to American Can Company, New York, N. Y. Container opening key. 2,326,191; Aug. 10.
Zachos, Louis G., Atlanta, Ga. Instrument for measuring liquids. 2,326,111; Aug. 10.
Zeidler, Kurt E., assignor to Standard Railway Equipment Manufacturing Company, Chicago, Ill. Refrigerator car construction. 2,326,717; Aug. 10.
Zeltner, Joseph, Paris, France; vested in the Alien Property Custodian. Preparation of catalysts for hydrogenation. 2,326,275; Aug. 10.
Zenner, George H., Kenmore, N. Y., assignor to The Linde Air Products Company. Liquid level gauge. 2,326,511; Aug. 10.
Zetterquist, Eric A., Drexel Hill, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Turbine apparatus. 2,326,112; Aug. 10.
Zimmer, John C., Union, and A. J. Morway, Clark Township, Union County, N. J., assignors to Standard Oil Development Company. Lubricant. 2,326,596; Aug. 10.
Zoerlein, Emil, and J. E. Hoffmann, assignors to Ford Motor Company, Dearborn, Mich. Distributor. 2,326,113; Aug. 10.
Zschokke, Arthur J., Huntington Park, assignors to Lane-Wells Company, Los Angeles, Calif. Gun perforator. 2,326,114; Aug. 10.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 10TH DAY OF AUGUST, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Articles of manufacture, Applying labellike elements to. F. Autem. Re. 22,362; Aug. 10.
Controller, Circuit. C. Stansbury. Re. 22,364; Aug. 10.
Motion picture machine, Automatic. A. W. Miller and J. H. McMahon. Re. 22,363; Aug. 10.

LIST OF DESIGN INVENTIONS

Basket, Sewing. V. G. Beauchamp. 136,154; Aug. 10.
Booth or the like, Telephone. W. L. Manning. 136,134; Aug. 10.
Bottle and stand therefor, Combined perfume. A. R. Botham. 136,155; Aug. 10.
Bracket, Curtain rod. P. L. Teninty. 136,137; Aug. 10.
Brooch or similar article. A. Philippe. 136,126; Aug. 10.
Case, Folding utility. H. I. Schwartz. 136,131; Aug. 10.
Case, Safety razor hone. L. R. Scott. 136,157; Aug. 10.
Container, Chemical. G. C. Irwin. 136,129; Aug. 10.
Dress. B. Cashin. 136,123; Aug. 10.
Dress. B. Cashin. 136,147–52; Aug. 10.
Dress. R. R. Kass. 136,139–43; Aug. 10.
Dress. J. Walker. 136,144–6; Aug. 10.
Dress. J. Walker. 136,153; Aug. 10.
Energizer for internal combustion engine starters, External. D. J. Conant. 136,133; Aug. 10.
Handbag or similar article. D. Portser. 136,135; Aug. 10.
Jabot or similar article. S. M. Baar. 136,132; Aug. 10.
Moth exterminant, Volatile. G. C. Irwin. 136,130; Aug. 10.
Opener, Bottle. F. Mossberg. 136,124; Aug. 10.
Rack and pinion assembly. T. G. Gerow. 136,128; Aug. 10.
Ring, Finger. J. Blumstein. 136,138; Aug. 10.
Ring, Finger. A. Sager. 136,136; Aug. 10.
Scale, Icterus index color. J. Ungar. 136,127; Aug. 10.
Stringer, Slide fastener. M. Norkin. 136,125; Aug. 10.
Toothbrush. C. W. Fuller. 136,156; Aug. 10.
Welding apparatus, Electric. A. W. Baird. 136,121–2; Aug. 10.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 10TH DAY OF AUGUST, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Accelerator of the delayed action type and acid-curing thermosetting resin. P. C. Schroy. 2,326,727; Aug. 10.
Accelerator of vulcanization. H. L. Fisher. 2,326,733; Aug. 10.
Adjustable shaft bearing. G. Walter. 2,326,268; Aug. 10.
Adjustable thrust bearing. L. M. Stempel. 2,326,180; Aug. 10.
Adjusting attachment for drawing compasses and the like, Removable. H. Friedmann. 2,326,135; Aug. 10.
Air cooling of engines. W. C. Dehn. 2,326,335; Aug. 10.
Aircraft landing gear. A. C. Falk and R. A. Wagner. 2,326,210; Aug. 10.
Air eliminator. D. Samiran. 2,326,175; Aug. 10.
Alarm and testing circuit. A. C. Dickieson. 2,326,290; Aug. 10.
Alarm circuit. D. E. Trucksess. 2,326,313; Aug. 10.
Alarm mechanism. W. E. Proctor. 2,326,559; Aug. 10.
Alcohols, Manufacture of. A. J. Tulleners. 2,326,505; Aug. 10.
Alkoxy acrylonitriles and preparing the same. J. R. Long. 2,326,373; Aug. 10.
Alternating current generator. C. A. Lovell. 2,326,663; Amplifier. J. R. Bowman. 2,326,614; Aug. 10.
Anchor, Screw. A. W. Gelpcke. 2,326,453; Aug. 10.
Anhydrite, making the same and product including it, Activated. A. T. McCord and H. F. Saunders. 2,326,157; Aug. 10.
Antenna, Automobile radio. R. L. Dillon. 2,326,443; Aug. 10.
Apparatus for detecting variations in wirelike bodies. D. E. Elmendorf and K. H. Keller. 2,326,344; Aug. 10.
Apparatus for determining fluid pressure. B. M. Ikert. 2,326,652; Aug. 10.
Apparatus for determining the dip in the earth's substrata. R. F. Davis. 2,326,640; Aug. 10.
Apparatus for electric heating. W. C. Dunn and F. S. Denneen. 2,326,206; Aug. 10.
Apparatus for electroplating. F. W. Thomas and R. D. Maclachlan. 2,326,707; Aug. 10.
Apparatus for producing ozone. J. H. Arff. 2,326,601; Aug. 10.
Apparatus for testing and indicating the condition of vehicle brakes. E. Piquerez. 2,326,168; Aug. 10.
Apparatus for the manufacture of grinding wheels. L. H. Milligan and R. H. Lombard. 2,326,381; Aug. 10.
Apparatus for use in preparing poultry for the market. V. T. O'Connor and W. C. Gardiner. 2,326,162; Aug. 10.
Appliance construction. W. R. Weeks. 2,326,589; Aug. 10.
Applicator, Liquid wax. H. C. Nimrick. 2,326,669; Aug. 10.
Aqueous rubber dispersions, Manufacture of articles from. S. B. Neiley and E. E. Habib. 2,326,160; Aug. 10.
Arm protector or the like. I. Weisberger. 2,326,422; Aug. 10.
Aryl-substituted hydrogenated cyclic compounds and producing same. H. Hopff, W. Rapp and H. Rinke. 2,326,222; Aug. 10.
Automatic questionnaire. T. L. Dowey and C. A. Lovell. 2,326,204; Aug. 10.
Automatic tube cutoff. D. A. Johnston. 2,326,463; Aug. 10.
Automobile license plate. W. H. Ritchie. 2,326,566; Aug. 10.
Autoperisphere. D. V. Shuhart. 2,326,400; Aug. 10.
Awning belt center support. H. C. Heiser. 2,326,642; Aug. 10.
Bag: *See*—
Utility bag.
Baked goods, Manufacture of. J. Freilich and C. N. Frey. 2,326,134; Aug. 10.
Base for electric lamps and similar devices. R. S. Dick. 2,326,336; Aug. 10.
Battery hold-down. H. E. Meyer. 2,326,481; Aug. 10.
Battery, Storage. J. R. Hill. 2,326,537; Aug. 10.
Bed. J. C. Urbank. 2,326,183; Aug. 10.
Bearing: *See*—
Adjustable shaft bearing.
Bedclothes harness. D. M. Shields. 2,326,399; Aug. 10.
Bed, Convertible. J. D. Bell. 2,326,196; Aug. 10.
Bee observation unit. D. E. O'Beirne. 2,326,250; Aug. 10.
Blasting machine. R. N. Stoddard. 2,326,696; Aug. 10.
Blind, Venetian. S. S. Gentile. 2,326,454; Aug. 10.
Blowing device. W. A. Morrison. 2,326,383; Aug. 10.
Board: *See*—
Running board. Spill board.
Bottle capping mechanism. L. H. Browne. 2,326,284; Aug. 10.
Bowling alley. F. Nall. 2,326,554; Aug. 10.
Box construction. W. A. Becker. 2,326,281; Aug. 10.
Box equipment, Driving. H. B. Baker. 2,326,426; Aug. 10.
Box or carton. F. J. Ullrich. 2,326,417; Aug. 10.
Brake shoe mounting construction. S. Schnell. 2,326,177; Aug. 10.
Bread. J. C. Baker. 2,326,278; Aug. 10.
Bridge, Pontoon. H. B. Lindsay. 2,326,236; Aug. 10.
Brush and broom. S. Steinmetz. 2,326,576; Aug. 10.
Building construction. O. S. Jacobsen. 2,326,361; Aug. 10.
Building construction. A. Smith. 2,326,503; Aug. 10.
Building unit for steel reinforced walls, Hollow. E. F. Wanner. 2,326,708; Aug. 10.
Burner: *See*—
Fuel oil burner.
Butadiene, Production of. O. Schmidt and S. Stadelmann. 2,326,258; Aug. 10.
Button. R. H. Wollin. 2,326,593; Aug. 10.
Cabinet. P. Rosenberg. 2,326,255; Aug. 10.
Cabinet construction. H. S. Carlson. 2,326,330; Aug. 10.
Cabinet structure. J. E. Bales. 2,326,320; Aug. 10.
Cable: *See*—
Electric cable.
Cable. E. C. Myers. 2,326,719; Aug. 10.
Calculator, Harmonic. G. W. Thompson. 2,326,413; Aug. 10.
Calibrating means for piston meters. A. L. Grisé. 2,326,637; Aug. 10.
Camera mounting. W. E. Johnston. 2,326,657; Aug. 10.
Canning apparatus. K. Kurzbin. 2,326,146; Aug. 10.
Capacitors, Water-cooled. R. E. Marbury. 2,326,151–2; Aug. 10.
Caps, Manufacturing seam. C. D. Bonsall. 2,326,283; Aug. 10.
Car construction, Refrigerator. K. E. Zeidler. 2,326,717; Aug. 10.
Car wheels and the like, Heat-treating. R. B. Dimmick. 2,326,126; Aug. 10.
Carboxylic acid chlorides, Producing. M. S. Kharasch and H. C. Brown. 2,326,229; Aug. 10.
Cardboard structure, Collapsible. J. V. Horr. 2,326,648; Aug. 10.
Card, Score. H. M. Schubert. 2,326,260; Aug. 10.
Carriage for wood to be sawed, Supporting. H. G. Womack. 2,326,509; Aug. 10.
Carrier: *See*—
Wheeled golf club carrier.
Cartographic instruction device. V. R. Mullins. 2,326,385; Aug. 10.
Carton coin container. C. Ross. 2,326,683; Aug. 10.
Carton construction. W. Emmerich. 2,326,527; Aug. 10.
Carton, Egg. G. C. Moore, Jr. 2,326,244; Aug. 10.
Carton, Lined. H. F. Waters. 2,326,269; Aug. 10.
Cartridge. J. V. Rice, Jr. 2,326,393; Aug. 10.
Catafalque. W. L. Ripley. 2,326,565; Aug. 10.
Catalyst manufacture. W. L. Benedict. 2,326,323; Aug. 10.
Catalyst, Preparation of gel. G. C. Connolly and R. N. Watts. 2,326,523; Aug. 10.
Catalysts for acid-curing thermosetting resins, Curing. D. W. Jayne, Jr., and P. C. Schroy. 2,326,725; Aug. 10.
Catalysts, Manufacture of. C. L. Thomas and J. E. Ahlberg. 2,326,706; Aug. 10.
Catheter, sheath, or the like, Finger stall. A. Mendel. 2,326,159; Aug. 10.
Cementing machine. E. S. Nokes. 2,326,249; Aug. 10.
Center stretched strip, Manufacture of. L. L. Wilson, H. W. Lomiller and M. L. Bible. 2,326,715; Aug. 10.
Ceramics. J. W. Whittemore and C. R. Oberfell. 2,326,729; Aug. 10.
Chains to lower clips, Connecting bead. F. A. Strawsine. 2,326,408; Aug. 10.
Chamber for fluid fuel burners, Movable radiating and combustion. J. L. Breese. 2,326,432; Aug. 10.
Charge forming device. J. R. Dowdell. 2,326,205; Aug. 10.
Cheese, Making. E. D. Fear. 2,326,133; Aug. 10.
Cheese, Making cottage. E. D. Fear. 2,326,132; Aug. 10.
Chemical compound and process. J. H. Werntz. 2,326,270; Aug. 10.
Chemical process. M. S. Kharasch and H. C. Brown. 2,326,228; Aug. 10.
Chlorinator. J. Garelick. 2,326,212; Aug. 10.
Chuck, Augomatic collet. C. M. Bell. 2,326,322; Aug. 10.
Chute. W. L. Smith. 2,326,504; Aug. 10.

Circuit: *See*—
Alarm circuit. Seismic circuit.
Gaseous electric discharge device circuit.
Circuit breaking plug. H. Weiner. 2,326,712; Aug. 10.
Circuit controller. C. Stansbury. 2,326,262; Aug. 10.
Circuit controller, Electrothermally operated. F. B. MacLaren, Jr. 2,326,239; Aug. 10.
Circuits, Ionic tube. A. Perelmann. 2,326,677; Aug. 10.
Clamping mechanism for perforating apparatus and other parts. G. F. Wales. 2,326,588; Aug. 10.
Clear vision steering wheel. E. Eschelbacher. 2,326,131; Aug. 10.
Clip: *See*—
Spring clip.
Closure. A. L. Merolle. 2,326,480; Aug. 10.
Closure for explosive cartridges, End. C. R. Johnson, W. S. Pilcher, and C. B. Stanley. 2,326,310; Aug. 10.
Clutch. C. L. Bossmeyer and S. Yerkovich. 2,326,611; Aug. 10.
Clutch. J. E. Renholdt. 2,326,678; Aug. 10.
Clutch mechanism, Automatic. O. H. Banker. 2,326,279; Aug. 10.
Coating composition. E. W. Crosby. 2,326,623; Aug. 10.
Coating composition containing polyvinyl acetate methylal. R. C. Swain and P. Adams. 2,326,698; Aug. 10.
Coating composition containing polyisobutylene. R. C. Swain and P. Adams. 2,326,699; Aug. 10.
Coin chute. W. Patzer and W. A. Tratsch. 2,326,673; Aug. 10.
Coin selector. B. W. Fry and J. Gottfried. 2,326,211; Aug. 10.
Coin selector. J. Gottfried. 2,326,214; Aug. 10.
Coke deposits, Preventing deleterious. R. J. Diwoky. 2,326,525; Aug. 10.
Coker-isoforming system. E. W. Thiele, G. E. Schmitkons, and C. M. Hull. 2,326,704; Aug. 10.
Color control in photographic copying apparatus and the like. L. Braunschmidt, K. van Briessen, and K. Hissbach. 2,326,431; Aug. 10.
Communication system. R. H. Campbell. 2,326,616–17; Aug. 10.
Composition and method. J. F. Lontz. 2,326,471; Aug. 10.
Composition of matter and method and steps of making and using the same. M. T. Harvey. 2,326,297; Aug. 10.
Compressed and densified product and making the same. G. B. Brown. 2,326,516; Aug. 10.
Condenser: *See*—
Variable condenser.
Connector. R. D. Brewer. 2,326,327; Aug. 10.
Container: *See*—
Carton coin container. Storage dispenser.
Double walled container.
Container. H. A. Eggerss. 2,326,209; Aug. 10.
Container. G. C. Erb. 2,326,129; Aug. 10.
Container. S. Platt. 2,326,390; Aug. 10.
Control apparatus. E. A. Keeler. 2,326,465; Aug. 10.
Control for variable pitch propellers. H. Reissner. 2,326,308; Aug. 10.
Control head. H. C. Grant, Jr. 2,326,138; Aug. 10.
Control mechanism. H. E. Edwards. 2,326,208; Aug. 10.
Controlling apparatus. A. R. Mabey. 2,326,238; Aug. 10.
Conveyer. H. W. Hapman. 2,326,535; Aug. 10.
Conveyer. N. Pelosi. 2,326,165; Aug. 10.
Copolmer of unsaturated isocyanates. D. D. Coffman. 2,326,287; Aug. 10.
Cord grip plug cap, Adjustable angle. J. A. Sundquist and H. E. Aust. 2,326,181; Aug. 10.
Coring apparatus. P. T. Bynum. 2,326,435; Aug. 10.
Corset, Woman's. E. Mayer. 2,326,476; Aug. 10.
Counter molding machine. W. H. Chamberlain. 2,326,437; Aug. 10.
Coupler, Trailer. C. C. Kitterman. 2,326,466; Aug. 10.
Coupling: *See*—
Faucet coupling. Tube and coupling.
Flexible coupling.
Self-sealing detachable coupling
Crate. D. R. Swingle and W. W. Robinson. 2,326,700–1; Aug. 10.
Crown cap counting mechanism. P. E. Pearson and C. E. Magnus. 2,326,675; Aug. 10.
Crystal working apparatus. R. S. Bailey. 2,326,319; Aug. 10.
Cutout for electric circuits, Overload. J. F. Frese. 2,326,529; Aug. 10.
Cutter: *See*—
Shade cutter.
Cutting and scraping device. H. F. Sieg. 2,326,502; Aug. 10.
Cutting attachment for turning lathes, Contour. C. F. Malzahn. 2,326,240; Aug. 10.
Cyanoethyl ether of tertiary amino alcohols. H. A. Bruson. 2,326,721; Aug. 10.
Demonstration device. E. G. Barton. 2,326,194; Aug. 10.
Demulsifying and settling tank. W. M. Mount. 2,326,384; Aug. 10.
Depilatory. J. N. Borglin. 2,326,609; Aug. 10.
Desiccating apparatus. H. I. Andrews. 2,326,512; Aug. 10.
Device for connecting hose pipes to faucets. J. Gorrien. 2,326,213; Aug. 10.
Device for controlling the transmission of power to pumps. J. C. Myers. 2,326,668; Aug. 10.
Device for spooling reda and like cable. B. L. Opsal. 2,326,556; Aug. 10.
Diaphragm pump. J. F. Malsbary and W. W. Taylor. 2,326,474; Aug. 10.
Dispenser: *See*—
Fluid dispenser. Hot beverage dispenser.
Dispensing device. L. J. Humbert. 2,326,359; Aug. 10.
Display stand. C. E. Pringle and M. M. Murray. 2,326,493; Aug. 10.
Distributor. E. Zoerlein and J. E. Hoffmann. 2,326,113; Aug. 10.
Distributor, Fastening. C. A. Robinson. 2,326,254; Aug. 10.
Divider, Double. J. Taylor. 2,326,412; Aug. 10.
Dolly. W. A. Ross. 2,326,684; Aug. 10.
Doorknob. J. Milligren. 2,326,646; Aug. 10.
Double action safety switch. J. H. Bretthauer and W. Cermak. 2,326,199; Aug. 10.
Double walled container. F. Gettelman. 2,326,137; Aug. 10.
Drawing composition and making the same. E. A. Nill. 2,326,387; Aug. 10.
Drawing fixture. J. D. Leffel. 2,326,301; Aug. 10.
Drawing-off arrangement or mechanism for dealing with fleeces intermediate of scribblers or carding engines. T. Chantler. 2,326,331; Aug. 10.
Drill bits, Reconditioning. R. E. Calhoun. 2,326,520–1; Aug. 10.
Drive means for propeller driven craft. L. J. Root. 2,326,567; Aug. 10.
Drum, Practice. T. O. Morarre. 2,326,305; Aug. 10.
Dump vehicle construction. L. S. Wood. 2,326,594; Aug. 10.
Electric cable. W. T. Peirce. 2,326,557; Aug. 10.
Electric home permanent waver. F. G. Hall. 2,326,141; Aug. 10.
Electric horn. J. White. 2,326,421; Aug. 10.
Electric lamp. I. H. Van Horn. 2,326,419; Aug. 10.
Electric measuring machine. C. H. Young. 2,326,274; Aug. 10.
Electric switch. R. H. Kingdon. 2,326,299; Aug. 10.
Electric switch. A. W. Krieger. 2,326,232; Aug. 10.
Electric valve translating circuits. A. H. Mittag. 2,326,550; Aug. 10.
Electrical gauge. G. O. Bickel. 2,326,427; Aug. 10.
Electroplating apparatus. H. Csanyi. 2,326,624; Aug. 10.
Emulsions. J. N. Borglin. 2,326,610; Aug. 10.
Enameling composition and the like and making the same. L. J. Frost and C. H. Commons, Jr. 2,326,348; Aug. 10.
Enclosure. J. Bierenfeld. 2,326,282; Aug. 10.
Engine: *See*—
Internal combustion engine.
Engine construction, Outboard. T. Jackson. 2,326,224; Aug. 10.
Engine starting apparatus. L. C. Dermond. 2,326,125; Aug. 10.
Engines, Lubrication of aero and other. E. Piquerez. 2,326,167; Aug. 10.
Ether propagation paths, Investigating. N. E. Lindenblad and J. L. Finch. 2,326,662; Aug. 10.
Ethers. F. L. Taylor and C. L. Moyle. 2,326,702; Aug. 10.
Exhibiting or display device. J. Sneed. 2,326,179; Aug. 10.
Fabric: *See*—
Preparation of laminating fabric.
Fabric, Composite. C. Dreyfus and G. Schneider. 2,326,128; Aug. 10.
Fabric, Preparation of laminating. W. Whitehead. 2,326,189; Aug. 10.
Fastener: *See*—
Paper fastener. Wallboard fastener.
Strap fastener.
Fastener. G. A. Tinnerman. 2,326,579; Aug. 10.
Fastener driving tool. E. Krantz. 2,326,540; Aug. 10.
Fastening means. R. B. Gray. 2,326,455; Aug. 10.
Faucet coupling. M. F. Mejdrich. 2,326,479; Aug. 10.
Feeding mechanism. J. Stuart, II. 2,326,697; Aug. 10.
File, Card index. N. Y. Andersen. 2,326,277; Aug. 10.
Filling limiter. E. Piquerez. 2,326,251; Aug. 10.
Filling mechanism. W. F. Linstedt. 2,326,302; Aug. 10.
Film magazine for motion picture cameras. P. Jagust. 2,326,654; Aug. 10.
Filter: *See*—
Free flow liquid fuel filter.
Filtering apparatus. H. H. Moreton. 2,326,484; Aug. 10.
Finder, Radio compass direction. S. Di Renzo. 2,326,337; Aug. 10.
Finishing piece goods. S. L. Bass and A. A. Lawrence. 2,326,605; Aug. 10.
Finning. W. van Amerongen and J. N. Boyce. 2,326,418; Aug. 10.

Fireproofing composition. M. Leatherman. 2,326,233; Aug. 10.
Fishpole holder. L. Snider. 2,326,695; Aug. 10.
Fishing line attachment. R. B. Worden. 2,326,510; Aug. 10.
Fishing reel. C. E. Hill. 2,326,645; Aug. 10.
Fitting, Silo door. F. J. and L. J. Van Cott. 2,326,583; Aug. 10.
Flashlight, Pencil type. E. Eichenberger. 2,326,343; Aug. 10.
Flask, Dental vulcanizing. E. Wessinger. 2,326,271; Aug. 10.
Flat offset gauge. E. Ernst. 2,326,449; Aug. 10.
Flexible coupling. I. S. Brumagin. 2,326,201; Aug. 10.
Flexible coupling. T. L. Fawick. 2,326,451; Aug. 10.
Float valve. S. L. Martin. 2,326,544; Aug. 10.
Flocculating reagent for aqueous suspension sludges. J. O. Samuel. 2,326,395; Aug. 10.
Fluid delivery meter. E. Piquerez. 2,326,169; Aug. 10.
Fluid dispenser. H. N. Perelson. 2,326,490; Aug. 10.
Fluid drive. R. J. Miller. 2,326,666; Aug. 10.
Fluid pressure mechanism. R. S. Sanford. 2,326,687; Aug. 10.
Forged car wheel. R. B. Dimmick. 2,326,127; Aug. 10.
Forging press. F. C. Biggert, Jr. 2,326,606; Aug. 10.
Foundry sand, Reclaiming. W. L. Hartley and D. Whitehead. 2,326,218; Aug. 10.
4,4,6-trimethyl-2-thio-tetrahydro-1,3,2-oxazine. H. L. Fisher. 2,326,732; Aug. 10.
Frame, Bag. G. S. Merk. 2,326,304; Aug. 10.
Frame for wall openings. E. P. Miller. 2,326,549; Aug. 10.
Free flow liquid fuel filter. W. S. Schum. 2,326,691; Aug. 10.
Frequency coupling means, Ultra high. D. G. Burnside. 2,326,519; Aug. 10.
Frequency modulation. G. L. Usselman. 2,326,314; Aug. 10.
Friction shock absorbing mechanism. G. E. Dath. 2,326,288; Aug. 10.
Fruit, Treating. O. J. Steinwand. 2,326,407; Aug. 10.
Fuel control for heater, Thermostatic. H. C. Little. 2,326,734; Aug. 10.
Fuel, Diesel. G. H. Cloud and W. J. Sparks.. 2,326,522; Aug. 10.
Fuel economizer. J. Acosta. 2,326,598; Aug. 10.
Fuel injection device. F. C. Reggio. 2,326,171; Aug. 10.
Fuel oil burner. D. H. Hill. 2,326,221; Aug. 10.
Fuels, Production of non-knocking motor. M. Pier and G. Free. 2,326,166; Aug. 10.
Funnel, Ship's. I. D. Eby. 2,326,446; Aug. 10.
Furnace regulation. J. J. Klinker. 2,326,230; Aug. 10.
Furniture construction. K. C. Welch, Jr. 2,326,507; Aug. 10.
Fuse, Time lag. L. and G. Schmidt. 2,326,257; Aug. 10.
Galvanometer. T. A. Rich. 2,326,252; Aug. 10.
Garment. C. M. Miller. 2,326,380; Aug. 10.
Garment hanger. J. D. Coney. 2,326,334; Aug. 10.
Garment hanger. H. C. Ruen. 2,326,685; Aug. 10.
Garment hanger. J. H. Russell. 2,326,256; Aug. 10.
Gas-lift control. H. P. de Wit. 2,326,442; Aug. 10.
Gas mask facepiece. H. A. Husted. 2,326,650; Aug. 10.
Gas system, Liquefied. L. J. White. 2,326,187; Aug. 10.
Gaseous electric discharge device circuit. D. W. Abernathy. 2,326,697; Aug. 10.
Gauge: *See*—
Electrical gauge. Liquid level gauge.
Flat offset gauge. Pipe cutting gauge.
Knockdown flat offset gauge. Telescoping gauge.
Gauge and evacuating means for liquefied gas storage tanks, Combination slip tube. L. J. White. 2,326,188; Aug. 10.
Gauge for power saws. M. V. Tracy. 2,326,416; Aug. 10.
Gauge for use with air volume controls, Pressure. B. E. Shaw. 2,326,574; Aug. 10.
Gear: *See*—
Aircraft landing gear.
Gear forming machine. A. Kullman and C. Black. 2,326,368; Aug. 10.
Generator: *See*—
Alternating current generator. Steam generator.
Glucosidelike compounds of the steroid series and obtaining the same. H. H. Inhoffen, M. Gehrke, and W. Schoeller. 2,326,653; Aug. 10.
Golf club. G. L. Reenstierna. 2,326,495; Aug. 10.
Golf practicing device. C. W. Davis. 2,326,524; Aug. 10.
Grinding machine. L. Stetler. 2,326,264; Aug. 10.
Guard device for paper and like machines. L. Boraks. 2,326,608; Aug. 10.
Guard, Road. A. E. McNabb. 2,326,547; Aug. 10.
Gun barrel mounting. S. G. Green. 2,326,139; Aug. 10.
Gun perforator. L. Spencer. 2,326,406; Aug. 10.
Gun perforator. A. J. Zschokke. 2,236,114; Aug. 10.
Halogenated extreme pressure lubricant. N. D. Williams. 2,326,315; Aug. 10.
Hand bag and cover therefor. W. R. Buxton. 2,326,615; Aug. 10.
Hand lamp. C. C. Bohner. 2,326,607; Aug. 10.
Hanger: *See*—
Garment hanger.
Hanging material, Impregnated. H. F. and J. V. Bauer and D. M. Hawley. 2,326,118; Aug. 10.
Heat-treatment apparatus. R. L. Patterson. 2,326,163; Aug. 10.
Heater: *See*—
Petroleum heater.
Heating apparatus. B. Goerg. 2,326,351; Aug. 10.
Heating apparatus, Automotive vehicle. E. L. Mayo. 2,326,242; Aug. 10.
Heating method and apparatus for compartment. R. R. Anderson. 2,326,318; Aug. 10.
Holder: *See*—
Fishpole holder.
Holder for electrically heated tools. A. H. Shangle. 2,326,572; Aug. 10.
Holder for stropping razor blades. L. E. Hansen. 2,326,639; Aug. 10.
Honing mechanism. A. Weiland. 2,326,711; Aug. 10.
Hood, Black-out. K. M. Hale. 2,326,354; Aug. 10.
Hood locking construction, Motor vehicle. J. W. Greig. 2,326,533; Aug. 10.
Hood, Welder's. F. H. Markgraf, Jr., and J. M. Fay. 2,326,376; Aug. 10.
Hose connection for vacuum cleaners and the like. W. J. Clements. 2,326,439; Aug. 10.
Hot beverage dispenser. J. P. Vukasinovich. 2,326,420; Aug. 10.
Hydraulic pressure transmission system. P. S. Baldwin. 2,326,116; Aug. 10.
Hydraulic reverse scraper. J. Blecha. 2,326,197; Aug. 10.
Hydraulic transmission. R. M. Schaefer and W. F. Shurts. 2,326,570; Aug. 10.
Hydrocarbon, Conversion of. J. C. Munday. 2,326,553; Aug. 10.
Hydrocarbons, Conversion of. G. Egloff. 2,326,628; Aug. 10.
Hydrocarbons, Conversion of. C. W. Watson. 2,326,186; Aug. 10.
Hydrocarbons, Treatment of conjugated diene. D. Craig. 2,326,440; Aug. 10.
Hydrocarbons, Treating. C. S. Clarke. 2,326,438; Aug. 10.
Impact tool. F. P. Forss. 2,326,347; Aug. 10.
Impact wrench. L. A. Amtsberg. 2,326,317; Aug. 10.
Impregnating method. J. A. Lignian. 2,326,372; Aug. 10.
Impulse transmitting device. H. F. Obergfell and H. Sengebusch. 2,326,388; Aug. 10.
Insecticide. S. I. Gertler and H. L. J. Haller. 2,326,350; Aug. 10.
Insole machine. F. E. Bertrand. 2,326,119; Aug. 10.
Instrument for measuring liquids. L. G. Zachos. 2,326,111; Aug. 10.
Insulation. Manufacturing fibrous. G. B. Brown. 2,326,517; Aug. 10.
Internal combustion and apparatus therefor. A. M. Thomsen. 2,326,266; Aug. 10.
Internal combustion engine. J. O. Camp. 2,326,329; Aug. 10.
Isocyanates. W. Siefken and A. Doser. 2,326,501; Aug. 10.
Isoforming. E. W. Thiele and G. E. Schmitkons. 2,326,703; Aug. 10.
Isoforming. E. W. Thiele, G. E. Schmitkons, and C. M. Hull. 2,326,705; Aug. 10.
Jaw crusher. O. C. Gruender. 2,326,215; Aug. 10.
Joint and jar, Combined safety. J. G. Richey.. 2,326,394; Aug. 10.
Jug, Thermal. J. D. Brown. 2,326,434; Aug. 10.
Key, Container opening. E. E. Zabler. 2,326,191; Aug. 10.
Knife, Adjustable slicing. L. H. Rezos. 2,326,563; Aug. 10.
Knockdown flat offset gauge. E. Ernst. 2,326,448; Aug. 10.
Label attaching machine. H. F. Caldwell. 2,326,436; Aug. 10.
Labor saving report pad. W. Shaver. 2,326,573; Aug. 10.
Lamp: *See*—
Electric dispenser. Hand lamp.
Lamp for sound recording, Vapor. A. G. Foote. 2,326,346; Aug. 10.
Lasting machine. T. P. Courchene. 2,326,123; Aug. 10.
Latch opening and window actuating mechanism. L. J. Gouin. 2,326,456; Aug. 10.
Lead sulphate from titanium salt solutions, Removing. C. R. Wicker. 2,326,592; Aug. 10.
Lighter, Cigar. J. H. Cohen. 2,326,333; Aug. 10.
Lighting device. H. G. King. 2,326,364; Aug. 10.
Liquid control apparatus. A. Matthews. 2,326,475; Aug. 10.
Liquid dispensing apparatus. A. L. Grisé. 2,326,636; Aug. 10.

Liquid dispensing device, Automatic. B. F. Titus. 2,326,415; Aug. 10.
Liquid level gauge. G. H. Zenner. 2,326,511; Aug. 10.
Lock: *See*—
Tumbler type lock.
Lock. R. S. Gold and J. Stadler. 2,326,635; Aug. 10.
Lubricant. F. C. Gzemski. 2,326,140; Aug. 10.
Lubricant. J. C. Zimmer and A. J. Morway. 2,326,596; Aug. 10.
Lubricating device for cork-rod packing machines. J. M. Binder. 2,326,428; Aug. 10.
Lure, Automatic fishhook. E. P. Charpentier. 2,326,620; Aug. 10.
Machine for making long playing sound records. H. P. Clausen. 2,326,332; Aug. 10.
Machine for making socket pins. A. J. Kosha. 2,326,660; Aug. 10.
Machine for piercing tubes. G. M. Hartsock and H. S. Rounds. 2,326,536; Aug. 10.
Machine for sealing receptacles. H. C. Harrison and J. B. Little. 2,326,296; Aug. 10.
Machine for shaping shoe uppers over lasts. C. W. Baker. 2,326,193; Aug. 10.
Machine tool. R. L. Kuehn. 2,326,467; Aug. 10.
Machine tool. R. L. Kuehn. 2,326,541; Aug. 10.
Machine tool coolant system. W. F. Groene and H. J. Siekmann. 2,326,638; Aug. 10.
Machine tool feed, Hydropneumatic. R. Rodal. 2,326,498; Aug. 10.
Magazine, Blade. H. W. Bryan. 2,326,202; Aug. 10.
Magnetic separator. R. H. Stearns. 2,326,575; Aug. 10.
Marine boiler regulator. W. E. Proctor. 2,326,560; Aug. 10.
Marine foundation. H. E. Gross. 2,326,353; Aug. 10.
Marking. T. Barish. 2,326,604; Aug. 10.
Marking and combined marking and spreading machine. E. F. Hansen. 2,326,459; Aug. 10.
Marking machine. T. Barish. 2,326,603; Aug. 10.
Material handling apparatus. E. A. Drott and J. H. Kerber. 2,326,338; Aug. 10.
Material, Process and apparatus for handling. A. O. Russell. 2,326,173; Aug. 10.
Materials, Method and apparatus for feeding hygroscopic and reactive. S. Z. Avedikian. 2,326,276; Aug. 10.
Mattress covering. M. M. Cunningham. 2,326,441; Aug. 10.
Mattress frame elevating and lowering mechanism for cribs. W. J. McNabb and W. R. Cochrane. 2,326,379; Aug. 10.
Measuring instrument. W. L. Johnson. 2,326,363; Aug. 10.
Measuring instrument for determining angles and the like. B. V. Beatty. 2,326,518; Aug. 10.
Metal attenuating process and apparatus. M. E. Evans. 2,326,629; Aug. 10.
Metal-casting method and apparatus. P. M. Payne. 2,326,164; Aug. 10.
Metal coating composition. G. M. Black. 2,326,120; Aug. 10.
Metal forming device. B. Lermont and A. M. Wolf. 2,326,470; Aug. 10.
Meter: *See*—
Fluid delivery meter.
Method of and apparatus for concentrating liquid products. J. M. Hall. 2,326,142; Aug. 10.
Method and apparatus for detecting progressive fractures or the like in heavily stressed working members. G. R. Greenslade. 2,326,352; Aug. 10.
Method of and apparatus for hard facing. R. C. Snyder. 2,326,403; Aug. 10.
Method and apparatus for making photographic montages. F. H. Krug. 2,326,367; Aug. 10.
Method and composition for the treatment of air. G. S. Paschal. 2,326,672; Aug. 10.
Method relating to protecting plants and the like and to producing means for such purposes. S. V. Lundback and B. H. E. Nilsson. 2,326,472; Aug. 10.
Methyl methacryiate molding composition. M. L. Macht. 2,326,543; Aug. 10.
Micrometer, Outside. W. A. Semerak. 2,326,571; Aug. 10.
Mineral oil composition and improving agent therefor. O. M. Reiff. 2,326,496; Aug. 10.
Mirror, Rear-view. C. E. Allen. 2,326,316; Aug. 10.
Mold and making the same. J. F. and W. J. Kelly. 2,326,730; Aug. 10.
Molding composition, Phenolic. F. Rosenthal. 2,326,569; Aug. 10.
Motor control. S. T. Moreland and P. C. Tracy. 2,326,382; Aug. 10.
Motor operator assembly. S. C. Shipley, W. H. Ingersoll, and B. Cyr. 2,326,692; Aug. 10.
Mounting: *See*—
Camera mounting. Thermometer bulb mounting.
Gun barrel mounting.
Nut, Lock. I. Richardson. 2,326,681; Aug. 10.
Nut, Lock. W. and C. C. Shippee. 2,326,261; Aug. 10.
Nut retainer. J. P. Burke. 2,326,285; Aug. 10.
Oil composition, Stabilized mineral. R. C. Moran. 2,326,483; Aug. 10.
Oil, Continuous process of decolorizing lubricating. W. P. Gee. 2,326,294; Aug. 10.
Oil, Dielectric or insulating. H. G. Berger, L. A. Hamilton, and E. W. Fuller. 2,326,324; Aug. 10.
Oil distributor assembly. J. H. Nelson. 2,326,161; Aug. 10.
Oil with decolorizing earth in the presence of naphtha, Decolorizing. W. P. Gee. 2,326,295; Aug. 10.
Oils, Treatment of hydrocarbon. G. Egloff and V. Komarewsky. 2,326,627; Aug. 10.
Package for dispensing interfolded sheets. F. L. Broeren. 2,326,433; Aug. 10.
Package, Vacuum. S. R. Howard. 2,326,649; Aug. 10.
Packing, Hydraulic. J. H. Halstead. 2,326,355; Aug. 10.
Packing, Machinery. B. J. Bush. 2,326,286; Aug. 10.
Pad: *See*—
Labor saving report pad.
Paint burning and scraping tool. J. S. Fagan. 2,326,630; Aug. 10.
Pan, Baking. J. D. McDonald. 2,326,546; Aug. 10.
Panel, Laminated glazing. B. J. Dennison. 2,326,203; Aug. 10.
Panel structure. F. Van Cleef. 2,326,581; Aug. 10.
Paper fastener. O. A. Krenke. 2,326,366; Aug. 10.
Percussion tool. D. L. Garrett. 2,326,136; Aug. 10.
Petroleum emulsions, Breaking. G. Allen. 2,326,599; Aug. 10.
Petroleum emulsions, Breaking. G. Allen. 2,326,602; Aug. 10.
Petroleum heater. R. S. Lyster. 2,326,473; Aug. 10.
Petroleum heater. F. H. Praeger. 2,326,492; Aug. 10.
Phonograph. M. J. Di Toro. 2,326,625; Aug. 10.
Phonograph, Automatic. J. Gabel. 2,326,633; Aug. 10.
Phonograph stylus. L. J. Andres. 2,326,424; Aug. 10.
Phonograph stylus. S. E. Pate. 2,326,389; Aug. 10.
Phonographic apparatus. F. E. Runge. 2,326,499; Aug. 10.
Phosphate coatings on ferrous metal articles, Producing. G. C. Romig. 2,326,309; Aug. 10.
Photographic and cinematographic multicolor images of correct color value. W. Schneider, H. Schulze, and G. Wilmanns. 2,326,500; Aug. 10.
Photographic enlarger. A. A. Leonard. 2,326,542; Aug. 10.
Picture device, Animated. E. Schwartz. 2,326,397; Aug. 10.
Pigment, Extended titanium dioxide. A. T. McCord and H. F. Saunders. 2,326,158; Aug. 10.
Pigments, Making titanium containing. A. T. McCord. 2,326,156; Aug. 10.
Pile, Constructing a. J. F. McCook. 2,326,155; Aug. 10.
Pipe: *See*—
Smoker's pipe.
Pipe cutting gauge. R. T. Enderson. 2,326,447; Aug. 10.
Pipe fitting, Dual flow. E. J. Wood. 2,326,716; Aug. 10.
Piston skirt expander. C. A. and M. W. Marien. 2,326,375; Aug. 10.
Piston valve. H. J. Shafer. 2,326,398; Aug. 10.
Plastic body, Molded. M. C. Dodge. 2,326,526; Aug. 10.
Plug: *See*—
Circuit breaking plug.
Plug fuse receptacle structure. E. W. Landmeier. 2,326,370; Aug. 10.
Polyamino sulphur compound, Complex. W. F. Hester. 2,326,643; Aug. 10.
Polymerization. J. Breedis. 2,326,326; Aug. 10.
Potato drying apparatus. A. F. Arthur. 2,326,115; Aug. 10.
Power transmission mechanism. P. Whitcomb and H. S. Moore. 2,326,508; Aug. 10.
Preloader for fluid operated devices. H. T. Kraft. 2,326,300; Aug. 10.
Preparation and use of sugar refining adsorbent. W. A. La Lande, Jr. 2,326,369; Aug. 10.
Preparation of catalysts of hydrogenation. J. Zeltner. 2,326,275; Aug. 10.
Preparation of composite fabric. J. E. Bludworth. 2,326,121; Aug. 10.
Preparation of laminating fabric. W. Whitehead. 2,326,190; Aug. 10.
Press: *See*—
Forging press. Testing press.
Pressure alkylation reaction, High. H. G. Vesterdal. 2,326,585–6–7; Aug. 10.
Pressure regulator valve. J. P. Johnson. 2,326,462; Aug. 10.
Printing and ink therefor, Multicolor. F. E. Barmeier. 2,326,321; Aug. 10.
Projectile. W. J. Landen. 2,326,147; Aug. 10.
Propeller manufacture. W. J. Blanchard. 2,326,430; Aug. 10.
Protector for automobiles, Pneumatic. C. B. Strauch. 2,326,720; Aug. 10.
Protection of alternating current electric power systems. P. H. Light. 2,326,149; Aug. 10.
Protector for plants and the like. A. Mierson. 2,326,548; Aug. 10.
Protein recovery. L. W. Bass and H. S. Olcott. 2,326,195; Aug. 10.
Proteolytic bating composition. J. Pfannmuller and H. Schleich. 2,326,306; Aug. 10.
Psychrometer. J. Crapez. 2,326,124; Aug. 10.

Pulley, Variable pitch. P. F. Koch. 2,326,468; Aug. 10.
Pump: *See*—
Diaphragm pump.
Submerged double acting pump.
Pumping unit. H. H. Ingersoll. 2,326,360; Aug. 10.
Rack: *See*—
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Radial cylinder motor and the like. D. G. Jones. 2,326,464; Aug. 10.
Radioactive unit and producing the same. A. Fischer. 2,326,631; Aug. 10.
Railway traffic controlling apparatus. R. K. Crooks. 2,326,622; Aug. 10.
Receptacle for electric wiring systems. P. Hutt. 2,326,538; Aug. 10.
Receptacle for vacuum cleaners, Collection. W. V. Paine. 2,326,731; Aug. 10.
Recorder, Phonograph. J. L. Morrison. 2,326,667; Aug. 10.
Records device, Visible. A. M. Martin. 2,326,241; Aug. 10.
Recovery of phenol in gas purification systems. W. E. Chalfant and H. F. McConomy. 2,326,122; Aug. 10.
Rectifying apparatus for electrical precipitators. M. A. Lissman. 2,326,237; Aug. 10.
Reel: *See*—
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Reflector, Reflex light. M. L. Gebhard, H. Heltzer, J. E. Clarke, and E. P. Davis. 2,326,634; Aug. 10.
Refrigerator. N. Erland af Kleen. 2,326,130; Aug. 10.
Register, Autographic. H. J. Waechter. 2,326,108–9–10; Aug. 10.
Regulator: *See*—
Marine boiler regulator.
Removal of mud cake in casing cement jobs. J. U. Teague and G. E. Cannon. 2,326,577; Aug. 10.
Resin manufacture, Powdered. E. P. Irany. 2,326,539; Aug. 10.
Resin, Urea-formaldehyde. P. O. Tawney. 2,326,265; Aug. 10.
Resins, Plasticizing thermosetting. P. C. Schroy. 2,326,728; Aug. 10.
Resinous compositions, Coloring of synthetic. W. E. F. Gates. 2,326,531; Aug. 10.
Resistance material. C. H. Trenkle. 2,326,580; Aug. 10.
Retainer. J. J. Sindler. 2,326,693; Aug. 10.
Reversing mechanism. E. H. Ratzburg. 2,326,494; Aug. 10.
Riboflavin by butyl alcohol producing bacteria, Production of. C. F. Arzberger. 2,326,425; Aug. 10.
Ring: *See*—
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Road working machine. V. H. Reisser. 2,326,561; Aug. 10.
Roller assembly, Rockable. O. T. Hovarter. 2,326,223; Aug. 10.
Roofing. G. A. Fasold and H. W. Greider. 2,326,723–4; Aug. 10.
Rotary cutting and granulating machine. F. M. Roddy. 2,326,682; Aug. 10.
Rubber, Vulcanization of. A. M. Neal and B. M. Sturgis. 2,326,555; Aug. 10.
Running board. C. B. Alvord. 2,326,600; Aug. 10.
Safety governor for pneumatic tools. R. J. Schaedler. 2,326,396; Aug. 10.
Safety mechanism. C. H. Adams. 2,326,423; Aug. 10.
Saturator. G. J. Meyer. 2,326,243; Aug. 10.
Saw teeth, Induction hardening of. H. A. Pavitt. 2,326,674; Aug. 10.
Scale, Bathroom weighing. P. J. Kircher. 2,326,365; Aug. 10.
Scraper, Paraffin. B. J. Festervan and N. F. Henderson. 2,326,528; Aug. 10.
Scraper, Roof. F. N. Bard. 2,326,514; Aug. 10.
Seal, Liquid. F. E. Payne. 2,326,489; Aug. 10.
Sealing bottles and the like. A. Burkardt. 2,326,722; Aug. 10.
Sealing ring. V. I. McCarthy. 2,326,545; Aug. 10.
Seismic circuit. W. H. Mayne. 2,326,153; Aug. 10.
Selection system. L. A. Meacham. 2,326,478; Aug. 10.
Selecting system. M. E. Mohr. 2,326,551; Aug. 10.
Selection system. N. I. Hall. 2,326,458; Aug. 10.
Self-sealing detachable coupling. G. H. Hufferd. 2,326,143; Aug. 10.
Sensing apparatus. E. S. Larson and E. J. Skeppstrom. 2,326,148; Aug. 10.
Separator: *See*—
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Steam separator.
Separator and making the same, Composition, storage battery. B. H. Schubert. 2,326,690; Aug. 10.
Sewage treatment. F. N. Moerk and G. M. Eisenberg. 2,326,303; Aug. 10.
Shade cutter. A. K. Gast. 2,326,293; Aug. 10.
Shaft connection, Flexible. T. L. Fawick. 2,326,450; Aug. 10.
Shaft driving mechanism. R. L. Wilcox. 2,326,273; Aug. 10.
Shaft milling and grinding machine. O. D. Premo. 2,326,391; Aug. 10.
Shaft sinking apparatus. J. M. Riddell. 2,326,172; Aug. 10.
Sharpener. W. J. Duncan. 2,326,626; Aug. 10.
Shaving device. M. and M. G. Andis, Jr. 2,326,192; Aug. 10.
Shears. F. B. Seeberger. 2,326,178; Aug. 10.
Sheave and pressure rider. J. C. Patterson, Jr. 2,326,670–1; Aug. 10.
Shielding device. W. J. Wesseler. 2,326,713; Aug. 10.
Shock absorber. B. L. Mallory. 2,326,665; Aug. 10.
Shoe and outsole therefor. J. E. Harding. 2,326,216; Aug. 10.
Shoe and the like. S. Brandel and H. Perrot. 2,326,198; Aug. 10.
Shoe sewing machine. B. T. Leveque. 2,326,726; Aug. 10.
Shoe sewing machine. C. F. Whitaker. 2,326,272; Aug. 10.
Shoe tongue forming apparatus. A. Johnson. 2,326,656; Aug. 10.
Side wall sampling device for well bores. L. Spencer. 2,326,405; Aug. 10.
Signal translating apparatus. H. J. Hasbrouck, Jr. 2,326,460; Aug. 10.
Signaling system. L. L. Eagon and B. McKim. 2,326,545; Aug. 10.
Signaling system, Alternating current. B. M. Hadfield. 2,326,457; Aug. 10.
Silencer. R. B. Bourne. 2,326,612–3; Aug. 10.
Silencer. R. B. Bourne and J. P. Tyskewicz. 2,326,613; Aug. 10.
Size reduction and stabilization of oil thickening polymers. D. W. Young and C. C. Swoope. 2,326,595; Aug. 10.
Sizing device for machining operations. H. A. Dudgeon. 2,326,339; Aug. 10.
Slack adjuster for railway brakes. J. J. McBride. 2,326,377; Aug. 10.
Smoker's pipe. A. Koenigsamen. 2,326,658; Aug. 10.
Solenoid switch. L. B. Ehrlich. 2,326,342; Aug. 10.
Sound recording apparatus. E. F. Rigby and C. E. Leedy. 2,326,564; Aug. 10.
Spar. W. J. DeShong. 2,326,289; Aug. 10.
Speed exhibiting device. E. C. Nicholides. 2,326,247–8; Aug. 10.
Speed indicating and recording device. E. C. Nicholides. 2,326,246; Aug. 10.
Speed unit and pulley therefor, Variable. P. B. Reeves. 2,326,392; Aug. 10.
Spill board. V. I. Dudley. 2,326,444; Aug. 10.
Sprayer device. W. H. Rose. 2,326,568; Aug. 10.
Spreader leg and drag. N. J. Boehm and D. E. Staub. 2,326,325; Aug. 10.
Spreader, surface coater, and the like, Glue. J. E. and R. S. Black. 2,326,429; Aug. 10.
Spring clip. A. E. Pelz. 2,326,558; Aug. 10.
Square, Precision. P. J. Rensen. 2,326,562; Aug. 10.
Stall partition. F. J. and L. J. Van Cott. 2,326,582; Aug. 10.
Stand: *See*—
Display stand. Telephone stand.
Steam generator. E. G. Bailey and A. E. Raynor. 2,326,513; Aug. 10.
Steam separator. P. B. Place. 2,326,491; Aug. 10.
Stereoscope. G. M. Mast. 2,326,718; Aug. 10.
Stitch-transfering device. J. Sirmay. 2,326,694; Aug. 10.
Stopper and siphon, Bottle. E. W. Heeter and R. C. Woodhead. 2,326,641; Aug. 10.
Stopper, Bottle. S. R. Dummer. 2,326,340; Aug. 10.
Storage battery separator. B. H. Schubert. 2,326,689; Aug. 10.
Storage container. J. F. Thompson. 2,326,414; Aug. 10.
Storage rack. C. H. Waycott, Sr. 2,326,710; Aug. 10.
Strap fastener. P. L. Bush. 2,326,328; Aug. 10.
Stretcher, Carpet. J. D. Bartlow. 2,326,117; Aug. 10.
Structural elements. M. Sasso. 2,326,668; Aug. 10.
Structure having a folding support surface. H. Howe. 2,326,461; Aug. 10.
Submerged double acting pump. L. L. McConnohie. 2,326,378; Aug. 10.
Suction cleaning apparatus. C. H. Taylor. 2,326,311; Aug. 10.
Support: *See*—
Awning belt center support.
Support of tractors, Springy. C. H. Köhn. 2,326,659; Aug. 10.
Supporting apparatus. W. C. Eddy. 2,326,207; Aug. 10.
Supporting device. W. G. Leichner. 2,326,469; Aug. 10.
Switch: *See*—
Double action safety switch. Electric switch.
Solenoid switch.
Switching mechanism. A. W. Horton, Jr. 2,326,647; Aug. 10.
Tank fitting. H. W. Steiner. 2,326,263; Aug. 10.
Tape-controlling arrangement. D. F. Newman. 2,326,386; Aug. 10.
Telemetric apparatus. F. B. Bristol. 2,326,200; Aug. 10.
Telephone stand. D. E. White. 2,326,591; Aug. 10.
Telephone system, Party line. J. B. Retallack. 2,326,679; Aug. 10.

Telephony system, Multiplex. J. J. Z Van Zelst. 2,326,584; Aug. 10.
Telescope, Astronomical. H. F. Morse. 2,326,552; Aug. 10.
Telescoping gauge. G. T. Swinney. 2,326,410; Aug. 10.
Television system. E. H. B. Bartelink. 2,326,515; Aug. 10.
Tensioning apparatus. G. E. Henning and J. A. Wagner. 2,326,220; Aug. 10.
Testing press. W. Ernst and I. B. Lawyer. 2,326,345; Aug. 10.
Therapeutic product and making it. U. J. Thuau. 2,326,578; Aug. 10.
Thermal relay for fluorescent lamps. H. J. McCarthy. 2,326,154; Aug. 10.
Thermometer bulb mounting. E. H. Hart. 2,326,217; Aug. 10.
Thermostat. F. D. Joesting. 2,326,226; Aug. 10.
Thread from cellulose acetate, Production of curled. G. Rutishauser. 2,326,174; Aug. 10.
Thread or the like, Manufacture of R. D. MacLaurin and E. B. Helm. 2,326,150; Aug. 10.
Thread tensioning device. F. Wholton. 2,326,714; Aug. 10.
Timing device for power transmission systems. H. F. Vickers. 2,326,184; Aug. 10.
Tire chain assembly. E. W. Carlson and C. H. Brainard. 2,326,618; Aug. 10.
Tire for vehicles, Resilient. W. A. Owen. 2,326,488; Aug. 10.
Tire tool. H. J. Leidel. 2,326,234; Aug. 10.
Titanium pigment composition and making the same. S. P. Todd, H. F. Saunders, and F. C. Verduin. 2,326,182; Aug. 10.
Tongs. G. S. Peters. 2,326,676; Aug. 10.
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Fastener driving tool.
Impact tool.
Machine tool.
Percussion tool.
Tire tool.
Torch tip assembling tool.
Tool. W. U. Watson. 2,326,709; Aug. 10.
Tool for bridging plugs, Setting. I. M. Spangler. 2,326,404; Aug. 10.
Tool for cement retainer, Setting. F. A. Taylor and L. Spencer. 2,326,411; Aug. 10.
Toothbrush, Interchangeable. B. Friedman. 2,326,632; Aug. 10.
Torch tip assembling tool. A. F. Jenkins. 2,326,362; Aug. 10.
Toy, Dancing. J. G. Jeffrey. 2,326,225; Aug. 10.
Toy machine gun. R. C. Flynt and U. K. Butler. 2,326,530; Aug. 10.
Track and grouser therefor. R. Mayne. 2,326,477; Aug. 10.
Track release mechanism. E. F. Norelius. 2,326,486; Aug. 10.
Transfer mechanism for accumulators. C. M. Sincerbeaux. 2,326,401; Aug. 10.
Translating device. B. B. Bauer. 2,326,280; Aug. 10.
Transmission of sound and conversation. F. Roberts and A. W. Bennett. 2,326,253; Aug. 10.
Tread crank mechanism, particularly for cycles. F. Lienhard. 2,326,235; Aug. 10.
Trimming machine. S. R. Keller. 2,326,227; Aug. 10.
Truing apparatus. L. J. Lallme. 2,326,661; Aug. 10.
Tub, Bath. A. H. Haberstump. 2,326,534; Aug. 10.
Tube and coupling. J. R. Dorman. 2,326,292; Aug. 10.
Tumbler type lock. H. L. Hull. 2,326,358; Aug. 10.
Turbine apparatus. E. A. Zetterquist. 2,326,112; Aug. 10.
Turbine blade fastening. R. P. Kroon. 2,326,145; Aug. 10.
Turbo transmission. J. Jandasek. 2,326,655; Aug. 10.
Turret, Multiple chuck. R. G. Le Tourneau. 2,326,371; Aug. 10.
Twisting machine. F. P. A. Corda. 2,326,621; Aug. 10.
Type wheel stop unit. E. W. Hewitt. 2,326,298; Aug. 10.
Typewriting and like machine. E. S. Dodge and J. Tobin. 2,326,291; Aug. 10.
Typewriting and like machine. R. G. Thompson. 2,326,312; Aug. 10.
Typewriting machine. O. J. Sundstrand. 2,326,409; Aug. 10.
Utility bag. M. Freedland. 2,326,452; Aug. 10.
Vacuum pan. J. R. Carreras. 2,326,619; Aug. 10.
Valve: *See*—
Float valve.
Piston valve.
Pressure regulator valve.
Valve. J. W. Overbeke. 2,326,487; Aug. 10.
Valve and operating the same. E. A. Rutledge. 2,326,686; Aug. 10.
Valve structure for protective masks, Exhalation. H. A. Husted. 2,326,651; Aug. 10.
Variable condenser. G. M. Ehlers and G. Kodama. 2,326,341; Aug. 10.
Vegetable washing machine. W. H. Haslam. 2,326,356; Aug. 10.
Vehicle construction, Motor. E. C. Horton. 2,326,357; Aug. 10.
Ventilator for refrigerator cars, Hatch. J. S. Lundvall. 2,326,664; Aug. 10.
Vessel, High-pressure. J. Schierenbeck. 2,326,176; Aug. 10.
Vessel, Measuring. F. C. Johnston. 2,326,144; Aug. 10.
Vitamin preparation. K. C. D. Hickman. 2,326,644; Aug. 10.
Wall for buildings. R. Nichols and J. A. Desmone. 2,326,245; Aug. 10.
Wallboard fastener. S. H. Tummins. 2,326,506; Aug. 10.
Washing machine, Sea food. C. B. Nelson. 2,326,485; Aug. 10.
Water-soluble nitrogen-containing heterocycle compounds. O. Riester and G. Wilmanns. 2,326,497; Aug. 10.
Web tensioning for web splicing machines. C. L. Ricards. 2,326,680; Aug. 10.
Welding apparatus. W. A. Weightman. 2,326,590; Aug. 10.
Well depth recording. J. T. Hayward. 2,326.219; Aug. 10.
Well pumping apparatus. E. W. Rearwin. 2,326,170; Aug. 10.
Wheel: *See*—
Clear vision steering wheel.
Forged car wheel.
Wheeled golf club carrier. W. C. Moffitt. 2,326,482; Aug. 10.
Window cleaning apparatus. W. L. Kraemer. 2,326,231; Aug. 10.
Window construction. O. F. Graebner. 2,326,532; Aug. 10.
Windshield attachment. J. Vavroch. 2,326,267; Aug. 10.
Windshield wiper arm. T. J. Smulski. 2,326,402; Aug. 10.
Windshield wiper mechanism. E. W. Fuller and O. Morgensen, Jr. 2,326,349; Aug. 10.
Wrench: *See*—
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Wringer, Clothes. S. E. Schroeder. 2,326,259; Aug. 10.
Yarn winding mechanism. B. A. Peterson. 2,326,307; Aug. 10.

CLASSIFICATION OF PATENTS

ISSUED AUGUST 10, 1943

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

1— 1: 2,326,293; 39: 2,326,254; 49: 2,326,540
2— 8: 2,326,376; 37: 2,326,476; 59: 2,326,422; 224: 2,326,380
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This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

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Drawings

RULE 38

38. When there are drawings, the description will refer to the different views by figures and to the different parts by letters or numerals (preferably the latter).

RULE 52—EXTRACT

(*f*) The different views should be consecutively numbered. Letters and figures of reference must be carefully formed. They should, if possible, measure at least one-eighth of an inch in height, so that they may bear reduction to one twenty-fourth of an inch; and they may be much larger when there is sufficient room. They must be so placed in the closed and complex parts of drawings as not to interfere with a thorough comprehension of the same, and therefore should rarely cross or mingle with the lines. When necessarily grouped around a certain part, they should be placed at a little distance, where there is available space, and connected by short lines with the parts to which they refer and by short broken lines when the number or letters refer to parts shown in dotted lines. They should not be placed upon shaded surfaces, and when it is difficult to avoid this, a blank space must be left in the shading where the letter occurs, so that it shall appear perfectly distinct and separate from the work. If the same part of an invention appears in more than one view of the drawing it must always be represented by the same character, and the same character must never be used to designate different parts.

It is suggested that numerals or letters be used without exponents.

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed.

Pat. 2,284,244, J. W. Allquist, Process and apparatus for winding filaments, decided July 15, 1943, claims 1, 2, 3, 4, 5, 6, 7, 8, and 9.

Pat. 2,300,433, R. C. Palmer, Ester of hydrogenated polymerized rosin and method of making the same, decided July 23, 1943, claims 1, 8, 10, 11, and 12.

Notices of Cancellation

U. S. PATENT OFFICE, *Richmond, Va., July 17, 1943*

John N. Melahoures, his assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Theodoros S. Dooganiotis, 103 Liberty St., Newburgh, N. Y., to effect the cancellation of trade-mark registration of John N. Melahoures, 108 William St., Newburgh, N. Y., No. 306,695, dated September 26, 1933, and the notice of such proceeding sent by registered mail to the said John N. Melahoures at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said John N. Melahoures, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

U. S. PATENT OFFICE, *Richmond, Va., July 28, 1943.*

Louis Hobart Pierce, his assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Cluett, Peabody & Co., Inc., Troy, N. Y., to effect the cancellation of trade-mark registration of Louis Hobart Pierce, Pierce Park, Lebanon, Pa., No. 203,391, dated September 15, 1925, and the notice of such proceeding sent by registered mail to the said Louis Hobart Pierce at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said Louis Hobart Pierce, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

Conditions of Applications Under Examination at Close of Business July 31, 1943

(Total number of applications awaiting action, excluding Trade-Mark Division, 39,830; Trade-Mark Division, 1009. Oldest new case, Sept. 21 1942; oldest amended, Oct. 7, 1942.)
(The dates given are 1943 except where † indicates 1942)

Divisions, Examiners, and Subjects of Inventions	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
1. TUCKER, M. W., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Domestic Cooking Vessels; Sewerage.	Apr. 10	Apr. 17	255
2. HERRMANN, D., Fishing and Trapping; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Textile Wringers; Butchering.	Apr. 14	Mar. 23	271
3. WOLFFE, S., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	†Oct. 28	†Oct. 28	961
4. BISHOP, WALTER C., Conveyors; Hoists; Handling Apparatus; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds; Pneumatic Dispatch; Store Service; Mining, Quarrying and Ice Harvesting.	Feb. 11	Feb. 8	445
5. ROBINSON, C. W., Harvesters; Music; Acoustic; Sound Recording; Knotters; Buckles, Buttons, Clasps.	Jan. 14	Jan. 16	495
6. GENIESSE, E. W., Carbon Chemistry (part)	Jan. 1	Jan. 15	1000
7. JARBOE, C. G., Optics, Photography	Feb. 19	Mar. 1	746
8. ADAMS, F. L., Furniture; Kitchen and Table Articles; Racks and Cabinets	Feb. 4	Feb. 5	535
9. BENSON, R. B., Pumps and Fans; Fluid and Fluid-Current Motors	Jan. 19	Jan. 9	750
10. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	Jan. 13	Jan. 14	348
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Stop Mechanisms	Jan. 29	Jan. 20	352
13. DONNELLY, A. E., Metal Working (part); Gear Cutting, Milling and Planing; Needle and Pin Making	Feb. 2	Feb. 5	577
14. HANLIN, GEORGE, Metal Working (part); Farriery; Wire Fabrics	Mar. 4	Mar. 22	507
15. HENKIN, BENJ., Glass, Plastic Block and Earthenware Apparatus; Plastics	Jan. 14	Feb. 1	785
16. SPENCER, C. J., Telegraphy; Telephony	†Dec. 26	†Dec. 24	594
17. HABECKER, LEON B., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet or Web Feeding; Type Setting.	†Oct. 26	†Oct. 14	704
18. KURZ, J. A., Motors, Expansible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal Combustion Engines.	†Dec. 11	†Dec. 12	579
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	†Nov. 21	†Nov. 21	529
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Undertaking; Bread, Pastry, and Confection Making; Laminated Fabrics (part).	Feb. 8	Feb. 9	486
21. THOMPSON, T. J., Textiles	Feb. 27	Mar. 3	299
22. RINGLE, D., Aeronautics; Firearms; Ordnance and Explosive Devices	†Oct. 26	†Oct. 26	1806
23. BARROWS, B., Cash Registers; Calculators (part)	Jan. 21	Feb. 4	165
24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines	Apr. 8	Apr. 17	436
25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Feb. 3	Jan. 12	565
26. YOUNG, R. R., Electricity—Generation and Motive Power	†Dec. 10	†Dec. 21	786
27. CLARK, W. N., Brush, Broom, and Mop Making; Brushing, Scrubbing and General Cleaning; Textiles, Fluid Treating Apparatus; Ironing; Washing Apparatus.	†Nov. 20	†Dec. 8	541
28. SOLYOM, H. L., Internal-Combustion Engines (part); Cylinders and Pistons	†Nov. 16	†Nov. 5	662
29. SHKLARIN, J. B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Package and Article Carriers; Woodworking; Tools; Metal Working, Assembling.	Mar. 6	Mar. 24	408
30. McCANN, LEO P., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	May 3	Apr. 20	271
31. DUNCOMBE, C. S., Hydrocarbons; Mineral Oils	Feb. 8	Feb. 15	1350
32. LESH, K., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; Earth Boring.	Jan. 15	Jan. 12	650
33. HULL, J. S., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements	Feb. 13	Feb. 15	646
34. SAPERSTEIN, S., Electricity—Meters and Transmission to Vehicles; Railways; Track Sanders; Signals and Indicators.	Mar. 4	Feb. 12	439
35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles	Feb. 27	Feb. 22	494
36. McFADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring	Apr. 10	Apr. 17	297
37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Mar. 4	Feb. 25	422
38. KRAFFT, C. F., Coating Processes; Coating or Plastic Compositions (part)	Feb. 1	Dec. 17	615
39. WHITNEY, F. L., Fluid-Pressure Regulators; Valves; Water Distribution	Apr. 12	Apr. 3	396
40. DRUMMOND, E. J., Receptacles	Apr. 21	May 1	433
41. HERTZ, M., Coin Handling; Recorders; Deposit Receptacles; Counters and Calculators (part); Typewriting Machines; Check-Controlled Apparatus.	Feb. 11	Feb. 5	389
42. MARANS, H., Electric Signaling	Apr. 15	Apr. 21	353
43. FEDERICO, P. J., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Fluid Treatment of Textiles; Azo Compounds.	†Oct. 19	†Oct. 19	822
44. HARVEY, L. P., Refrigeration	Feb. 3	†Nov. 21	256
45. HILL, H. D., Shafting and Flexible Shaft Couplings; Wheels and Axles; Resilient Tires and Wheels; Lubrication; Bearings and Guides; Motors; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding; Land Vehicles (part).	Feb. 10	Feb. 19	699
46. BLEECKER, V. E., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers; Heating Systems; Coating Apparatus.	†Dec. 12	Mar. 25	370
47. KANOF, WM. J., Clutches and Power Stops; Brakes; Boring and Drilling; Land Vehicles (part)	Jan. 9	Jan. 23	974
48. ROEPKE, O. B., Electricity, General Applications; Igniters	†Dec. 26	Jan. 6	765
49. SHEFFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Purification.	Jan. 13	Feb. 1	570
50. LEVIN, SAMUEL, Resins; Rubber; Carbohydrates and Derivatives	Jan. 13	Jan. 14	1283
51. BACKUS, O. D., Radiant Energy	Jan. 1	Jan. 4	1118
52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Pipes and Tubular Conduits.	Mar. 4	Jan. 18	652
53. PECK, M. K., Label Pasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas and Canes; Curtains, Shades and Screens; Cutlery.	Feb. 24	Mar. 9	181
54. STRACHAN, O. W., Electric Lamp and Discharge Devices (part)	†Nov. 2	†Nov. 7	546
55. BOWEN, S. T., Artificial Body Members; Dentistry; Surgery	†Oct. 13	†Oct. 23	776
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Laminated Fabrics (part); Paper Making	Jan. 20	Jan. 18	722
57. NICOLSON, G. D., Toys; Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	Sept. 21	Oct. 28	461
58. DOWELL, E. F., Abrading; Bottles and Jars; Stone Working	Feb. 15	Jan. 25	552
59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds; Compositions (part).	†Oct. 3	†Oct. 7	1197
60. GLASS, R. L., Electricity, Heating and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Marine Propulsion; Consumable Electrode Lamp and Discharge Devices.	†Dec. 5	†Dec. 2	501
61. YUNG KWAI, B., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery; Laminated Electrical Insulation, Belt, Hose, Tire and Ball Making; Boats and Buoys.	†Dec. 7	Jan. 14	474
62. PUGH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors	Mar. 31	Feb. 26	456
63. WINKELSTEIN, A. H., Preserving; Poisons; Fermentation; Foods and Beverages; Proteins; Oils and Fats.	†Nov. 26	†Nov. 26	1045
64. NASH, P. M., Acetylene; Gas Mixers; Compositions (part); Distillation; Fuel	Mar. 6	Mar. 5	1062
65. McDERMOTT, F. P., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave Transmission; Telephony, Repeaters and Relays.	†Dec. 11	†Dec. 10	726
Trade Marks. RICHMOND, F. A	June 4	July 1	1009
Designs: KALUPY, H. H	June 19	July 10	290

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE THE HOOVER COMPANY (ASSIGNEE OF BERNARD C. BECKER, DECEASED)

No. 4,653. Decided March 1, 1943

[134 F.(2d) 624]

1. ESTOPPEL—RES JUDICATA AND ESTOPPEL UNDER RULE 109.

Under circumstances that Becker, the junior party in an interference involving one Heuberger, opposed the continuance of the interference upon three counts proposed by Heuberger in a motion under rule 109 on the ground that said counts were unpatentable; that the Primary Examiner found said counts to be patentable, and the interference was continued thereon; that at final hearing the Examiner of Interferences, of his own volition, ruled that Heuberger could not make such counts, and awarded priority, on that ground alone, to Becker; that this ruling was affirmed by the Board of Appeals and the Court of Customs and Patent Appeals; and that Becker thereafter presented claims to subject-matter common to his application and Heuberger's and of broader scope than the interference counts *Held* that Becker was not entitled to the broad claims under the doctrine of res judicata, but was estopped under rule 109 to make such claims.

2. SAME—RES JUDICATA—RULE 132.

The statement of Commissioner Mitchell, in interpreting rule 132, that "The Examiner, after rejecting all claims which are or could be made by the prevailing party may properly allow to the defeated party such other claims as are held to be patentable and which could not be made by the prevailing party; and that no claim should be allowed to the defeated party which could by any latitude of construction be held to embrace matter common to the structure of both parties to the interference" *Held* to represent the settled Patent Office practice and to be a fair and proper procedure.

3. SAME—SAME.

The rule of *Blackford* v. *Wilder*, 28 App. D. C. 535, 127 O. G. 1255, 1907 C. D. 491, that to the winner belongs all the common subject-matter contained in the disclosures of all the parties to an interference proceeding *Held* to have been "stated in a case where priority had been awarded on the merits, and the 'prevailing party' was not one who had been successful in the contest merely because the involved counts did not read upon the other party's disclosure."

4. SAME—SAME.

"The authorities are uniform to the effect that a question cannot be res judicata in view of a prior decision unless the issue therein was determined on its merits. * * * The Board * * * awarded priority to Becker after holding that Heuberger could not make the counts. There was no consideration upon the merits of the issue of priority of invention of any subject-matter common to both applications. * * * there was no motion to dissolve, and Becker had not questioned the right of his opponent to make the counts. The Examiner of Interferences, of his own volition, held that Heuberger could not make them, and this action was affirmed by the Board and by this court. Although the decision of the Board and of this court awarded priority to Becker, the award was upon the sole ground that Heuberger could not make the counts. The action of the Board and of this court, therefore, was equivalent to a holding that the interference had been improperly declared and was res judicata on the question of the right to make the claims involved in the interference but was not res judicata as to any common patentable subject-matter which was not there involved. The result is the same, as far as the claims involved in the interference are concerned, as though Backer had moved to dissolve the interference and the Primary Examiner had sustained the motion and dissolved the interference."

5. SAME—ESTOPPEL UNDER RULE 109.

"When Becker had the opportunity to present the instant claims under rule 109 for priority adjudication, he remained silent. Having remained silent when he should have spoken, he is estopped from speaking now. His assignee, under the circumstances stated, is not entitled to a second interference, and to sustain its contentions here would be injurious to its adversary and to Patent Office procedure."

APPEAL from the Patent Office. Affirmed.

Mr. W. D. Sellers (*Mr. Robert M. Zacharias* of counsel) for The Hoover Company (Assignee of Bernard C. Becker, Deceased).

Mr. W. W. Cochran (*Mr. E. L. Reynolds* of counsel) for the Commissioner of Patents.

BLAND, *J.*:

The Hoover Company, as assignee of Bernard C. Becker, deceased, has here appealed from the decision of the Board of Appeals of the United States Patent Office affirming that of the Primary Examiner in rejecting claims 20 to 23, inclusive, and 26 to 28, inclusive, of an application for a patent relating to a suction cleaner, such as a mechanical carpet sweeper, and particularly relating to an improved odorizer unit in such cleaner.

It is unnecessary to discuss the invention or to set out the claims, since the sole ground of rejection of the claims was that of estoppel. The subject-matter of the claims, except as hereinafter referred to, is therefore not a matter of consequence here.

The rejection on the ground of estoppel grew out of the following statement of facts:

The instant application was filed April 9, 1934. It became involved in an interference, No. 71,801, with that of one Josef F. Heuberger filed October 30, 1933. Heuberger claimed the benefit of the filing dates of two German applications filed on December 2, 1932, and January 31, 1933, respectively. Becker was therefore the junior party. He moved to dissolve the interference, which originally contained only one count, on the ground that he himself could not make the count and that it was unpatentable over art. Later he withdrew the first ground of his motion. Heuberger moved to add proposed counts 2, 3, 4, and 5. This motion Becker opposed on the ground that proposed count 2 was not readable on Heuberger's disclosure and also that it and the other proposed counts were unpatentable over the art. The Primary Examiner granted Becker's motion as to count 1, holding that it was unpatentable. He also held that proposed count 2 was unpatentable, but he concluded that proposed counts 3, 4, and 5 were patentable and read on both parties' structures. The interference was then redeclared upon said counts 3, 4, and 5, which were renumbered 1, 2, and 3.

At final hearing the Examiner of Interferences, upon his own motion, held that Heuberger could not make the counts inasmuch as they contained the limitation "a hollow part integral with said casing" or "a hollow part integral with said cover member" which was not to be found in the Heuberger disclosure. He therefore awarded priority to Becker on that ground alone as to counts 1, 2, and 3 (which now correspond to allowed claims 17, 18, and 19 of the Becker application). That holding was affirmed by the Board of Appeals and later by this court, our decision being found in *Heuberger* v. *Becker*, 27 C. C. P. A. (Patents) 746, 107 F.(2d) 601, 514 O. G. 823.

In the interference, both parties had taken testimony, but neither tribunal below gave any consideration to it or made any finding concerning it. The sole ground upon which priority was awarded was, as before stated, that the counts did not read on Heuberger's disclosure.

Upon the above statement of facts, the Primary Examiner, in the instant ex parte proceeding, made the following holding:

All the claims on appeal are rejected on the ground of estoppel to prosecute claims which may form the basis of a second interference between applicant and Heuberger in view of applicant's failure to present claims directed to common subject matter in interference No. 71,801 under the provision of rule 109, Rules of Practice. Claims 26, 27, and 28 admittedly read on both applicant's device and that disclosed by Heuberger and applicant, in the amendment of July 5, 1940 (Paper No. 21), has applied these claims to the two structures. Claims 20 to 23 also clearly read on both applicant's and Heuberger's constructions and at no place in the record does applicant traverse the holding that the appealed claims are directed to common subject matter. When interference No. 71,801 was set up it was incumbent upon the parties thereto to present such claims as counts of the interference as would permit a final decision on either the existence of an interference in fact or priority of invention. Applicant failed to propose such claims but, instead, elected to accept a decision in his favor on counts which Heuberger could not make and applicant now seeks either to obtain claims to common subject matter ex parte or to institute a second interference. Both of these courses are improper, the first because applicant was never adjudged to be the first inventor of *common* subject matter, the second because one interference has already been conducted and a second interference would be a burden both on the Office and on the parties thereto. Rule 109 was expressly promulgated so that parties to an interference, having been brought face to face and having seen each other's cases, might have the opportunity to settle in a single interference all conflict between them which might properly be considered in that interference. Having failed to take that opportunity, applicant is now estopped to raise once more issues which involve a conflict with Heuberger.

The only relaxation of the foregoing principles would appear to be that single situation which falls within the provisions of the second paragraph of rule 110, Rules of Practice. The exception there made, however, is only for the benefit of the *senior* party where the interference has been dissolved. In the present case applicant is the *junior* party and has been awarded *priority* on the ground that the senior party could not make the counts of the interference. [Italics quoted.]

The material part of the Board of Appeal's decision, which we are here called upon to revise, reads as follows:

It is believed that the situation may be stated broadly and briefly as that applicant is now attempting to secure allowance of claims readable upon both parties of the above noted interference that are intermediate in scope between claims such as original count 1 and a proposed count that were held so broad as to be not patentable over the prior art and the final counts of the issue on which priority was awarded. The case presents a peculiar situation in that although testimony was taken by applicant it was not treated on its merits further than consideration of the preliminary statement, but the Examiner of Interferences of his own motion held that opposing party Heuberger could not make the counts of the issue because of the limitation to a hollow part being integral with the casing. The award was appealed to the Board and to the court who in turn affirmed the holding by the Examiner of Interferences.

During the interlocutory proceedings applicant was regarded as junior party but since priority was awarded to him it is his contention that he should now be regarded as senior party and for all purposes. The Examiner holds that since the interference terminated in rather unusual manner, that applicant's position of being senior party rests upon a kind of mere technicality rather than real proof of seniority as to merits. Applicant on the other hand contends that if the testimony had been considered he believes award would have been in his favor as based actually upon merits. As the case stands at present, however, we can give no weight to the latter contention. Applicant did not insist that the case be tried upon merits of the proofs and it seems in fact that such would have been a kind of moot proceeding if in fact as it actually appears, Heuberger could not strictly be entitled to make the terms of the counts of the issue. The Examiner of Interferences indicated in this respect that if on appeal it should be determined that Heuberger was entitled to make the counts then the date of the foreign patent upon which he relied and was assumed to be entitled to benefit of date was earlier than any date alleged in the preliminary statement of the present party Becker.

After careful consideration of the record, it is our view that the present situation presents a case of estoppel by failure to prosecute to full extent possible proceedings under rule 109. It was of course the duty of both parties, particularly Becker the junior party, during interlocutory proceedings and motion period to see that claims fully representative of common subject matter were included in the issue. It may still have been possible after the decision by the Examiner of Interferences disposing of the case in effect on the ground of no right of one of the parties to make the counts, to have secured reformation of the interference under the special circumstances. However, since the case was permitted to proceed to final termination upon that situation although somewhat unusual, it is our conclusion that the ground of estoppel is applicable—*Dirkes et al.* v. *Eitzen*, 1939 C. D. 585; 103 Fed. (2d) 520; *Daniels* v. *Coe*, 521 O. G. 787; U. S. Court of Appeals, D. C., decided October 28, 1940; *Avery* v. *Chase*, 1939 C. D. 213; 101 Fed. (2d) 205. It is our opinion that the particular situation presented by the present record is not such as to entitle applicant, as a matter of course, to claim any or all claims readable upon the opposing party as would be true in a normal case of award of priority. Under the circumstances presented, we hold estoppel applicable.

Appellant petitioned the Board to reconsider its decision, urging that the case of *Blackford* v. *Wilder*, 28 App. D. C. 535, 1907 C. D. 491, 127 O. G. 1255, was controlling. The Board, in denying the petition, said:

It is believed the questions proposed in the petition may be answered by stating that the rule of *Blackford* v. *Wilder*, 1907 C. D. 491, holding generally that the winning party is entitled to take all, may be subject to some exceptions. This seems indicated by *In re Long*, 1936 C. D. 428; 83 Fed. (2d) 458. No reason is found for changing our decision.

A petition for rehearing was then filed with the Board, which it denied.

[1] [2] [3] [4] [5] Appellant, in this court, contends that *In re Long*, supra, [23 C. C. P. A. (Patents) 1078, 470 O. G. 939] has no bearing upon the issue here since in that case the loser, not the winner, was held not to be estopped from obtaining claims for subject-matter broader than the interference issue. It urges that the case of *Blackford* v. *Wilder*, supra, is so pertinent to the issue involved here that it is controlling. It also relies upon *In re Wasserfallen*, 54 App. D. C. 367, 328 O. G. 7, and *Sutton et al.* v. *Wentworth*, 41 App. D. C. 582, 204 O. G. 320. Appellant's brief discusses at some length various decisions of this court and attempts to point out wherein they are either not in point or sustain appellant's contentions. Among them are *In re Ellis and Holden*, 18 C. C. P. A. (Patents) 1060, 47 F.(2d) 963, 409 O. G. 559; *In re Long*, supra; *Avery* v. *Chase*, 26 C. C. P. A. (Patents) 823, 101 F.(2d) 205, 502 O. G. 875; *Dirkes et al.* v. *Eitzen*, 26 C. C. P. A. (Patents) 1198, 103 F.(2d) 520, 507 O. G. 507; and *Saunders* v. *Browne*, 28 C. C. P. A. (Patents) 884, 117 F.(2d) 547, 528 O. G. 785.

The burden of appellant's argument is to the effect that, notwithstanding the fact that Becker did not, during the motion period in interference No. 71,801, under rule 109 of the Patent Office, bring forward claims to the broad subject-matter, appellant, by virtue of the fact that Becker won the priority contest as to the counts there involved, is now entitled to take all common subject-matter of the two applications even though such subject-matter may be defined in claims broader in scope than the interference counts.

We have frequently had occasion to refer to and discuss the case of *Blackford* v. *Wilder*, supra. It was the beginning of a long line of decisions, relating to Patent Office matters, based upon the true doctrine of legal estoppel—estoppel by judgment—res judicata. Also, in patent proceedings, the doctrine of equitable estoppel—estoppel in pais—or estoppel by conduct—has frequently been applied. One of the fundamental bases of estoppel by conduct was expressed in the case, *Consolidated Fruit-Jar Co.* v. *Wright*, 94 U. S. 92—a patent case—in the following language:

He who is silent when he should speak must be silent when he would speak, if he cannot do so without a violation of law and injustice to others.

The case referred to it as a "principle akin to the doctrine of equitable estoppel." This doctrine has frequently been of controlling importance in interference proceedings involving the failure to comply with rule 109. It, in fact, is one of the basic principles underlying most court holdings in patent estoppel cases and with much force applies in the case at bar.

In order to understand the force and effect of the pioneer case, *Blackford* v. *Wilder*, supra, we think the facts there involved should be fully stated. Blackford and Wilder were originally in an interference in which the counts were narrow. Blackford was finally awarded priority of invention of those counts by the Court of Appeals of the District of Columbia (now the United States Court of Appeals for the District of Columbia), the decision being reported in 21 App. D. C. 1. Wilder thereafter presented amended claims, much broader in scope, and sought another interference with Blackford, involving the same two applications as in the first. The interference was declared, and the Patent Office tribunals, by concurring decisions, awarded priority to Wilder. Blackford appealed to the said court of appeals, and it reversed the decision of the Commissioner of Patents. It pointed out that Wilder, in the first interference, had made no effort to contest priority on the broader counts but had "preferred to adopt the more specific claims of the first issue." The court applied the rule of estoppel by judgment and said:

* * * Applying the well-settled principle of estoppel by judgment, before stated, it follows inevitably that the final decision in the first interference is conclusive, unless it can be made to appear that the question upon which the determination of the second case rests is one that neither was nor could have been presented and determined in the first case.

Appellant has quoted from *Blackford* v. *Wilder* the following:

* * * It is further provided in rule 132, that whenever an award of priority has been rendered in an interference proceeding by any tribunal, and the limit of appeal therefrom has expired, the Primary Examiner shall advise the defeated party that the claims so involved in the issue stand finally rejected. In interpreting this rule (A. D. 1891) Mr. Commissioner Mitchell held that the Examiner, after rejecting all claims which are or could be made by the prevailing party may properly allow to the defeated party such other claims as are held to be patentable and which could not be made by the prevailing party; and that no claim should be allowed to the defeated party which could by any latitude of construction be held to embrace matter common to the structure of both parties to the interference. * * *

It seems that the last above quoted language is that which is particularly relied upon by appellant in the instant proceeding—that is to say, that *Blackford* v. *Wilder* is authority for a settled rule of law in patent interference proceedings that to the winner belongs all the common subject-matter contained in the disclosures of all the parties. The above-quoted statement, which contains Commissioner Mitchell's interpretation of rule 132, seems to be the settled Patent Office practice and obviously is a fair and proper procedure. It will be observed, however, that the statement refers to the "prevailing party" and to the fact that the rule applies where "priority has been rendered." That rule was stated in a case where priority had been awarded on the merits, and the "prevailing party" was not one who had been successful in the contest merely because the involved counts did not read upon the other party's disclosure. The court applied the well-settled equitable rule that the award of priority to the prevailing party made applicable the rule of res judicata, not only to the subject-matter of the counts involved but to all subject-matter that could have been presented and determined in that interference.

The Solicitor for the Patent Office has called attention to the case of *In re Long*, supra, as being a case in which an exception was made to the Patent Office practice and the loser, under the particular circumstances there, was permitted to have certain common subject-matter. He also states that the following cases present exceptions to the rule: *In re Curtiss*, 46 App. D. C. 183, 238 O. G. 650; *In re Allsop and Sibson*, 58 App. D. C. 187, 372 O. G. 3.

The chief difference between *In re Long* and the instant case is that in the former we held, under the particular circumstances set out, that Long, the loser of a previous three-party interference, was not estopped in the ex parte prosecution of his application from receiving claims broader than those involved in the interference. The parties to the interference were Long, Evans, and Day. The issue covered an improvement upon the broad invention disclosed and claimed by Long in the ex parte case. Evans won the interference on the narrow counts, but counts intermediate in scope between those of the interference and the broad claims sought by Long ex parte were held by the Examiner of Interferences not to be allowable to Evans or to Day and were unpatentable to them. Evans, in his application, had disclaimed the subject-matter which Long afterwards prosecuted in the ex parte proceeding

and both Evans and Day, by their conduct, had clearly conceded that they were not the inventors of the broad subject-matter.

In deciding the Long case, we cited *In re Rhodes*, 23 C. C. P. A. (Patents) 816, 80 F.(2d) 525, 464 O. G. 712, on the general proposition of estoppel arising from failure to comply with rule 109 and then stated:

> We know of no case, however, where a party losing narrow claims in an interference has been denied broad claims because he failed to present the same in an interference where the subject matter was not patentable to any one of the other parties, and where they, in claiming an improvement over the broad invention either disclaimed the broad invention or by their conduct clearly conceded that in any event they could not be regarded as its first inventor.

Under such circumstances it would have been a miscarriage of justice to deny Long the broad claims to the subject-matter of which he was concededly the first inventor. In the instant case, Becker's assignee is in no such equitable position as was Long.

Aside from the fact that the Long case may be cited as an exception to the general rule that the winner of an interference is entitled to all common subject-matter, we see little, if any, direct bearing that the case may have upon the decision of the instant issue.

The authorities are uniform to the effect that a question cannot be res judicata in view of a prior decision unless the issue therein was determined on its merits. *A. O. Smith Corp.* v. *Petroleum Iron Works Co. of Ohio*, 24 U. S. P. Q. 183, 73 F.(2d) 531; *Hughes* v. *United States*, 4 Wall. 232; *Baker* v. *Cummings*, 181 U. S. 117; *Southern Pacific R. R.* v. *United States*, 168 U. S. 1; *Brown* v. *Fletcher*, 182 Fed. 963. The Board, in said interference No. 71,801, awarded priority to Becker after holding that Heuberger could not make the counts. There was no consideration upon the merits of the issue of priority of invention of any subject-matter common to both applications. In that interference there was no motion to dissolve, and Becker had not questioned the right of his opponent to make the counts. The Examiner of Interferences, of his own volition, held that Heuberger could not make them, and this action was affirmed by the Board and by this court. Although the decision of the Board and of this court awarded priority to Becker, the award was upon the sole ground that Heuberger could not make the counts. The action of the Board and of this court, therefore, was equivalent to a holding that the interference had been improperly declared and was res judicata on the question of the right to make the claims involved in the interference but was not res judicata as to any common patentable subject-matter which was not there involved. The result is the same, as far as the claims involved in the interference are concerned, as though Becker had moved to dissolve the interference and the Primary Examiner had sustained the motion and dissolved the interference.

When Becker had the opportunity to present the instant claims under rule 109 for priority adjudication, he remained silent. Having remained silent when he should have spoken, he is estopped from speaking now. His assignee, under the circumstances stated, is not entitled to a second interference, and to sustain its contentions here would be injurious to its adversary and to Patent Office procedure.

Appellant contends that the case of *Sutton et al.* v. *Wentworth*, supra, is directly in point. If it were conceded that the Sutton case was correctly decided, we think it can be distinguished from the instant one. Becker made no motion to dissolve on the ground that Heuberger could not make the counts, while in the Sutton case a motion to dissolve was made by Wentworth on the ground that Sutton et al. could not make the count, but Sutton et al., during the motion period, did not move to dissolve on the ground that Wentworth could not make the count. It was therefore no fault of Wentworth that an award of priority, instead of a dissolution, finally resulted. Moreover, when the Examiners-in-Chief held that Sutton et al. could not make the count, they suggested a claim that they considered proper to represent the common subject-matter. Sutton et al. declined to make this claim inter partes but later, after the interference was over, presented substantially the same claim for ex parte consideration, and another interference was declared. The holding in the Sutton case was not that the prior decision settled the right to every claim which might have been included (or the right to all common subject-matter) but only the right to that particular claim which Sutton et al. had refused to seasonably make.

The facts in the instant case are materially different from those in the Sutton case. There was no contention that Heuberger did not disclose the invention of the counts, until the Examiner of Interferences, of his own motion, so held, and none of the claims urged on this appeal were presented until after the interference had terminated. It appears that Becker deliberately refrained from contesting priority with Heuberger on the broad claims but allowed the contest to proceed to an award of priority on a technical ground, involving no consideration of the evidence. Moreover, the Sutton case, like a number of other early interference cases, did not involve a consideration of the provisions of Patent Office Rule 109.

Appellant, since the argument of the case, has submitted a memorandum calling attention to the fact that the Board of Appeals, in considering the Heuberger application ex parte after the instant appeal was taken, denied to Heuberger, on the ground of estoppel, claims involving broad subject-matter (Ex parte Heuberger, 55 U. S. P. Q. 331), and to the fact that subsequent to said decision, Heuberger took out his Patent No. 2,302,548 on November 17, 1942. Appellant argues that this shows an inconsistency on the part of the Board. The Heuberger case is not before us, and we are not privileged to discuss the merits or demerits of the decision. It is sufficient to say that the said Heuberger holding is no warrant for a conclusion here differing from that at which we have arrived.

For the reasons hereinbefore stated, we therefore hold first, that Becker's assignee, as winner of the interference in the manner stated, is not entitled to the involved claims upon the theory that the prevailing party is entitled to all common subject-matter; second, that Becker's assignee is estopped from claiming the subject-matter here involved because of Becker's failure during the motion period of said interference to bring forward, under rule 109, the involved claims for interference purposes.

We think that the tribunals below correctly decided the issue, and the decision of the Board of Appeals affirming that of the Examiner is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE STANLEY

No. 4,678. Decided February 1, 1943

[133 F.(2d) 921]

PATENTABILITY—CONFECTION COMPOSITION AND METHOD OF MANUFACTURE.

Certain claims to a confection composition containing a salt of a carboxylic acid having balanced hydrophilic and lipophilic portions, and other claims to the method of manufacturing said confection composition *Held* unpatentable over the prior art.

APPEAL from the Patent Office. Affirmed.

Mr. Charles E. Carney (*Mr. A. Ponack* of counsel) for Stanley.

Mr. W. W. Cochran (*Mr. Clarence W. Moore* of counsel) for the Commissioner of Patents.

GARRETT, *P. J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming that of the Examiner denying patentability of all the claims, numbered 48 to 56, inclusive, of appellant's application for patent entitled "For Confection Composition and Method of Manufacture."

Claims 48 to 51, inclusive, are article claims. The remainder are for the method of manufacture. For illustrative purposes we quote the broad claims 48 and 52:

> 48. A confection composition of the kind in which a solid comminuted material is dispersed in a fatty material, said composition also containing a salt of a carboxylic acid having balanced hydrophilic and lipophilic portions, the hydrophilic portion being the group COOX in which X is a basic atom or group, and the lipophilic portion is the aliphatic residue of a fatty acid having more than six carbon atoms.
>
> 52. The method of improving confection compositions of the type in which solid comminuted material is dispersed in a fatty material, which comprises incorporating throughout said composition a salt having balanced hydrophilic and lipophilic portions, the lipophilic portion being the group COOX in which X is a basic atom or group, and the lipophilic portion is the aliphatic residue of a fatty acid having more than six carbon atoms.

It appears that all the claims stand or fall together, there being no patentable distinction between them. It is unnecessary, therefore, to detail the limitations appearing in those not quoted.

The brief on behalf of appellant states:

> The invention relates to confection compositions of the type in which a solid comminuted material is dispersed in a fat. Chocolate is an outstanding example of such a confection, and the invention has particular reference to such a material. In chocolate the solid material is called cacao matter, and is composed of the ground solids of the cocoa nibs. The fatty material is the cocoa butter, chocolate usually containing an excess of cocoa butter over that naturally present in the nibs. Chocolate may also contain sugar and/or milk solids. In substitute chocolate hydrogenated oils or similar fats are substituted for the cocoa butter.
>
> The particular problem with which applicant is concerned is the reduction of the viscosity of chocolate and similar confection compositions. By lowering the viscosity a reduction in the amount of fat necessary to produce a working consistency is made possible, and at the same time the so-called "graying" or fat bloom of chocolate is retarded. Applicant accomplishes the lowering of viscosity by incorporating a small amount of a salt of a carboxylic acid having balanced hydrophilic and lipophilic groups. The hydrophilic portion is the group—COOX, in which X is a basic atom or group such as a metal radical like sodium or magnesium, the ammonium radical, organic amine radicals, etc. The lipophilic portion is a residue of a fatty acid containing more than six carbon atoms. Thus the modifying ingredients contemplated include the ordinary soaps, and such soaps are preferred materials for use in accordance with the invention.
>
> Preferably the salt is incorporated in the confection by being first dispersed in a fatty carrier such as oils, fats, waxes, or their fatty acids.

The Examiner cited the following references: Lallemand, 852,966, May 7, 1907; Baker, 1,553.294, September 8, 1925; Working, 1,781,672, November 11, 1930; Harris, 2,025,986, December 31, 1935; Coith et al., 2,123,880, July 19, 1938; Margarine—Clayton, page 67. Pub. by Longmans, Green & Co., London, 1920.

Following their citation the Examiner in his statement after the appeal to the Board said:

> All the claims have been rejected as lacking invention over Baker, Lallemand, Coith, and Clayton in view of Harris and Working. The latter patentees show the addition of lecithin to chocolate confections for the express purpose of retarding graying and thus the separation of fat. The interface modifiers of Working and Harris are noted to have both lipophilic and hydrophilic groups therein. Baker, Lallemand and the excerpt from "Margarine" all show an oil composition containing "an innocuous metallic hydrophilic atom or atoms combined with a fatty acid having * * * more than six carbon atoms," the latter functioning as the lipophilic part of the molecule. The position is taken that inasmuch as Baker or Clayton, for example, suggests the use of a protective agent in the form of metallic soaps in place of lecithin described by Working and Harris, no invention is seen to reside in such substitution, especially where the function of the metallic soap is much the same. Applicant has urged the unexpected lowering of the viscosity when metallic soaps are employed as the interface modifier. Such a result however, is thought the expected one as note the similar result obtained by Working, * * *.

In its decision the Board said:

> The claims are rejected as lacking invention over the prior art as discussed by the Examiner. The patents to Harris and Working show the addition of several reagents to chocolate confections for the purpose of retarding "graying" and thus the separation of fat. The interface modifiers of these patents have both lipophilic and hydrophilic groups therein.
>
> The Examiner takes the view that inasmuch as Baker suggests the use of a protective agent in the form of a metallic soap in place of lecithin, no invention is seen to reside in such substitution as the function of the metallic soap is much the same. We note that Baker refers to both lecithin and soaps as useful protective agents in the stabilization of a fatty emulsion. While he is concerned primarily with the use of shortening in the making of pie crusts, we agree with the Examiner that Baker suggests the substitution of soap for lecithin as used by Working. We are not satisfied with appellant's showing of any unexpected result due to such substitution.
>
> Clayton is considered cumulative.
>
> The decision of the Examiner is affirmed.

The disclosures of the respective references recited by the tribunals of the Patent Office are not questioned before us by appellant but he claims nevertheless that invention on his part was involved "in the use of the salts claimed for reducing the viscosity of chocolate and similar compositions." It is insisted that the use he makes of the salts is not obvious and that he obtained improved results by such use.

One contention of appellant is that the Baker patent does not disclose the use of soap and lecithin

alternatively as equivalents for Baker's purpose, but that he uses the soap and lecithin (a phosphatide) together for purposes different from that of appellant.

As we understand it, the alleged difference is based upon the theory that Baker's use of the ingredients is for the preparation of an emulsion while, it is claimed, in appellant's composition there is no emulsion. The brief on his behalf before us states:

The Baker patent • • • is directed solely to the preparation of an emulsion in which an oily material and an aqueous material are emulsified. In other words, the problem presented is solely one of dispersing one liquid in another, the two liquids being immiscible. In appellant's composition there is no emulsion, the composition being one in which a solid comminuted material is disposed in a fat or oily material.

Whether the viewpoint so expressed before us was presented before the tribunals of the Patent Office is not clear from the record, but, however that may have been, it clearly appears from the specification of appellant's application that he had emulsions in mind. The terms "emulsifying agents" and "emulsion" are several times used therein.

For example, at one place it is said:

In the case of those compositions in which the comminuted material is dispersed in the fat in the presence of a small amount of water the ingredients of the present invention also act as emulsifying agents to stabilize the emulsion at the high temperatures employed.

The specification further recites:

I have discovered that if certain salts containing both hydrophilic and lipophilic groups are added to compositions of the type described that the viscosity will be reduced and in the case of toffees and the like the emulsification at the higher temperatures employed is enhanced.

In view of the specification it would seem that the effort now made to create a distinction upon the basis of the term "emulsion" is in the nature of an afterthought.

We have carefully studied appellant's analysis of the Baker patent (which is representative, upon the point under discussion, of the Lallemand, Coith et al., and Clayton references) and the argument based thereon together with the authorities cited, and as a result of such study we are not convinced that the decision appealed from was erroneous.

From the brief filed before us by the Solicitor for the Patent Office we quote, with approval, the following statement:

The rejection is simple enough. The premises are that the Working and Harris patents teach the use of lecithin and lecithin substitutes, having hydrophilic and lipophilic portions, as emulsifying agents in chocolate, and that the Baker patent, as representative of a group, teaches the use of soaps, which, of course, also contain hydrophilic and lipophilic portions, as emulsifying agents of general application. The conclusion is that there is no invention in substituting soap for the former compounds in the emulsification of chocolate, an emulsion, a fat-solid emulsion.

The decision of the Board is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

MANNY *v.* GARLICK ET AL.

No. 4,711. Decided April 5, 1943. Petition for rehearing denied May 17, 1943

[— F.(2d) —]

1. APPEAL—REASONS OF APPEAL.

Where the Primary Examiner denied a motion by appellant to dissolve the interference with respect to count 2 on the ground that appellees had no right to make that count, but appellant did not raise this question before the Board of Interference Examiners and the question was not referred to in the decision of said Board, and in appellant's brief it was not pointed out in what particulars the disclosure of appellees' application failed to support the count *Held* that a reason of appeal alleging that the Board erred in failing to dissolve the interference as to count 2 would not be considered.

2. INTERFERENCE—ACTUAL REDUCTION TO PRACTICE—TESTS—SUFFICIENCY OF TESTIMONY.

Conclusions of corroboratory witnesses that a machine for perforating and notching paper sheets in stacks worked satisfactorily *Held* insufficient to establish actual reduction to practice.

3. SAME—CONCEPTION—CONTRIBUTIONS OF AGENTS INVOLVING ONLY MECHANICAL SKILL.

"It appears that Garlick's first machine was a foot operated machine and that count 2 relates to a power operated machine. We think it very obvious from the record that Garlick contemplated from the beginning the use of his invention in a power operated machine, and we are in agreement with the Board that only mechanical skill was involved in adopting the machine to a power operated machine. Therefore the work of Barney and Lee inured to the benefit of Garlick."

4. APPEAL—REASONS OF APPEAL—JOINT OR SOLE INVENTORSHIP.

In regard to a reason of appeal reading:

"The Board of Interference Examiners erred in failing to hold that there was no proof of joint activity on behalf of those constituting the party Garlick, Lee and Barney with reference to the invention of any count in interference and that said party had failed to sustain the burden of proving good faith and showing diligence in efforts to re-form the interference, thereby disentitling said party or Garlick to an award of priority in view of the proofs adduced."

Held that "With respect to the first part of this reason of appeal • • • we do not construe it as presenting any question requiring our consideration, for if the Board erred in the respect therein stated an award of priority to appellant would not for that reason be warranted, and furthermore if it should have been held that Garlick, Lee and Barney were, in fact, joint inventors then the second part of this reason of appeal would present a wholly immaterial question."

5. INTERFERENCE—PRIORITY—AWARD TO ONE OF JOINT APPLICANTS.

"An award of priority to one of joint applicants is improper unless such proceedings are had as to entitle the joint application to be considered as if it were a sole application."

6. SAME—SAME—SAME.

"When it is discovered by • • • joint applicants, who may actually have been joint inventors, that • • • corroborative evidence is lacking, the temptation is strong among those who are unscrupulous to claim that the invention was made by only one of the applicants in order that the testimony of the other applicants may be available for corroboration. We do not mean to intimate that such a situation is presented in the case at bar but we mention it only as a reason why awards of priority to one of joint applicants should not be made in the absence of any showing of diligent effort by the joint applicants to reform the interference."

7. APPEAL—REMAND.

Where the Examiner of Interferences found lack of diligence by Garlick and the party Garlick et al. in seeking reformation of the interference to include a sole application of Garlick for the joint application of Garlick et al., and the Board of Interference Examiners did not consider this question in awarding priority to Garlick *Held* that "the decision of the Board should be reversed and the cause remanded, in order that the Board of Interference Examiners may decide the question of diligence by Garlick or the party Garlick et al. to convert the joint application into a sole application of Garlick."

8. INTERFERENCE—PRIORITY.

"If diligence was exercised by Garlick or Garlick et al., the award of priority to Garlick as sole inventor was proper. If otherwise, with respect to any or all of the counts, the Board erred in its award of priority to Garlick and priority should, as between appellant and the party Garlick, Lee and Barney, be awarded to appellant with respect to any counts as to which there is found lack of diligence."

APPEAL from the Patent Office. Reversed and remanded.

Messrs. Earl & Chappell (*Mr. Munson H. Lane* of counsel) for Manny.

Mr. Frank E. Liverance, Jr., for Garlick et al.

LENROOT, *J.*:

This is an appeal from a decision of the Board of Interference Examiners of the United States Patent Office, which awarded priority of invention of the subject matter of all the counts in issue to Mark J. Garlick, one of the joint applicants in the application of the party Garlick, Lee and Barney.

The interference arose between a patent issued to appellant on July 25, 1939, upon an application filed July 14, 1938, and the joint application of the party Garlick et al. filed July 11, 1938.

Appellant being the junior party the burden was upon him to establish priority of invention by a preponderance of evidence.

There are six counts constituting the issue of the interference, numbered from 1 to 6 inclusive. Counts 1 and 2 are illustrative of the invention defined in the counts and read as follows:

Count 1. In a machine for forming notched openings in a stack of sheets and the like, a boring tool, and a slotting tool located closely adjacent said boring tool, said slotting tool comprising a blade angular in cross section and having the work engaging edge thereof sharpened, said sharpened edge being substantially coplanar with the cutting edge of the boring tool, and means for reciprocating said tools together relative to the work.

Count 2. In a machine for forming notched apertures in a stack of sheets or like work, a frame, a tool, means for positively actuating said tool on an operating stroke to and through work supported on the frame, including a reciprocating actuator member, spring means for returning the actuator member to initial position upon completion of the operating stroke, and means to cushion the actuator member at the end of the return stroke thereof, comprising a cylinder on the frame having a valved exit port and a plunger carried by the actuator member slidable in said cylinder.

The decision of the Board states:

The counts relate to a machine for perforating and notching paper sheets in stacks. The sheets are of the type intended for use in loose leaf binders or filing cabinets. Prior to the production of the machines disclosed in the applications of the parties, such sheets were perforated and notched in two separate operations. The paper was first perforated by a machine of the type illustrated in Patent No. 2,193,817 (Garlick et al. Exhibit S). After the hole had been made in the sheets a notch or slit was cut from the hole to the adjacent edge of the sheets. The present devices have for their purpose the simultaneous drilling or perforating and notching of the sheets.

Both parties took testimony. It appears that Garlick died on September 15, 1940, before the decision of the Board was rendered.

The Board found that appellant had established conception of the invention as set forth in counts 1 and 3 to 6 inclusive by "the end of March, 1937," and as set forth in count 2 "by May 12, 1938;" that he was limited to his filing date, July 14, 1938, for reduction to practice; that Garlick "conceived counts 1 and 3 to 6 by July 12, 1937, and count 2 by November 2, 1937;" that he was limited to the filing date of the joint application, July 11, 1938, for reduction to practice of the invention; that while appellant was the first to conceive the invention defined in counts 1 and 3 to 6, he had failed to establish diligence in reducing it to practice, and that Garlick was the first to conceive and reduce to practice the subject matter of count 2.

It appears that appellant's patent has been assigned to the F. P. Rosback Company of Benton Harbor, Michigan, and the joint application of Garlick, Lee and Barney has been assigned to the Challenge Machinery Company of Grand Haven, Michigan.

The Board also found that as between the joint applicants Garlick, et al., Garlick was the sole inventor of the subject matter of the counts.

In its decision the Board stated as follows:

The parties Garlick, Lee, and Barney contend that Garlick is the inventor of the subject matter of counts 1 and 3 to 6 and that Lee and Barney are the inventors of count 2.

• • • • • • • •

Manny contends that Garlick et al. have failed to prove priority because they must rely upon their own testimony and since joint inventors may not corroborate each other their proofs are insufficient. Garlick et al. contend that the proofs establish sole inventorship by Garlick of counts 1 and 3 to 6 and joint inventorship by Lee and Barney of count 2.

It is believed that the record clearly establishes that Garlick is in fact the sole inventor of the subject matter of counts 1 and 3 to 6. It is also believed that the application of the Garlick invention to a power operated machine of the EH type rather than the foot operated E type involved nothing more than obvious mechanical skill. The work of Lee and Barney therefore inures to the benefit of Garlick who must be held to be the sole inventor of all the subject matter in issue.

• • • • • • • •

Priority of invention of the subject matter in issue is hereby awarded to Mark J. Garlick as sole inventor.

Appellant's reasons of appeal are 15 in number. The first two of these reasons are the usual broad assignments of error in awarding priority to appellee and not awarding it to appellant. The following nine reasons relate wholly to alleged errors of the Board with respect to conception, reduction to practice and diligence by appellant.

Reasons of appeal 12, 13 and 14 relate wholly to count 2 of the interference. In number 12 it is alleged that the Board

"erred in holding that Garlick had conceived the invention of count 2 by November, 1937."

In number 13 it is alleged that the Board erred in holding that Garlick

"had anything to do with the invention of count 2"

and in number 14 it is alleged that the Board erred in

"holding that either Garlick or the party Garlick, Lee and Barney had any right to make the claim which constitutes count 2 of the interference and erred in failing to dissolve the interference as to said count."

[1] As to this last named reason of appeal, while it appears that the Examiner denied a motion by appellant to dissolve the interference with respect to count 2, it does not appear from the record that appellant raised this question before the Board. It was not referred to in the decision of the Board and in appellant's brief before us it is not pointed out in what particulars the disclosure of the Garlick et al. application fails to support the count. There-

fore this reason of appeal will not be considered by us.

With respect to counts 1 and 3 to 6 there is no reason of appeal challenging the finding of the Board based upon the testimony as to the dates to which Garlick is entitled for conception and reduction to practice.

It will be observed from the foregoing that an unusual situation is presented in that the Board has awarded priority of invention to one of the applicants in a joint application.

That matter will be discussed hereinafter, and in view of our conclusion with respect thereto, it would not be necessary for us to review in this appeal the holding of the Board that Garlick was, in fact, the first inventor of the subject matter of counts 1 and 3 to 6. It is our opinion, however, that the final termination of this interference may perhaps be expedited if the findings of the Board be reviewed at this time with respect to the factual question of inventorship as between appellant and Garlick, and we will therefore proceed to consider that matter.

With respect to counts 1 and 3 to 6, as hereinbefore noted, the Board found that appellant had conceived the subject matter by the end of March, 1937, and limited him to his filing date July 14, 1938, for reduction to practice. It also found that appellant was not diligent in reducing the invention to practice. Appellant accepts the finding of the Board with respect to date of conception but contends that the evidence establishes that he reduced the invention defined by these counts to practice in March 1937, again in August 1937, and again in January 1938. If any of these dates are established, then, assuming that the dates awarded to Garlick are correct, the Board erred in finding that Garlick was the first inventor.

Appellant also contends that the Board erred in holding that appellant was not diligent in reducing the invention to practice.

It appears that appellant is a designer in the employ of the F. P. Rosback Company, appellant's assignee; that said company, among other things, manufactures machines for forming slotted openings in sheets to adapt them for use in binders or other holders; that in said manufacture both drilling and slotting operations are involved, which theretofore were performed successively. The problem of devising a machine which would perform these operations simultaneously was submitted to appellant by Mr. Rosback, the general manager of the company.

Appellant testified that he invented such a machine and tested it. No specific dates were named by appellant with respect to the invention prior to October 6, 1937. As to specific dates he testified as follows:

A. I could not call dates, my memory is too poor for that, but all this work followed along the general line and it was not abandoned at any time.

Appellant did testify, however, that the problem was submitted to him upon Mr. Rosback's return from a certain train trip, which Rosback testified occurred just before December 25, 1936. He also testified that appellant completed and tested the machine corresponding to said counts about the middle of March, 1937.

With reference to said test appellant testified as follows:

Q. 8. Did you test this machine which you made, Mr. Manny?
A. Yes. We tested it out as soon as we had that combination in shape to do so.
Q. 9. Did you encounter any difficulties at all in operating this machine?
A. Oh, yes. We had difficulties a plenty. We put the knife and the drill in conjunction and we had trouble with chips in the knife clogging it. And it caused us all that trouble, and we had to work and experiment with the knife until we found a method of overcoming it.

Appellant further testified as follows:

Q. 10. Did you eventually find a way to overcome that difficulty?
A. Yes, we did.
Q. 11. What did you do then?
A. I told Mr. Rosback that the operation done in conjunction was perfectly practical and I thought we could put the machine through in that manner.
Q. 12. Did you then go ahead with the machine?
A. Yes. They gave me orders to go ahead and design a machine embracing those features.

Appellant then identified certain drawings, Exhibits 1 and 2, and testified that Exhibit 2 was made on October 6, 1937, and that directly thereafter a machine was made in accordance with such drawings. He did not, however, testify that any test of that machine was ever made, and the only test testified to by him was the one which took place apparently in March.

Homer F. Rosback, hereinbefore referred to, testified with respect to the said March test as follows:

Q. 13. Will you just explain what Mr. Manny did?
A. Mr. Manny, at that time, after the holidays were over, started in, and we had a sample machine we had been working with, and after thinking the thing through he made a make-shift piece and put the knife up against the rotary drill and clamped them tight together so that the rotary drill would revolve, and demonstrated that this idea of the knife and drill together in close relation to one another would be feasible and would work.
Q. 14. You say he demonstrated that. Would you go into a bit more detail, please?
A. We had a drill and of course we have always felt that a single knife, the single piece knife where they were developed and the converging points were of one piece,—in other words, it would give the knife much more strength. We used that type of knife and in that method we also learned at that particular time that the additional stress and strain on the knife was very much greater than it was if it cut into an open hole.
Q. 15. How did you find out that that was the case?
A. By trying this in the experimental unit that we had and breaking a knife or two, although we did demonstrate that it could be done.
Q. 16. Did you succeed in boring and notching sheets with this experimental machine?
A. Oh, yes. Quite a few. In other words, we had proven to ourselves that the entire method was a method which could be satisfactorily used.
Q. 17. On this experimental machine did you have any means for returning the head after the cutting stroke?
A. The means for returning the head was by virtue of the spring inside the column of the machine.
Q. 18. You mentioned having knife trouble, did you take any steps to correct that?
A. Oh, yes. Naturally, we took—when we had knife trouble, we started in to develop various different shapes, sizes and kinds of clearances with these knives, but always maintaining the development that we had of the one piece knife, *and after we found out how to make clearance and put clearance in there, we were ready to go ahead.* [Italics ours.]
Q. 19. When did you have a satisfactory knife?
A. As closely as I can tell you about a satisfactory knife, in the latter part of August or the first part of September we demonstrated definitely to ourselves that we had a satisfactory knife.
Q. 20. What year?
A. That was 1937.
Q. 21. Will you please explain a little more fully why you had difficulty with the knife on the experimental machine in greater amount than you did on commercial machines of that period?
A. Our commercial machines of that period were doing two cycle work and the knife was cutting into a hole that had already been drilled. In other words, the point of the knife did not do any actual cutting and when we put the drill and knife in close relationship to one another, very close, it produced a great strain on the very point of the knife and sometimes split. This was due to insufficient and *incorrect clearance and when we got* the clearance worked out, *that was the time then that* we were *ready to go ahead.* [Italics ours.]

The witness further testified as follows:

Q. 24. What did you do after you had worked out the knife to your satisfaction?
A. We told Manny to go ahead and develop the machine that would embody the knife and these various parts.
Q. 25. Do you know whether he did that?
A. Yes, he did.

The witness further testified that thereafter drawings Exhibits 1 and 2 were made and a machine was produced in accordance with such drawings; that such machine was tested but he did not testify as to the result of such test nor as to the date when it was made, but he did testify that the machine was completed early in January, 1938, and the fair inference is that it was tested shortly thereafter.

Rosback further testified that the machine was redesigned about March 1, 1938, and that machines in accordance with such designs were produced and first shipped in June, 1938; that patent drawings for the invention were first made up on May 11 or 12, 1938; that a machine embodying the invention was tested prior to May 11, 1938. With respect to this test, the witness testified as follows:

Q. 97. You mentioned testing the machine shown in the photographs Exhibit 9. Was that done before May 12, 1938?
A. Yes.
Q. 98. How did you test the machine?
A. By having the rotary tool and notching tool in close relationship to one another and under power to see that it cut holes and notched satisfactorily.
Q. 99. How did it operate?
A. Satisfactorily.
Q. 100. It bored and notched all right?
A. Right.

J. D. Arent, a witness for appellant, an employee of the Rosback Company, testified with reference to the machine tested in March 1937 as follows:

Q. 15. Do you remember seeing that machine operate on paper, boring and notching it?
A. Yes, sir.
Q. 16. How did it operate?
A. Satisfactorily. *We had some trouble with breakage of knives.*
Q. 17. By that what do you mean?
A. We *had not determined the clearance.*
Q. 18. Was the knife the one-piece knife?
A. Yes, sir.
Q. 19. That was a knife similar to one you had used before?
A. Yes, sir.
Q. 20. What did you do about breakage of knives, did you take any steps to eliminate that?
A. Yes. We *experimented with clearance and found that we could correct it by putting the knife on with clearance in the correct positions.*
Q. 21. When had you solved this knife problem?
A. Some time in the early fall. [Italics ours.]

The witness further testified that a machine was made in accordance with the drawing, Exhibit 1, "along in May of 1938" and that it was tested. With respect to such test he testified as follows:

Q. 39. Do you remember whether the machine made in accordance with the drawing was tested?
A. Yes.
Q. 40. How was it tested?
A. Through the various experimental stages we go through.
Q. 41. Did you cut paper?
A. Yes, sir.
Q. 42. And did it cut satisfactory holes and notches?
A. Yes.

We find no other testimony in the record with respect to the testing by appellant or in his behalf of any machine embodying the involved invention.

It is appellant's position that the shortcomings of the machine tested in March 1937 were remediable by mechanical skill and he invokes the well established rule that perfection for commercial use is not necessary for a successful reduction to practice.

However, we are not satisfied that it was a simple matter to make such changes in the machine as would make it useful. It is clear that the trouble was not alone in the character of knives employed but also in the relationship of the knives to the drill. Attention is called to the testimony of Rosback hereinbefore quoted wherein he testified, "after we found out how to make clearance and put clearance in there, we were ready to go ahead," and that it was not until August or the first part of September of 1937 that he considered that they had a satisfactory knife.

[2] With respect to the testimony of Rosback concerning the test of the redesigned machine before May 11, 1938, it is significant that appellant himself made no reference to it in his testimony and the testimony of Rosback respecting his conclusion that the machine worked satisfactorily is not sufficient, in our opinion, to establish reduction to practice. The same observation is applicable to the testimony of the witness, Arent.

Therefore we are in agreement with the finding of the Board that appellant has not established reduction to practice of the invention defined in said counts prior to his filing date.

As appellant was the first to conceive the invention but the last, as held by the Board, to reduce it to practice, the burden was upon him to establish diligence in reducing it to practice from immediately before Garlick's entry into the field, viz., July 12, 1937, as found by the Board, to July 14, 1938, appellant's filing date.

The Board found that this required diligence is not established by the evidence, and we are in accord with this finding.

Appellant testified that after the test of March, 1937, he received orders to design a machine embodying the invention, but he testified to no activity upon his part until October, 1937, when he made a drawing of the proposed machine. There is nothing in the record to indicate that with reasonable diligence upon the part of appellant, when the critical period began, the invention could not have been reduced to practice within a comparatively short time, either through completing and properly testing a machine embodying the invention, or the filing of an application for a patent.

Upon the evidence in the case we find no error in the finding of the Board that neither Lee nor Barney jointly or severally made any such contribution to the invention as to entitle them to be considered as joint inventors with Garlick.

Inasmuch as appellant has not challenged by his reasons of appeal the dates for conception awarded to Garlick, other than the finding that Lee and

Barney were not joint inventors with him, we must accept such date as correct.

Furthermore, assuming that Garlick is entitled to the date of the joint application for constructive reduction to practice, the finding of the Board with respect to the date for reduction to practice to which Garlick is entitled must also be accepted by us as correct, it not being challenged by appellant's reason of appeal except in one particular hereinafter discussed. With this premise we find no error of the Board in holding that based upon the evidence Garlick was the first and sole inventor of the subject matter of said counts.

We next come to the consideration of count 2.

With respect to this count the Board held that the work of Garlick's co-applicants, Lee and Barney, in the application of the invention defined in counts 1 and 3 to 6 to a power operated machine of the type shown in the testimony involved nothing more than obvious mechanical skill and therefore their work with respect thereto inured to the benefit of Garlick; that such application is established as not later than November 2, 1937, and therefore Garlick was given that date for conception of the invention as defined by count 2. The Board further held that Garlick had not established reduction to practice prior to the joint application filing date.

With respect to appellant, the Board held Manny was entitled to the date of May 12, 1938, for conception of the invention of count 2 and had not established actual reduction to practice prior to his filing date; that Garlick being the first to conceive the invention and the first to reduce it to practice was the first and sole inventor.

It is appellant's contention that count 2 is unrelated to counts 1 and 3 to 6 in that it merely calls for a tool broadly, and not the combination of boring tool and slotting tool of counts 1 and 3 to 6.

Appellant's brief states:

> Count 2 is directed to a combination of elements which might be used with the combination of tools of counts 1 and 3 to 6, but the combination could be used with any tool and still come within the scope and spirit of the claim. Even if the claim be construed to call for a tool, which would form a notched aperture, it might be a tool entirely foreign to the tool combination of counts 1 and 3 to 6.

Granted that the above quoted statement is correct, if Garlick was the first to conceive the combining of his device defined in counts 1 and 3 to 6 with the elements claimed in count 2, and assuming that the work of Lee and Barney inured to the benefit of Garlick, then Garlick is the first inventor of the subject matter of count 2.

[3] It appears that Garlick's first machine was a foot operated machine and that count 2 relates to a power operated machine. We think it very obvious from the record that Garlick contemplated from the beginning the use of his invention in a power operated machine, and we are in agreement with the Board that only mechanical skill was involved in adopting the machine to a power operated machine. Therefore the work of Barney and Lee inured to the benefit of Garlick.

It follows from the foregoing that we are in agreement with the Board that Garlick was the first and sole inventor of the subject matter of count 2, based upon the assumption that he was entitled to the filing date of the joint application of July 11, 1938, for constructive reduction to practice of the invention.

While Garlick claims that the evidence establishes an earlier actual reduction to practice with respect to all the counts, the evidence on his behalf is of the same general character as the evidence on behalf of appellant in his claimed actual reduction to practice, consisting of general statements such as that the machine was satisfactorily operated, and the same reasons for holding that appellant had failed to establish actual reduction to practice prior to his filing date apply to the evidence on behalf of Garlick with respect to actual reduction to practice by him.

We now proceed to a consideration of appellant's reason of appeal number 15, which reads as follows:

> 15. The Board of Interference Examiners erred in failing to hold that there was no proof of joint activity on behalf of those constituting the party Garlick, Lee and Barney with reference to the invention of any count in interference and that said party had failed to sustain the burden of proving good faith and showing diligence in efforts to re-form the interference, thereby disentitling said party or Garlick to an award of priority in view of the proofs adduced.

As hereinbefore observed, an unusual situation is presented in this case, in that the Board has awarded priority of invention to one of the applicants of a joint application, without a sole application having been filed by him.

Had appellant raised this question in his reasons of appeal it would be necessary for us to decide the question of error on the part of the Board in awarding priority to one of joint applicants in an interference proceeding between joint applications and an application or patent of another party.

Appellant's reasons of appeal, however, do not raise this question. It will be observed that reason 15 hereinbefore quoted consists of two parts:

1. That the Board erred in holding there was no proof of joint activity on behalf of the joint applicants with reference to any count of the interference, and

2. "that said party had failed to sustain the burden of proving good faith and showing diligence in efforts to reform the interference, thereby disentitling said party or Garlick to an award of priority in view of the proofs adduced."

[4] With respect to the first part of this reason of appeal above stated we do not construe it as presenting any question requiring our consideration, for if the Board erred in the respect therein stated an award of priority to appellant would not for that reason be warranted, and furthermore if it should have been held that Garlick, Lee and Barney were, in fact, joint inventors then the second part of this reason of appeal would present a wholly immaterial question.

However, as hereinbefore stated, we find no error in the holding of the Board with respect to the question of joint inventorship by Garlick, Lee and Barney.

The second part of this reason of appeal clearly raises only the question of good faith and diligence upon the part of the party Garlick et al., in its effort to reform the interference, and upon this branch of the case that is the only question argued by appellant in his brief.

The record shows that the interference was originally declared on December 6, 1939, upon ten counts, and Preliminary Statements were due on January 8, 1940. Both appellant and the party Garlick et al. filed Preliminary Statements before that date. On February 10, 1940, appellant moved to dissolve the interference with respect to seven of the counts upon the ground that Garlick et al. had no right to make them. The motion was granted on June 8, 1940, with respect to four of the counts and the interference was then reformed upon the six counts now before us.

The record shows that on June 21, 1940, times for taking testimony were reset, and on November 14, 1940, the testimony on behalf of appellant was taken.

On January 22, 1941, the party Garlick et al. filed a request to extend the time for taking testimony on behalf of Garlick et al. for thirty days beyond the time theretofore set, the reason stated being as follows:

> The request for the foregoing extension is for the reason that recently circumstances have been discovered which will require converting the original application (now in interference) by removing two of the applicants and making it the sole application of one of the joint applicants, filing a divisional application in the name of the other two joint applicants and reforming the interference to include the new divisional application.
>
> It is thought that the foregoing should occur before taking testimony of Garlick et al. and the present time set for taking testimony is not sufficient for that purpose.

The record does not show any action upon this request.

On February 14, 1941, the party Garlick et al. filed with the Examiner of Interferences a request to suspend proceedings. This request reads as follows:

> A request has been filed in the application of James Wesley Lee and Freeman Barney for Paper Boring and Slotting Machine, filed Feb. 14, 1941, Serial No. 378,974, to reform the present interference to include claims 9 and 10 thereof which are identical with counts 4 and 5 of this interference.
>
> The above application of Lee and Barney is a division from the patent application of Garlick et al., Serial No. 218,552, now in this interference, and the proper papers will be filed in due order in accordance with the practice as applied in *In re Roberts*, 49 App. D. C. 250, 1920, C. D. 158, which will convert the said application of Garlick et al., into the sole application of Garlick as to certain of the claims and counts and will entitle the above Lee and Barney to file the above divisional application containing other of the claims and counts which will require returning the said Garlick et al., application to the Primary Examiner to be converted.
>
> It is requested that proceedings in this interference be suspended pending the foregoing reformation of the interference and converting the said application.
>
> This request to suspend proceedings is not interposed for the purpose of delay but is for the reasons above explained.

Counts 4 and 5 above referred to relate to the interference as originally declared. It was dissolved as to count 5, and in the reformed interference original count 4 was numbered count 2.

On February 19, 1941, this request was denied by the Examiner of Interferences. He concluded his decision with the following statement:

> * * * This interference was declared December 6, 1939, and no adequate showing has been submitted on behalf of the senior party to excuse the long delay in taking action with respect to the reformation of the interference.
>
> For the reasons indicated, the request is denied.

The testimony on behalf of the party Garlick et al. was taken on February 24, 1941.

On April 8, 1941, the Primary Examiner filed a request with the Examiner of Interferences which reads as follows:

> Sir:
>
> Jurisdiction of the above entitled interference is requested for the purpose of converting said Garlick et al. application into a sole application of Garlick as requested by the applicants in said case. Counts 4 and 5 of said interference will also be eliminated as requested by the applicants Garlick et al. to become the issue of a new interference between Manny and the joint application of Lee and Barney.

On April 30, 1941, the Examiner of Interferences denied this request. In his decision he stated:

> * * * Apparently, the patentee Manny took his testimony and filed the same without knowledge of any intent on the part of Garlick et al. to seek a reformation of the interference. The party Garlick et al. has taken testimony and Manny has submitted his printed record.
>
> The changes contemplated by the proposed reformation of the interference are obviously such as would materially change the situation with which Manny is confronted in this contest. The proposed action of Garlick et al. comes at a very late period in the interference and will cause delay particularly in view of the fact that a new interference is proposed. The party Garlick et al. has apparently been guilty of laches or a lack of diligence in seeking reformation of the interference. The showing submitted by Garlick et al. in excuse of the delay is not impressive. The party Manny is a patentee and it is believed said patentee should not have this contest further delayed for a reformation concerning which the patentee is not responsible. Because of this delay, without adequate excuse, the request by the Primary Examiner for jurisdiction is denied and the interference will proceed in its present condition as to the parties.

On May 5, 1941, the party Garlick et al. filed a letter in the Patent Office, stating that there was no objection to proceeding with the interference in its present condition provided that the testimony of Lee and Barney be given the weight of independent witnesses and be entitled to corroborate the evidence of Garlick and with the understanding that the Garlick et al. application would be made a sole application of Garlick except as to counts 4 and 5, which counts would be cancelled therefrom and be "dealt with in the Lee and Barney divisional application in accordance with the outcome of this interference." With respect to diligence in seeking the reformation of the interference the letter states:

> With respect to the alleged inexcusable delays on the part of Garlick et al., this has not seemed to have been an important issue. There are several facts pertinent to this matter which have not been presented of record but which will be submitted when and if the occasion for doing so arises.

So far as appears from the record no additional facts respecting diligence in reforming the interference were presented.

On May 8, 1941, the Examiner of Interferences addressed a letter to the party Garlick et al., in which it was stated:

> Said party is advised that the Board of Interference Examiners will at final hearing award priority in accordance with the record and the proofs submitted and will not in any way be bound by any statements made by the party Garlick et al. in the communication filed May 5, 1941.

On November 17, 1941, the Board of Interference Examiners rendered its decision awarding priority of invention to Garlick alone with respect to all of the counts. No discussion was had with respect to the holding of the Examiner of Interferences that Garlick et al. had not been diligent in attempting to reform the interference.

We note that the Examiner of Interferences who

rendered the decisions above referred to was also a member of the Board of Interference Examiners which rendered the decision here appealed from.

We also note that so far as appears Garlick has not yet filed a sole application for the invention here involved. While the joint application of Lee and Barney involving count 2 is not in the record, it does appear that such an application was filed prior to Feb. 15, 1941, and upon final hearing it was contended that they were joint inventors of the subject matter of count 2.

We have thus set out fully the proceedings found in the record preceding the decision of the Board, for the reason that they are material in the consideration of appellant's 15th reason of appeal respecting good faith and diligence of the party Garlick et al. and of Garlick in their efforts to reform the interference.

The brief on behalf of Garlick, Lee and Barney is signed by counsel as "Attorney for Appellees" and it is there contended that the matter of diligence set forth in appellant's 15th reason of appeal raises a question that may not be considered by us upon this appeal; that if there be any lack of diligence involved, which is denied, it is a matter of purely ex-parte consideration which can have no bearing upon the question of priority of invention.

It is stated in the brief of counsel that in this proceeding

"all steps have been in strict accordance with the procedure and practice as applied in *In re Roberts*, 49 App. D. C. 250, 1920, C. D. 158."

In that case it appears that a joint application made by Roberts and his son was involved in an interference with one Bruckman. Priority was awarded to Bruckman upon the ground that the testimony showed that Roberts and his son were not joint inventors. After such award of priority a patent was issued to Bruckman. It appears that more than two years after the issue of said patent Roberts filed a sole application for the invention as a continuation of the former joint application which was presumably still pending in the Patent Office. His claims were rejected upon the ground that the patent to Bruckman was a statutory bar to their allowance, the Patent Office tribunals declining to consider said sole application as a continuation of said joint application. This the court found to be error and held that Roberts was entitled to the filing date of the joint application for conception and reduction to practice of the invention; that the joint application was filed through mistake or inadvertence and without fradulent intent. Therefore the decision appealed from was reversed. However, in concluding its opinion the court stated:

It perhaps is unnecessary to add that a party who seeks to correct his own mistake must act with reasonable diligence, and also assume the burden of establishing his good faith.

In the last cited case the court referred to the case of *Lemp* v. *Randall*, 33 App. D. C. 430, 146 O. G. 255, as follows:

The Assistant Commissioner cites our decision in *Lemp* v. *Randall*, 33 App. D. C. 430, in support of his conclusion; but the question here in issue was neither involved nor discussed in that case. It there was ruled that the Patent Office should have determined whether the joint applicants were in fact joint inventors, for if it appeared they were not there would be a failure of parties; that is to say, a finding that joint applicants are without standing to contest the question of priority with another applicant destroys the basis for an award of priority. In that case the joint applicants insisted that they were joint inventors, and the court so found.

In the case of *Briggs et al.* v. *Kaisling*, 53 App. D. C. 49, 288 Fed. 254, 311 O. G. 3, there was involved in an interference with Kaisling a joint application made by Briggs and one Jacobi. The Patent Office tribunals held that Briggs was the sole inventor as between himself and his co-applicant, and because of failure to prove joint invention by Briggs and Jacobi, awarded priority of invention to Kaisling. The Patent Office denied Briggs either the privilege of amending the joint application or of filing a sole application. This, the court held, was error and reversed the decision of the Patent Office. It does not appear that any question of diligence was raised in that case.

In this court the question of diligence in filing a sole application to take the place of a joint application in interference was considered in the case of *Crane* v. *Grier and Warren*, 21 C. C. P. A. (Patents) 1163, 71 F.(2d) 180, 448 O. G. 268.

Grier and Warren had filed a joint application which was placed in interference with a patent to Crane. After the testimony was taken on behalf of Grier and Warren, motion was made to convert the joint application into a sole application of Grier, and an amendment was submitted for that purpose. This motion was granted. The Patent Office tribunals held that Grier was the first inventor and awarded priority to him.

Upon appeal to this court, Crane contended that Grier and Warren were not diligent in seeking to convert the joint application into a sole application of Grier and therefore the Board of Appeals erred in allowing such conversion.

In our decision we considered the proof of diligence submitted by Grier and Warren in moving to convert the joint application into a sole application and held that diligence was established and the Examiner of Interferences and Board of Appeals did not err in granting the motion.

As hereinbefore stated, in the case at bar the Board of Interference Examiners made no reference to the proceedings hereinbefore set out or to the fact that the Examiner of Interferences had found that the party Garlick et al. "has apparently been guilty of laches or a lack of diligence in seeking reformation of the interference," but apparently awarded priority of invention to Garlick as sole inventor regardless of whether he or the party Garlick et al. were diligent in seeking to reform the interference.

If the Examiner of Interferences erred in denying the various motions of Garlick et al. the Board of Interference Examiners should have so held. If, on the other hand, the Examiner of Interferences did not so err, under the procedure set out in the case of *In re Roberts*, supra, relied upon by Garlick, it would seem that the award of priority to Garlick was improper.

That this question is relevant in this interference proceeding is plain.

If diligence was lacking by Garlick or Garlick et al. in the respects here discussed, the filing of a sole application by Garlick would not entitle him to the date of the joint application of the party Garlick et al., July 11, 1938, for constructive reduction to practice as found by the Board, but he would be limited to the filing date of his sole application, and according to the facts found by the Board priority could not be properly awarded to Garlick.

It is apparently the position of Garlick that parties to applications should be disregarded and that when there are two or more joint applicants for an invention each of them may under all circumstances be considered a separate party.

However, interferences are not alone between applications. They are instituted for the purpose of determining the question of priority between two or more parties claiming substantially the same invention. See rule 94, Rules of Practice in the United States Patent Office. That joint applicants are considered as a single entity is so well established that no citation of authority is necessary.

[5] Therefore, an award of priority to one of joint applicants is improper unless such proceedings are had as to entitle the joint application to be considered as if it were a sole application.

Where there is a joint application alleging a joint invention which is placed in interference with another applicant, such applicant is entitled to rely upon the rule that conception and reduction to practice must be corroborated by evidence other than that given by the joint applicants.

[6] When it is discovered by the joint applicants, who may actually have been joint inventors, that such corroborative evidence is lacking, the temptation is strong among those who are unscrupulous to claim that the invention was made by only one of the applicants in order that the testimony of the other applicants may be available for corroboration. We do not mean to intimate that such a situation is presented in the case at bar, but we mention it only as a reason why awards of priority to one of joint applicants should not be made in the absence of any showing of diligent effort by the joint applicants to reform the interference.

[7] Whether in the case at bar sufficient diligence has been shown to entitle Garlick or the party Garlick et al, to reform the interference is a question that we do not think we should determine in this appeal, especially in view of the fact that the Examiner of Interferences found that such diligence was lacking, and so far as the record shows the Board of Interference Examiners did not consider this question.

Our conclusion therefore is that, for the reasons stated, the decision of the Board should be reversed and the cause remanded, in order that the Board of Interference Examiners may decide the question of diligence by Garlick or the party Garlick et al. to convert the joint application into a sole application of Garlick.

[8] If diligence was exercised by Garlick or Garlick et al., the award of priority to Garlick as sole inventor was proper. If otherwise, with respect to any or all of the counts, the Board erred in its award of priority to Garlick and priority should, as between appellant and the party Garlick, Lee and Barney, be awarded to appellant with respect to any counts as to which there is found lack of diligence.

The findings of the Board upon this subject will, of course, be subject to review in the manner provided by law.

Accordingly the decision appealed from is reversed and the cause is remanded for further proceedings.

Reversed and remanded.

U. S. Court of Customs and Patent Appeals

IN RE SACKETT

No. 4,703. Decided May 3, 1943

[135 F(2d) 227]

APPEAL—RECORD AND DECISION—PUBLICATION.

Held that the record on appeal and the decision of the Court of Customs and Patent Appeals would not, on appellant's motion, be sealed against publication.

ON MOTION to seal record and decision against publication. Denied.

Mr. Harold R. Savage, *Messrs. Roberts, Cushman & Woodberry*, and *Messrs. Cushman, Darby and Cushman* (*Mr. Arlon V. Cushman* of counsel) for Sackett.

Mr. W. W. Cochran (*Mr. E. L. Reynolds* of counsel) for the Commissioner of Patents.

PER CURIAM:

Ernest D. Sackett appealed to this court from a decision rendered by the Board of Appeals of the United States Patent Office, affirming that of the Primary Examiner in rejecting all the claims of his application for a patent relating to "shoe soles and method of making." On April 5, 1943, this court handed down its decision affirming that of the Board.

On April 24, 1943, appellant Sackett, pro se and by his attorneys, filed in this court that which, to say the least, is a most unusual motion. It is moved that this court

"shall seal the record and decision of this appeal against publication, or shall take such steps as may be necessary and sufficient to prevent publication."

It is stated in the motion that the publication of the decision

"would in itself constitute a complete disclosure of appellant's invention, not only to those skilled in the art to which the invention appertains, but to any and all persons acquainted with general chemistry or with common industrial usages and practices."

Distinction has long been made between the requirements of secrecy relating to judicial records and those which are merely official records. Distinction has also been made in some cases between the right to inspect judicial records before trial and the right to inspect the record of the court after trial. We know of no authority which would warrant a court such as this one in making an order denying public inspection of its records in a case like the one at bar.

Appellant, according to the tribunals of the Patent Office and this court, has disclosed no "invention." It is not seen how, under the circumstances, he is possessed of anything, the knowledge of which this court should be called upon to protect. If appellant had a trade secret, it was his privilege to practice it in the usual manner, but when he asked for a patent on his alleged invention and brought the same into the public forum of the court, it is not such a right as a court (and especially this court under the circumstances) is authorized to protect.

The anomalies that would be brought about by acquiescing in appellant's request and the reasons why appellant's motion is without merit seem to have been thoroughly considered in a case (in some respects similar to the one at bar) before the Court of Appeals of the District of Columbia (now the United States Court of Appeals for the District of Columbia)—*Ex parte Drawbaugh*, 2 App. D. C. 404, 66 O. G. 1451. In that case no decision had been rendered when the motion was filed, but the reasons for denying the motion there are applicable here.

Appellant's motion is denied.

Denied.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,488,249, E. C. Horst, Separator; 2,114,712, same, Method of keeping the picking fingers of hop picking machines clean, D. C., N. D. Calif. (Sacramento), Doc. 4270–L, *E. Clemens Horst Co.* v. *Gibbens & Blodgett.* Dismissed with prejudice (notice July 8, 1943).

1,744,356, H. W. Bodendieck, Operating device for hot-line clamps; 1,968,736, same, Grounding set; 1,990,928, 1,984,566, same, Wire clamp; 1,987,584, same, Operating member or stick for hot line equipment, D. C., N. D. Ga. (Atlanta), Doc. 2554, *A. B. Chance Co.* v. *Johnson Mfg. Co.* Stipulation and consent order of dismissal (notice July 8, 1943).

1,955,569, H. I. Warden, Licensing of motor vehicles, filed May 11, 1943, D. C. Wis. (Madison), Doc. 509, *H. I. Warden* v. *F. X. Ritger.*

1,968,736. (See 1,744,356.) 1,984,566. (See 1,744,356.)

1,987,584. (See 1,744,356.) 1,990,928. (See 1,744,356.)

1,995,801, J. Field, Corset, D. C., S. D. N. Y., Doc. 11/170, *Warner Bros. Co.* v. *American Lady Corset Co.* Judgment Oct. 14, 1942. Order and judgment July 9, 1943.

2,087,190, A. E. Gessler, Printing ink, D. C., S. D. N. Y., Doc. 15/310, *Interchemical Corp.* v. *Sinclair & Carroll Co., Inc.* Judgment (notice July 7, 1943).

2,095,137, T. F. Johnson, Operating implement, D. C., N. D. Ga. (Atlanta), Doc. 2290, *T. F. Johnson* v. *Georgia Power Co.* Stipulation and order of dismissal (notice July 8, 1943).

2,114,712. (See 1,488,249.)

2,132,077, Lane & Hammer, Method of making blue veined cheese, D. C. Wis. (Milwaukee), Doc. 588, *Iowa State College Research Foundation* v. *Tolibia Cheese Corp.* Judgment for plaintiff; claim 2 held valid and infringed; claim 3 held invalid July 2, 1943.

2,156,073. (See Re. 21,117.)

2,160,810, E. J. Abbott, Winding machine, C. C. A., 1st Cir. Doc. 3832, *Abbott Machine Co.* v. *Universal Winding Co.* Judgment affirmed July 6, 1943.

2,186,510 (*a*), Walter & Lange, Collapsible draped partition; Des. 113,930, M. Lange, Draped partition, D. C., N. D. Ohio (Cleveland), Doc. 20347, *The Superior Funeral Supply Corp.* v. *The Aetna Mfg. Co.* Consent decree dismissing case without prejudice June 12, 1943.

2,186,510 (*b*), Walter & Lange, Collapsible draped partition; Des. 113,930, M. Lange, Draped partition; 2,205,295, same, Collapsible catafalque, D. C., N. D. Ohio (Cleveland), Doc. 20616, *The Superior Funeral Supply Corp.* v. *The National Wreath & Supply Co.* Consent decree dismissing case without prejudice June 12, 1943.

2,205,295. (See 2,186,510 (*b*).)

2,230,327, W. F. Kiesel, Jr., Valve for locomotives, D. C., W. D. N. Y., Doc. 1474, *Metallizing Engineering Co., Inc.*, v. *B. Simon, Inc., et al.* Consent decree restraining defendants from infringement July 7, 1943.

2,234,446, T. G. Murphy, Composition shingle and roof formed therewith, filed July 7, 1943, D. C., S. D. Calif., C. Div., Doc. 3013, *T. G. Murphy* v. *Sealtite Roof & Paint Co.*

2,244,868, E. W. Dunbar, Manufacture of shoes; 2,245,235, C. A. Thurston, Method of making shoe parts, D. C. Mass., Doc. 2263, *Cambridge Rubber Co. et al.* v. *Universal Counter & Shank Co., Inc.* Stipulation of dismissal June 4, 1943.

2,245,235. (See 2,244,868.)

2,290,400, J. Wirgin, Camera stand, filed June 7, 1943, D. C., S. D. N. Y., Doc. 21/486, *J. Wirgin* v. *Klevo Photo Products, Inc.*

2,320,327, J. F. Meduna, Application of spray metal to metal surfaces; 2,320,328, same, Application of spray metal to metal surfaced substantially cylindrical objects; 2,320,329, same, Spray metal coated, metal surfaced articles, filed July 12, 1943, D. C., S. D. Calif., C. Div., Doc. 3019–RJ, *Metallizing Co. of America, Inc., et al.* v. *Metallizing Engineering Co., Inc.*

2,320,328. (See 2,320,327.) 2,320,329. (See 2,320,327.)

Re. 21,117, A. R. Visitacion, Hair curler; 2,156,073, Wallace & Leisy, Hair curling device, C. C. A., 2d Cir., Doc. —, *Hollywood Comb Curler, Inc.* (*Monogram Mfg. Co.*) v. *The Glemby Co., Inc., et al.* Decree affirmed in part and reversed in part (notice July 15, 1943).

Des. 105,071, T. L. Hand, Fruit juice extractor; Des. 105,335, J. M. Majewski, Jr., Fruit press, appeal filed July 9, 1943, C. C. A., 8th Cir., Doc. 12/659, *Sears, Roebuck & Co.* v. *Rival Mfg. Co.*

Des. 105,335. (See Des. 105,071.)

Des. 113,930. (See 2,186,510 (*a*) and (*b*).)

Des. 131,035, E. R. Popper, Knitted textile fabric, filed July 13, 1943, D. C., S. D. N. Y., Doc. 21/515, *Beldoch-Popper, Inc.*, v. *Concord Chenille Co., Inc.*

Des. 132,065, S. Zahn, Dress, D. C., S. D. N. Y., Doc. 18/111, *Franklin Simons & Co., Inc., et al.* v. *Fashion Wear Dress Co., Inc.* Consent judgment July 10, 1943.

Des. 134,356, V. S. Jacobs, Photo plaque, D. C., S. D. N. Y., Doc. 20/140, *La France Flower & Novelty Co., Inc.*, v. *Majestic Products Co.* Consent judgment (notice July 12, 1943).

Des. 134,490, L. J. Sherman, Textile fabric, filed July 14, 1943, D. C., S. D. N. Y., Doc. 21/523, *Belding Heminway Co.* v. *Future Fashions, Inc., et al.*

T. M. 299,548, Hat Corp. of America, Hats and caps for men, women and children, leather gloves, etc., filed July 7, 1943, D. C., W. D. N. C. (Charlotte), Doc. —. *Hat Corp. of America* v. *Dobbs Loan Co. et al.*

Changes in Classification

Order No. 3,741, July 20, 1943, directs:

The following changes in the classification of inventions are hereby directed to take place immediately:

IN THE MANUAL OF CLASSIFICATION:

ABOLISH SUBCLASSES

In *class 104, Railways* (Division 34):
278 **Driftage control**

In *class 250, Radiant Energy:*
Ray energy (Division 54)
Fluorescent and phosphorescent devices
81 Materials
82 With radio-active material
Radio-active applications
107 Compositions

CHANGE SUBCLASS TITLE

In *class 170, Motors—Fluid Current* (Division 9), the title of subclass 135.5 should read:
Impellers
135.5 With motor and/or drive mechanism

ESTABLISH SUBCLASSES

In *class 7, Compound Tools* (Division 29):
Cutters combined with other tools
14.55 With spade or shovel

In *class 24, Buckles, Buttons, Clasps, Etc.,* (Division 5):
2.5 **Gun band type**

In *class 30, Cutlery* (Division 53):
Combined
With material holder or disposal Knives and scrapers
136.5 With closure or portable receptacle support
164.5 **Ice pick or chipper type**
164.6 With impact moving means
164.7 With guard and/or guide
164.8 Plural points or edges

In *class 89, Ordnance* (Division 22):
Barrels
14.1 With heat exchanger

In *class 92, Paper Making and Fiber Liberation* (Division 56):
Stock treatment
1.4 Purifying and defibering waste paper
1.5 With deinking
1.6 Removal of bitumen, wax or resin

In *class 252, Compositions:*
301.1 **Radio-active** (Division 3)
301.2 **Fluorescent or phosphorescent** (Division 3)
301.3 Organic and inorganic materials (except water)
301.4 Inorganic materials only
301.5 Tungsten containing
301.6 Zinc or cadmium containing

In *class 256, Fences* (Division 1):
12.5 **Driftage control**

MISCELLANEOUS CHANGES

In *class 139, Textiles, Weaving* (Division 21), subclass 369, page 178, correct the spelling of "Supports".

CLASSES ARRANGED BY EXAMINING DIVISIONS

Under Division 3, class 252, Compositions, in the enumeration of subclasses, "182—301" should read:
182—301.6.

Under Division 11, cancel:
149—HIDES, SKINS, AND LEATHER.

Under Division 17, "270, Sheet-Metal Associating or Folding" should read:
270—SHEET-MATERIAL ASSOCIATING OR FOLDING.

CLASSES ALPHABETICALLY ARRANGED

Cancel: 149—HIDES, SKINS, AND LEATHER

CLASSES NUMERICALLY ARRANGED

Cancel: 149—HIDES, SKINS, AND LEATHER

IN THE DEFINITIONS (AND DISTRIBUTION OF THE PATENTS IN ABOLISHED SUBCLASSES):

7, Compound Tools (Division 29)

establish the following subclass definition:

14.55. Tools under subclass 14.1 in which at least one tool is a cutter and at least one a spade or shovel.
(1) Note.—Many of these devices are intrenching tools combined with bayonets.
Search Class—
294—HANDLING—HAND AND HOIST-LINE IMPLEMENTS, subclass 49 and indented subclasses, for simple spade or shovel type devices, and subclasses 2 and 51 for such devices combined with tools other than cutters.

The patents in this subclass have been taken, for the most part, from class 7, Compound Tools, subclasses 1 and 14.1; class 294, Handling—Hand and Hoist-Line Implements, subclass 51, and class 42, Firearms, subclass 93.

8, Bleaching and Dyeing: Fluid Treatment and Chemical Modification of Textiles and Fibers (Division 43)

in subclass 102, add the following note:
(1) Note.—See class 92, PAPER MAKING AND FIBER LIBERATION, subclasses 1.4 to 1.6, for the removal of color forming bodies from waste paper combined with defibering of the paper to form a pulp, e. g., the deinking and repulping of newsprint paper.;

in subclass 104, note (2), before "subclass 7", insert: *subclass 1.5 and.*

20, Wooden Buildings (Division 33)

in subclass 89, add the following:
Search Class—
154—LAMINATED FABRIC AND ANALOGOUS MANUFACTURES, subclass 45.9, for other composite laminated boards.

23, Chemistry (Division 59)

in the main class definition, in note (2), after "Note.", insert:

The line between this class and class 75, METALLURGY, is as follows: class 75 takes patents claiming as the dominant feature the production of a metal, an alloy or a product of utility only as an intermediary product in a metallurgical process.;

in subclass 15, in the note, after "Metallurgy", insert: *, particularly, subclasses 1, 2, 83, and 84;*

in subclass 36, add the following:
Search Class—
75—METALLURGY, subclass 25.;

in subclass 79, add the following:
Search Class—
75—METALLURGY, subclasses 105–107.;

in subclass 83, add the following:
Search Class—
75—METALLURGY, subclass 41.;

in subclass 85, add the following:
Search Class—
75—METALLURGY, subclasses 104, 110–114.;

in subclasses 87 and 90, add the following:
Search Class—
75—METALLURGY, subclasses 104, 110–114.;

in subclass 100, add the following:
Search Class—
75—METALLURGY, subclass 103.;

in subclass 117, add the following:
Search Class—
75—METALLURGY, subclasses 110, 115, 116.;

in subclass 125, add the following:
Search Class—
75—METALLURGY, subclasses 72–76, 86–88.;

in subclass 148, add the following:
Search Class—
75—METALLURGY, subclasses 72–76, 87.

24, Buckles, Buttons, Clasps, Etc. (Division 5)

establish the following subclass definition:

2.5. Bands which hold the barrel of a firearm to the stock and in addition perform some other function, e. g., support a hook and/or one or more loops.
(1) Note.—The loops may be utilized for anchoring a gun sling and/or for gun stacking purpose.

Search this class, subclass—
265—for strap-end-attaching devices.
Search Classes—
42—FIREARMS, subclass 85, for gun slings.
248—SUPPORTS, subclass 359, for article carried supports which support the article when in storage and remain with the article when in use.

The patents in this subclass have been taken, for the most part, from class 42, Firearms, subclass 85.;

in subclass 265, in note (1), after "See this class," insert: *subclass 2.5, for gun band type devices combined with strap-end-attaching devices,*.

29, Metal Working (Divisions 13, 14, 29)

in subclass 148, cancel the definition (but not the notes) and substitute:

148. Blanks and processes for (1) making articles formed, at least in part, of metal, where a metal working step is included even though there is included a step of working the non-metallic part and also (2) processes for working metal, where the subject matter of (1) or (2) is not classifiable in a specific art class.

30, Cutlery (Division 53)

in the main class definition, paragraph (1), insert after "implements", first occurrence, *, including those for cutting by a sharp point,*;

and in note (7), cancel the reference to class 83, Mills, subclass 62.;

in subclass 128, cancel the period (.), and add: *and/or the material holder.*;

in subclass 136, add:

Search Classes—
145—WOODWORKING TOOLS, subclasses 5–20, for hand devices for planing ice for the purpose of smoothing the block as distinguished from scraping or chipping to obtain the removed ice.
294—HANDLING—HAND AND HOIST-LINE IMPLEMENTS, subclass 51, for hand implements in which a scraper or chipper is combined with a scoop or shovel adapted for use apart from the scraper or chipper.;

establish the following subclass definitions:

136.5. Implements under subclass 136, in which (1) the material holder comprises a receptacle provided with a closure, or (2) the knife or scraper is provided with means to support a material holder which is removable from the support for use.
(1) Note.—Most of the implements in this group are ice shavers or scrapers provided with means to receive and hold the removed ice.

Search this class, subclasses—
128—for implements of the above defined type, in which the holder closure is combined with means to eject the material from the holder.
164.5—and indented subclasses, for ice picks and chippers.
Search Classes—
220—METALLIC RECEPTACLES, subclass 24 and indented subclasses, and the notes thereunder, for receptacles provided with closures.
226—FILLING AND CLOSING PORTABLE RECEPTACLES, subclass 69, for cutting machines provided with supports for portable receptacles.
294—HANDLING—HAND AND HOIST-LINE IMPLEMENTS, subclass 51, for similar devices in which the chipper or shaver is combined with a scoop or shovel adapted for use apart from the chipper or scraper.

164.5. Implements of the type especially adapted for picking or chipping ice or similar hard material, not provided for elsewhere.
(1) Note.—Most of these implements are provided with sharp points for engaging the material as distinguished from a cutting edge.

Search this class, subclasses—
122—for ice picks or chippers provided with a plurality of blades adapted for interchangeable use.
124—for ice picks and chippers provided with means to hold the removed ice.
136—and indented subclass, for ice shavers or scrapers provided with means to receive and hold the removed ice.
142—for implements having a plurality of ice picking, chipping or shaving portions.
151—and indented subclasses, for ice picks and chippers provided with means to sheath the operating part of the implement.
Search Classes—
7—COMPOUND TOOLS, for ice picks or chippers combined with other tools, one of which is not of the type provided for in class 30, CUTLERY, particularly subclass 14.1, for ice handling tongs combined with picks or chippers, subclass 8.1, for hammers combined with ice picks or chippers.
15—BRUSHING, SCRUBBING, AND GENERAL CLEANING, subclass 236, for hand manipulable scrapers for cleaning ice coatings from miscellaneous objects.
37—EXCAVATING, subclass 53, for hand manipulable scrapers for removing ice from pavements and analogous surfaces.
83—MILLS, subclasses 62 and 63, for machines for comminuting ice by shaving or crushing.
125—STONE WORKING, appropriate subclasses, for machines for trimming, scoring or splitting ice blocks and subclass 36, for implements limited by structure to use as splitters or scorers or cutters combined with splitters for ice.
143—WOOD SAWING, appropriate subclasses, for machines and hand saws for severing ice into blocks or pieces by sawing, especially subclass 38, for devices for sawing ice into cubes.
145—WOODWORKING TOOLS, especially subclasses 5–20, for hand devices for planing ice for the purpose of smoothing the block, as distinguished from scraping or chipping to obtain the removed ice.
262—MINING, QUARRYING, AND ICE HARVESTING, appropriate subclasses, particularly subclasses 8 and indented subclasses and 33, for machines and subcombinations thereof for working ice in situ by cutting, shaving, scoring, et cetera.
294—HANDLING—HAND AND HOIST-LINE IMPLEMENTS, subclass 61, for pointed implements for impaling articles for the purpose of handling, subclass 51, for ice chippers or scrapers combined with material handling means such as a scoop or shovel, subclass 54, for shovels combined with scrapers or chippers for removing ice from pavements, et cetera.
306—TOOL-HANDLE FASTENINGS, appropriate subclasses, for means for attaching the working tool to its handle where the operating part of the tool is not significantly included.

164.6. Implements under subclass 164.5 in which there is provided means to impart a blow to the operating portion of the pick or chipper to effect movement thereof.
Search this class, subclass—
277—for cutting tools provided with impact blade moving means.

164.7. Implements under subclass 164.5 in which there is provided (1) means to guide the operating part of the chipper or pick in a predetermined relation to the ice, or (2) a guard to control the movement of the removed ice.
Search this class, subcasses—
124—and indented subclasses, for ice picks or chippers provided with means to hold the removed ice particles.
162—and indented subclass, for ice picks or chippers provided with means to sheath the pick member which means may constitute a guide therefor while in use.
286—and indented subclasses, for cutting tools provided with guards or guides.

164.8. Implements under subclass 164.5 in which the portion of the ice pick or chipper which operates on the ice comprises a plurality of points or edges.
Search this class, subclasses—
172, 279, 287, 299—and indented subclasses, for cutting tools provided with plural blades or cutting edges.
Search Class—
306—TOOL-HANDLE FASTENINGS, subclass 45, for means for securing plural tongs to a handle.

The patents in these subclasses have been taken, for the most part, from class 83, Mills, subclass 62.;

in subclass 168, note (3), cancel the reference to class 83, Mills, subclass 62.;

in subclass 277, note (1), cancel the period (.) and add: and see subclass 164.6, for ice picks and chippers provided with impact moving means.;

in subclass 280, cancel note (2), and substitute the following:

(2) Note.—See class 262, MINING, QUARRYING, AND ICE HARVESTING, subclass 10.;

in subclass 286, in the note, after "subclass 51 and the indented subclasses;" insert: *ice picks and chippers having guards and/or guides, subclass 164.7:*;

and in subclass 299, note (2), after "152," insert *164.8.*

31, Dairy (Division 2)

in subclass 85, cancel the second and third lines of the definition and substitute:

that is not connected with the milk line, but is connected with a source of differential pressure such as a vacuum or pulsator line or the atmosphere.

34, Drying and Gas or Vapor Contact with Solids (Division 49)

in the main class definition, note (2), in the reference to class 144, Woodworking, after "254", insert *, 271.*

40, Card, Picture, and Sign Exhibiting (Division 35)

in subclass 134, number the existing note (*1*) and add:
(2) Note.—See class 252, COMPOSITIONS, subclasses 301.1 to 301.6, for fluorescent and phosphorescent compositions.

42, Firearms (Division 22)

rewrite the main class definition as follows:

CLASS 42.—FIREARMS

DEFINITIONS

Class

This class includes all the lighter firearms which are supported by hand when operated, such as shoulder-guns, pistols, toy firearms and cane guns. This class also has such firearms combined with cleaners, intrenching devices, bayonets, and other cutters (including specifically pistol-swords). The following devices are likewise found here either per se, or in combination with the firearm; ram rods, gun-rests and some body supported arm rests.

Search Classes—
7—COMPOUND TOOLS, subclass 5.1 and indented subclasses, subclass 5.4 and indented subclasses, subclass 7.1 and subclass 14.1 and indented subclasses, for hand manipulable cutters (including bayonets) combined with other tools.
15—BRUSHING, SCRUBBING, AND GENERAL CLEANING, subclass 104.05 and indented subclasses, for gun cleaners.
30—CUTLERY, pertinent subclasses, for hand manipulable cutters (including bayonets) per se, and subclass 142 and indented subclasses, for the combination of two or more cutters.
81—TOOLS, subclass 3.05 and the notes thereto appended for shell projectile or wad extractors.
89—ORDNANCE, for heavier mounted guns, and subclass 14.1, for barrels with heat exchangers, even though the barrels are of the type provided for in this class (42).
102—AMMUNITION AND EXPLOSIVE DEVICES, appropriate subclasses, for gun projectiles, per se.
124—MECHANICAL GUNS AND PROJECTORS, for mechanical projectile throwing or impelling apparatus in which the propelling agent is non-explosive.
294—HANDLING—HAND AND HOIST-LINE IMPLEMENTS, subclass 49 and indented subclasses, for intrenching tools of the shovel type.

in subclass 76, add the following:

Search Class—
89—ORDNANCE, subclass 14.1, for barrels with heat exchangers.;

in subclass 85, after "Bands, clips, hooks, etc.," insert: *combined with the gun,*;

and add the following note:

Search Classes—
24—BUTTONS, BUCKLES, CLASPS, ETC., subclass 2.5, for bands which hold the barrel of a gun to its stock and in addition perform some other function, e. g., support a hook and/or one or more loops, and subclass 265, for strap-end-attaching devices.
248—SUPPORTS, subclass 359, for article carried supports which support the article in storage position and remain with the article when in use.;

in subclass 86, cancel the definition and notes and substitute:

86. Gun bayonets of various kinds in combination with the firearm.

Search this class, subclasses—
52—for cane guns combined with swords.
53—for pistols combined with swords.
90—for other type cutters combined with guns.
Search Classes—
7—COMPOUND TOOLS, subclass 14.1, for cutters combined with other implements, and particularly subclass 14.55, for cutters combined with intrenching tools.
30—CUTLERY, pertinent subclasses, for bayonets and other cutters, per se, and subclass 142 and indented subclasses, for combined cutlery.
272—AMUSEMENT AND EXERCISING DEVICES, subclass 57, for fencing apparatus.;

in subclass 90, after "attachments", add: *when combined with the gun.*;

in subclass 93, cancel "adapted for attachment to" and substitute: *combined with*;

and cancel "or its bayonet";

and under "Search Class" in the reference to class 294, Handling—Hand and Hoist-Line Implements, cancel "which are not attachments to the gun"

and add:

7—COMPOUND TOOLS, subclass 14.55, for shovel type tools combined with cutters (including bayonets).

43, Fishing, Trapping, and Vermin Destroying (Division 2)

in subclass 6, under "(3) Search Classes", cancel the reference to class 42, Firearms.

57, Textiles, Spinning, Twisting and Twining (Division 21)

in subclass 153, add the following notes:
(7) Note.—For other coated or impregnated strand structures, see class 28, TEXTILES, subclass 80.
(8) Note.—For coated or impregnated braided textiles, see class 87, TEXTILES; BRAIDING, NETTING AND LACE MAKING, subclass 1.

62, Refrigeration (Division 44)

in subclass 111, under "(2) Search Classes", cancel the reference to class 83, Mills, and substitute: *30, Cutlery, subclass 136 and indented subclasses and subclass 164.5 and indented subclasses, for ice picks and chippers.*

70, Locks (Division 20)

in subclass 466, cancel the note and substitute:

Search Classes—
29—METAL WORKING, subclass 84, for templets designed for accommodation of tools.
33—GEOMETRICAL INSTRUMENTS, subclass 197, for mortise gauges.
77—BORING AND DRILLING, subclass 62, for jigs for guiding drills.
144—WOODWORKING, subclasses 67 to 84, inclusive, for mortising apparatus.

74, Machine Elements and Mechanisms (Divisions 12, 45)

in subclass 608, add the following:

Search this class, subclass—
566—for lever guards.

81, Tools (Division 29)

in subclass 3.48, cancel note (2) and substitute the following:

(2) Note.—See class 30, CUTLERY, subclass 164.5 and indented subclasses, for ice picks.

89, Ordnance (Division 22)

in subclass 14, add the following:

(1) Note.—This subclass includes silencers, flash reducers, climb arresters and devices for increasing or decreasing recoil.;

establish the following subclass definition:

14.1. Devices under subclass 14 having means to promote the transfer of heat between the barrel and any external media.

Search this class, subclasses—
1—for heat exchange devices for parts other than barrels and for devices which flush the bore or which remove residual gases therefrom.
14—for devices which reduce flash by cooling burning gases at the barrel muzzle, and for combinations of barrel heat exchangers with flash reducers.
Search Class—
257—HEAT EXCHANGE, for heat exchangers, per se.

The patents in this subclass have been taken principally from this class, subclasses 1 and 14.

91, Coating (Division 46)

in the main class definition, add the following note:

(9.5) Note.—See class 144, WOODWORKING, subclass 50 and indented subclasses, particularly subclasses 52, 58, 60, 62–65, for match making machines which include a coating mechanism, subclasses 279 and 280, for machines for applying glue to wood surfaces, e. g., veneers.

92, Paper Making and Fiber Liberation (Division 56)

establish the following subclass definitions:

1.4. Inventions in which waste paper is subjected to both a defibering and purifying treatment, usually with chemicals.

(1) Note.—This and the indented subclasses take inventions dealing with the salvaging of waste or used paper and takes such processes and apparatus even though materials other than paper are also recovered.

Search this class, subclass—

20—and indented subclasses, for the mechanical defibering of waste paper not associated with purification of the pulp so produced.

Search Class—

8—BLEACHING AND DYEING; FLUID TREATMENT AND CHEMICAL MODIFICATION OF TEXTILES AND FIBERS, subclass 102, for the deinking or decolorizing of artificially colored or dyed paper not combined with defibering. Class 8, subclass 104 and indented subclasses, takes the bleaching of paper pulp.

1.5. Inventions under subclass 1.4 which are directed to or include the deinking of printed paper.

Search Class—

252—COMPOSITIONS, subclass 89, and indented subclasses, particularly subclass 95 and indented subclasses, for deinking compositions, per se.

1.6. Inventions under subclass 1.4 which are directed to or include the removal of bitumen, wax, or resin, from waste or used paper, containing any of these materials.

The patents in these subclasses have been taken from various subclasses in class 92, Paper Making and Fiber Liberation, particularly subclasses 3, 9, 13, and 20.;

in subclass 2, first sentence, place a period (.) after "recovery" and cancel the remainder of the sentence;

and add the following note:

Search this class, subclass—

1.4—and indented subclasses, for processes which include the recovery of materials from waste paper containing the same, e. g., paraffin from wax paper.

104, Railways (Division 34)

abolish the definition of subclass 278.

The patents in this subclass have been placed in class 15, Brushing, Scrubbing, and General Cleaning, subclass 20, class 104, Railways, subclass 279, and class 256, Fences, subclass 12.5 established in this order.;

in subclass 279, second sentence of the definition, cancel "only" and add:

Search Classes—

15—BRUSHING, SCRUBBING, AND GENERAL CLEANING, for apparatus for cleaning by any of the following operations: brushing, beating, shaking, shotting, wiping, or the use of a squeegee, particularly subclass 54 and indented subclass, for rail sweepers.

37—EXCAVATING, particularly subclasses 6, 14, and 17 and indented subclasses, for railway snow excavators.

56—HARVESTERS, subclass 230 and indented subclasses, for railroad vehicle mounted vegetation cutters.

126—STOVES AND FURNACES, subclass 271.1 and indented subclasses, for surface heaters.

256—FENCES, subclass 12.5, for driftage control fences.

299—FLUID SPRINKLING, SPRAYING, AND DIFFUSING, particularly subclass 31 and indented subclasses for railroad sprinklers.

106, Compositions, Coating or Plastic (Divisions 38, 64)

in the main class definition, note (2), under "B. See Classes:", in the reference to class 250, Radiant Energy, cancel "subclasses 81 and 82 . . . radio-active compositions,";

in subclass 21, cancel the note and substitute:

(1) Note.—See class 252, COMPOSITIONS, subclasses 301.1 to 301.6, for inks containing a fluorescent or phosphorescent material, becoming visible when subjected to subsequent excitation, e. g., ultraviolet light.

115, Marine Propulsion (Division 60)

in subclass 43, cancel the note and substitute the following:

Search Class—

137—WATER DISTRIBUTION, subclass 159, for propeller-shaft brakes that involve means for throttling the steam by a marine governor.

125, Stone Working (Division 58)

in the main class definition, note (5), cancel "or ice";

and add the following note:

(9) Note.—See class 30, CUTLERY, subclass 164.5, for ice picks and chippers.;

in subclass 12, add the following note:

(1) Note.—See class 143, WOOD SAWING, appropriate subclasses, especially subclass 38, for machines for severing ice by sawing.;

and in subclass 36, add the following note:

(1) Note.—See class 30, CUTLERY, subclass 164.5 and indented subclasses, for ice picks and chippers.

128, Surgery (Division 55)

in subclass 1.1, note (3), change "subclasses 106 and 107" to *subclass 106*;

and add the following note:

(4) Note.—See class 252, COMPOSITIONS, subclass 301.1, for radio-active compositions in general.

164, Cutting and Punching Sheets and Bars (Division 57)

in subclass 18, under "Search Class:", add:

144—WOODWORKING, subclass 196, for machines for cutting out pieces or cutting holes by punching action.

167, Medicines, Poisons, and Cosmetics (Divisions 43 and 63)

in subclass 51, under "(2) Search Class", cancel "and 107, for radio-active compositions",

and add the following reference:

252—COMPOSITIONS, subclass 301.1, for radio-active compositions.

180, Motor Vehicles (Division 47)

in subclass 2, add:

Search Class—

299—FLUID SPRINKLING, SPRAYING, AND DIFFUSING, subclass 49, and indented subclass, for ambulant sprayers having a stationary fluid supply, and having a carriage propelled by the energy of the flowing fluid which is to be sprayed.

183, Gas Separation (Division 32)

in subclass 6, add the following note:

(1) Note.—This subclass does not include processes wherein combustion is initiated or promoted by means of a catalyst, for which, see class 23, CHEMISTRY, subclass 2, and indented subclasses, and class 260, CHEMISTRY, CARBON COMPOUNDS, subclass 676 and indented subclasses, and for the line between these last two classes, see note (4) to the definition of subclass 2 of class 23, CHEMISTRY.;

and in subclass 42, in line 1, change "gas" to *material*

and in line 2, change "material" to *gas*.

189, Metallic Building Structures (Division 33)

in subclass 45, note (3), cancel "58".

226, Filling and Closing Portable Receptacles (Division 35)

in subclass 2, add the following:

(3) Note.—For chutes and other attachments for slivering machines to receive, straighten, and assemble splints for packing, see class 144, WOODWORKING, subclass 191.

240, Illumination (Division 30)

in subclass 2.25, under "Search Class", in the reference to class 250, Radiant Energy, after "material", first occurrence, change the comma (,) to a period (.) and cancel "and 81 . . . material;" and add the following reference:

252—COMPOSITIONS, subclasses 301.1 to 301.6, for fluorescent and phosphorescent compositions.

250, Radiant Energy (Divisions 51, 54)

in subclass 2, under "(2) Search Classes", cancel the reference to class 315, and substitute:

315—ELECTRIC LAMP AND DISCHARGE DEVICES, SYSTEMS, subclass 34, for devices which include an electric space discharge device and an antenna structurally combined in a unitary device. Where circuit elements are claimed which are not structurally combined in the unitary device, the patent is classified in this class (250) subclass 2, or the indented subclasses, or with the particular art to which the claimed system belongs, but merely reciting the sources of potential for the discharge device will not exclude the patent from class 315. See subclass 149 and indented subclasses of class 315, for electric lamp and gas or vapor discharge device systems which are controlled by radiant energy transmitted from a distance.;

in subclass 44, note (1), change "subclasses" to *subclass* and cancel "and 107", and in the same note, cancel "and radio-active compositions";

and in note "(2) Search Classes", add the following reference:

252—COMPOSITIONS, subclass 301.1, for radio-active compositions in general.;

in subclass 71, cancel "and such materials, per se",

and in note "(4) Search Classes", add the following reference:

252—COMPOSITIONS, subclasses 301.1 to 301.6, for fluorescent or phosphorescent compositions in general.;

abolish the definitions of subclasses 81 and 82.

The patents formerly contained in these subclasses have been placed for the most part in class 252, Compositions, subclasses 301.1 to 301.6, established in this order.;

in subclass 106, cancel ", and radio-active materials",

and in note "(2) Search Classes", add the following reference:

252—COMPOSITIONS, subclass 301.1, for radio-active compositions in general.;

abolish the definition of subclass 107.

The patents formerly contained in this subclass have been placed in class 252, Compositions, subclass 301.1, established in this order.

252, Compositions (Divisions 3 and 64)

establish the following subclass definitions:

301.1. Compositions containing a substance which is spontaneously radio-active.

(1) Note.—The line between this class (252), subclasses 301.1 to 301.6 and class 117, COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, is that patents having a claim to a composition coming within the scope of these subclasses and also a claim to a process involving the mere application of the composition to a base, even though the material of which the base is made is specified, are classified in these subclasses and cross-referenced to class 117. The line between these subclasses and class 250, RADIANT ENERGY, which latter class takes articles coated with or constituted of a radio-active, fluorescent or phosphorescent composition, is that patents containing a claim to such a composition and a claim to a base coated therewith or made thereof and no other distinguishing characteristics, are classified in this group of subclasses and cross referenced to class 250. If all the claims are drawn to a method of coating, the patent goes to class 117. When there are no claims to the composition and there is a claim to an article, classifiable in class 250, e. g., fluorescent screen, the patent is placed in class 250, and cross referenced appropriately.

Search this class, subclass—

301.2—and indented subclasses, for fluorescent or phosphorescent compositions.

Search Classes—

23—CHEMISTRY, subclass 15 and indented subclasses, for methods for preparing radio-active compounds.

167—MEDICINES, POISONS, AND COSMETICS, subclass 51, for radio-active medicines.

250—RADIANT ENERGY, subclass 106, for applications of radio-active materials.

301.2. Compositions containing a substance having the property of emitting light or analogous rays as the result of irradiation by wave energy radiated by some other source.

(1) Note.—In this subclass are placed patents claiming compositions which contain ingredients which require excitation to become luminescent or phosphorescent.

Search this class, subclasses—

9—and indented subclasses, for lubricating oils containing fluorescent ingredients.

301.1—for compositions containing substances which are spontaneously radio-active, and see note (1) thereto.

Search Classes—

40—CARD, PICTURE, AND SIGN EXHIBITING, subclass 134, for signs provided with fluorescent or phosphorescent materials.

117—COATING; PROCESSES AND MISCELLANEOUS PRODUCTS, subclass 34, for processes of coating with fluorescent materials.

176—ELECTRIC LAMPS, appropriate subclasses, particularly subclass 122, for electric lamps provided with fluorescent or phosphorescent materials.

240—ILLUMINATION, subclass 2.25, for illuminating devices in combination with fluorescent and phosphorescent materials.

250—RADIANT ENERGY, subclass 71 and indented subclasses, for devices or bases having fluorescent or phosphorescent coatings, particularly subclass 80, for fluorescent screens, and subclasses 153 and 165 and indented subclasses, for electric discharge tubes utilizing such coatings.

301.3. Compositions under subclass 301.2, which include both an organic compound and a free chemical element or inorganic compound other than water.

301.4. Compositions under subclass 301.2 which are constituted entirely of inorganic materials.

(1) Note.—This and the indented subclasses also include compositions in the preparation of which a temporary organic vehicle, binder, or adjuvant is employed and which is removed or destroyed in the course thereof.

301.5. Compositions under subclass 301.4 which contain tungsten in combinded or elemental form.

301.6. Compositions under subclass 301.4 which contain zinc or cadmium in combined or elemental form.

The patents in these subclasses have been taken from class 250, Radiant Energy, subclasses 81, 82, and 107, all abolished in this order.;

in subclass 303, in the definition, change "prise" to *comprise*;

in subclass 408; add the following note:

(1.5) Note.—**Search this class,** subclass 301.2 and indented subclasses, for compositions containing fluorescent or phosphorescent substances as analytical, testing, or identification agents.

255, Earth Boring (Division 32)

in subclass 27, in the note, cancel "class 83, Mills, subclass 62" and insert: *30, Cutlery, subclasses 164.6 and 277.*

256, Fences (Division 1)

establish the following subclass definition:

12.5. Barriers designed to regulate wind and air currents so that driftage of snow or sand will be controlled.

(1) Note.—These barriers usually act either (1) to so direct wind or air currents to cause the same to pick up and remove snow or sand from places it is desired to keep clear thereof, or (2) to cause wind or air currents to drop sand or snow carried thereby to avoid the same accumulating at places it is desired to keep clear thereof, for example, railways or roadways.

Search Class—

104—RAILWAYS, subclass 279 and indented subclass, for miscellaneous railway track clearing or cleaning means.

The patents in this subclass were taken from class 104, Railways, subclass 278, abolished in this order.

262, Mining, Quarrying, and Ice Harvesting (Division 4)

in subclass 10, under "(2) Search Classes", add:

30—CUTLERY, subclass 136 and indented subclass and subclass 164.5 and indented subclasses, for hand implements for picking, shaving or chipping ice.

37—EXCAVATING, subclass 53, for hand manipulable scrapers for removing ice from sidewalks, et cetera.

294—HANDLING—HAND AND HOIST-LINE IMPLEMENTS, subclass 54, for hand manipulable snow shovels provided with ice scraping means.;

and in the reference to class 83, Mills, cancel "for hand implements for cutting and crushing ice" and substitute: *for devices for shaving and crushing ice.*

294, Handling—Hand and Hoist-Line Implements (Division 4)

in subclass 2, under "(2) Search Classes", in the reference to class 7, Compound Tools, before "where", add: *especially subclasses 1, 14.4 and 14.55.*;

and in subclass 51, under "(2) Search Classes", in the reference to class 7, Compound Tools, change "and" to a comma (,); change the period (.) to *and* and add *14.55.*;

in subclass 54, under "(2) Search Classes", in the reference to class 37, Excavating, add the following:

See also subclass 53, for hand manipulable ice and snow scrapers in which no material handling surface is provided.;

and in subclass 61, under "(2) Search Classes", cancel the reference to class 83, Mills, and insert:

30—CUTLERY, subclass 164.5, and indented subclasses, for spear-like devices for picking and chipping ice.

315, Electric Lamp and Discharge Devices, Systems (Division 54)

in subclass 137, under "Search Class", add:

175—ELECTRICITY—GENERAL APPLICATIONS, subclass 363 and indented subclasses, for rectifying systems using discharge devices which are supplied with polyphase alternating currents.;

in subclass 194, under "Search this class, subclass", cancel the words "Water Distribution", "Wireworking", "Woodworking Tools", and "Coopering";

and add the following:

Search Class—

175—ELECTRICITY—GENERAL APPLICATIONS, subclass 363 and indented subclasses, for rectifying and derectifying (inverter) systems using discharge control discharge devices in the system, the discharge control circuit includes means for shifting the phase of the control current and/or potential with respect to the pulsating current in the cathode-anode circuit of the discharge device.

TRADE-MARKS

OFFICIAL GAZETTE, AUGUST 17, 1943

[VOL. 553. No. 3]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 450,726. COURTAULDS, LIMITED, London, England. Filed Feb. 4, 1942.

HERAFIL

FOR IMITATION HAIR SOLD IN BUNDLES TO BE USED FOR THE MAKING OF UPHOLSTERY, FOR STUFFING, AND FOR MAKING FURNITURE SEATS.

Claims use since 1938.

Ser. No. 459,213. W. M. WELCH MANUFACTURING COMPANY, Chicago, Ill. Filed Mar. 18, 1943.

No claim is made to the word "Packd" alone.

POLAR PACKD

FOR BIOLOGICAL SPECIMENS WHICH CONSIST OF FROZEN MAMMALS, VERTIBRATES AND THE LIKE FOR USE IN LABORATORIES AND SCHOOLS FOR STUDY AND DISSECTING PURPOSES.

Claims use since Oct. 1, 1940.

CLASS 2

RECEPTACLES

Ser. No. 459,689. IOWA FIBER BOX COMPANY, Keokuk, Iowa. Filed Apr. 7, 1943.

The word "Pak" is disclaimed apart from the mark.

☆☆DUTI-PAK☆☆

FOR PAPER AND FIBER BOXES.

Claims use since Mar. 5, 1943.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 453,245. OTTO E. LINCK, doing business as Mistoff Products, Montclair, N. J. Filed May 25, 1942.

MISTOFF

FOR CHEMICALLY TREATED CLOTH FOR PREVENTING FOGGING OF GLASS WINDSHIELDS AND THE LIKE AND FOR PREVENTING STEAMING OF BATHROOM MIRRORS, KITCHEN WINDOWS, STORE SHOWCASES, EYEGLASSES, AND THE LIKE.

Claims use since Nov. 10, 1941.

Ser. No. 460,649. R. M. HOLLINGSHEAD CORP., Camden, N. J. Filed May 15, 1943.

ZADLE

FOR LEATHER PRESERVATIVE, VITALIZER, AND CLEANER.

Claims use since Apr. 21, 1943.

Ser. No. 461,546. CLUB ALUMINUM PRODUCTS CO., Chicago, Ill. Filed June 21, 1943.

Household Institute

FOR ALUMINUM CLEANER.

Claims use since Mar. 19, 1943.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 453,547. KELCO COMPANY, San Diego, Calif. Filed June 8, 1942.

MARLOID

FOR ALGIN PRODUCT FOR USE AS A BODYING, SUSPENDING, AND EMULSIFYING AGENT IN COSMETIC PREPARATIONS, SUCH AS CREAMS AND LOTIONS; ALSO IN PHARMACEUTICAL PREPARATIONS, SUCH AS OINTMENTS, JELLIES, SUSPENSIONS, DENTIFRICES, PILLS, AND EMULSIONS; ALSO IN INDUSTRIAL PREPARATIONS, SUCH AS SIZES, AND PRINT PASTES FOR TEXTILES, FINISHES FOR LEATHER, AND COATINGS FOR PAPER.
Claims use since May 22, 1942.

Ser. No. 453,659. A. R. BLOSSMAN, Covington, La. Filed June 15, 1942.
The drawing is lined for red.

Hydcatane

FOR LIQUIFIED PETROLEUM GAS.
Claims use since Nov. 1, 1941.

Ser. No. 459,276. FREDERICK STEARNS & COMPANY, Detroit, Mich. Filed Mar. 22, 1943.

NEO-SINEFRINA

FOR PREPARATION AS A VASOCONSTRICTOR HAVING LOCAL AND SYSTEMIC ACTION; FOR PROLONGING LOCAL ANESTHESIA AND FOR HEMOSTASIS; AS A DIURETIC AND/OR ANTIDIURETIC; TO LESSEN ASTHENIA; AND AS AN ANTISPASMODIC.
Claims use since Feb. 21, 1936.

Ser. No. 459,713. WINTHROP PRODUCTS INC., New York, N. Y. Filed Apr. 8, 1943.

PEPSAMAR

FOR ALUMINUM HYDROXIDE GEL PREPARATIONS USED AS ANTACIDS AND ABSORBENTS AND IN THE TREATMENT OF GASTRIC AND DUODENAL ULCER, GASTRITIS, AND HYPERACIDITY.
Claims use since Aug. 21, 1942.

Ser. No. 459,716. WINTHROP PRODUCTS INC., New York, N. Y. Filed Apr. 8, 1943.

REPODRAL

FOR ANTIMONY COMPOUND FOR INTRAMUSCULAR INJECTION USED IN THE TREATMENT OF GRANULOMA INQUINALY, BILHARZIASIS, AND OTHER PROTOZOAL INFECTIONS.
Claims use since July 3, 1942.

Ser. No. 459,717. WINTHROP PRODUCTS INC., New York, N. Y. Filed Apr. 8, 1943.

RICOLON

FOR PHARMACEUTICAL PREPARATION FOR USE AS A SHOCKLESS IMMUNIZING AGENT FOR NONSPECIFIC THERAPY USED IN THE TREATHENT OF INFECTIOUS DISEASES, COLDS, INFLUENZA, PNEUMONIA, ARTHRITIS, GONORRHEA, AND INFECTIONS OF EYE, EAR, NOSE, AND THROAT.
Claims use since July 3, 1942.

Ser. No. 459,723. HENRI BENDEL, INC., New York, N. Y. Filed Apr. 9, 1943.
The word "West" is disclaimed apart from the mark.

10 WEST

FOR PERFUMES, TOILET WATER, HAND AND FACE LOTIONS, FACE AND BATH POWDER, ROUGE, BATH OIL, BATH SALTS, SACHET AND LIPSTICK.
Claims use since Feb. 5, 1943.

Ser. No. 460,644. THE BENJAMIN ANSEHL CO., St. Louis, Mo. Filed May 15, 1943.

B4

FOR PROTECTIVE HAND LOTION.
Claims use since Mar. 1, 1943.

Ser. No. 460,820. WALKER VITAMIN PRODUCTS, INC., Mount Vernon, N. Y. Filed May 21, 1943.

BIACEN

FOR VITAMINS AND VITAMIN COMBINATIONS.
Claims use since January 1940.

Ser. No. 460,821. WALKER VITAMIN PRODUCTS, INC., Mount Vernon, N. Y. Filed May 21, 1943.

DEXALINE

FOR VITAMINS AND VITAMIN COMBINATIONS.
Claims use since January 1940.

Ser. No. 460,822. WALKER VITAMIN PRODUCTS, INC., Mount Vernon, N. Y. Filed May 21, 1943.

NEOBEXIN

FOR VITAMINS AND VITAMIN COMBINATIONS.
Claims use since June 1942.

Ser. No. 461,068. FREDERICK STEARNS & COMPANY, Detroit, Mich. Filed May 31, 1943.

PEDAMINS

FOR VITAMIN PREPARATION.
Claims use since May 22, 1943.

Ser. No. 461,069. FREDERICK STEARNS & COMPANY, Detroit, Mich. Filed May 31, 1943.

TOTAMINS

FOR VITAMIN PREPARATION.
Claims use since May 22, 1943.

Ser. No. 461,070. FREDERICK STEARNS & COMPANY, Detroit, Mich. Filed May 31, 1943.

ADOLAMINS

FOR VITAMIN PREPARATION.
Claims use since May 22, 1943.

Ser. No. 461,071. FREDERICK STEARNS & COMPANY, Detroit, Mich. Filed May 31, 1943.

PARTAMINS

FOR VITAMIN PREPARATION.
Claims use since May 22, 1943.

Ser. No. 461,120. SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland. Filed June 3, 1943.

OREMA

FOR CHEMICAL SUBSTANCES AND COLORING MATTERS FOR TEXTILE PRINTING AND DYEING.
Claims use since Jan. 8, 1943.

Ser. No. 461,121. SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland. Filed June 3, 1943.

UREOL

FOR CHEMICAL SUBSTANCES FOR USE IN THE FINISHING AND DRESSING OF TEXTILES.
Claims use since Feb. 5, 1943.

Ser. No. 461,133. COTY, INC., New York, N. Y. Filed June 4, 1943.

CAMBO

FOR FACE POWDER, DUSTING POWDER, TOILET WATER, PERFUME, SUNTAN OIL, SKIN AND HAIR LOTIONS, BRILLIANTINE, ROUGE COMPACTS, POWDER COMPACTS, LIPSTICKS, SACHET POWDERS, FACE CREAMS, BATH SALTS, TALCUM POWDERS, ROUGES.
Claims use since May 26, 1943.

Ser. No. 461,135. COTY, INC., New York, N. Y. Filed June 4, 1943.

VIBRANT RED

The word "Red" is disclaimed apart from the mark.
FOR FACE POWDER, DUSTING POWDER, TOILET WATER, PERFUME, SUNTAN OIL, SKIN AND HAIR LOTIONS, BRILLIANTINE, ROUGE COMPACTS, POWDER COMPACTS, LIPSTICKS, SACHET POWDERS, FACE CREAMS, BATH SALTS, TALCUM POWDERS, ROUGES.
Claims use since June 1, 1943.

Ser. No. 461,470. STERLING DRUG INC., Wilmington, Del. Filed June 17, 1943.

DR. CALDWELL'S



A LAXATIVE WITH CARMINATIVE

The portrait is that of Dr. W. B. Caldwell, deceased. No claim is made to the words "A Laxative With Carminative" apart from the mark.
FOR LAXATIVE WITH CARMINATIVE.
Claims use since Aug. 3, 1942.

Ser. No. 461,525. NOVOCOL CHEMICAL MFG. CO. INC., Brooklyn, N. Y. Filed June 19, 1943.

AMYLSINE

FOR ANESTHETICS.
Claims use since June 10, 1943.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 457,685. E. L. POST & Co., INC., New York, N. Y. Filed Dec. 31, 1942. Under 10-year proviso as to "Post's."
Applicant is the owner of Reg. #325,431 covering the mark "Post's" registered under the 10-year proviso of the 1905 act. The words "War Formula" are disclaimed apart from the mark.

POST'S WAR FORMULA

FOR BABBITT AND ANTI-FRICTION METAL.
Claims use since April 1942; and since 1891 for the word "Post's."

Ser. No. 457,699. CHRYSLER CORPORATION, Highland Park, Mich. Filed Jan. 1, 1943.

DAMASCITE

FOR INTERMEDIATE ARTICLE OF MANUFACTURE COMPOSED OF A COHERENT MASS OF COMPRESSED AND SINTERED POWDERED METAL.
Claims use since Oct. 2, 1942.

Ser. No. 457,700. CHRYSLER CORPORATION, Highland Park, Mich. Filed Jan. 1, 1943.

STRESSITE

FOR INTERMEDIATE ARTICLE OF MANUFACTURE COMPOSED OF A COHERENT MASS OF COMPRESSED AND SINTERED POWDERED METAL.
Claims use since Oct. 2, 1942.

CLASS 15

OILS AND GREASES

Ser. No. 441,631. THE PURE OIL COMPANY, Chicago, Ill. Filed Mar. 17, 1941.
Applicant makes no claim to the words "Dark" and "Valve" apart from the mark.

DARK PURO VALVE

FOR LUBRICATING OIL.
Claims use since Nov. 1, 1926.

Ser. No. 441,639. THE PURE OIL COMPANY, Chicago, Ill. Filed Mar. 17, 1941.
The numeral "650" is disclaimed apart from the mark.

650-Z

FOR LUBRICATING OIL.
Claims use since Jan. 1, 1923.

CLASS 16

PAINTS AND PAINTERS' MATERIALS

Ser. No. 459,747. DEVOE & RAYNOLDS COMPANY, INC., New York, N. Y. Filed Apr. 9, 1943.
Applicant disclaims the word "South" apart from the mark.

SOUTH SEAS

FOR MARINE PAINT.
Claims use since Dec. 1, 1938.

Ser. No. 460,584. SEAPORCEL CORPORATION, Long Island City, N. Y. Filed May 12, 1943.

SEAPORCEL

FOR PORCELAIN ENAMEL PARTICULARLY ADAPTED FOR STEEL PRODUCTS OF THE SEA—NAMELY, MARINE JOINER BULKHEADS, URINALS, WASH BASINS FOR MARITIME USE, AND THE LIKE.
Claims use since February 1942.

CLASS 19

VEHICLES, NOT INCLUDING ENGINES

Ser. No. 460,712. REPUBLIC AVIATION CORPORATION, East Farmingdale, N. Y. Filed May 18, 1943.

THUNDERBOLT

FOR AIRPLANES AND STRUCTURAL PARTS THEREOF.
Claims use since May 13, 1943.

Ser. No. 460,713. REPUBLIC AVIATION CORPORATION, East Farmingdale, N. Y. Filed May 18, 1943.
Applicant disclaims the representation of the goods apart from the mark.



FOR AIRPLANES AND STRUCTURAL PARTS THEREOF.
Claims use since May 13, 1943.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 449,169. COMMERCIAL METAL PRODUCTS CO., Chicago, Ill. Filed Dec. 4, 1941.

Compco

FOR INDUSTRIAL, COMMERCIAL, AND RESIDENTIAL INCANDESCENT AND FLUORESCENT LIGHTING UNITS, THESE ITEMS ALL BEING OF FLUORESCENT MANUFACTURE—NAMELY, INDUSTRIAL LUMINAIRE; RECTIFIED LUMINAIRE; OPEN TYPE COMMERCIAL LUMINAIRE; GLASS ENCLOSED COMMERCIAL LUMINAIRE; CHANNEL TROUGHS; WALL BRACKETS—OPEN TYPE; KITCHEN FIXTURE—OPEN TYPE; KITCHEN FIXTURE—PLASTIC COVERED; BED UTILITY LAMPS; DESK LAMPS; SWIVEL ADAPTORS; COVE LIGHTING FIXTURES; RECESSED LUMINAIRE; DRAFTING LUMINAIRE; RESIDENTIAL FIXTURE—OPEN TYPE; RESIDENTIAL FIXTURE—GLASS COVERED; RESIDENTIAL FIXTURE—PLASTIC COVERED; EXPLOSION PROOF INDUSTRIAL LUMINAIRE; INCANDESCENT KITCHEN LIGHTING FIXTURE; INCANDESCENT BATHROOM LIGHTING FIXTURE; ELECTRICAL FLOODLIGHTS—OUTDOOR; ELECTRICAL FLOODLIGHTS—INDOOR.
Claims use since February 1935.

Ser. No. 459,034. UNITED STATES RUBBER COMPANY, New York, N. Y. Filed Mar. 11, 1943.

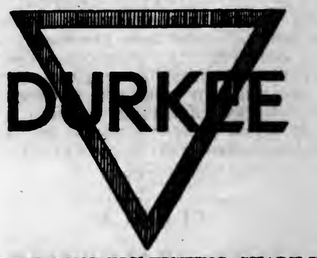
USKON

FOR RUBBER COMPOSITION IN SHEET FORM WITH ELECTRICALLY CONDUCTING PROPERTY.
Claims use since Jan. 16, 1942.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 459,260. DURKEE MARINE PRODUCTS CORPORATION, New York, and Grasmere, Staten Island, N. Y. Filed Mar. 22, 1943. Under 10-year proviso.
The drawing is lined for red.



FOR FLY RODS FOR FLY FISHING, SHARK HOOKS, EEL SPEARS, HARPOONS, DART SHAFTS, SWORD FISH GAFFS, NET HOOPS, DIP NET BOWS, TRAWL ROLLERS, NET LEADS, AND LEAD SINKERS.
Claims use since 1870.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 456,065. THE WESTINGHOUSE AIR BRAKE COMPANY, Borough of Wilmerding, Pa. Filed Oct. 7, 1942.

PNEUDYNE

FOR FLUID PRESSURE MOTOR AND CONTROL VALVE UNITS OPERATIVE BY REMOTE CONTROL TO ACTUATE THE MANEUVERING GEAR, CLUTCH OR OTHER MOTIVE MACHINERY OF A BOAT OR SHIP.
Claims use since July 9, 1942.

Ser. No. 459,205. R AND R PLASTICS INC., West Springfield, Mass. Filed Mar. 18, 1943.
Applicant disclaims an exclusive right to "Plastics" apart from the mark.

R and R Plastics Inc.

FOR HAMMERS.
Claims use since Oct. 10, 1940.

Ser. No. 459,397. THE BUDA COMPANY, Harvey, Ill. Filed Mar. 27, 1943.

BUDA

FOR ENGINES—NAMELY, GASOLINE ENGINES, DIESEL ENGINES, NATURAL GAS ENGINES, AUTOMOTIVE ENGINES, MARINE ENGINES AND ENGINES FOR BUSES, TRUCKS, TRACTORS, ROAD BUILDING EQUIPMENT, INDUSTRIAL POWER UNITS, AND GENERATOR SETS; PUMPS, POWER PUMPING UNITS; LIFTING JACKS, DRILLS, POWER PLANTS, AND RAILROAD MACHINERY AND TOOLS—NAMELY, TRACK DRILLS, BONDING DRILLS, TOOL GRINDERS, RAIL BENDERS, SWITCH STANDS, TIE PULLERS, TIE NIPPERS, TIE LINERS, CROSSING GATES, CAR REPLACERS, MECHANICAL SWITCHES, TIE TAMPERS, AND TRENCH BRACES; AND PARTS FOR EACH AND ALL OF THE FOREGOING.
Claims use since 1881.

Ser. No. 459,398. THE BUDA COMPANY, Harvey, Ill. Filed Mar. 27, 1943.

BUDA-LANOVA

FOR ENGINES AND PARTS—NAMELY, DIESEL ENGINES AND PARTS THEREOF.
Claims use since July 30, 1935.

Ser. No. 460,663. WISCONSIN FOUNDRY & MACHINE COMPANY, Madison, Wis. Filed May 15, 1943.

BADGER

FOR ROAD, PIT, AND QUARRY EQUIPMENT—NAMELY, CRUSHING, SCREENING, AND WASHING PLANTS, PORTABLE GRAVEL PLANTS, PORTABLE COMBINATION STONE AND GRAVEL PLANTS, SEMI-PORTABLE GRAVEL PLANTS, PORTABLE CRUSHER-ROLL SCREEN STONE PLANTS, SEMI-PORTABLE STONE PLANTS, FOLDING ELEVATOR AND CRUSHER UNITS, DUPLEX CRUSHERS, VIBRATING SCREENS, ROLLER BEARING PRIMARY CRUSHERS, PORTABLE FEEDERS, PIT HOPPERS FOR LOADING PORTABLE CONVEYORS, STEEL FRAME CONVEYORS, CHANNEL FRAME CONVEYORS, BELT TROUGHING ROLLERS, REVOLVING SCREENS, DRAGLINE OR CHAIN DRIVE HOIST WITHOUT CABLE GUIDES OR BELT DRIVE HOIST WITH CABLE GUIDES MOUNTED ON SKIDS OR TRUCKS, HOIST DRAG SCRAPER BUCKETS, ROLLER BEARING CRUSHERS, VEHICULAR ROAD OILERS, PUMPS, AND PUMP JACKS.
Claims use since 1920.

Ser. No. 461,141. THE ISO-SPEEDIC COMPANY LIMITED, Coventry, Warwickshire, England. Filed June 4, 1943.

ISOSPEEDIC

FOR SPEED GOVERNORS AND REGULATORS FOR ENGINES AND MACHINES.
Claims use since February 1942.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 457,018. JACK STERN, doing business as Ovis Watch Co., New York, N. Y. Filed Nov. 24, 1942.

OVIS

FOR WATCHES.
Claims use since August 1939.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 454,389. BESSIRE & COMPANY, INC., Indianapolis, Ind., Louisville, Ky.; Columbus, Ohio, Atlanta, Ga., Memphis, Tenn., and Richmond, Va. Filed July 22, 1942.

No claim is made to the words "Products" or "Bessire & Company, Incorporated" except as shown. The drawing is lined for red and blue.

BESSIRE & COMPANY BESCO BESCO PRODUCTS

FOR DAIRY, BAKERY, AND CONFECTIONER'S BRUSHES—NAMELY, BAKERS', BENCH, BOTTLE, CAN, FLOOR, FLOUR, GREASE, MACHINE, MILK BOTTLE, MILK CAN, PASTEURIZER, PIPE, SAMPLE JAR, SCRUB, TEST BOTTLE, VAT BRUSHES AND SCRUBBERS WITH ARTICLE ENGAGING BLADES.

Claims use since 1918.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 461,263. NATIONAL FILTER CORPORATION, New York, N. Y. Filed June 9, 1943.

NFC

FOR FIBROUS AND CELLULOSIC FILTERING MATERIALS FOR PURIFYING LIQUIDS AND OILS, ASBESTOS FILTERING FIBERS AND FILTER MASSES MADE OF COTTON AND PULP.

Claims use since August 1941.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 444,210. YORK ICE MACHINERY CORPORATION, York, Pa. Filed June 4, 1941. Under section 5b of the act of 1905 as amended in 1920.

YORK

FOR AIR CONDITIONING APPARATUSES COMPRISING UNITS HAVING CASINGS, FANS AND COOLING COILS, UNITS HAVING CASINGS, FANS, COOLING COILS AND HEATING COILS, UNITS HAVING CASINGS, FANS, COOLING COILS, SPRAYERS AND PUMPS, AIR HUMIDIFYING UNITS AND AIR DEHUMIDIFYING UNITS.

Claims use since 1924.

Ser. No. 450,820. B. F. STURTEVANT COMPANY, Boston, Mass. Filed Feb. 6, 1942. Under 10-year proviso.

Sturtevant

FOR BLOWERS AND RADIATOR TYPE HEATING UNITS, FAN AND RADIATOR HEATING AND VENTILATING UNITS, AIR WASHERS, FUEL ECONOMIZERS, AIR HEATERS FOR FURNACES AND DRYING AND CONDITIONING PURPOSES, DRYING AND CONDITIONING KILNS, HOT-BLAST APPARATUS, STEAM BOILER AND FURNACE BLOWERS, VENTILATING FANS AND BLOWERS, BLOWER TYPE VENTILATING FANS AND BLOWERS, BLOWER TYPE VENTILATING SETS AND ROOF VENTILATORS.

Claims use since Oct. 1, 1873.

CLASS 37

PAPER AND STATIONERY

Ser. No. 435,501. INTERNATIONAL ASSOCIATION OF LIONS CLUBS, Chicago, Ill. Filed Aug. 29, 1940.

Applicant is the owner of Regs. Nos. 152,029 and 152,030.

LIONS L INTERNATIONAL

FOR STATIONERY—SPECIFICALLY, WRITING PAPER, CARDS, AND RECORD BOOKS.

Claims use since Dec. 31, 1921.

Ser. No. 459,256. CENTRAL PAPER COMPANY, INC., Muskegon, Mich. Filed Mar. 22, 1943.

Applicant disclaims the words "Central Paper Company, Inc.," "Manufacturers of," and "Custom Built and Specialty Papers." The drawing is lined for shading only.

CENTRAL PAPER COMPANY, INC. MANUFACTURERS OF CENTRALINE CUSTOM BUILT AND SPECIALTY PAPERS

FOR PAPER PRODUCTS—NAMELY, ABSORBENT PAPER, ACID FREE GUMMED, ACID OR ALKALI, ACID PROOF, ANTICORROSIVE, ANTIRUST, ANTITARNISH, ANTIRATTLE, ARMATURE PAPER, ASPHALT PAPERS, ASPHALT SATURATED, ASPHALT TREATED, ASPHALTING PAPER, ASPHALTED PAPER, BAG PAPERS, BAG LINERS, BAKELITE PAPERS, BARREL LINERS, BATTERY PAPERS, BLACKOUT, BLACK SPECIALTIES, BLEACHED, BLUEPRINT BASE, DRUG BONDS, BONDS, BOOK BACKING, BOX COVERING, BRISTOL, BURLAP LINED, BUTCHERS WRAP, CABLE WRAP, CAKE BAND PAPER, CARBONIZING, CARPET LINING, CAR LINERS, CARTRIDGE PAPERS, CASE LINING, CELLULOSE SPECIALTIES, CHRISTMAS WRAP, CIRCLES, COATING STOCK, COATED, COFFEE BAG, COIN WRAP, COLORED WRAP, CONDENSER PAPER, COIL WINDING PAPER, COMBINED PAPER, COVER, CORE BASE, CREPE PAPERS, CREPED KRAFT, CREPING STOCK, DECORATED WRAPPING, DELICATESSEN PAPER, DYE WIPING, DOILEY PAPER BASE, DUPLEX PAPER, DRUGGIST WRAPPING, DUSTING PAPER, ELECTRICAL INSULATION, ELECTRICAL CABLE FILLING, EMBOSSONG PAPERS, ENVELOPE PAPERS, FILE FOLDER STOCK, FLAME RESISTANT, FOIL MOUNTING STOCK, FOLDER STOCK, FROZEN FOOD WRAP, GIFT WRAPPING, GLASSINE, GLAZED PAPERS, GREASEPROOF PAPERS, GREASE RESISTANT PAPERS, GUMMED PAPERS, GUMMED VENEERED TAPE, IMITATION PRESSBOARD, INDEX BOARD, INSULATING PAPER, INTERLEAVING. KRAFT SPECIALTIES, KRAFT PAPERS, KRAFT STENCIL BOARD, CRINKLED, LACED PAPER BASE, LACQUER COATED, LAMINATED PAPERS, LOCKER PAPERS, MANIFOLD, WATER REPELLENT PAPERS, NON-FLAMING, NURSERY WRAPS, OILED BOARD, ONION SKIN, MILL WRAPPERS, MOISTURE PROOF, OILED TYMPAN, OILED STENCIL BOARD, OILED KRAFT, IMITATION PARCHMENT, PATTERN PAPER, PIN TICKET STOCK, PLEATING PAPERS, POSTER PAPERS, POULTRY HEAD WRAP, REINFORCED PAPERS, SATURATED PAPERS, SATURATING PAPERS, SECOND SHEETS, SIGN PAPER, SPECIALTIES, PRINTED PAPERS, SHEATHING, SHELLAC COATED, SILICATING, STENCIL BOARD, STRIPED PAPERS, TABLE CLOTHS, TAG, TECHNICAL PAPERS, STEEL WRAP, SUPERCALENDERED, SURGICAL SHEETS, TEXTILE PAPERS, TICKET STOCK, TILE PAPER, TISSUE, TWISTING PAPER, TUBE STOCK, VARNISHING PAPER, WET STRENGTH PAPER, WINDOW SHADE PAPER, TIRE WRAP.

Claims use since Mar. 6, 1943.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 453,936. FRAVESSI-LAMONT, INC., New York, N. Y. Filed June 29, 1942.

gozzie

FOR GREETING CARDS.

Claims use since Mar. 1, 1942.

Ser. No. 454,328. THE BROOKLYN EAGLE, INC., Brooklyn, N. Y. Filed July 21, 1942.

No claim is made to the word "Brooklyn" apart from the mark.

BROOKLYN EAGLE

FOR NEWSPAPER.

Claims use since Sept. 5, 1938.

Ser. No. 459,000. JOHN C. FRAZEE, doing business as Liberty Perpetual Calendar, Kernville, Calif. Filed Mar. 10, 1943.

No claim is made to the words "Perpetual Calendar" apart from the mark.

LIBERTY PERPETUAL CALENDAR

FOR PERPETUAL CALENDAR.

Claims use since Mar. 3, 1943.

Ser. No. 461,109. EASTMAN KODAK COMPANY, Jersey City, N. J., and Rochester, N. Y. Filed June 3, 1943.

KODACOLOR

FOR PHOTOGRAPHIC PRINTS.

Claims use since Jan. 29, 1942.

Ser. No. 461,482. COMMUNITY HERALD, Kansas City, Mo. Filed June 12, 1943.

COMMUNITY HERALD

FOR WEEKLY PUBLICATION IN THE NATURE OF A NEWSPAPER OR MAGAZINE.

Claims use since 1935.

CLASS 39

CLOTHING

Ser. No. 459,303. THE FLORSHEIM SHOE COMPANY, Chicago, Ill. Filed Mar. 24, 1943.

FLEXCEL

FOR SHOES OF LEATHER, FABRIC, AND RUBBER, AND COMBINATIONS THEREOF.

Claims use since December 1942.

Ser. No. 461,001. MCMULLEN-LEAVENS COMPANY, New York, N. Y. Filed May 28, 1943.

No claim is made to the word "Fashions" apart from the mark.

BACKLOG FASHIONS

FOR MEN'S DRESS AND NEGLIGEE SHIRTS, MEN'S AND WOMEN'S PAJAMAS, SHORTS AND UNDERWEAR, AND WOMEN'S WEARING APPAREL—NAMELY, BLOUSES, DRESSES, HATS, CAPS, BERETS, AND RIDING SHIRTS AND HABITS.

Claims use since May 8, 1943.

Ser. No. 461,233. TRABULSI TEXTILE CO., New York, N. Y. Filed June 8, 1943.

LAMPACA

FOR MUFFLERS, SCARFS, AND MEN'S NECKTIES.

Claims use since Mar. 15, 1943.

Ser. No. 461,319. KENOSHA FULL FASHIONED MILLS, INC., Kenosha, Wis. Filed June 11, 1943.

Edgecraft

FOR HOSIERY.
Claims use since May 11, 1943.

Ser. No. 461,440. MINES & FLASTER COAT CO., New York, N. Y. Filed June 16, 1943.

Stanville Park

FOR MISSES' AND JUNIOR MISSES' COATS, SUITS, AND COAT AND SUIT ENSEMBLES.
Claims use since June 1, 1942.

CLASS 42

KNITTED, NETTED, AND TEXILE FABRICS

Ser. No. 459,952. THE WOOLEN CORPORATION OF AMERICA, New York, N. Y. Filed Apr. 16, 1943.



FOR WOOLEN, WORSTED, AND COTTON FABRICS IN THE PIECE.
Claims use since Apr. 25, 1927.

CLASS 43

THREAD AND YARN

Ser. No. 461,360. A. B. CARTER, INC., Gastonia, N. C. Filed June 14, 1943.

DEWCAR

FOR RAYON YARN.
Claims use since Apr. 28, 1943.

CLASS 45

BEVERAGES, NONALCOHOLIC

Ser. No. 456,706. MARY ZERBO, New York, N. Y. Filed Nov. 7, 1942.

Alexander THE GREAT

FOR NONALCOHOLIC MALTLESS BEVERAGE.
Claims use since Apr. 19, 1941.

Ser. No. 460,244. REID, MURDOCH & CO., Chicago, Ill. Filed Apr. 28, 1943.

MONARCH

FOR GRAPE JUICE.
Claims use since August 1900.

Ser. No. 461,009. THE SEVEN-UP COMPANY, St. Louis, Mo. Filed May 28, 1943. Under the act of February 20, 1905, as amended June 10, 1938.
The drawing is lined for red.



FOR CARBONATED, NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS.
Claims use since April 1931.

Ser. No. 461,537. CASCO BOTTLING COMPANY, Portland, Maine. Filed June 21, 1943.

Casco

FOR NONALCOHOLIC BEVERAGES AND SYRUPS AND EXTRACTS FOR THE MAKING OF THE SAME.
Claims use since 1927.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 455,373. HILLSBOROUGH PACKING COMPANY, INC., Tampa, Fla. Filed Sept. 5, 1942.

GULF PRINCE



FOR FRESH CITRUS FRUITS.
Claims use since Oct. 15, 1940.

Ser. No. 457,711. WALTER SCHOENFELD, doing business as Grain Candy Bar Manufacturing Company, St. Paul, Minn. Filed Jan. 1, 1943.

O-Ho-Cho

FOR CANDY BARS.
Claims use since Sept. 1, 1942.

Ser. No. 460,345. R. C. NICOLL, doing business as Valerie Jean Date Shop, Thermal, Calif. Filed May 1, 1943.



FOR PACKAGES CONTAINING DATE CAKE, DATE CANDY, STUFFED DATES, AND FRESH DATES.
Claims use since September 1939; and since June 1929 for "Valerie Jean."

Ser. No. 460,952. COMPAÑIA MERCANTIL AZUCARERA SAN AGUSTIN, Havana, Cuba. Filed May 27, 1943.

SITIO LIBORIO

FOR REFINED SUGAR, MOLASSES, CANE-JUICE SYRUP, AND JUICE OF THE SUGAR CANE.
Claims use since Apr. 10, 1943.

Ser. No. 460,988. ELWAY FOOD PRODUCTS CORP., New York, N. Y. Filed May 28, 1943.

Vitamalt

FOR ROASTED MALT FOR BLENDING WITH COFFEE.
Claims use since June 1942.

Ser. No. 461,019. KINGAN & CO. INCORPORATED, Indianapolis, Ind. Filed May 29, 1943.

Forest Brook

FOR CREAMERY BUTTER.
Claims use since June 1, 1936.

Ser. No. 461,080. MOR-PAK PRESERVING CORPORATION, San Francisco, Calif. Filed June 1, 1943.
The applicant is the owner of registration No. 209,387, dated Feb. 23, 1926. No claim is made to the word "Pak" apart from the mark.

MOR-PAK

FOR CANNED FRUITS AND VEGETABLES.
Claims use since Aug. 29, 1925.

Ser. No. 461,349. NAT NEWMAN, INC., Atlantic City, N. J. Filed June 12, 1943.

LAN D'ORSEY

FOR CANDY.
Claims use since December 1942.

Ser. No. 461,405. ZION INDUSTRIES, INC., Zion, Ill. Filed June 14, 1943.

Enjoy LIFE

FOR CANDY.
Claims use since May 1, 1943.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 456,761. AMERICAN VISCOSE CORPORATION, Wilmington, Del. Filed Nov. 12, 1942.

AVCOLITE

FOR FILMS, SHEETS, RODS, AND TUBES OF PLASTIC MATERIAL.
Claims use since Oct. 28, 1942.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

AUGUST 17, 1943

402,813. BAMBOO, BRISTLES, CASSIA, FEATHERS, GALANGAL, GALLNUTS, HORSE HAIR, HUMAN HAIR, SEA GRASS, SESAME, SILK, SILK WASTE, TSINGLEE CANE, TUNGSTEN ORE, AND WOLFRAM ORE. KANE IMPORT CORPORATION, New York, N. Y.
Filed September 11, 1941. Serial No. 446,970. PUBLISHED JUNE 8, 1943. Class 1.

402,814. CANDY. GUTMAN BROS., doing business as Elk Sales Co., New York, N. Y.
Filed September 19, 1941. Serial No. 447,184. PUBLISHED JANUARY 12, 1943. Class 46.

402,815. JEWELRY—NAMELY, TIE CLASPS, ORNAMENTAL COIN KNIVES, BUTTONS, PINS AND CHARMS, MADE OF OR PLATED IN WHOLE OR IN PART WITH PRECIOUS METAL. RETAIL CLERKS INTERNATIONAL PROTECTIVE ASSOCIATION, La Fayette, Ind.
Filed December 18, 1941. Under the act of February 20, 1905, as amended June 10, 1938. Serial No. 449,587. PUBLISHED JUNE 8, 1943. Class 28.

402,816. COTTON TWILL SHIRTINGS. REEVES BROTHERS, INC., New York, N. Y.
Filed December 31, 1941. Serial No. 449,918. PUBLISHED MAY 26, 1942. Class 42.

402,817. ELECTRICAL APPARATUS FOR TESTING INSULATION RESISTANCE AND ELECTRICAL APPARATUS FOR TESTING EARTH RESISTANCE, EACH COMPRISING AN ELECTRIC GENERATOR AND AN ELECTRIC MEASURING INSTRUMENT. EVERSHED & VIGNOLES LIMITED, London, England.
Filed March 10, 1942. Serial No. 451,531. PUBLISHED JUNE 8, 1943. Class 26.

402,818. DYNAMO-ELECTRIC ADJUSTABLE SPEED DRIVE COMPRISING ONE OR MORE MOTORS AND A VOLTAGE CONTROL GENERATING UNIT. THE RELIANCE ELECTRIC & ENGINEERING COMPANY, Cleveland, Ohio.
Filed March 23, 1942. Serial No. 451,857. PUBLISHED JUNE 8, 1943. Class 21.

402,819. FABRICS OF COTTON, RAYON, WOOL, AND SILK, AS WELL AS COMBINATIONS THEREOF. RIVERSIDE & DAN RIVER COTTON MILLS, INC., Danville, Va., and New York, N. Y.
Filed July 18, 1942. Serial No. 454,311. PUBLISHED OCTOBER 13, 1942. Class 42.

402,820. SEMI-GREASE-PROOF PARCHMENT USED FOR WRAPPING AND PACKAGING. HUFF, BARNES & OPIE, INC., Pittsburgh, Pa.
Filed August 13, 1942. Serial No. 454,891. PUBLISHED JUNE 8, 1943. Class 37.

402,821. SEMI-GREASE-PROOF PARCHMENT FOR WRAPPING AND PACKAGING. HUFF, BARNES & OPIE, INC., Pittsburgh, Pa.
Filed August 13, 1942. Serial No. 454,892. PUBLISHED JUNE 8, 1943. Class 37.

402,822. LADIES' UNDERWEAR. BLUE SWAN MILLS, INC., New York, N. Y.
Filed September 5, 1942. Serial No. 455,363. PUBLISHED NOVEMBER 17, 1942. Class 39.

402,823. ANTACID FOR SOUR STOMACH, ACID INDIGESTION AND HEARTBURN. NYAL COMPANY, Detroit, Mich.
Filed September 21, 1942. Serial No. 455,669. PUBLISHED JUNE 8, 1943. Class 6.

402,824. DECORATIVE ARTICLES MADE OF LINEN, COTTON, RAYON, AND COMBINATIONS THEREOF—NAMELY, BRIDGE, LUNCHEON AND DINNER SETS, SCARFS, TABLE CLOTHS, NAPKINS, PILLOW CASES AND DOILIES. CENTRAL MADEIRA CORPORATION, New York, N. Y.
Filed October 23, 1942. Serial No. 456,364. PUBLISHED JUNE 1, 1943. Class 42.

402,825. PIECE GOODS OF SHEER RAYON AND RAYON. STERN & STERN TEXTILE IMPORTERS INC., New York, N. Y.
Filed October 27, 1942. Serial No. 456,477. PUBLISHED MAY 11, 1943. Class 42.

402,826. NAPHTHALENE, TAR DISTILLATE HYDROCARBON OILS FOR IMPREGNATING WOOD AND OTHER PURPOSES, CREOSOTE OILS, DISINFECTANTS, ETC. ALLIED CHEMICAL & DYE CORPORATION, New York, N. Y.
Filed October 28, 1942. Serial No. 456,483. PUBLISHED JUNE 8, 1943. Class 6.

402,827. PAINTS—NAMELY, BITUMINOUS PAINTS, PROTECTIVE PAINTS, READY MIXED PAINTS, AND OILS USED AS VEHICLES IN MAKING STAINS. ALLIED CHEMICAL & DYE CORPORATION, New York, N. Y.
Filed October 28, 1942. Serial No. 456,485. PUBLISHED JUNE 8, 1943. Class 16.

402,828. SENSITIZED PHOTOGRAPHIC FILM. GENERAL ANILINE & FILM CORPORATION, New York, and Binghamton, N. Y.
Filed October 31, 1942. Serial No. 456,556. PUBLISHED JUNE 8, 1943. Class 26.

402,829. RADIO AND RADIO-PHONOGRAPH SETS, RECEIVING AND TRANSMITTING: AUDIO FREQUENCY AMPLIFIERS; LOUD-SPEAKERS. ELECTRICAL AND MAGNETIC, AND PARTS THEREOF, ETC. THE MAGNAVOX COMPANY, Fort Wayne, Ind.
Filed November 5, 1942. Serial No. 456,656. PUBLISHED JUNE 8, 1943. Class 21.

402,830. ENZYMES FOR IMPROVING CHILL STABILITY OF BEERS AND ALES. VITA-ZYME LABORATORIES, INC., Chicago, Ill.
Filed November 14, 1942. Serial No. 456,836. PUBLISHED JUNE 8, 1943. Class 48.

402,831. PREPARATION MADE OF ROASTED CEREALS AND USED AS A CEREAL BEVERAGE. ANTHONY A. RODERICK, Hartford, Conn.
Filed November 20, 1942. Serial No. 456,947. PUBLISHED JUNE 8, 1943. Class 46.

402,832. WOMEN'S DRESS SLIPS. RANDOLPH UNDERWEAR CO., INCORPORATED, Randleman, N. C.
Filed November 24, 1942. Serial No. 457,010. PUBLISHED FEBRUARY 23, 1943. Class 39.

402,833. THINNER FOR RESINOUS AND CELLULOSE CEMENTS AND A SOLVENT THINNER FOR EMBALMERS' USE. FRED L. TRICKEY, doing business as Nitroloid Company, Berlin, Wis.
Filed November 25, 1942. Serial No. 457,056. PUBLISHED JUNE 8, 1943. Class 6.

402,834. MAGNETIC CONTROLS FOR PRODUCING MECHANICAL MOVEMENTS FOR OPERATING ELECTRIC SWITCHES AND RELAYS. PRICE BROS., INC., Frederick, Md.
Filed December 12, 1942. Serial No. 457,368. PUBLISHED JUNE 8, 1943. Class 21.

402,835. WASHING COMPOUNDS. READE MANUFACTURING COMPANY, INC., Jersey City, N. J.
Filed December 19, 1942. Serial No. 457,530. PUBLISHED JUNE 8, 1943. Class 4.

402,836. SOLVENT USED IN CLEANING BOILERS, CORRODED PIPES, ENGINE JACKETS, AND COOLING TOWERS. C. F. STUARD, doing business as C & S Chemical Supply Company, Chickasha, Okla.
Filed March 12, 1942. Serial No. 451,583. PUBLISHED JUNE 8, 1943. Class 6.

402,837. GROUND SURFACED, NAPPED, FLEXIBLE, COTTON PIECE GOODS. SOUTHERN FRICTION MATERIALS COMPANY, Charlotte, N. C.
Filed December 26, 1942. Serial No. 457,618. PUBLISHED JUNE 1, 1943. Class 42.

402,838. FURNITURE POLISH. EDWARD S. CARMACK, doing business as Zip Manufacturing Company, Little Rock, Ark.
Filed January 13, 1943. Serial No. 457,893. PUBLISHED MARCH 9, 1943. Class 16.

402,839. ASCARIDOLE; ATROPINE SULFATE, U. S. P.; BISMUTH SALICYLATE CREAM WITH CAMPHOR; MERCUROUS CHLORIDE, U. S. P. (CALOMEL), ETC. BURROUGHS WELLCOME & CO. (U. S. A.) INC., New York, N. Y.
Filed January 19, 1943. Serial No. 458,008. PUBLISHED JUNE 8, 1943. Class 6.

402,840. COTTON PICKERS' CLOTH BAGS AND SACKS. THE CHASE BAG COMPANY, New York, N. Y.
Filed January 20, 1943. Serial No. 458,033. PUBLISHED JUNE 8, 1943. Class 2.

402,841. SENIOR TITRIMETER, AN ELECTROMETRIC TITRATION INSTRUMENT; INFRA-REDIATOR, A HEATING DEVICE EMPLOYING INFRARED LAMPS, ETC. FISHER SCIENTIFIC COMPANY, Pittsburgh, Pa.
Filed January 25, 1943. Serial No. 458,150. PUBLISHED JUNE 8, 1943. Class 26.

402,842. WOOD PRESERVATIVES. WOOD TREATING CHEMICALS CO., St. Louis, Mo.
Filed February 2, 1943. Serial No. 458,311. PUBLISHED JUNE 8, 1943. Class 6.

402,843. OIL OF CITRONELLA, SWEET OIL, CAMPHORATED OIL, CASTOR OIL, OIL OF WINTERGREEN, VITAMIN B_1 TABLETS, ETC. NATIONAL PACKAGE DRUGS, INC., St. Louis, Mo.
Filed February 4, 1943. Serial No. 458,336. PUBLISHED JUNE 8, 1943. Class 6.

402,844. MEDICAL OXYGEN, MEDICAL NITROUS OXIDE, MEDICAL HI-PURE NITROUS OXIDE, MEDICAL CARBON DIOXIDE, MEDICAL OXYGEN-CARBON DIOXIDE MIXTURE AND HELIUM. STUART OXYGEN CO., San Francisco, Calif.
Filed February 8, 1943. Serial No. 458,413. PUBLISHED JUNE 8, 1943. Class 6.

402,845. MEDICAL OXYGEN, MEDICAL NITROUS OXIDE, MEDICAL HI-PURE NITROUS OXIDE, MEDICAL CARBON DIOXIDE, MEDICAL OXYGEN-CARBON DIOXIDE MIXTURE AND HELIUM. STUART OXYGEN CO., San Francisco, Calif.
Filed February 8, 1943. Serial No. 458,414. PUBLISHED JUNE 8, 1943. Class 6.

402,846. IMPREGNATING SUBSTANCES, FUNGICIDES, SOLVENTS FOR CELLULOSE, WATERPROOFING SUBSTANCES. APPLIED CHEMICAL CORPORATION, New York, N. Y.
Filed February 17, 1943. Serial No. 458,579. PUBLISHED JUNE 8, 1943. Class 6.

402,847. PORTABLE FILE CABINET FOR PHONOGRAPH RECORDS. I. M. HESCHELES, INC., New York, N. Y.
Filed February 18, 1943. Serial No. 458,611. PUBLISHED JUNE 8, 1943. Class 32.

402,848. POTATOES IN THEIR NATURAL STATE. MAINE POTATO GROWERS, INC., Presque Isle, Maine.
Filed February 24, 1943. Serial No. 458,735. PUBLISHED JUNE 8, 1943. Class 46.

402,849. ELECTRIC FLOOR POLISHING MACHINES. S. C. JOHNSON & SON, INC., Racine, Wis.
Filed February 26, 1943. Serial No. 458,784. PUBLISHED JUNE 8, 1943. Class 21.

402,850. MILK OF SOYA. CHAPMAN & SMITH COMPANY, Chicago, Ill.
Filed February 27, 1943. Serial No. 458,803. PUBLISHED JUNE 8, 1943. Class 46.

402,851. MILK OF SOYA. CHAPMAN & SMITH COMPANY, Chicago, Ill.
Filed March 5, 1943. Serial No. 458,908. PUBLISHED JUNE 8, 1943. Class 46.

402,852. CARBON BLACK IN THE FORM OF DRY, FLUFFY POWDER USED AS THE CONDUCTING CARBON FOR DEPOLARIZING MIX IN DRY CELL BATTERIES. THE L. MARTIN CO. INC., New York, N. Y.
Filed March 10, 1943. Serial No. 459,009. PUBLISHED JUNE 8, 1943. Class 21.

402,853. SHAMPOOS CONSISTING OF LIQUID HAIR CREAM CONDITIONER AND LOTIONS CONSISTING OF PERMANENT WAVING SOLUTIONS. BONAT & BONAT, INC., New York, N. Y.
Filed February 20, 1943. Serial No. 459,036. PUBLISHED JUNE 8, 1943. Class 6.

402,854. PACKAGE CONSISTING OF V-MAIL STATIONERY, WRITING FLUID, AND LEADS FOR A MECHANICAL PENCIL. W. A. SHEAFFER PEN COMPANY, Fort Madison, Iowa.
Filed March 13, 1943. Serial No. 459,089. PUBLISHED JUNE 8, 1943. Class 50.

402,855. ELECTRIC FURNACES. CHICAGO FLEXIBLE SHAFT COMPANY, Chicago, Ill.
Filed March 15, 1943. Serial No. 459,106. PUBLISHED JUNE 8, 1943. Class 21.

402,856. ALLOYS FOR SILVER BRAZING AND SOLDERING. H. R. WILLIAMS, **doing business as Fusion** Engineering, Cleveland, Ohio.
Filed March 17, 1943. Serial No. 459,182. PUBLISHED JUNE 8, 1943. Class 14.

402,857. WOOLEN AND WORSTED FABRICS IN THE PIECE. BULKLEY, WEINBERG & TORMEY, INCORPORATED, New York, N. Y.
Filed March 22, 1943. Serial No. 459,255. PUBLISHED MAY 18, 1943. Class 42.

402,858. MEDICINAL PREPARATION FOR THE TREATMENT OF INTESTINAL INFLAMMATIONS AND STOMACH DISORDERS. PINUS MEDICINE COMPANY, Monticello, Ill.
Filed March 22, 1943. Serial No. 459,270. PUBLISHED JUNE 8, 1943. Class 6.

402,859. TIRE PATCHES. CHARLES A. CORNELL, doing business as The Technical Rubber Company, Johnstown, Ohio.
Filed March 24, 1943. Serial No. 459,300. PUBLISHED JUNE 8, 1943. Class 35.

402,860. BILE SALTS COMPOSITIONS. SCHERING & GLATZ, INC., New York, N. Y.
Filed March 24, 1943. Serial No. 459,317. PUBLISHED JUNE 8, 1943. Class 6.

402,861. SOYA BEAN SAUCE FOR SEASONING FOOD. GEORGE YONEO TADANO, doing business as Showa Shoyu Brewing Co., Glendale, Ariz.
Filed March 24, 1943. Serial No. 459,319. PUBLISHED JUNE 8, 1943. Class 46.

402,862. MEN'S ORNAMENTAL JEWELRY—NAMELY, TIE CLASPS, CUFF LINKS, COLLAR CLASPS, FOBS, STUDS, TIE PINS, TIE BARS, ETC. GLOBE NOVELTY HOUSE, New York, N. Y.
Filed March 25, 1943. Serial No. 459,337. PUBLISHED JUNE 8, 1943. Class 28.

402,863. SHEETS AND PILLOWCASES. PACIFIC MILLS, Lawrence and Boston, Mass.
Filed March 26, 1943. Serial No. 459,375. PUBLISHED MAY 25, 1943. Class 42.

402,864. COFFEE. G. WASHINGTON COFFEE REFINING COMPANY, Morris Plains, N. J.
Filed March 26, 1943. Serial No. 459,385. PUBLISHED JUNE 8, 1943. Class 46.

402,865. YARNS, THREADS, AND YARN AND THREAD FILAMENTS. AMERICAN VISCOSE CORPORATION, Wilmington, Del.
Filed March 27, 1943. Serial No. 459,391. PUBLISHED JUNE 8, 1943. Class 43.

402,866. SHOE AND BOOT POLISH. GENERAL SHOE CORPORATION, Nashville, Tenn.
Filed March 27, 1943. Serial No. 459,414. PUBLISHED JUNE 8, 1943. Class 4.

402,867. INDUSTRIAL WIPING TOWELS. CALLAWAY MILLS, La Grange, Ga.
Filed March 29, 1943. Serial No. 459,460. PUBLISHED JUNE 8, 1943. Class 42.

402,868. TUMBLING DEVICES CONSISTING OF CANVAS SHEET STRETCHED BY SPRINGS IN A RIGID FRAMEWORK. GEORGE P. NISSEN, Cedar Rapids, Iowa.
Filed March 29, 1943. Serial No. 459,495. PUBLISHED JUNE 8, 1943. Class 22.

402,869. COMPOUNDS FOR USE IN AQUEOUS SOLUTIONS TO DARKEN METAL SURFACES. MITCHELL-BRADFORD CHEMICAL COMANY, Bridgeport, Conn.
Filed April 1, 1943. Serial No. 459,571. PUBLISHED JUNE 8, 1943. Class 6.

402,870. FRESH CITRUS FRUITS. EXETER ORCHARDS ASS'N. INC., Exeter, Calif.
Filed April 3, 1943. Serial No. 459,594. PUBLISHED JUNE 8, 1943. Class 46.

402,871. COMPACTS MADE OF BASE METALS OR SYNTHETIC MATERIALS AND SOLD IN TRADE EMPTY. HARRY MORRIS, Chicago, Ill.
Filed April 5, 1943. Serial No. 459,629. PUBLISHED JUNE 8, 1943. Class 2.

402,872. PREPARATION USED AS A LEATHER DRESSING AND LEATHER PRESERVATIVE AND HAVING INCIDENTAL CLEANSING PROPERTIES. THE PROTECTITE COMPANY, Houston, Tex.
Filed April 5, 1943. Serial No. 459,634. PUBLISHED JUNE 8, 1943. Class 4.

402,873. WAR RATION BOOK HOLDERS OR COVERS. H. LEVINE & COMPANY, Cleveland, Ohio.
Filed April 9, 1943. Serial No. 459,757. PUBLISHED JUNE 8, 1943. Class 3.

402,874. RECTAL OINTMENTS. PETROGALAR LABORATORIES, INC., Chicago, Ill.
Filed April 9, 1943. Serial No. 459,762. PUBLISHED JUNE 8, 1943. Class 6.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

402,875. (CLASS 1. RAW OR PARTLY PREPARED MATERIALS.) EDGEWOOD FARMS, INC., Ridgefield, N. J. Filed June 3, 1943. Serial No. 461,110.

Turfine Green

FOR GRASS SEEDS.
Claims use since Feb. 26, 1942.

402,876. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE CONNECTICUT CHEMICAL AND DISINFECTANT CO., New Haven, Conn. Filed May 27, 1943. Serial No. 460,954.

DEATH TO ROACHES



FOR INSECTICIDES.
Claims use since Nov. 20, 1918.

402,877. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MODERN MAID FOOD PRODUCTS, Brooklyn, N. Y. Filed May 12, 1943. Serial No. 460,574.

REDI-BREADER

FOR BREADING MIX COMPOSED OF TOASTED WHEAT, POWDERED EGGS, POWDERED SKIM MILK, SPICES, CAROTENE OIL, AND WHEAT FLOUR.
Claims use since July 1, 1942.

402,878. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) RIVERSIDE & DAN RIVER COTTON MILLS, INC., Danville, Va. Filed Apr. 9, 1943. Serial No. 459,768.

STANHOPE

FOR COTTON PIECE GOODS.
Claims use since July 1941.

402,879. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WAWAK COMPANY INC., Chicago, Ill. Filed Dec. 5, 1942. Serial No. 457,231.

SUPER COOL

FOR PIECE GOODS—NAMELY, WORSTED AND MOHAIR SUMMER SUITINGS.
Claims use since Nov. 20, 1941.

402,880. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HOZ-RE-DYE COMPANY, Los Angeles, Calif. Filed Oct. 9, 1942. Serial No. 456,100.

Hoz-Re-Dye

FOR DYE IN PILL OR TABLET FORM FOR LADIES' HOSIERY.
Claims use since June 4, 1942.

402,881. (CLASS 39. CLOTHING.) WIRK GARMENT CORPORATION, Chicago, Ill. Filed Aug. 27, 1942. Serial No. 455,149.

WARWIRK

FOR ONE-PIECE OUTER GARMENTS FOR MEN AND WOMEN COMMONLY KNOWN AS COVERALLS.
Claims use since May 26, 1942.

402,882. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) SCHERL & ROTH, INC., Cleveland, Ohio. Filed Aug. 7, 1942. Serial No. 454,782.

ROTH
BAND INSTRUMENTS

FOR CORNETS, TRUMPETS, TROMBONES, ALTOS, BARITONES, BASSES, SOUSAPHONES, FRENCH HORNS, CLARINETS, SAXOPHONES, OBOES, FLUTES, PICCOLOS, BASSOONS.
Claims use since Sept. 20, 1940.

402,883. (CLASS 32. FURNITURE AND UPHOLSTERY.) RELIABLE STORES CORPORATION, Baltimore, Md. Filed July 20, 1942. Serial No. 454,348.

Fairfax House

FOR CHAIRS, TABLES, SOFAS, DESKS, BED SPRINGS, MATTRESSES, SOFA BEDS, STUDIO COUCHES, MIRRORS, AND BREAKFAST SUITES CONSISTING OF TABLES AND CHAIRS.
Claims use since June 19, 1942.

402,884. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) N. P. ECONOMOU, doing business as Riverview Food Products Co., Los Angeles, Calif. Filed July 4, 1942. Serial No. 454,054.

RIVERVIEW

FOR CANNED FISH.
Claims use since June 24, 1942.

402,885. (CLASS 30. CROCKERY, EARTHENWARE, AND PORCELAIN.) FRANK F. KATZ, INC., New York, N. Y. Filed June 24, 1942. Serial No. 453,842.

FRANKLIN KENT CREATIONS

FOR CHINA DINNER SETS.
Claims use since June 10, 1942.

402,886. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) ENDLESS BELT CORPORATION, Pisgah Forest, N. C. Filed June 19, 1942. Serial No. 453,749.

ENDLESS WOVEN

FOR LINEN, COTTON, AND OTHER FABRIC ENDLESS BELTS SUITABLE FOR FORMING, ELEVATING, AND CONVEYING PURPOSES.
Claims use since Nov. 27, 1918.

402,887. (CLASS 39. CLOTHING.) INTERWOVEN STOCKING COMPANY, New Brunswick, N. J. Filed June 13, 1942. Serial No. 453,640.

Nu-V-Top

FOR HOSIERY.
Claims use since June 2, 1942.

402,888. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) LOS ANGELES SOAP COMPANY, Los Angeles, Calif. Filed May 28, 1942. Serial No. 453,335.

LOS ANGELES

FOR GRANULATED SOAP.
Claims use since Mar. 27, 1942.

402,889. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS.) THE LIQUID CARBONIC CORPORATION, Chicago, Ill. Filed Apr. 23, 1942. Serial No. 452,583.

Gasweld

FOR WELDING TORCHES, CUTTING TORCHES, BRAZING TORCHES, PREHEATING TORCHES.
Claims use since Apr. 15, 1942.

402,890. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BEDFORD PRODUCTS, Dunkirk, N. Y. Filed Jan. 21, 1942. Serial No. 450,352.

An Unusual Jelly in a Reusable Tumbler

FOR FRUIT JELLIES.
Claims use since June 1941.

TRADE-MARK REGISTRATIONS RENEWED

23,873. **"WHITE ROCK" AND DRAWING.** NATURAL AND ARTIFICIAL MINERAL WATER, GINGER ALE, PHOSPHATE, OZONATED AND CARBONATED BEVERAGES. Registered November 28, 1893. WHITE ROCK MINERAL SPRING COMPANY, Waukesha, Wis. Renewed November 28, 1943, to White Rock Mineral Springs Company, New York, N. Y., a corporation of Wisconsin, assignee.

155,517. **"RP" AND DRAWING.** POTTERY WARE MADE FROM BURNED CLAY, WHETHER GLAZED OR UNGLAZED. Registered May 30, 1922. THE ROOKWOOD POTTERY COMPANY. Renewed May 30, 1942, to Sperti, Inc., Cincinnati, Ohio, a corporation of Ohio, assignee by mesne assignments.

155,518. **RP.** POTTERY WARE MADE FROM BURNED CLAY, WHETHER GLAZED OR UNGLAZED. Registered May 30, 1922. THE ROOKWOOD POTTERY COMPANY. Renewed May 30, 1942, to Sperti, Inc., Cincinnati, Ohio, a corporation of Ohio, assignee by mesne assignments.

155,519. **ROOKWOOD.** POTTERY WARE MADE FROM BURNED CLAY, WHETHER GLAZED OR UNGLAZED. Registered May 30, 1922. THE ROOKWOOD POTTERY COMPANY. Renewed May 30, 1942, to Sperti, Inc., Cincinnati, Ohio, a corporation of Ohio, assignee by mesne assignments.

168,105. **BLUE MOUNTAIN.** FRESH TOMATOES. Registered May 15, 1923. FREDERICK E. MAJONNIER, Walla Walla, Wash. Renewed May 15, 1943.

169,452. **BJÖRN.** DRAWING INK, INDELIBLE INK, MARKING INK, PRINTING INK, WRITING INK, INK FOR STAMPS, AND POWDERS FOR PRODUCING INKS. Registered June 19, 1923. BARNÄNGENS TEKNISKA FABRIKERS AKTIEBOLAG, Stockholm, Sweden, a corporation of Sweden. Renewed June 19, 1943.

169,453. **REPRESENTATION OF A BEAR WITH PESTLE AND MORTAR, ETC.** DRAWING INK, INDELIBLE INK, MARKING INK, PRINTING INK, WRITING INK, INK FOR STAMPS, AND POWDERS FOR PRODUCING INKS. Registered June 19, 1923. BARNÄNGENS TEKNISKA FABRIKERS AKTIEBOLAG, Stockholm, Sweden, a corporation of Sweden. Renewed June 19, 1943.

169,590. **DONLEY DEVICES.** CERTAIN NAMED METAL BUILDING SPECIALTIES. Registered June 26, 1923. THE DONLEY BROTHERS COMPANY, Cleveland, Ohio, a corporation of Ohio. Renewed June 26, 1943.

169,820. **"VMC" AND DRAWING.** READY-PREPARED CERAMIC GLAZES AND ENAMELS. Registered July 3, 1923. THE VITRO MANUFACTURING COMPANY, Pittsburgh, Pa., a corporation of Pennsylvania. Renewed July 3, 1943.

169,880. **PURITAN.** WOVEN COTTON EDGING FOR TRIMMING WOMEN'S GARMENTS, FANCY BRAIDS, AND RICK RACK BRAIDS. Registered July 3, 1923. MARSHALL FIELD & COMPANY, Chicago, Ill., a corporation of Illinois. Renewed July 3, 1943.

170,047. **ADELPHIA.** READY-MIXED PAINTS. Registered July 10, 1923. PARAMOUNT PAINT & VARNISH Co. Renewed July 10, 1943, to Paramount Paint & Varnish Co., Inc., Philadelphia, Pa., a corporation of Pennsylvania, assignee.

170,048. **PARNAMEL.** WHITE PAINT ENAMEL. Registered July 10, 1923. PARAMOUNT PAINT & VARNISH Co. Renewed July 10, 1943, to Paramount Paint & Varnish Co., Inc., Philadelphia, Pa., a corporation of Pennsylvania, assignee.

170,898. **"TWITTER BALL" AND DRAWING.** TONIC AND FOOD FOR FEATHERED PETS. Registered July 24, 1923. WILLIAM HOFFMANN, Chicago, Ill. Renewed July 24, 1943, to John Morrell & Co., Ottumwa, Iowa, a corporation of Maine, assignee.

171,004. **ARAB.** LEAD PENCILS. Registered July 31, 1923. BLAISDELL PENCIL COMPANY, Philadelphia, Pa., a corporation of Pennsylvania. Renewed July 31, 1943.

171,294. **"MUNNING" AND DRAWING.** EMERY AND ARTIFICIAL ABRASIVES, SOAP, CLEANERS, AND ALKALI CLEANERS USED TO CLEAN METAL SURFACES BEFORE ELECTROPLATING, AND CLOTH AND LEATHER POLISHING WHEELS. Registered August 7, 1923. A. P. MUNNING & Co. Renewed August 7, 1943, to Hanson-Van Winkle-Munning Company, Matawan, N. J., a corporation of New Jersey, assignee.

171,325. **"BYER" AND DRAWING.** WAISTS AND HOSIERY. Registered August 7, 1923. THE HOUSE OF BYER, Malden, Mass. Renewed August 7, 1943, to The House of Byer, Inc., Cambridge, Mass., a corporation of Massachusetts, successor.

171,747. **SPECIALIME.** CERTAIN NAMED LIME POLISHING COMPOSITION USED IN THE BUFFING AND POLISHING TRADE. Registered August 14, 1923. A. P. MUNNING & Co. Renewed August 14, 1943, to Hanson-Van Winkle-Munning Company, Matawan, N. J., a corporation of New Jersey, assignee.

172,023. **REPRESENTATION OF A HAMMER HAVING THE FREE END HALF OF THE HANDLE COLORED BROWN.** HANDLED HAMMERS, HATCHETS, AXES, ADZES, AND SLEDGES. Registered August 21, 1923. VAUGHAN & BUSHNELL MANUFACTURING COMPANY, Chicago, Ill., a corporation of Illinois. Renewed August 21, 1943.

172,299. **"ARAB" AND DRAWING.** LEAD PENCILS. Registered August 28, 1923. BLAISDELL PENCIL COMPANY, Philadelphia, Pa., a corporation of Pennsylvania. Renewed August 28, 1943.

172,366. **"INVADER" AND DRAWING.** CRUDE OIL, GASOLINE, AND KEROSENE. Registered August 28, 1923. CHARLES F. KELLOM, doing business as Chas. F. Kellom & Co., Philadelphia, Pa. Renewed August 28, 1943, to Chas. F. Kellom & Co., Inc., Holmesburg, Philadelphia, Pa., a corporation of Delaware, assignee.

173,308. **FIRMSTITCH.** COTTON THREAD. Registered September 18, 1923. SMITH & DOVE MANUFACTURING Co., Andover, Mass. Renewed September 18, 1943, to Ludlow Manufacturing & Sales Co., Boston, Mass., a corporation of Massachusetts, assignee by mesne assignments.

173,713. **ARCHITECTURE.** MONTHLY PUBLICATION. Registered October 2, 1923. CHARLES SCRIBNER'S SONS. Renewed October 2, 1943, to F. W. Dodge Corporation, New York, N. Y., a corporation of New York, assignee by mesne assignments.

173,886. **VELVET-SKIN.** SOAP. Registered October 2, 1923. THE PALISADE MANUFACTURING COMPANY, Yonkers, N. Y. Renewed October 2, 1943, to The Procter & Gamble Company, Cincinnati, Ohio, a corporation of Ohio, assignee by mesne assignments.

174,428. **FLEXCO-LOK.** GUARDS FOR ELECTRIC LAMPS. Registered October 16, 1923. FLEXIBLE STEEL LACING COMPANY, Chicago, Ill., a corporation of Illinois. Renewed October 16, 1943.

174,870. **"THE SAFER WAY" AND DRAWING.** MONTHLY PERIODICAL. Registered October 23, 1923. AETNA LIFE INSURANCE COMPANY, Hartford, Conn., a corporation of Connecticut. Renewed October 23, 1943.

174,975. **"CRAMP" AND DRAWING.** GEARS AND GEAR BLANKS. Registered October 30, 1923. THE WILLIAM CRAMP & SONS SHIP & ENGINE BUILDING Co., Philadelphia, Pa. Renewed October 30, 1943, to The Baldwin Locomotive Works, Eddystone, Pa., a corporation of Pennsylvania, assignee by mesne assignments.

175,033. **DONLEY DEVICES.** FIREPLACE DAMPERS AND OPERATING MEANS THEREFOR, FIREPLACE BASKETS AND GRATES, RUBBISH BURNERS, AND SALAMANDERS. Registered October 30, 1923. THE DONLEY BROTHERS COMPANY, Cleveland, Ohio, a corporation of Ohio. Renewed October 30, 1943.

175,145. **THE AETNA-IZER.** MONTHLY PERIODICAL. Registered October 30, 1923. AETNA LIFE INSURANCE COMPANY, Hartford, Conn., a corporation of Connecticut. Renewed October 30, 1943.

175,312. **HAD YOUR IRON TODAY?** RAISINS AND CANDY. Registered November 6, 1923. CALIFORNIA ASSOCIATED RAISIN CO., now by change of name Sun-Maid Raisin Growers. Renewed November 6, 1943, to Sun-Maid Raisin Growers of California, Fresno, Calif., incorporated cooperative association of California, assignee.

175,791. **VALIANT.** LARD. Registered November 13, 1923. F. G. VOGT & SONS, INC., Philadelphia, Pa., a corporation of Pennsylvania. Renewed November 13, 1943.

175,796. **MERRIE MAID.** HOSIERY. Registered November 13, 1923. BERENDSEN SILK KNITTING Co., Bangor, Pa. Renewed November 13, 1943, to Joseph C. Bossong, New York, N. Y., assignee.

175,810. **TRU-FIT.** GLOVES AND MITTENS MADE OF TEXTILE FABRIC, KNITTED FABRIC, LEATHER, AND COMBINATIONS OF LEATHER AND TEXTILE FABRIC. Registered November 13, 1923. WESTERN HOSIERY COMPANY, Chicago, Ill., a corporation of Illinois. Renewed November 13, 1943.

175,823. **FORMGRADER.** EARTH CUTTING AND PLANING MACHINE. Registered November 13, 1923. EDWARD G. CARR, Chicago, Ill. Renewed November 13, 1943.

176,053. **JOHNSON'S.** POLISHING BRUSHES. Registered November 13, 1923. S. C. JOHNSON & SON. Renewed November 13, 1943, to S. C. Johnson & Son, Inc., Racine, Wis., a corporation of Wisconsin, assignee.

176,405. **JOHNSON'S.** PREPARED WAX IN PASTE, POWDERED, AND LIQUID FORMS, FOR FINISHING AND POLISHING FLOORS AND INTERIOR WOODWORK, AND PAINT AND VARNISH REMOVER. Registered November 27, 1923. S. C. JOHNSON & SON. Renewed November 27, 1943, to S. C. Johnson & Son, Inc., Racine, Wis., a corporation of Wisconsin, assignee.

176,406. **PARAMOUNT.** WRAPPING PAPER, MANILA PAPER, ENVELOPES, PRINT BOOK COVER, AND DOCUMENT PAPERS. Registered November 27, 1923. THE J. W. BUTLER PAPER Co. Renewed November 27, 1943, to Butler Paper Corporation, Chicago, Ill., a corporation of Illinois, assignee.

176,489. **"WINONA" AND DRAWING.** WHEAT FLOUR. Registered November 27 1923. BAY STATE MILLING Co., Winona, Minn., a corporation of Minn. Renewed November 27, 1943.

176,671. **LATIGOTAN.** HORSE COLLARS, HARNESS, HARNESS PARTS. Registered November 27, 1923. BONA ALLEN, INCORPORATED, Buford, Ga., a corporation of Georgia. Renewed November 27, 1943.

176,862. **"CHERRY VALLEY" AND DRAWING.** EGGS. Registered December 4, 1923. MEYNELL E. FOWLER. Renewed December 4, 1943, to Chappell V. Fowler, Chicago, Ill., assignee.

177,083. **REPRESENTATION OF A BUCKLED BELT.** ORANGES, LEMONS, AND GRAPEFRUIT IN THEIR NATURAL STATE. Registered December 11, 1923. GOLD BUCKLE ASSOCIATION, East Highlands, Calif., a corporation of California. Renewed December 11, 1943.

177,084. **REPRESENTATION OF A MAN AND A WOMAN RIDING A HORSE.** ORANGES, LEMONS, AND GRAPEFRUIT IN THEIR NATURAL STATE. Registered December 11, 1923. GOLD BUCKLE ASSOCIATION, East Highlands, Calif., a corporation of California. Renewed December 11, 1943.

177,085. **LOCHINVAR.** ORANGES, LEMONS, AND GRAPEFRUIT IN THEIR NATURAL STATE. Registered December 11, 1923. GOLD BUCKLE ASSOCIATION, East Highlands, Calif., a corporation of California. Renewed December 11, 1943.

177,086. **SILVER BUCKLE.** ORANGES, LEMONS, AND GRAPEFRUIT IN THEIR NATURAL STATE. Registered December 11, 1923. GOLD BUCKLE ASSOCIATION, East Highlands, Calif., a corporation of California. Renewed December 11, 1943.

177,098. **N. J. C.** CERTAIN NAMED FOOD PRODUCTS. Registered December 11, 1923. NORTHERN JOBBING COMPANY, Chicago, Ill. Renewed December 11, 1943, to Northern Jobbing Company, St. Paul, Minn., a corporation of Minnesota, successor.

177,127. **ORANGE KIST.** SOFT DRINK. Registered December 11, 1923. MARGARET B. MCCARTHY, assignor to Citrus Products Company. Renewed December 11, 1943, to Citrus Products Company, Chicago, Ill., a corporation of Illinois, assignee.

177,170. **BABY.** DRIED SHRIMP. Registered December 11, 1923. BLUM & BERGERON, Houma, La., a firm. Renewed December 11, 1943.

177,204. **GRAPOSYNTH.** FLAVORING EXTRACT FOR FOODS. Registered December 11, 1923. FLORASYNTH LABORATORIES, New York and Unionport, N. Y. Renewed December 11, 1943, to Florasynth Laboratories Inc., New York, N. Y., a corporation of New York

177,222. **REPRESENTATION OF AN INDIAN HEAD.** LYE. Registered December 11, 1923. PENNSYLVANIA SALT MANUFACTURING COMPANY. Renewed December 11, 1943, to The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania, assignee.

177,307. **"BORZOI" AND DRAWING.** COMPLETELY PRINTED BOOKS. Registered December 18, 1923. ALFRED A. KNOPF, INC., New York, N. Y., a corporation of New York. Renewed December 18, 1943.

177,314. **THE WICHITA DAILY EAGLE.** DAILY NEWSPAPER. Registered December 18, 1923. VICTORIA MURDOCK ESTATE, doing business as The Wichita Eagle, Wichita, Kans., a firm. Renewed December 18, 1943.

177,323. **TONSONE.** PREPARATION FOR USE IN TREATING TONSILLITIS AND SORE THROAT AND FOR A LAXATIVE. Registered December 18, 1923. R. BLACKWELL SMITH, doing business as The Tonsone Co., Petersburg, Va. Renewed December 18, 1943.

177,324. **"BELL" AND DRAWING.** WOOLEN, WORSTED PIECE GOODS. Registered December 18, 1923. THE BELL COMPANY, Worcester, Mass., a corporation of Massachusetts. Renewed December 18, 1943.

177,330. **"KARO" AND DRAWING.** SIRUP FOR FOOD PURPOSES. Registered December 18, 1923. CORN PRODUCTS REFINING COMPANY, New York, N. Y., a corporation of New Jersey. Renewed December 18, 1943.

177,331. **"KARO" AND DRAWING.** SIRUP FOR FOOD PURPOSES. Registered December 18, 1923. CORN PRODUCTS REFINING COMPANY, New York, N. Y., a corporation of New Jersey. Renewed December 18, 1943.

177,338. **THE OLYMPIAN.** PERIODICALS. Registered December 18, 1923. THE OLYMPIC CLUB, San Francisco, Calif., a corporation of California. Renewed December 18, 1943.

177,341. **LOBSTER.** DRIED SHRIMP. Registered December 18, 1923. BLUM & BERGERON, Houma, La., a firm. Renewed December 18, 1943.

177,357. **"BOYS FRIEND" AND DRAWING.** INTERNAL AND INJECTIVE REMEDIES FOR GONORRHEA. Registered December 18 1923. A. L. CURTIS, Atlanta, Ga. Renewed December 18, 1943.

177,366. **"PEACHES AND CREAM" AND DRAWING.** COTTON PIECE GOODS, LINEN PIECE GOODS, AND TOWELING. Registered December 18, 1923. THE CARL COMPANY, Schenectady, N. Y., a corporation of New York. Renewed December 18, 1943.

177,381. **"DUTCH MAID" AND DRAWING.** CHEESE. Registered December 18, 1923. CARL MARTY & COMPANY, Chicago, Ill. Renewed December 18, 1943, to The Borden Company, New York, N. Y., a corporation of New Jersey, assignee.

177,383. **"GOLDEN BAR" AND DRAWING.** CHEESE. Registered December 18, 1923. A. H. BARBER & Co., Chicago, Ill. and Plymouth and Dodgeville, Wis. Renewed December 18, 1943, to The Borden Company, New York, N. Y., a corporation of New Jersey, assignee by mesne assignments.

177,384. **VELVA-KREME.** CHEESE. Registered December 18, 1923. A. H. BARBER Co., Chicago, Ill., and Plymouth and Dodgeville, Wis. Renewed December 18, 1943, to The Borden Company, New York, N. Y., a corporation of New Jersey, assignee by mesne assignments.

177,405. **DEFIANCE.** CERTAIN NAMED TOOLS. Registered December 18, 1923. THE STANLEY WORKS, New Britain, Conn., a corporation of Connecticut. Renewed December 18, 1943.

177,408. **DONLEY DEVICES.** CERTAIN NAMED ARTICLES OF HARDWARE. Registered December 18, 1923. THE DONLEY BROTHERS COMPANY, Cleveland, Ohio, a corporation of Ohio. Renewed December 18, 1943.

177,410. **"HK" AND DRAWING.** CERTAIN NAMED ARTICLES OF CLOTHING. Registered December 18, 1923. HERCULES KNITTING CO., Milwaukee, Wis., a corporation of Wisconsin. Renewed December 18, 1943.

177,414. **"OCTAVIA WALTON" AND DRAWING.** GREETING CARDS, GREETING SHEETS, AND GREETING FOLDERS. Registered December 18, 1923. OCTAVIA WALTON GOODBAR, doing business as Octavia Walton, Boston, Mass. Renewed December 18, 1943, to Octavia Walton Goodbar, doing business as Octavia Walton, New York, N. Y.

177,429. **GORHAM.** CERTAIN NAMED SMOKERS' ARTICLES. Registered December 18, 1923. GORHAM MANUFACTURING COMPANY, Providence, R. I., a corporation of Rhode Island. Renewed December 18, 1943.

177,440. **MUPU.** FRESH CITROUS FRUITS. Registered December 18, 1923. MUPU CITRUS ASSOCIATION, Santa Paula, Calif., a corporation of California. Renewed December 18, 1943.

177,444. **OLD SOUTH MOUNTAIN.** FRESH CITROUS FRUITS. Registered December 18, 1923. MUPU CITRUS ASSOCIATION, Santa Paula, Calif., a corporation of California. Renewed December 18, 1943.

177,451. **"B'S WAX" AND DRAWING.** TWIST AND PLUG TOBACCO. Registered December 18, 1923. ROTH TOBACCO COMPANY, Cape Girardeau, Mo., a corporation of Missouri. Renewed December 18, 1943.

177,453. **REPRESENTATION OF A BEE AND WORD "WAX".** TWIST AND PLUG TOBACCO. Registered December 18, 1923. ROTH TOBACCO COMPANY, Cape Girardeau, Mo., a corporation of Missouri. Renewed December 18, 1943.

177,466. **"UPDW" AND DRAWING.** DYED, PRINTED, AND FINISHED TEXTILE FABRICS. Registered December 18, 1923. THE UNITED PIECE DYE WORKS, Lodi, N. J., a corporation of New Jersey. Renewed December 18, 1943.

177,472. **LA BARA.** CERTAIN NAMED TOILET PREPARATIONS. Registered December 18, 1923. THE MILLS BROTHERS COMPANY, doing business as The American Products Company. Renewed December 18, 1943, to The Zanol Products Company, Cincinnati, Ohio, a corporation of Ohio, assignee by mesne assignments.

177,473. **DREAM GIRL.** PERFUME, TOILET WATER, TALCUM POWDER, COLD CREAM, VANISHING CREAM, FACE POWDER, AND SACHET POWDER. Registered December 18, 1923. THE MILLS BROTHERS COMPANY, doing business as The American Products Company. Renewed December 18, 1943, to The Zanol Products Company, Cincinnati, Ohio, a corporation of Ohio, assignee by mesne assignments.

177,482. **TRI-PLI-WEVE.** TEXTILE FABRICS KNOWN AS ALL-WORSTED TROPICALS. Registered December 18, 1923. INTERNATIONAL WORSTED MILLS, Methuen, Mass., and New York, N. Y. Renewed December 18, 1943, to Selden Worsted Mills, Methuen, Mass., a corporation of Massachusetts, assignee by mesne assignments.

177,499. **SILKREPE.** CRAPE PAPER. Registered December 18, 1923. THE PAPYRUS COMPANY, Kenilworth, N. J., a corporation of New Jersey. Renewed December 18, 1943.

177,502. **BANNER.** BREAD. Registered December 18, 1923. WARD BAKING COMPANY, New York, N. Y., a corporation of New York. Renewed December 18, 1943.

177,543. **REPRESENTATION OF A BLACK STRIPE ON A GEAR BLANK.** GEAR BLANKS AND GEAR WHEELS. Registered December 18, 1923. DIAMOND STATE FIBRE COMPANY, Elsmere, Del., and Bridgeport, Pa. Renewed December 18, 1943, to Continental-Diamond Fibre Company, Newark, Del., a corporation of Delaware, assignee.

177,545. **"WHITE LINE" AND DRAWING.** PREPARED PAINT IN PASTE OR SEMI-PASTE FORM. Registered December 18, 1923. SEWALL PAINT AND GLASS COMPANY. Renewed December 18, 1943, to Sewall Paint & Varnish Company, Kansas City, Mo., a corporation of Missouri, assignee.

177,558. **GOLD BUCKLE.** ORANGES, LEMONS, AND GRAPEFRUIT IN THEIR NATURAL STATE. Registered December 18, 1923. GOLD BUCKLE ASSOCIATION, East Highlands, Calif., a corporation of California. Renewed December 18, 1943.

177,559. **GRIMETER.** SOAP. Registered December 18, 1923. U. S. SANITARY SPECIALTIES CORPORATION, Chicago, Ill., a corporation of Illinois. Renewed December 18, 1943.

177,560. **SOAPEZE.** A SCRUBBING COMPOUND. Registered December 18, 1923. U. S. SANITARY SPECIALTIES CORPORATION, Chicago, Ill., a corporation of Illinois. Renewed December 18, 1943.

177,563. **"BUSTER BROWN'S" AND DRAWING.** HOSIERY. Registered December 18, 1923. UNITED HOSIERY MILLS CORPORATION, Chattanooga, Tenn., a corporation of Tennessee. Renewed December 18, 1943.

177,572. **FAIRYLAN.** WHEAT FLOUR. Registered December 18, 1923. HIGHLAND MILLING COMPANY, Highland, Ill. Renewed December 18, 1943, to Hopkinsville Milling Company, Hopkinsville, Ky., a corporation of Kentucky, assignee.

177,574. **"GOLDEN FLEECE" AND DRAWING.** HOSIERY. Registered December 18, 1923. THE DORMER BROTHERS COMPANY. Renewed December 18, 1943, to The Adler Co., Cincinnati, Ohio, a corporation of Ohio, assignee.

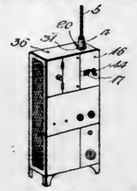
177,575. **"CHICAGO DE LUXE" AND DRAWING.** SOFT DRINKS AND SIRUPS USED IN THE PREPARATION OF SAME. Registered December 18, 1923. CHICAGO BEVERAGE CO., Chicago, Ill., a corporation of Illinois. Renewed December 18, 1943.

177,577. **"FINGER PRINT" AND DRAWING.** FLAVORING EXTRACTS AND COLORING MATERIAL FOR FOOD PURPOSES, SPICES, CERTAIN NAMED SEEDS, HERBS, COCOA, COFFEE, AND COCONUT IN A NATURAL STATE. Registered December 18, 1923. ARTHUR G. FENTON, doing business as The Fenton Wholesale Co., Rochester, N. Y. Renewed December 18, 1943.

REISSUES

AUGUST 17, 1943

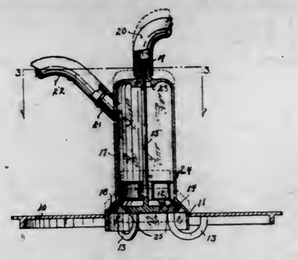
22,365
ANTENNA SYSTEM
Louis A. Gebhard and Raymond B. Meyer, Washington, D. C.
Original No. 1,903,811, dated April 18, 1933, Serial No. 434,882, March 11, 1930. Application for reissue May 11, 1943, Serial No. 486,604
6 Claims. (Cl. 250—33)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



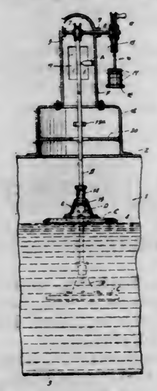
1. In a radio communication system, an electrically live adjustable antenna element comprising a multiplicity of tubular sections telescopically disposed one with respect to another, means for insulatingly supporting said antenna element adjacent the base thereof, an electrical connection for radio communication apparatus adjacent the base of said antenna element, means extending axially through said sections for controlling the projection and collapse of said sections with respect to each other, and means electrically insulated from said second mentioned means for adjusting said second mentioned means from a remote position for correspondingly controlling the amount of overlap of the sections with respect to each other.

22,366
VALVE FOR MILKING MACHINES
Jesse R. Lowry, Des Moines, Iowa
Original No. 2,286,55", dated June 16, 1942, Serial No. 346,682, July 22, 1940. Application for reissue June 9, 1943, Serial No. 490,181
11 Claims. (Cl. 31—82)

9. In a milking machine, a valve unit including a horizontal valve portion, means supporting said valve portion against movement, a valve chamber, a portion carried on said valve portion and extended upwardly within said valve chamber loosely contacting said valve chamber to normally guide it for vertical reciprocal movement relative to said valve portion, a valve seat adjacent the lower end of said valve chamber engageable with said valve portion at the lowermost position of travel of said valve chamber to close said valve unit, and an exhaust conduit and a milk conduit connected with said valve chamber, with said valve portion supporting means being entirely out of the path of upward movement of said valve chamber to provide for a free lifting and separation of said valve chamber from said upright portion and valve portion.



22,367
GAUGING APPARATUS FOR LIQUID CONTAINERS
John H. Wiggins, Chicago, Ill.
Original No. 2,282,774, dated May 12, 1942, Serial No. 321,827, March 2, 1940. Application for reissue May 3, 1943, Serial No. 485,544
17 Claims. (Cl. 73—309)

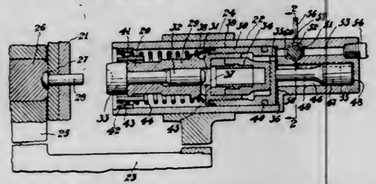


16. An apparatus for gauging liquid in a storage tank, comprising a flexible element extending down into the tank, a member attached to the lower end of said flexible element and adapted to assume a gauging position in the tank, and an adjustable means for variably applying a predetermined tension to said flexible element while said member remains in a selected gauging position.

PATENTS

GRANTED AUGUST 17, 1943

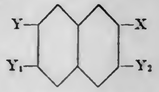
2,326,735
FLUID ACTUATED TOOL
Roy O. Allen, Athens, Pa., assignor to Ingersoll-Rand Company, New York, N. Y., a corporation of New Jersey
Application November 8, 1941, Serial No. 418,315
3 Claims. (Cl. 121—9)



1. A fluid actuated tool, comprising a stationary casing, a fluid actuated percussive power unit slidable in the casing, means to yieldingly resist forward movement of the power unit in the casing and to move the power unit rearwardly in the casing, a free plunger in the casing seating against the power unit and having a pressure surface, a pressure surface on the power unit of different area than the first mentioned pressure surface, pressure chambers for the accommodation of the pressure surfaces and one of said pressure chambers serving as a supply chamber for the power unit, and means for subjecting the pressure surface of smaller area to pressure fluid to move the power unit forwardly through the casing to a working position and to subsequently subject the other pressure surface to pressure fluid for holding the power unit in such working position.

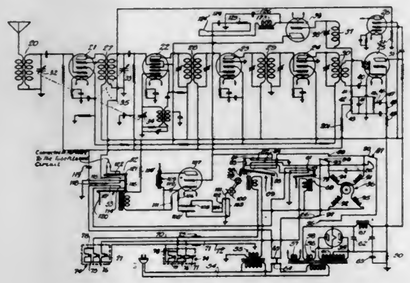
2,326,736
POLYMERIZING UNSATURATED RESINOPHORIC COMPOUNDS BY ACTION OF ULTRAVIOLET LIGHT IN CONJUNCTION WITH BETA SUBSTITUTED NAPHTHALENE DERIVATIVES
David E. Adelson, Berkeley, and Hans Dannenberg, San Francisco, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application September 21, 1940, Serial No. 357,818
11 Claims. (Cl. 204—158)

11. A process which comprises polymerizing a resinophoric compound from the group consisting of vinyl ketones, acroleins, acrylate esters, acrylic acids, acrylonitriles and styrenes in admixture with a substituted naphthalene of the general formula



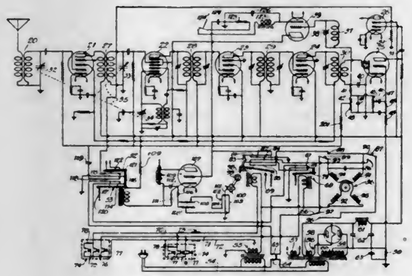
wherein X is a radical of the group consisting of —OH, —SH, —C≡N, —COOH, —OR and —OOCR (R=hydrocarbon radical), and Y, Y_1 and Y_2 are substituents of the group consisting of —H, —OH, —SH, —C≡N, —COOH, —OR and —OOCR (R=hydrocarbon radical) by exposure of said mixture to actinic light which is rich in ultra-violet radiation, said substituted naphthalene catalytically increasing the rate of polymerization by its presence.

2,326,737
RADIO RECEIVER
Edward F. Andrews, Chicago, Ill.
Application May 24, 1939, Serial No. 275,437
21 Claims. (Cl. 250—20)



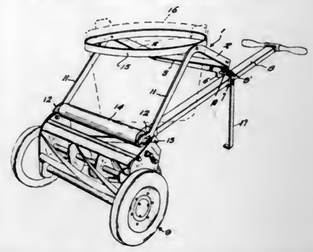
1. In a radio receiver having a power actuated tuning element, in combination, an amplifier, voltage supply means deriving a voltage from the received signal, means for applying said voltage to an element of said amplifier to reduce the gain thereof, means associated with said voltage supply means for delaying change of said voltage, means controlled by a signal from said amplifier for stopping said tuning element and rendering said delaying means operative, and manually operable means for starting said tuning element and rendering said delaying means inoperative.

2,326,738
RADIO RECEIVER
Edward F. Andrews, Chicago, Ill.
Original application May 24, 1939, Serial No. 275,437. Divided and this application July 19, 1941, Serial No. 403,094
18 Claims. (Cl. 250—40)



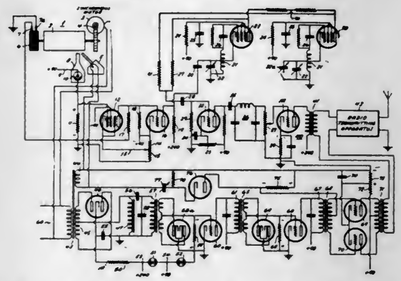
1. In a radio receiver having a power actuated tuning element, in combination, an amplifier, voltage supply means deriving a voltage from a received signal amplified by said amplifier, an inductance and a resistance in series with the output of said voltage supply means, a condenser across said resistance, a gas tube having its grid connected between said resistance and said inductance, and means in the plate circuit of said gas tube to control said tuning element.

2,326,739
LAWN MOWER ATTACHMENT
Anthony Andrews, Melrose Park, Ill.
Application September 15, 1942, Serial No. 458,415
2 Claims. (Cl. 56—249)



1. A lawn mower attachment comprising a pair of side bars, a hook on one end of one of the side bars engageable with the handle of a mower, means for supporting the other ends of the side bars on the mower, a supporting leg pivotally and slidably mounted on the hook, and means for supporting a receptacle for swinging movement between the side bars.

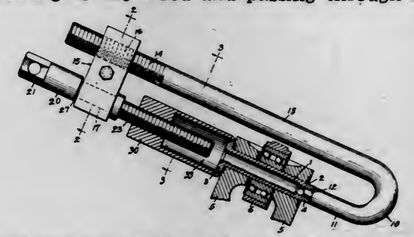
2,326,740
BROADCAST FACSIMILE TRANSMISSION
Maurice Artzt, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application August 3, 1940, Serial No. 350,339
26 Claims. (Cl. 178—6.6)



2. In photo transmitting systems, a power supply device having a rectifier, a choke coil in the output circuit of the rectifier, an oscillator tube energized from the rectified voltage, means for changing the ripple frequency of the voltage in said choke coil to a higher frequency, means for interrupting said higher frequency at the frequency of the input to said power supply device, means to combine voltages of the frequencies of the oscillator and the first-mentioned means, a generator of radio frequency, and means to amplitude-modulate said radio frequency with said combined outputs.

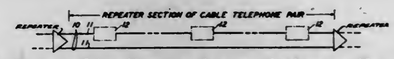
2,326,741
EXTRACTING DEVICE
Harris A. Aaberg, Benson, Minn., and Joe W. Heward, Three Oaks, Mich.
Application March 29, 1943, Serial No. 480,952
4 Claims. (Cl. 29—85)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

3. In a device for removing pins and the like having a head at one end and a centered recess at the other end, the combination of an elongated J-shaped rod, the short leg of which is provided with a reduced shoulder adapted to be received in the said recessed end of the pin, a cross-piece provided with a tapped hole in alignment with the long leg of the said J-rod and a bored hole alignable with the axis of the said short leg of the J-rod, the said long leg being threaded for screwing in the said tapped hole of the cross-piece, a short rod adapted to be disposed in alignment with the said axis of the short leg of the J-rod and passing through the



said bored hole of the said cross-piece, the distal end of the short rod being adapted to accommodate a tool, a thimble member the longitudinal axis of which is in alignment with the said short rod and alignable with the said short leg of the J-rod disposed between the two, the mouth of the thimble member being positionable to face the said short leg of the J-rod and presenting a socket opening, the closed end of the thimble member being tapped, and the proximal end of the short rod being threaded for screwing into the thimble member.

2,326,742
ELECTRIC WAVE SYSTEM
Leonard G. Abraham, Madison, Paul G. Edwards, Verona, and Renato D. Fracassi, Chatham, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 9, 1941, Serial No. 410,130
9 Claims. (Cl. 178—44)

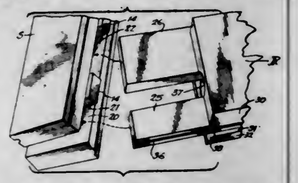


6. In combination, a transmission path comprising a section of a transmission line that varies in attenuation and impedance with variation in temperature, a substantially pure resistance inserted in said section to provide compensation for said impedance variation, and another substantially pure resistance inserted at another point in said section to provide compensation for said attenuation variation, each of said resistances being variable in resistance with temperature variation and subject to the same temperature variation as the line.

2,326,743
WINDOW
Paul L. Adams, Dubuque, Iowa, assignor to Carr, Adams & Collier Company, Dubuque, Iowa, a corporation of Iowa
Application October 18, 1941, Serial No. 415,557
1 Claim. (Cl. 20—56)

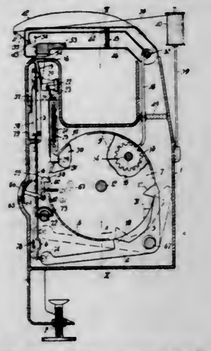
A window sash comprising a stile and rail adapted for interconnection in right angular relation, a pair of tenons in spaced edge to edge relation extending from one end of the rail with a socket between the tenons extending into the rail adjacent the base of the tenons and of a diameter to extend from one tenon to the other,

the stile being formed therethrough with a mortise and a slot, the latter being open upon one end of the stile and the mortise and slot being separated from each other a distance equal to the spacing between the two tenons and each being sized to closely receive one tenon when the rail is assembled with the stile, a shoulder section



projecting from the stile face proximate to the rail and of a length to fit the space between the tenons and projecting into said socket and closely engaging opposite walls thereof and providing enhanced resistance to relative movement between the rail and stile.

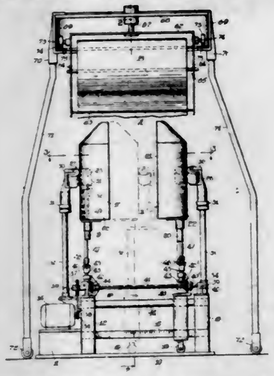
2,326,744
DARNING MACHINE
Erik Gustaf Ahnström, Staket, Sweden
Application September 5, 1941, Serial No. 409,747
In Sweden July 14, 1939
8 Claims. (Cl. 66—2)



1. A darning-machine provided with knitting needles adapted to be moved up and down, in combination with a rotary member having stages adapted at its rotation to actuate the knitting needles to be successively moved to and from the working position.

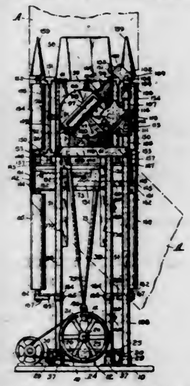
2,326,745
BIAS CUTTING MACHINE
David Balk, New York, N. Y., assignor to Superba Manufacturing Co., Inc., New York, N. Y., a corporation of New York
Application July 26, 1941, Serial No. 404,137
18 Claims. (Cl. 164—61)

5. In a bias cutting machine of the character described, the combination of a supporting base having guide rails running between standards, a carriage mounted for movement over said rails, a mandrel over which a tubular material is fed, comprising substantially flat sided U-shaped sections arranged with their open ends facing each other, means for supporting the two sections on one standard of the base and the carriage respectively, two pairs of obliquely-disposed feeding and pressure rollers operating in the flat side of each section for engaging the said material for feeding the same spirally thereover in either clock-wise or counterclock-wise direction, driving means operating between the standards and capable of alternate connections with one pair of rollers in each section to rotate the feed rollers,



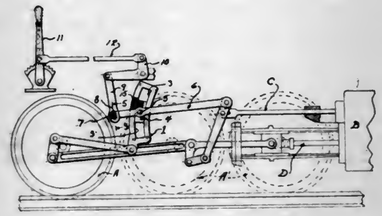
and a cutting element for cutting a spiral strip from the material in either direction of movement thereof.

2,326,746
BIAS CUTTING MACHINERY
David Balk and Julius Katz, Bronx, and Frank P. Majoros, Brooklyn, N. Y., assignors, by direct and mesne assignments, to Superba Manufacturing Co., Inc., New York, N. Y., a corporation of New York
Application September 12, 1942, Serial No. 458,152
61 Claims. (Cl. 164—61)



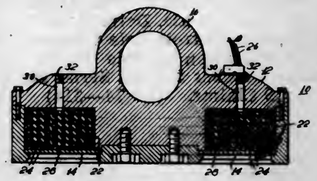
10. In a machine for cutting bias strips, the combination of a base having hangers at opposite ends, a conveyor screw journalled at its ends in the hangers, means for turning the conveyor screw, a driven shaft supported on the base, carriages movable over said screw towards or away from each other, power transmission means on each carriage connected to the driven shaft, supporting standards disposed upright on each carriage, mandrel sections supported on the standards and adapted to support a spirally moving tube of material, feeding means on each mandrel section to feed the tubular material in a spiral direction over the said sections, adjustable driving connections between the said driven shaft and the feeding means to operate the same, and a knife adjustably supported to operate adjacent the feeding means to cut said material to form a strip.

2,326,747
VALVE GEAR
William A. Besserdich, Clintonville, Wis.
Application September 15, 1941, Serial No. 410,873
1 Claim. (Cl. 121—170)



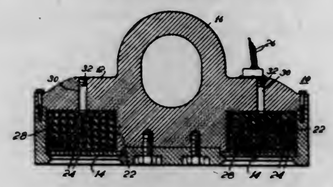
In a valve gear having a manually actuated reverse mechanism including a bell-crank lever and strap depending therefrom, a link provided with an arcuate slot, a block slidably mounted in the link slot, a stud extending from the block, a radius bar fulcrumed upon the stud intermediate its ends, one end of said radius bar being connected to the valve rod and the opposite end in loose pivotal connection with the reverse mechanism strap; the combination of means for frictionally locking the block in its selected position with reference to the link, the same including locking recesses in opposite walls of link, spring controlled balls mounted in the opposite walls of the block above and below the block stud, for balanced engagement with the link recesses, whereby uniform grip between the block and the link walls is effected to eliminate cramping friction incidental to movement of the aforesaid block with reference to the arcuate slot of the offset link.

2,326,748
POLYMERIZED INSULATING COMPOUND
Arthur L. Brown, Forest Hills, and William B. Atkinson, Pittsburgh, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 24, 1940, Serial No. 347,236
8 Claims. (Cl. 106—251)



1. A composition of matter comprising at least one polymerizable oil selected from the group consisting of tung oil and oiticica oil, and an anhydrous catalytic solution for effecting polymerization of the oil, the anhydrous catalytic solution composed of an anhydrous metal halide catalyst for polymerizing the oil, a high boiling point, an anhydrous solvent for dissolving the anhydrous metal halide catalyst and a deterrent in the catalytic solution for modifying the action of the catalyst in order to provide for a controlled rate and time of initiation of the polymerization, the deterrent consisting of castor oil in an amount greater than that of the catalyst.

2,326,749
POLYMERIZED INSULATING COMPOUND
Arthur L. Brown, Forest Hills, and William B. Atkinson, Pittsburgh, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 24, 1940, Serial No. 347,237
6 Claims. (Cl. 106—250)

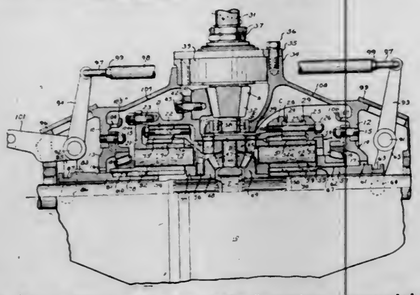


1. A composition of matter for use as electrical insulation, comprising a polymerized oil selected from the group of tung oil and oiticica oil, and a polymerizing catalyst solution for the oil, composed of an anhydrous metal halide catalyst, anhydrous diethyl ether for dissolving the catalyst and a deterrent for controlling the time and rate of polymerization, the deterrent consisting of castor oil in an amount greater than that of the catalyst.

2,326,750
CRUSHER
Raymond E. Browning, Verdun, Quebec, Canada, assignor to Frederick A. Peacock, Montreal, Quebec, Canada
Application February 26, 1941, Serial No. 380,703
In Canada March 27, 1940
11 Claims. (Cl. 83—10)

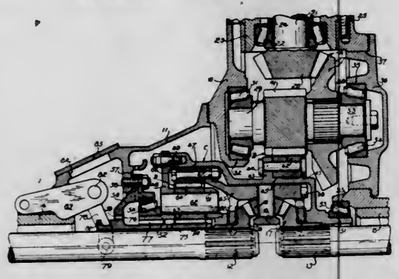
7. A gyratory crusher of the cone and mantle type comprising a frame, a mantle element, means mounting said mantle element on said frame so that the central axis of the mantle element is vertical, a cone element arranged within said mantle element and constituting a crushing head, a support on which the cone element is mounted in a tilted position so that the central axes of the mantle and cone elements are relatively inclined to meet at a focal point located below a crushing zone formed by and between the opposing crushing surfaces of said elements, a cone driving shaft including a main section and an obliquely inclined shaft extension, the main shaft section being journalled so that its central axis coincides with the central axis of the mantle element and meets the central axis of the inclined shaft extension at said focal point, and means for journalling said inclined shaft extension in the cone element said means including a tilt-adjusting element which is adjustable to vary the extent to which the cone element is tilted.

2,326,751
MULTISPEED DRIVE AXLE
Lawrence R. Buckendale, Detroit, Mich., assignor to The Timken-Detroit Axle Company, Detroit, Mich., a corporation of Ohio
Application October 3, 1941, Serial No. 413,537
14 Claims. (Cl. 74—314)



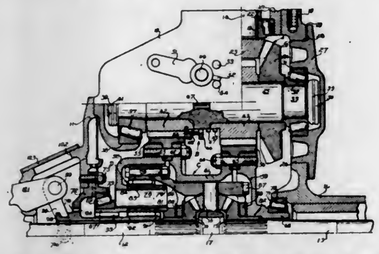
1. In a drive axle, an axle housing comprising a gear chamber and a pair of axle arms carrying axle shafts; a drive shaft journalled in said chamber and carrying a drive gear; a structure mounted for co-axial rotation with said axle shafts in said chamber and carrying a gear meshing with said drive gear; and planetary gear mechanism operably associated with said rotatable structure for selectively driving said axle shafts at speeds higher or lower than the speed of said rotatable structure.

2,326,752
MULTISPEED DRIVE AXLE
Lawrence R. Buckendale, Detroit, Mich., assignor to The Timken-Detroit Axle Company, Detroit, Mich., a corporation of Ohio
Application October 3, 1941, Serial No. 413,538
6 Claims. (Cl. 74—314)



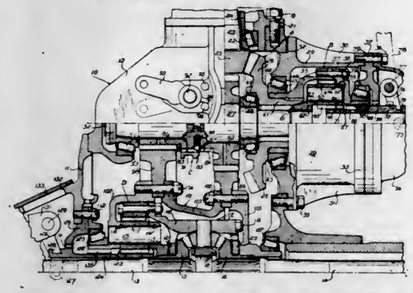
1. In a drive axle, a housing having a pair of axle shafts journalled therein; a drive shaft mounted for rotation in said housing and disposed substantially normal to said axle shafts; a countershaft mounted for rotation between said drive and axle shafts and disposed parallel to the latter; a bevel gear on said countershaft meshing with a bevel pinion on the drive shaft; a rotor mounted for coaxial rotation about the axes of said axle shafts and having a small diameter portion carrying a spur gear meshing with a spur pinion on said countershaft, said spur gear, spur pinion and bevel gear being of such diameters, and said countershaft being so disposed with respect to the said rotor as to locate said spur gear and the end of the small diameter portion of said rotor in close axial proximity and in radial overlapping relationship with said bevel gear, said rotor having a large diameter portion projecting axially to one side of and remote from said spur gear and containing a two speed planetary gear mechanism; a differential mechanism disposed in the small diameter portion of said rotor, for transmitting power to said axle shafts, and means for rotatably supporting said countershaft adjacent said spur pinion, said means projecting into the annular space between the large diameter portion of said rotor and the spur gear carried by said rotor.

2,326,753
MULTISPEED DRIVE AXLE
Lawrence R. Buckendale, Detroit, Mich., assignor to The Timken-Detroit Axle Company, Detroit, Mich., a corporation of Ohio
Application October 3, 1941, Serial No. 413,539
3 Claims. (Cl. 74—314)



1. In a drive axle, a housing having a pair of axle shafts and a countershaft mounted for rotation therein about parallel axes; a hollow rotor mounted for rotation about the axis of said axle shafts; a two-speed spur gear assembly for transmitting power from said countershaft to said rotor; a two-speed planetary mechanism in said rotor for transmitting power from the latter to said axle shafts, said spur gear assembly being substantially wholly disposed between a pair of parallel planes passing through the ends of said rotor and disposed normal to said counter and axle shafts, said countershaft being mounted in spaced anti-friction bearings in said housing, at least one of said bearings being wholly contained between said pair of spaced parallel planes passing through the ends of said rotor.

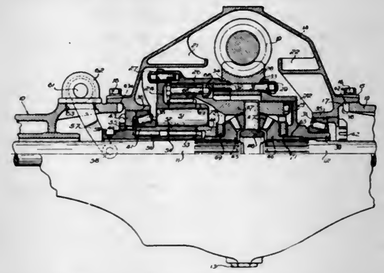
2,326,754
MULTISPEED DRIVE AXLE
Lawrence R. Buckendale, Detroit, Mich., assignor to The Timken-Detroit Axle Company, Detroit, Mich., a corporation of Ohio
Application October 3, 1941, Serial No. 413,540
19 Claims. (Cl. 74—314)



1. In a drive axle, a housing; axle shaft means journalled in said axle housing; a countershaft disposed substantially parallel to said axle shaft means; a drive gear mounted for rotation about

the axis of said countershaft; planetary gear mechanism for transmitting power from said drive gear to said countershaft at two different speed ratios; and second and third gear mechanisms and a final drive device for transmitting power from said countershaft to said axle shaft means at several different speed ratios, the latter being disposed at one side of said drive gear and said planetary gear mechanism being disposed to the other side thereof, said third gear mechanism comprising a second planetary gear mechanism located in a rotor mounted for rotation in said housing about the axis of said axle shaft means.

2,326,755
MULTISPEED DRIVE AXLE
Lawrence R. Buckendale, Detroit, Mich., assignor to The Timken-Detroit Axle Company, Detroit, Mich., a corporation of Ohio
Application October 3, 1941, Serial No. 413,541
6 Claims. (Cl. 74—314)

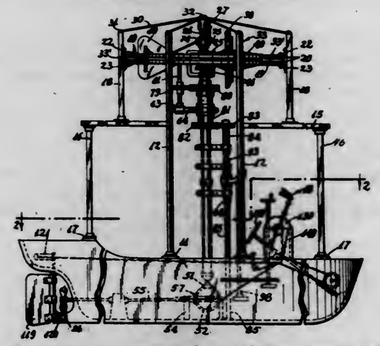


1. In a drive axle, a housing having a pair of aligned axle shafts rotatable therein; a hollow rotor and a casing mounted for concentric rotation about the axis of said axle shafts, said rotor being split transversely of said axle shafts into a cylindrical central section and a pair of end sections; a worm gear detachably clamped between said central section and one of said end sections, said casing also being split transversely of said axle shafts into two sections, a differential mechanism in said casing and having a spider secured between said casing sections, said differential mechanism being accessible for disassembly upon separation of said casing sections; and planetary mechanism for selectively transmitting power from said rotor to said casing at two different speed ratios housed within said central section and accessible upon separation of the other of said end sections from said central section.

2,326,756
KETONES OF THE CYCLOPENTANO-POLYHYDROPHENANTHRENE SERIES AND A METHOD OF PRODUCING THE SAME
Adolf Butenandt, Berlin-Dahlem, Hans Herloff Inhoffen, Berlin-Wilmersdorf, and Hans Dannenbaum, Falkenhain-Finkenkrug, near Berlin, Germany, assignors to Schering Corporation, Bloomfield, N. J., a corporation of New Jersey
No Drawing. Application April 18, 1939, Serial No. 268,519. In Germany April 21, 1938
19 Claims. (Cl. 260—397.5)

1. Process for the manufacture of ketones of the cyclopentanopolyhydrophenanthrene series, comprising splitting off the elements of water from a cyclopentanopolyhydrophenanthrene compound containing in 17-position the cyanhydrin grouping to form the corresponding Δ_{16}-17-cyano compound, reacting the latter with an organometallic compound capable of adding on the organic radical to the 20-carbon to form the ketimine compound, hydrolyzing the ketimine, and hydrogenating the 16,17 double bond.

2,326,757
PROPELLER SAILBOAT MACHINE
Joe Casiple, Providence, R. I.
Application April 18, 1942, Serial No. 439,515
7 Claims. (Cl. 115—3)

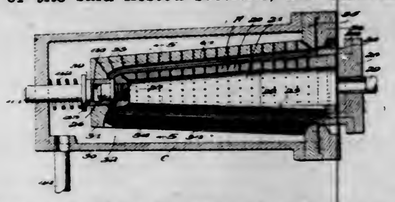


1. A propeller sailboat machine, comprising a frame to be mounted on a boat and having a horizontal circular track portion, a spider rotatively and coaxially mounted on said circular track and having a radial propeller support rod, a wind propeller rotative on said support rod, a rotative main shaft coaxially with said circular track portion, a transmission connecting said propeller and main shaft, a reversible water propeller drive for said boat and operatively connected with said main shaft, a wind vane movably mounted on said spider for rotating said spider to keep said wind propeller headed into the wind when in an initial position and movable to a second position for rotating said spider to move and keep said wind propeller transversely of the wind and thus inoperative, means for moving said wind vane at will into its initial position or its second position, and means for locking said wind vane in its initial or second position, said frame being characterized by a plurality of upwardly extending posts positioned adjacent the outer edge of said circular track, said circular track being characterized by a pair of horizontal circular track members vertically spaced from each other and having their outer faces supported upon said posts leaving their inner faces free to receive said spider.

2,326,758
METHOD OF AND APPARATUS FOR PRODUCING PULP ARTICLES
Merle P. Chaplin and Charles J. Chaplin, Portland, Maine, assignors to Chaplin Corporation, Portland, Maine, a corporation of Maine
Application October 26, 1937, Serial No. 171,156
5 Claims. (Cl. 92—56)

1. The method of moulding fibrous pulp articles which comprises separately forming a plurality of tubular fibrous pulp sections of relatively varying hardness and compactness, assembling and compacting same in nested relation while in a moist condition to unite them with the hardest, most compact section internally of the assemblage and the softest section externally thereof, forming a tip section of a hardness and compactness comparable to the hardest of said tubular sections,

and of a diameter approximating that of the softest section, assembling same externally of one end of the said nested sections, and thereafter



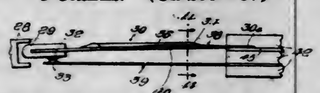
separately finishing the assemblage from a moist condition by further compacting, and consolidating all sections into a single non-laminated integral structure.

2,326,759
HARDNESS TESTER ADJUSTMENT MEANS
Clyde W. Clark, Dearborn, Mich.
Application October 28, 1941, Serial No. 416,891
6 Claims. (Cl. 265—12)



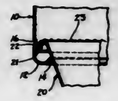
1. An adjusting means for determining the minor load gap of a hardness tester machine of the penetrating type wherein there is a minor load gap between a major load device and a penetrating spindle to be taken up during the setting of the machine and wherein the size of that minor load gap must be accurately adjusted during the life of the machine comprising said penetrating spindle, the spindle being formed with an open top cavity in its upper end, a minor load spring therein, and a major load device having its lower end within the cavity and bearing down upon the upper end of the spring, and means adjustably positioned on the load device above the upper end of the spindle and adapted to form an adjustable bearing for the load device on said spindle upper end, said adjustable bearing means comprising a nut threaded on the load device, and lock means for locking said nut in manually adjusted position on the load device, the gap between the nut and the spindle being visible during the adjustment of the nut on the load device and during the minor load setting, or movement of the spindle, with compression of the spring therein, upwardly towards said nut, and means within the spindle cavity for sealing its open upper end around the major load device.

2,326,760
ELECTRIC SNAP SWITCH
Carl P. Clare, Arlington Heights, Ill., assignor to C. P. Clare and Company, Chicago, Ill., a corporation of Illinois
Application February 1, 1941, Serial No. 377,074
5 Claims. (Cl. 200—67)



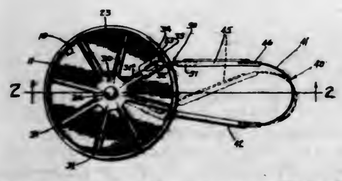
1. A relay system including angularly shiftable actuating means terminating in a yoke member having limited angular displacement, a displaceable strip of resilient material, a contact member adjacent one end thereof, a fixed support for the other end thereof, a fixed contact member aligned with the contact member on said strip, a pair of longitudinally extending ribs in said strip terminating short of the fixed support for said strip whereby said strip may be flexed from one position to another and retained therein, the yoke member of said angularly shiftable actuating means embracing the end of said strip for flexing said strip from one position to another for opening and closing a circuit through said contacts at substantially the limits of movement of said angularly shiftable actuating means.

2,326,761
FLOUR SIFTER
Freeman E. Collier, Minneapolis, Minn., assignor to Foley Manufacturing Company, Minneapolis, Minn., a corporation of Minnesota
Application October 7, 1940, Serial No. 360,107
3 Claims. (Cl. 209—255)



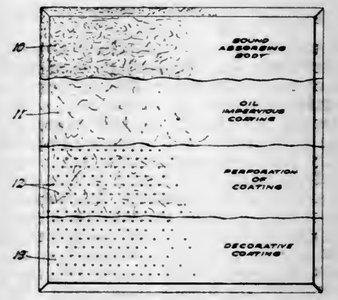
1. A sifter comprising a cylindrical member having a smoothly curved inward flange at one end, a funnel having a large end and small end, the large end having a reverse-folded flange extending outwardly and towards the small end of the funnel, a screen across the large end of the funnel, said screen having a flange bent to lie between and be embraced by said reverse-folded flange and thereby held in assembled relation with said funnel to form a unit therewith, said funnel-screen unit being positioned within the cylindrical member with the small end of the funnel protruding from the inwardly flanged end of the cylindrical member.

2,326,762
SIFTER
Freeman E. Collier, Minneapolis, Minn., assignor to Foley Manufacturing Company, Minneapolis, Minn., a corporation of Minnesota
Original application October 27, 1940, Serial No. 360,107. Divided and this application October 13, 1941, Serial No. 414,832
3 Claims. (Cl. 209—357)



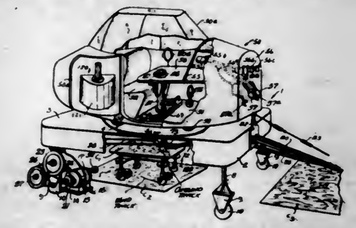
1. A sifter comprising a generally cylindrical shell having a sifter screen mounted therein in a plane generally perpendicular to the axis of the cylinder, an arcuate slot in the cylinder wall in a plane substantially parallel with but displaced from the plane of the screen, an agitator pivotally mounted on the screen, said agitator having a slot therein extending outwardly from the pivotal mounting, a handle of generally U-shaped configuration positioned radially outwardly from the cylinder wall near the arcuate slot in the cylinder wall, said handle being composed of two relatively straight stiff parts joined together at their outer end, the inner end of one part being solidly attached to the cylinder and the inner end of the other part being adjacent the arcuate slot of the cylinder wall and free to move therealong, and a stiff connector extending from the end of the moveable handle part, through the slot and then endwise of the cylindrical shell and into the radial agitator slot.

2,326,763
ACOUSTIC MATERIAL
Dean D. Crandell, Buffalo, N. Y., assignor to National Gypsum Company, Buffalo, N. Y.
Application June 28, 1939, Serial No. 281,663
1 Claim. (Cl. 154—44)



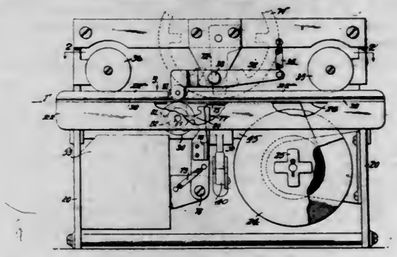
An acoustic construction comprising a body of low density, compacted, cellulosic fibrous material having a surface thereof coated with a material relatively impervious to paint vehicles and comprising a dispersion of protein and an inorganic filler, said coating being friable by nature and provided with a plurality of perforations whereby the underlying fibrous material is partially exposed, said perforations being of sufficient size that coatings of paint and the like may subsequently be applied to said surface without closing or filling said openings and being of a total depth only slightly greater than the thickness of said coating.

2,326,764
NAVIGATION TRAINER
Carl J. Crane, Shreveport, La.
Application October 15, 1941, Serial No. 415,071
30 Claims. (Cl. 35—12)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



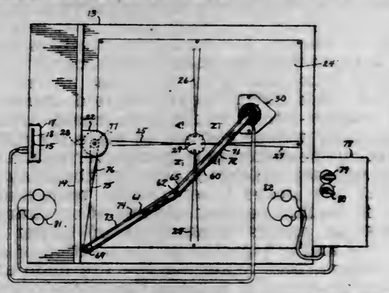
1. Aviation ground training apparatus for instructing a student in the art of navigating an aircraft, comprising a supporting surface, a reference chart disposed parallel to said supporting surface, a frame providing a cockpit enclosure for the student occupant, steerable rollers for supporting said frame for translatory movement over said supporting surface, means for simultaneously changing the azimuth heading of said steerable rollers an equal amount so as to cause said frame to move with any desired azimuth heading with respect to said supporting surface, power means associated with at least one of said rollers to propel said frame over said supporting surface at a velocity proportional in accordance with the scale of said chart to the assumed air speed of an aircraft, and means carried by said frame and movable relative to said chart to indicate the assumed flight course of said aircraft relative to the terrain represented by said chart.

2,326,765
TAPE TIME RECORDER WITH DIFFERENTIATED RECORDS
Henry N. Deane and James A. Dell, Gardner, Mass., assignors to Simplex Time Recorder Co., Gardner, Mass., a corporation of Massachusetts
Original application May 20, 1941, Serial No. 394,380. Divided and this application December 8, 1941, Serial No. 422,041
2 Claims. (Cl. 101—96)



1. In a recording mechanism having a record sheet, printing devices and means to make an impression therefrom on said record sheet, in combination, a supplemental impression device mounted adjacent said printing devices, a pressure-transmitting element insertable between a portion of said impressing means and said supplemental impression device and rendering said means effective to make an impression from said supplemental device, and automatic means to alternately insert and withdraw said insertable element.

2,326,766
RADIO BEAM TRAINING DEVICE
Arthur H. Delareuelle, United States Marine Corps, and Harry Price, United States Navy
Application November 6, 1942, Serial No. 464,818
7 Claims. (Cl. 35—12)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A stationary trainer device for teaching a

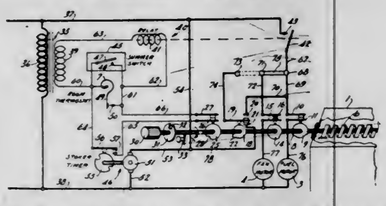
student in flying radio beam patterns, said device comprising a simulated compass visible to the student, a tracing unit remote from the student, said unit having chart marking means and means for propelling the tracing unit on a chart including a layout of a radio beam pattern thereon at an assumed forward speed of said trainer device, control means operable at the will of the student for changing the heading of said tracing unit on the chart, means coupling said simulated compass to said tracing unit for changing the heading of said compass in accordance with changes in heading of said tracing unit for indicating to the student simulated changes in heading of said trainer device, means operable for transmitting to the student signals simulating radio signals broadcast to an aeroplane in actual flight, said signals being transmitted in accordance with the heading and position of said tracing unit on said chart, and means for varying the intensity of such signals.

2,326,767

CONTROL SYSTEM

Justin A. Deubel, Milwaukee, and Wayland R. Miller, Whitefish Bay, Wis., assignors to Perfex Corporation, Milwaukee, Wis., a corporation of Wisconsin

Application July 17, 1940, Serial No. 345,914
12 Claims. (Cl. 236—9)



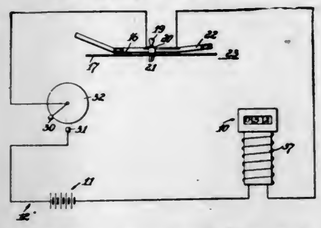
9. In a control system for a space conditioning system including heating means having a stoker and mechanical circulating means for circulating heat exchange medium from the heating means to the space, the combination of, a relay having first and second positions, a control circuit for the relay including a space thermostat for causing the relay to assume its first position upon demand for heat in the space and to assume its second position when the demand for heat is satisfied, a heater thermostat including a switch which opens when the temperature of the heating means is relatively low and which closes when said temperature rises to a higher value, circuit means for energizing the circulating means through the first position of the relay and the heater thermostat, selective means for said circuit means operative in one position to place the relay and heater thermostat in conjoint control of the circulating means and operative in another position to place the heater thermostat in control of the circulating means independently of the relay, fire maintaining means for controlling said relay to cause said relay to assume its first position at times independently of said thermostat, and summer-winter changeover means arranged when in its winter position to place the relay in control of the stoker, said changeover means when in its summer position preventing the relay from placing the stoker in operation; rendering the relay in its first position capable of operating the circulating means irrespective of heater temperature and irrespective of the position of selective means; and rendering the fire maintaining means incapable of causing the relay to assume its first position.

2,326,768

PICK-COUNTING DEVICE

Arnold Eddy, Stamford, Conn., assignor, by direct and mesne assignments, of twenty per cent to E. G. Dentay, Toronto, Ontario, Canada, and fifty per cent to Michael S. Striker, New York, N. Y.

Application August 22, 1941, Serial No. 407,931
19 Claims. (Cl. 139—1)



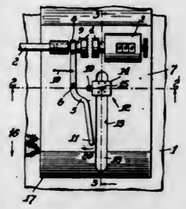
1. For use in a loom including a loom part which performs an identical movement during weaving of each successive filling pick, a device for counting the number of picks in a predetermined length of fabric as the same is being woven on said loom, said device comprising an electrically operated mechanism for counting a number of electrical impulses, a source of current for operating said counting mechanism, two separate circuit closing means, an electric circuit comprising in series said counting mechanism, said source of current and said circuit closing means, means constructed to actuate one of said circuit closing means only while the fabric is moving during weaving on said loom a distance being equal to the predetermined length of fabric in which the number of picks has to be counted, and means operated by said loom part, said latter means constructed to actuate the other of said circuit closing means each time one filling pick is woven, thus counting the number of picks in said predetermined length of fabric.

2,326,769

DEVICE FOR COUNTING THE NUMBER OF PICKS IN A FABRIC

Arnold Eddy, Middletown, Conn., assignor, by direct and mesne assignments, of twenty per cent to E. G. Dentay, Toronto, Ontario, Canada, and fifty per cent to Michael S. Striker, New York, N. Y.

Application October 24, 1941, Serial No. 416,289
13 Claims. (Cl. 139—1)



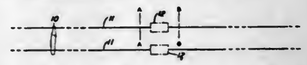
1. Device for counting and registering the number of picks in a certain predetermined length of fabric as this fabric is being woven on a loom, comprising in combination a part of said loom performing an identical movement during weaving of each filling pick, a counting and registering mechanism constructed to count and register the number of said movements performed by said loom part, and a cloth measuring mechanism constructed and arranged so as to connect said loom part with said counting and registering mechanism when required and to disconnect them automatically at the moment when said fabric has moved from the moment of connecting said loom part with said counting and registering mechanism a distance equal to said predetermined length of fabric in which the number of picks has to be counted.

2,326,770

TRANSMISSION SYSTEM REGULATION

Paul G. Edwards, Verona, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application September 9, 1941, Serial No. 410,149
25 Claims. (Cl. 178—45)



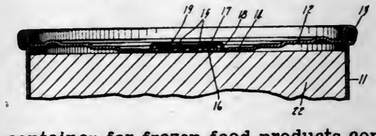
1. A transmission line whose attenuation and impedance characteristics vary with temperature, and means to compensate for such variations comprising an impedance network inserted in said line in series therewith, said network comprising a temperature-dependent resistance and a reactance element.

2,326,771

CONTAINER

Robert W. Eidson, Seattle, Wash., assignor to American Can Company, New York, N. Y., a corporation of New Jersey

Application July 5, 1941, Serial No. 401,250
1 Claim. (Cl. 220—1)



A container for frozen food products comprising a container body, a countersunk end closure member secured to said body, said end closure having a vent hole disposed therein, a substantially flat frangible expansible sealing disk disposed over the exterior of said vent hole and having its marginal portion only secured to said end closure, and a shallow cup shaped protective cap having a centrally disposed aperture therein enclosing and spaced from said expansible sealing disk and also secured at its marginal edges to said end closure member, said sealing disk being capable of expansion outwardly due to developed abnormal relatively low internal gas pressure effective through said vent hole as a result of decay of the contained food product, the expanded sealing disk projecting at its central portion through the central aperture of said protective cap to visibly indicate the spoiled condition of said food product.

2,326,772

DRY CLEANING COMPOSITION

Lawrence H. Flett, Hamburg, N. Y., assignor to Allied Chemical & Dye Corporation, a corporation of New York

No Drawing. Application November 25, 1938, Serial No. 242,150
9 Claims. (Cl. 252—161)

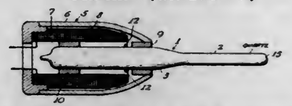
4. A dry cleaning composition comprising an emulsion of water in a volatile organic dry cleaning solvent, the water being in the internal phase, and a salt of a sulfonated aliphatic organic compound containing an alkyl group of at least 4 carbon atoms and a sulfonic group attached to a primary alkyl carbon atom, as a dry cleaning assistant and as an emulsifying agent for the water, said salt being selected from the group consisting of ammonium, alkali metal, alkaline earth metal, and organic ammonium salts.

2,326,773

ULTRA VIOLET RAY APPLICATOR

Oscar H. Floyd, Chicago, Ill.

Application February 19, 1941, Serial No. 379,689
1 Claim. (Cl. 176—1)



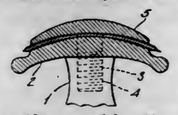
An ultra-violet ray apparatus comprising a tubular handle portion open at at least one end for receiving an applicator, a high frequency coil within the handle and extending axially thereof, a non-metallic applicator holding ring secured within the coil with its axis coincident with that of the coil, a sealed applicator tube one end of which is removably inserted through the open end of the handle portion and is held in the handle portion by frictional engagement with said non-magnetic ring, said tube having a rarefied atmosphere adapted to be excited by high frequency electromagnetic waves to produce ultra violet rays, the portion of the applicator within the handle being of glass-like material which is opaque to ultra violet rays whereby none of the rays are emitted within the handle portion, the outside tip of the applicator tube being of material transparent to ultra violet rays and being joined to the rest of the tube by mutual fusion.

2,326,774

SAFETY RAZOR

Benjamin H. Freedman, Asbury Park, N. J.

Application July 11, 1939, Serial No. 283,777
5 Claims. (Cl. 30—70)



1. In a razor, the combination of a guard having two guard edges, a cap having two cap edges, and a wafer blade of less than .008 of an inch in thickness having two cutting edges sandwiched between said guard and cap, the blade having colored coated areas in part exposed beyond and adjacent the cap edges, the coated areas being engaged by areas of the guard and cap adjacent the edges of the guard and cap, the thickness of the coated areas controlling the additional distances that the cutting edges are to be spaced from the cap edges and guard edges and the color thereof being optically different from the color of the other exposed strip, cap and guard.

2,326,775

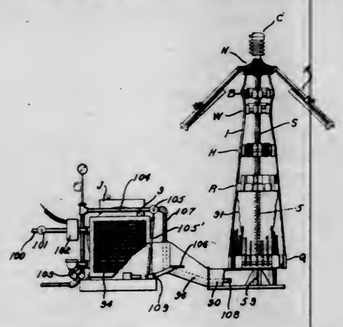
CLEANER'S FORM FOR SIZING GARMENTS

Wallmuth R. Frentzel, Seattle, Wash., assignor to University National Bank, Seattle, Wash., as trustee

Substituted for abandoned application Serial No. 245,007, December 10, 1938. This application October 30, 1942, Serial No. 463,903
33 Claims. (Cl. 223—70)

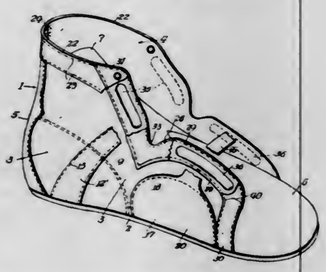
1. In a cleaner's garment sizing form, an up-

right support, expanding means surrounding said support at each of several zones, as the bust, the waist, and the hips, unitary flexible and inherently extensible means carried by said support and engaged by said expanding means to define a figure of generally human shape, and means to expand or contract each of said expanding means each in its own plane simultaneously in substantially all directions in such plane radially about said support in an amount which is independent of the amount of contraction or ex-



pansion of every other expanding means, and in each expanding means to expand or contract by different radial amounts in different radial directions around said support, conformably to the relative variation of equivalent measurements in average human figures in such directions radially around a vertical line through the body, whereby to maintain the form, at each zone, expanded in the amounts in each radial direction conformably to the human figure and to the expansion at other zones.

2,326,776
SHOE
Benjamin Gellman, Chicago, Ill.
Application May 5, 1941, Serial No. 391,912
13 Claims. (Cl. 36—2.5)



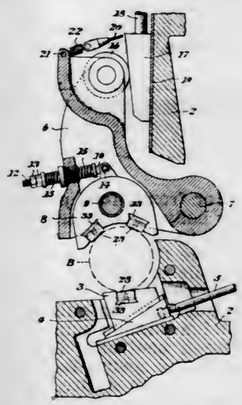
1. A shoe having two similar quarters on opposite sides thereof, a strap on one of the quarters over the toe portion of the shoe, a buckle on the other quarter cooperating with the strap to secure the shoe about the toe of the wearer, a second strap and cooperating buckle on the respective quarters at the ankle portion of the shoe, separate reenforcing members stiffening the edge of each quarter beneath and extending at right angles to each strap, a top side stay on each quarter, each stay overlying both reenforcing members of its quarter and having a notch therein between the members and extending towards the sole of the shoe.

2,326,777
ROLLER FOR PRINTING
Adalbert B. Guth, Oak Park, Ill., assignor to Ditto, Incorporated, Chicago, Ill., a corporation of West Virginia
Application April 7, 1941, Serial No. 387,185
6 Claims. (Cl. 41—31.6)



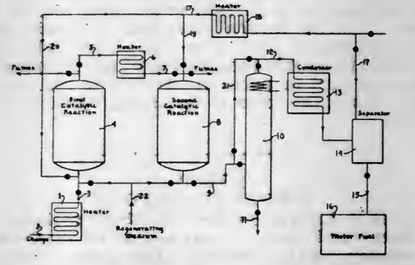
1. An inking roller for printing having a surface layer through which water may pass to the body of the roller and which expands when moistened to increase the diameter of the roller, said roller containing a dyestuff which becomes available at the roller surface upon moistening of the surface layer.

2,326,778
GRIPPING MEMBER FOR BILLET SURFACING MACHINES AND THE LIKE
Edward W. Haeckler, McKeesport, and Walter Moyle, Duquesne, Pa.
Application September 25, 1942, Serial No. 459,722
9 Claims. (Cl. 24—249)



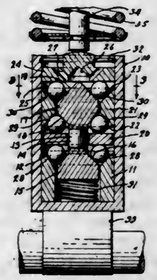
1. In a machine of the class described, a plurality of members for gripping the workpiece adapted to be disposed therein, means for supporting said gripping members, each of said gripping members consisting of a substantially rectangular-shaped block-like member having a serrated surface arranged on the gripping side thereof, and a flange portion extending to each side of said block-like member throughout the length thereof on the side opposite that from said serrations with the flanges disposed substantially parallel thereto, said supporting means having a plurality of slots arranged therein substantially parallel to the axis of the workpiece and the travel of the same through the machine, with each of said slots having a cross section conforming substantially to the cross section of said gripping members and in which one of said gripping members is adapted to be disposed with the serrations thereof arranged substantially parallel to the axis of the workpiece which they are adapted to grip.

2,326,779
HIGH GRADE MOTOR FUEL FROM STRAIGHT RUN AND SIMILAR HYDROCARBONS
Eugene J. Houdry, Ardmore, Pa., assignor to Houdry Process Corporation, Wilmington, Del., a corporation of Delaware
Application February 1, 1940, Serial No. 316,705
6 Claims. (Cl. 196—49)



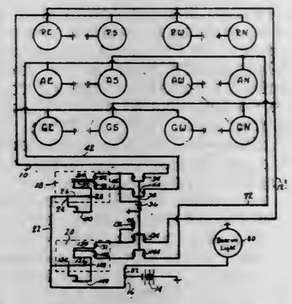
4. Process of making high grade motor fuel from naphthas in the boiling range of 200 to 420° F. which comprises subjecting the naphtha charge in vapor phase in the temperature range of 650 to 800° F. to the action of a splitting catalyst of high activity maintained within a reaction zone, withdrawing products from said zone and directly subjecting them at reaction temperature to a dehydrogenation catalyst in a second reaction zone, maintaining both reaction zones at substantially the same pressure up to 300 pounds per square inch while maintaining the feed rate to each zone in excess of 1:1 and the rate to the first zone higher than to the second zone, whereby at least 10 points octane increase is obtained in the products from the first zone with substantially no gas or liquid loss and the initial boiling point is lowered substantially while a further increase in octane is obtained in the second zone without any substantial change in the boiling range of the products.

2,326,780
MECHANICAL COMPENSATOR
William C. Howard, Jr., Detroit, Mich.
Application June 25, 1941, Serial No. 399,653
25 Claims. (Cl. 123—90)



7. A mechanical compensator comprising: an upper pressure body; a compensating member; a spring biasing the compensating member upwardly; means whereby upward movement of the compensating member causes upward movement of the upper pressure body; the compensating member having oppositely inclined cam surfaces forming a fixed wedge groove; a lower pressure body; an intermediate pressure body; the lower and intermediate pressure bodies carrying cam surfaces which are oppositely inclined and are movable relative to each other and form a constrictable wedge groove opposite said fixed wedge groove; a floating separator intersecting the fixed wedge groove and the constrictable wedge groove and having opposite faces parallel to each other; two series of anti-friction devices disposed between the fixed wedge groove and the constrictable wedge groove and in contact respectively with opposite parallel faces of the floating separator; the parts being so disposed that when the lower and intermediate pressure bodies are moved toward each other by an external load the said two series of anti-friction devices and the separator become wedged between the fixed wedge groove and the constrictable wedge groove, locking the compensating member against movement.

2,326,781
TRAFFIC SIGNAL
Earl F. Hubacker, Highland Park, Mich., assignor to a partnership consisting of J. Stuart Bicknell, Mark H. Bicknell, Harold Hanchett, and W. James Olson, Clare, Mich.
Application December 5, 1941, Serial No. 421,722
12 Claims. (Cl. 177—337)

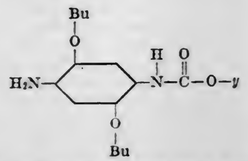


1. A traffic control adapted to be arranged at a traffic intersection comprising a circuit including a source of electric energy, a normally closed thermostatically controlled switch, a relay controlled switch and a set of signal lights comprising a "stop" signal light facing in one direction and a "go" signal light facing in a cross direction, a second circuit including said source of electric energy, a normally closed thermostatically controlled switch, a relay controlled switch and a second set of signal lights comprising a "stop" signal light facing in said cross direction and a "go" signal light facing in said one direction, and a relay operatively connected in one of said circuits for operating said relay controlled switches which are arranged so that one circuit is opened while the other circuit is closed.

2,326,782
PHOTOSENSITIVE MATERIAL
David D. Jacobus, Bernardsville, N. J., and John R. Bose, Woodhaven, N. Y., assignors to Keuffel & Esser Company, Hoboken, N. J., a corporation of New Jersey
No Drawing. Application April 16, 1941, Serial No. 388,802
6 Claims. (Cl. 95—7)

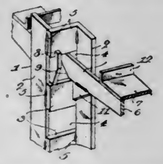
1. The light-sensitive photographic element

comprising a diazonium compound obtained by diazotizing a compound of the following general formula:



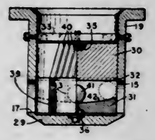
wherein Bu stands for butyl and *y* stands for a lower alkyl radical.

2,326,783
COMBINED FRAMING STRUCTURE AND BRACKET SUPPORT
Frederick Kautz, Philadelphia, Pa.
Application May 17, 1941, Serial No. 394,021
18 Claims. (Cl. 248—235)



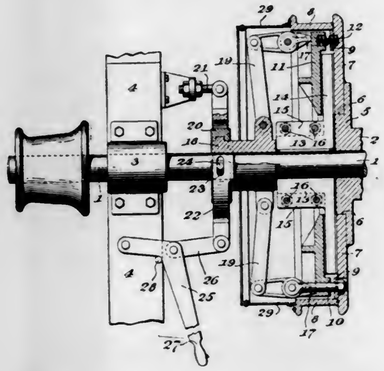
1. A structural element comprising a member adapted to be erected in vertical position in wall structures and the like, and comprising a stud element substantially Z-shaped in cross section having reinforcing flanges adapted to be set at right angles to the general plane of the wall and like structure, said flanges being in spaced planes the dimension of the cross sectional extension of said flanges being greater than the separating space between said flanges, transverse connecting members therebetween, spaced longitudinally of the structural element, and a member to be supported having arm elements constructed for projection through said opening, the structural member and devices including rest elements on one constructed to coengage with the other, and support such object in a predetermined operative relation to the structural elements, for the purposes described.

2,326,784
ERECTING DEVICE FOR GYRO-VERTICALS
Arthur W. Lane, Freeport, N. Y., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a corporation of New York
Application January 29, 1942, Serial No. 428,694
8 Claims. (Cl. 74—5)



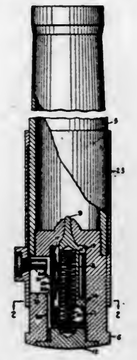
1. An erecting device for gyro-verticals comprising in combination, a gyroscopic rotor, a bearing frame for the rotor, means for universally supporting said frame with freedom about two, mutually perpendicular, normally horizontal axes and with the axis of spin of the rotor situated in a normally vertical position, a case mounted on said frame having a plurality of ports from which air jets issue to exert an erecting torque thereon, a rotatably mounted valve element for controlling the passage of air to the ports in the case having a passageway therein communicating with and facilitating the passage of air out of only one or an adjacent pair of the ports at a time, normally effective means for rotating said valve element when the rotor is normally positioned, and normally ineffective gravity responsive means, for said valve element movable in a groove situated in substantially right angle relation with respect to the port communicating passageway therein, operable, upon departure of the spin axis of the rotor from a vertical position, to render said rotating means ineffective and to stop said valve element to permit the passage of air through the required port or ports in the case to restore the spin axis of the rotor to its normal vertical position.

2,326,785
WINCH STRUCTURE
Donald B. Livingston, Beverly, Mass., assignor, by direct and mesne assignments, of one-half to Kinney Manufacturing Company, Jamaica Plain, Mass., a corporation of Massachusetts, and one-half to Randolph C. Perrin, Gloucester, Mass.
Application June 12, 1941, Serial No. 397,729
6 Claims. (Cl. 254—187)



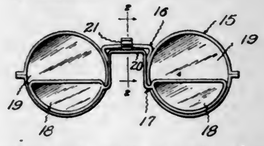
1. Winch mechanism comprising a shaft, a drum supported by said shaft for rotation independently thereof, one end of said drum constituting one clutch element and including an annular flange constituting a brake drum, a second member splined to said shaft, said second member comprising a pair of complemental sections each including a hub establishing portion and a disc establishing portion, means attaching said hub portions to each other about said shaft to assemble said sections so that said disc establishing portions present a second clutch element housed by said brake drum, a third clutch element, means detachably carried by said drum slidably supporting said third clutch element intermediate said assembled hub portions and said brake drum for axial movement, one of said first two named clutch elements being slidable relative to each other, and operator controlled means connected to said means supporting said third element to effect engagement of said clutch elements, said operator controlled means having an inoperative position wherein on detachment of said third element supporting means said third element may be positioned to permit said assembled sections to be disconnected from each other and removed from said shaft.

2,326,786
DISCHARGER FOR PYROTECHNIC CARTRIDGES
John L. Lochhead and Miles C. Benner, Springfield, Mass.
Application November 27, 1940, Serial No. 367,409
7 Claims. (Cl. 89—1)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



7. In a discharger, a barrel having a closed breech with a side aperture, a firing pin movable axially in the breech, a firing pin spring, a sleeve on the barrel, a sear element and a complementary sear engaging element, one of said elements carried by said firing pin and the other of said elements carried by said sleeve and engageable through said aperture, and a sear disengaging cam on the wall of said side aperture, said sear engaging element being adjustable with respect to said sear element to regulate their point of disengagement and positioned for adjustment exteriorly of the discharger.

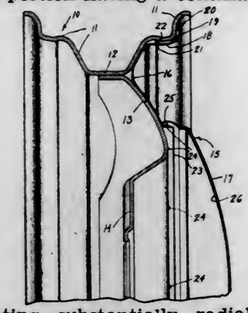
2,326,787
DETACHABLE BIFOCALS
Alvin I. Lorig, Washington, D. C.
Application August 21, 1940, Serial No. 353,567
3 Claims. (Cl. 88—41)



1. In combination with a pair of eye-glasses having a bridge portion and lenses, a supplementary frame, a pinch clamp carried by the supplementary frame for securely engaging said bridge portion, and rigidly holding the supplementary frame in engagement with said bridge portion and against swinging movement with respect to the bridge portion and lenses, the clamp constituting the sole supporting and connecting means between the pair of eye-glasses and the supplementary frame, and supplementary lenses carried by the supplementary frame and adapted to be supported in front of the lenses of the eye-glasses.

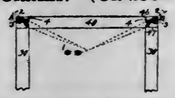
2,326,788
WHEEL STRUCTURE
George Albert Lyon, Allenhurst, N. J.
Application November 25, 1940, Serial No. 366,972
8 Claims. (Cl. 301—37)

1. In a wheel structure including a flanged and shouldered tire rim, the shoulder in said rim being in an axial flange of the rim and comprising a radially depressed annular section defining on one side of the rim a seat for the tire bead and on the other side a cover retaining shoulder, a wheel cover cooperable with said shoulder of said rim comprising a circular member provided with a ring-like portion having a continuous annular



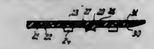
rib projecting substantially radially outward therefrom and flexible over and behind said rim shoulder whereby the cover may be sprung into retained detachable engagement with said tire rim, said rib being formed by an annular groove in said portion, and being out of round at a plurality of points.

2,326,789
AUTOMOBILE BODY CONSTRUCTION
Richard E. Marine, Pittsburgh, Pa.
Original application January 14, 1927, Serial No. 161,179. Divided and this application March 31, 1928, Serial No. 266,340. In France January 9, 1928
15 Claims. (Cl. 296—28)



1. In a vehicle construction in combination: a body post having a face in alignment with the driver's line of vision past the same, said face being provided between its inner and outer edges with a vertical channel; and a window end frame member, within said channel, having its outer face in substantial alignment with said first mentioned face.

2,326,790
HEEL PAD
Meyer Margolin, Elgin, Ill.
Application August 28, 1940, Serial No. 354,496
8 Claims. (Cl. 36—3)

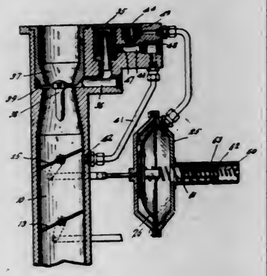


1. A heel pad comprising a rubber-like material, grooves located in the bottom of said rubber-like material, the walls of said grooves being spaced apart from one another, the ends of said grooves being closed, and downwardly extending projections located between said grooves.

2,326,791
INTERNAL COMBUSTION ENGINE CONTROL
Harold W. Meade, Covington, Ind.
Application April 3, 1940, Serial No. 327,577
14 Claims. (Cl. 123—119)

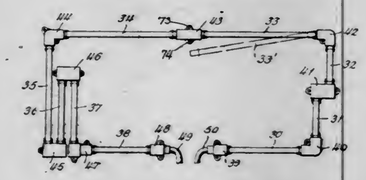
1. Means for controlling the pressure of ex-

plosive mixture supplied to an internal combustion engine having a mixture-supply conduit, comprising a valve in said conduit, a venturi in said conduit, and pressure-responsive mechanism operatively connected to said valve and responsive at least in part to static pressure at said venturi for moving said valve toward closed position upon an increase in such static pressure,



and vice versa, said venturi and pressure-responsive mechanism being proportioned to maintain throughout the lower half of the engine's speed-range mixture-pressures materially lower than those maintained at engine speeds near the maximum.

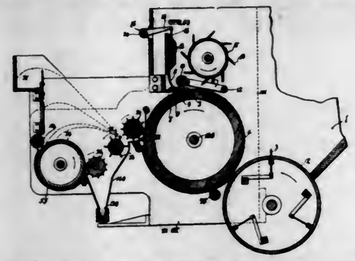
2,326,792
MOUNTING FOR NEON TUBES AND THE LIKE
Samuel C. Miller, New York, N. Y.
Application December 27, 1939, Serial No. 311,078
3 Claims. (Cl. 176—32)



3. A housing adapted to receive the electrode of a neon tube having cup-shaped electrodes, said housing comprising a hollow body of insulating material open at one side thereof and adapted to receive therethrough and within the hollow thereof the electrode end portion of a neon tube in substantially concentric position spaced from the side walls of said hollow body, a seat on said body, spaced and extended away from the portion arranged to receive the electrode end, for a side wall portion of said neon tube, means anchored on the body for holding said tube wall portion on the seat, and electrically conducting resilient means positioned between said electrode and said body and pressing against the electrode.

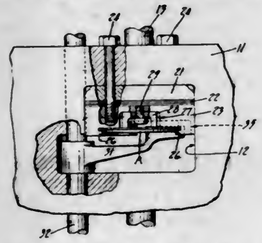
2,326,793
METHOD AND APPARATUS FOR FEEDING CUT TOBACCO
Desmond Walter Molins and Felix Frederic Ruau, London, England, assignors to Molins Machine Company Limited, London England
Application July 1, 1939, Serial No. 282,532
In Great Britain July 14, 1938
42 Claims. (Cl. 131—109)

1. Apparatus for removing surplus tobacco from an endless conveyor having tobacco-engaging teeth thereon comprising a separating device having tobacco-engaging teeth for separating surplus tobacco from the conveyor, means for reciprocating said teeth in a direction transverse to the direction of movement of the conveyor, means to press the tobacco on the conveyor in the region



of the reciprocating tobacco-engaging teeth to facilitate separation of the tobacco, a passage for deflecting and guiding separated tobacco away from the surface of the conveyor and means to return separated tobacco to the surface of the conveyor at a position in advance of the pressure means.

2,326,794
TRANSFER VALVE
Ronald E. J. Nordquist, Maplewood, N. J., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application December 10, 1941, Serial No. 422,435
3 Claims. (Cl. 198—41)

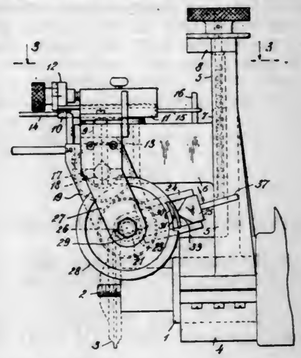


1. In a can closing machine, the combination of a rotatable transfer member having peripheral pockets for receiving a can part, a permanently energized magnetic element disposed in a said pocket for holding a received can part against radial displacement relative thereto, and ejector means also disposed in a said pocket and operable to eject the can part from said pocket against the holding pull of said magnetic element.

2,326,795
METHOD AND APPARATUS FOR DRESSING INVOLUTE GRINDING WHEEL PROFILES
Joseph J. Osplack, Detroit, Mich., assignor to Vinco Corporation, Detroit, Mich., a corporation of Michigan
Application September 28, 1940, Serial No. 358,920
7 Claims. (Cl. 125—11)

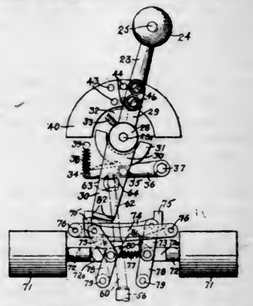
1. In an involute dresser, a supporting frame, a housing journaled at one end on said frame, an arm journaled at the other end of said housing with the axes of rotation of said housing and said arm parallel, a diamond point affixed to the inner end of said arm, a cam follower affixed to the outer end of said arm displaced from the axis of rotation of said arm and faced inward toward said axis, a circular cam carried by said

frame concentric with the axis of said arm with its perimeter in contact with said cam follower



and means for locally deforming the perimeter of said cam.

2,326,796
CONTROL STATION
Erwin J. Panish, Bridgeport, Conn.
Original application June 26, 1941, Serial No. 399,951. Divided and this application June 26, 1941, Serial No. 399,949
18 Claims. (Cl. 74—471)



1. In a manual control device, a manually operable means movable along a predetermined path from a given starting position through a range of control positions to effect a plurality of controlled operations, movement of said member to a predetermined control position initiating at least one of said controlled operations and further movement of said member beyond said control position effecting another of said operations; and releasable electromagnetic stop means for arresting said member upon movement from said starting position against further motion in the same direction at said predetermined control position, said electromagnetic stop means being releasable to permit further motion of said member upon completion of at least a part of the first-named operation.

2,326,797
MERCURIAL BAROMETER
John B. Peterson, Bethesda, Md.
Application August 23, 1940, Serial No. 353,874
1 Claim. (Cl. 73—4)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

A liquid barometer comprising a tapered cistern, a tube, liquid in said cistern extending into said tube and spaced from the top thereof, said cistern having an opening therein in communication with the pressure to be measured, said opening being located above the liquid in the cistern; the space above said liquid in said tube providing a temperature compensation chamber the volume of which is approximately equal to the volume corresponding to the height of the liquid column above the meniscus of the cistern multiplied by the horizontal area of the



liquid in the reading section of the tube, a compensating gas in said compression chamber, the expansion and contraction of which compensates the instrument against changes in temperature, the taper of said cistern being so proportioned that the meniscus of the liquid column moves equal distances with unit variations in the pressure.

2,326,798
METHOD OF TREATING HIDES, SKINS, AND PELTS
Julius Pfannmuller, North Plainfield, N. J., assignor to Wallerstein Company, Inc., New York, N. Y., a corporation of New York
No Drawing. Application February 16, 1939, Serial No. 256,719
9 Claims. (Cl. 149—1)

1. The method of treating salted or dried skins, hides and pelts for preliminary softening of the same, which comprises subjecting the skins, hides or pelts to the action of an aqueous bath containing hydrogen sulphide.

2,326,799
CONVERSION OF COMBUSTIBLE CARBONACEOUS MATERIALS
Mathias Pier, Heidelberg, and Gerhard Free, Ludwigshafen-on-the-Rhine, Germany; vested in the Alien Property Custodian
No Drawing. Original application August 12, 1938, Serial No. 224,488. Divided and this application July 19, 1939, Serial No. 285,348. In Germany August 24, 1937
3 Claims. (Cl. 196—52)

1. A process for the production of valuable non-knocking motor fuels which comprises subjecting normally gaseous paraffin hydrocarbons together with added cyclic hydrocarbons selected from the group consisting of benzene and its low boiling homologues and low boiling hydroaromatic hydrocarbons in the vapor phase to a thermal treatment at a temperature between 400° and 700° C. using a silicate having a splitting action as the sole catalyst.

2,326,800
PROCESS OF CARRYING OUT REACTIONS WITH CARBONACEOUS SUBSTANCES
Mathias Pier, Heidelberg, Wilhelm v. Fuener and Gerhard Free, Ludwigshafen-on-the-Rhine, Germany; vested in the Alien Property Custodian
No Drawing. Application August 15, 1940, Serial No. 352,742. In Germany December 9, 1938
2 Claims. (Cl. 196—52)

1. A process for the production of gasoline from hydrocarbons boiling above the gasoline boiling range which comprises cracking said last-named hydrocarbons in the presence of a solid contact mass comprising silica and magnesia formed by introducing a solution containing a silical sol and a soluble magnesium salt into an ammoniacal solution to form a precipitate and thereafter washing and drying the resulting precipitate.

2,326,801
HIGH FREQUENCY TUBES AND CIRCUITS
George E. Pray and Sebastian Riccobono, Washington, D. C.
Original application September 22, 1938, Serial No. 231,215, now Patent No. 2,251,951, dated August 12, 1941. Divided and this application January 22, 1941, Serial No. 375,417
11 Claims. (Cl. 250—27)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



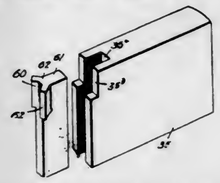
1. An electron discharge device, comprising a cathode support, separate electron emissive bodies on opposite sides thereof, each said body subtending substantially less than 180° of angle, means to cause said bodies to emit electrons, and a separate electrode disposed closely adjacent to each of said bodies, said electrodes each having a surficial area substantially equal to that of the respectively adjacent said body and being substantially equidistant in all parts of its surface from the corresponding parts of the surface of the respective said body.

2,326,802
SKI
Bestor Robinson, United States Army, and Wallace E. Breuner, Oakland, Calif.
Application September 9, 1942, Serial No. 457,712
2 Claims. (Cl. 280—11.13)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



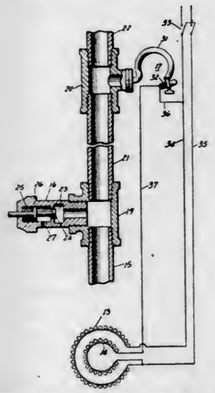
1. In combination, a ski including a longitudinal groove on its lower surface, and a vertical hole extending through the ski adjacent the rear end thereof; together with a fabric climber having forward fastening means, intermedite fastening means, and rear fastening means; the forward fastening means comprising a loop encircling the point of the ski with a strap and buckle to secure the loop to the forward end of the climber; the intermediate fastening means consisting of fabric reinforcements stitched to the climber at spaced areas to provide a transverse strap channel, a strap passing through said channel and encircling the ski, and a buckle to secure the strap; the rear fastening means including a chain secured to the rear of said climber and extending longitudinally of the ski and through the aforementioned vertical hole through the ski; and a cross link adapted on the top surface of the ski to anchor the end of the chain.

2,326,803
POSITIVE DISPLACEMENT PUMP FOR METERING
David Samiran, Dayton, Ohio
Application March 18, 1941, Serial No. 383,977
1 Claim. (Cl. 103—136)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



In an expansible chamber device of the character having a vaned rotor therein with the vanes thereof radially movable therein, of means for sealing the radial edges of the vanes comprising, a slot extending along the radial face of each vane, a recessed portion adjacent the outer radial part of the vane, a resilient sealing member having a shank portion adapted to be inserted in the slot in said vane, said sealing member having outwardly flared and laterally extending flange portions adapted to overlie the recessed portion of the vane, the contact face of the flanges being cup-shaped and the rear face of the flanges having a clearance from the edges of the recessed portion of the vane to allow the action of fluid pressure thereon.

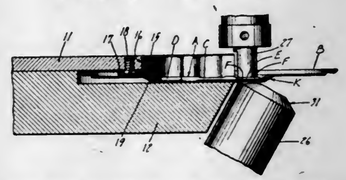
2,326,804
CONTROL MECHANISM
Frank J. Sigmund and William S. Hlavin, Cleveland, Ohio
Application November 15, 1941, Serial No. 419,334
5 Claims. (Cl. 103—11)



1. The combination with a fluid pump having a fluid conduit extending upwardly therefrom,

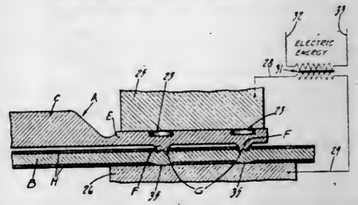
a single phase induction motor having a split phase starting winding for driving the pump, of control means for governing the split phase starting winding, said control means comprising, in combination, an electrical switch responsive to the pressure of the fluid being pumped in the conduit at an elevated position above the pump, circuit connections through the switch for governing the energization of the split phase starting winding, and drain means having an opening in the fluid conduit below the pressure responsive switch to drain the fluid in the conduit to a point below the pressure responsive switch.

2,326,805
WELDING APPARATUS
Benjamin Shmurak, New York, N. Y., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application November 28, 1941, Serial No. 420,887
4 Claims. (Cl. 219—4)



4. In an apparatus for electrically welding a metal opening key having a sharp welding projection thereon to a metal can end when said metal end is surface coated on the key engaging side with an insulating material such as lacquer, the combination of a pair of welding electrodes for engaging an assembled key and can end brought between them, means for bringing the assembled key and can end into position between the electrodes, means for pressing the assembled key and can end together between said electrodes to force said key projection through the surface coating of said end, and insulating means for confining the welding current to a direct path between said electrodes and the welding point, whereby to fuse the interposed key and can end together in a permanent welded bond.

2,326,806
METHOD OF ATTACHING KEYS TO CAN ENDS
Benjamin Shmurak, New York, N. Y., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application November 28, 1941, Serial No. 420,888
6 Claims. (Cl. 219—10)

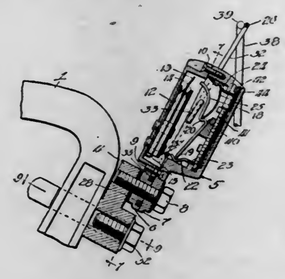


1. The method of attaching metal opening keys to sheet metal can ends which are coated on both sides, which consists in arranging a key having a sharp projection onto a can end, pressing the projection of the key into the can end to deflect a localized portion of the end out of its plane by the pressure of such projection, so as to remove a coincidentally localized spot of coating from each side of the can end so that the key will directly engage the metal of the end at such deflected portion, and then welding the key to the can end by passing an electric current through the engaged metal parts of the key and end.

2,326,807
CONCENTRATION OF KYANITE
Francis X. Tartaron, Mulberry, Fla., assignor, by mesne assignments, to Minerals Separation North American Corporation, New York, N. Y., a corporation of Maryland
No Drawing. Application February 6, 1942, Serial No. 429,767
2 Claims. (Cl. 209—166)

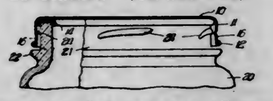
1. A process of concentrating kyanite from its ores which comprises comminuting the ore to suitable particle size, pre-treating the comminuted ore by agitating it in a pulp containing nitric acid, then washing the nitric acid away from the ore, then conditioning the thus acid-treated and washed ore by agitating it in a pulp containing as the only flotation agent an anionic reagent consisting of a higher fatty acid containing at least twelve carbon atoms, and subjecting the thus conditioned pulp of kyanite ore to froth-flotation to separate in the froth a concentrate of kyanite.

2,326,808
VEHICLE BRAKE SIGNAL
Thomas Van Tuyl and Charles B. Hale, Chicago, Ill.
Application October 2, 1939, Serial No. 297,534
3 Claims. (Cl. 177—311)



1. In combination, two signals, a casing adapted to be fixed upon a brake pedal, two two-position controlling devices, one for each signal, arranged in the casing, an inertia-operated actuator mounted in the casing to move from an idle position and drive one of said controlling devices into its working position when the pedal is driven down quickly, a member mounted on the casing and yieldingly held in an idle position, said member being movable in one direction from its idle position to move both controlling devices into their working positions and movable in the opposite direction from said idle position to reset the actuator, said member having a part lying on the exterior of the casing and adapted to engage an upper stationary stop to reset the actuator when the pedal rises and to engage a lower stationary stop to move it in the direction to shift both controlling devices into their working positions when the pedal moves down abnormally far as is the case when brakes are defective.

2,326,809
CLOSURE AND PACKAGE
Philip O'C. White, Chicago, Ill., assignor to White Cap Company, Chicago, Ill., a corporation of Delaware
Application September 18, 1939, Serial No. 295,406
13 Claims. (Cl. 215—44)

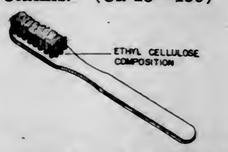


1. A closure cap for use as a slip-on cap and as a screw cap on a receptacle having a peripherally threaded neck, comprising a shell having a top portion with a plastic annular sealing gasket secured in contact with its under surface in position to seat on the mouth rim of the receptacle and form an hermetic seal thereon, and a depending annular skirt of size such as to receive the threaded neck of the receptacle freely and permit the closure to drop downwardly thereon until the gasket contacts the mouth rim, said skirt having pre-formed therein holding elements which are located entirely outside the area of the receptacle neck thread but are displaceable inwardly, by radial pressure applied by hand after the closure is removed from the receptacle, to positions where portions of said holding elements are within the area of the receptacle neck thread so as to cooperate therewith as screw lugs to permit the closure to be screwed onto and off of the receptacle and form a tight re-seal thereon.

2,326,810
COMPOSITION OF MATTER
David R. Wiggam, West Grove, Pa., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application May 31, 1939, Serial No. 276,682
11 Claims. (Cl. 106—173)

1. A molding powder comprising 10 parts of ethyl cellulose having an ethoxyl content from about 41% to about 51%, and from 1 to 10 parts of hydrogenated rosin.

2,326,811
BRUSH COMPRISING PLASTIC MASS
David R. Wiggam, West Grove, Pa., and William Koch, Wilmington, Del., assignors to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
Application March 30, 1940, Serial No. 326,832
8 Claims. (Cl. 15—159)



8. A brush comprising, in combination, a plastic mass substantially unaffected by hot water comprising:

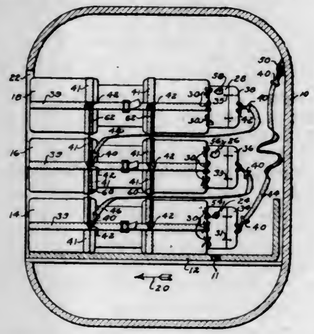
	Percent
Ethyl cellulose having an ethoxyl content between about 41% and about 51%	In excess of about 70
Glycerol ester of hydrogenated rosin	About 5 to about 15
Substantially non-volatile liquid refined mineral oil	About 5 to about 15
A water resistant softening modifier miscible with said oil	About 5 to about 15

and a bristle tuft mounted in said plastic mass.

2,326,812
INJECTION MOLDING POWDER
David R. Wiggam, West Grove, Pa., and William Koch, Wilmington, Del., assignors to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 30, 1940, Serial No. 326,970
17 Claims. (Cl. 106—173)

1. An injection molding powder consisting of substantially solvent-free granules comprising in homogeneous colloided form between about 65% and about 90% of an ethyl ether of cellulose having an ethoxyl content in the range between about 43% and about 50% and between about 5% and about 35% of a resin possessing solvent action for said ethyl cellulose at a temperature in the range of 350–400° F. and substantially no solvent action for said ethyl cellulose at temperatures of about 100° F. and from 0% to 17.5% of a solvent plasticizer.

2,326,813
MULTIPLE LAUNCHING OF PARACHUTE BORNE EQUIPMENT CONTAINERS FROM AIRCRAFT
Harry Wilson, Fort Benning, Ga.
Application April 18, 1942, Serial No. 439,450
5 Claims. (Cl. 244—137)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

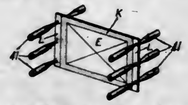


2. Apparatus for landing paratroop equipment from an aircraft, which comprises, in combination, a series of containers, an equal number of parachute packs, one fastened to each container, a parachute canopy in each pack, a break cord at the top of each canopy, a static line extending from the break cord on one container to an anchor on the aircraft, a static line extending from the body of said one container to the break cord of a second container, and a static line extending from the body of said second container to the break cord of a third container and so uniformly throughout the series.

2,326,814
METHOD OF PREPARING BLACK PLATE FOR CAN MANUFACTURE
Delbert E. Wobbe, River Forest, Ill., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application November 28, 1939, Serial No. 306,574
3 Claims. (Cl. 113—120)

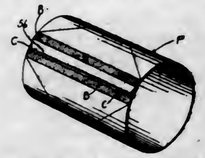
1. The method of manufacturing can bodies having edges united in soldered side seam joints, comprising coating a part of a surface of sheet metal with a deoxidizing acid resisting and soldering heat resistant substance while leaving as

uncoated sheet metal marginal portions to be incorporated in the side seam to provide a can body blank, applying a deoxidizing acid to said marginal portions of the blank defined by said coating to remove oxide therefrom up to said



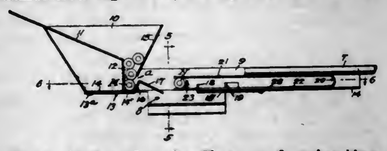
coating while confining the deoxidizing action by said coating to said marginal portions, and forming a can body from the blank by soldering together the deoxidized portions in a side seam in the presence of soldering heat.

2,326,815
METHOD OF MAKING CAN BODIES
Delbert E. Wobbe, River Forest, Ill., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application November 28, 1939, Serial No. 306,575
3 Claims. (Cl. 113—120)



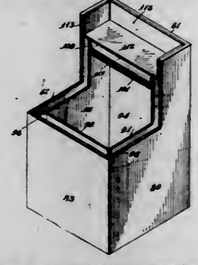
3. A method of making sheet metal can bodies having soldered side seams which will effect a substantial saving of solder, which method comprises coating a predetermined portion of the surface of a sheet metal blank with a heat resistant and solder repellent aluminum paint while leaving straight edged portions of said surface uncoated to provide a can body blank having an effective solderable marginal seam area of restricted minimum width, forming a tubular can body from said blank with said coated surface portion on the outside and said solderable marginal area incorporated in a side seam with the edges of said coated portion located on opposite sides of said restricted solderable area, said coated portion defining a narrow solderable band with straight edges, applying molten solder to said band and completely covering said band with molten solder up to the edges of said coated portion, said edges functioning as solder barriers and remaining substantially unaffected by the heat of said molten solder, and wiping the entire area between said solder barriers to remove excess solder.

2,326,816
CARTRIDGE FEEDER AND ORIENTER
John H. Woodberry, Metuchen, N. J.
Application November 24, 1942, Serial No. 466,825
5 Claims. (Cl. 86—45)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



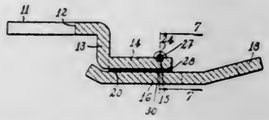
3. In a device for feeding and orienting cartridges with their projectile ends pointed in a predetermined direction, in combination, a hopper for dis-oriented cartridges, the front wall of the hopper being provided with an opening, a spring plate secured to the underside of the hopper and provided with a double bevel upward projection, the proximal bevel being of steeper inclination and serving to close the said opening and the distal bevel forming a lip of less inclination, a slide member in the form of an elongated-U excursionable towards and away from the hopper, the edge of the lower web of the slide member being adapted to cam the said lip of the spring plate downwardly to depress the said closing bevel away from the said opening and the leading portion of the upper web of the slide member being adapted to insert itself between the lowermost cartridge in the hopper and those above it, the lower web being provided with a centrally located stop set back from its edge a distance commensurate with the cartridge diameter, the said U-shaped slide member being made of springy plate to grip the said lowermost cartridge at the distal ends of the webs against the said central stop whereby the gripped cartridge is removed rearwardly with the slide member, a stop fixed to the machine frame, whereby as the slide member is withdrawn a central point of the said gripped cartridge contacts the said fixed stop to turn the cartridge on its largest, primer end to point the projectile end foremost, a pair of fixed stops one at each side of the sliding member and positioned to the rear of the said central fixed stop and adapted to be contacted by the primer end of the said gripped and turned cartridge, to push the said cartridge off the slide member with its projectile end pointed forwardly.

2,326,817
COLLAPSIBLE INSULATING CASING
Philip Zalkind, New York, N. Y.
Original application April 20, 1936, Serial No. 75,315. Divided and this application August 17, 1939, Serial No. 290,582
1 Claim. (Cl. 229—14)



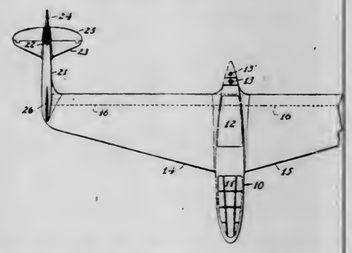
A collapsible insulating casing comprising an inner and an outer shell and dish-shaped closure members; said outer shell comprising a collapsible tube forming the outer side walls; said inner shell comprising side walls, end walls, flanges lengthwise of said side walls at the juncture of each to adjacent side walls; flaps for bottom and top walls, peripheral flange members of said inner shell along the top and bottom of said shell; said lengthwise flanges on said inner shell cooperating with said outer shell at its corners to secure the side walls of said inner and outer shells in predetermined spaced relationship with each other, thereby forming "dead" air insulating spacing covering the side walls of said casing; a member formed of sheet material enclosing the lower end of said casing to form a "dead" air insulating space covering the bottom end of said casing, and a similar member formed of sheet material enclosing the upper open end of said casing, and thereby forming a "dead" air insulating space covering the top end of said casing.

2,326,818
PRESSER FOOT
Oreste Balzano, New Haven, Conn., assignor to The Greist Manufacturing Company, New Haven, Conn., a corporation of Connecticut
Application March 4, 1941, Serial No. 381,666
8 Claims. (Cl. 112—235)



1. A presser foot construction comprising a foot member, a sheet metal member of channel-shaped cross section having its body portion secured to the upper surface of the foot member, and its flanges projecting upwardly therefrom, an attaching shank having a forwardly extending portion lying between said flanges, and a pin secured in said flanges to overlie said shank for rocking motion, said shank portion having a portion and connect the foot member thereto transversely extending groove in its upper surface within which said pin is disposed, and said groove having an outwardly convex bottom wall to provide greater clearance between said pin and the bottom of said groove adjacent the ends of the pin than at the intermediate portion thereof.

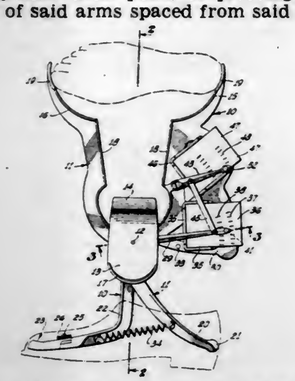
2,326,819
AIRPLANE
Donovan R. Berlin, Eggertsville, N. Y., assignor to Curtiss-Wright Corporation, a corporation of Delaware
Application August 28, 1940, Serial No. 354,503
5 Claims. (Cl. 244—13)



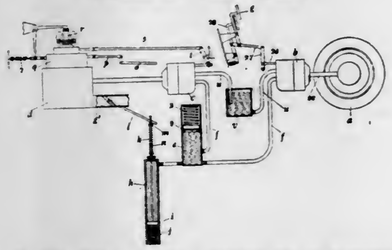
1. In aircraft, a central body having a propeller, wings extending laterally out from said body, a streamlined boom mounted adjacent to the tip of each wing and extended rearwardly beyond the trailing edge thereof from a point adjacent to the wing leading edge, said booms being thicker than the wing tips to extend respectively above and below the top and bottom surfaces thereof to function as end plates tending to eliminate wing-tip losses, and an independent set of horizontal and vertical stabilizers mounted at the rear end of each boom.

2,326,820
SHOE FITTING DEVICE
Elmer Jared Bliss, Chilmark, Mass.
Application February 20, 1942, Serial No. 431,719
7 Claims. (Cl. 33—3)

1. In a device of the character described, a pair of arms pivoted to one another intermediate their ends, and a heel stop connected to said arms adjacent their point of pivoting, opposed portions of said arms spaced from said heel support being formed to receive therebetween the ball of the foot for gauging the width of the foot.



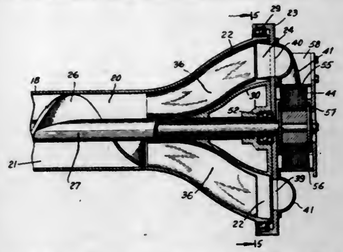
2,326,821
HYDRAULIC POWER TRANSMISSION SYSTEM
William Robert Boyle, Finham, England, assignor of one-third to The Glacier Metal Company, Limited, Alperton, Middlesex, England, and one-third to The Rover Company Limited, Chesford Grange, near Kenilworth, Warwickshire, England
Application March 26, 1942, Serial No. 436,353
In Great Britain April 16, 1941
2 Claims. (Cl. 60—19)



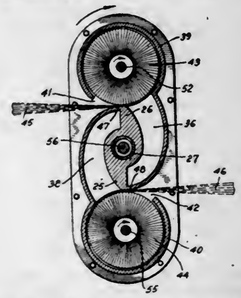
1. A hydraulic power transmission system for a mechanically propelled vehicle, comprising the combination of a variable displacement hydraulic pump adapted to be driven by the vehicle engine, a variable displacement hydraulic motor adapted to be driven by the pump and to drive the propelling mechanism of the vehicle, an energy reservoir in communication with both the pump and motor, a control device responsive to the fluid pressure condition in the energy reservoir and adapted to control the throttle valve of the vehicle engine and the displacement of the pump, and a governor adapted to be driven by the vehicle engine and to control automatically the displacement of the pump.

2,326,822
PIPE LINING APPARATUS
William R. Brend, East Orange, N. J., assignor to Lock Joint Pipe Company, East Orange, N. J., a corporation of New Jersey
Application July 1, 1941, Serial No. 400,635
8 Claims. (Cl. 91—44)

7. Apparatus for applying plastic material to the interior of a pipe comprising a tubular chamber, a worm mounted within said chamber for advancing plastic material therethrough, said worm being mounted upon a hollow shaft, a casing having an annular passageway connecting with the discharge end of said worm, a distributing head mounted for rotation upon said casing, said distributing head having a conduit in communication with said annular passageway, means connecting said distributing head with said hollow shaft so the same may be rotated thereby, another shaft mounted within said hollow shaft, a cylindrical brush mounted upon said shaft and located to receive plastic material from the conduit carried by said rotary head, means for rotating said worm and rotary head so as to advance plastic material through said passageway and conduit and discharge the same in a circular path about said rotary brush, said conduit having a discharge end which discharges material to the periphery of said brush through 360 degrees of revolution of the conduit, and means for rotating said brush to project the plastic material received from said conduit against the interior of the pipe wall.

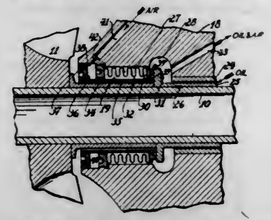


2,326,823
PIPE LINING APPARATUS
William R. Brend, East Orange, N. J., assignor to Lock Joint Pipe Company, East Orange, N. J., a corporation of New Jersey
Application September 30, 1941, Serial No. 412,945
8 Claims. (Cl. 91—44)



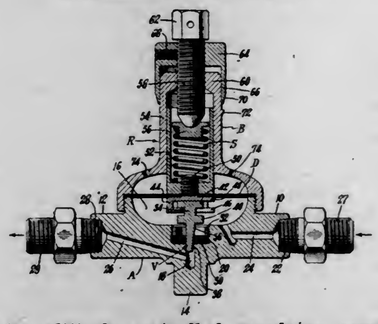
1. In apparatus for applying plastic material to the interior of a pipe, the combination comprising a rotatable member for distributing plastic material in a circular path, a rotatable impelling element for projecting plastic material from said circular path, means for mounting said rotatable impelling element on an axis outside of the circular path of distribution of plastic material from said rotatable member and with its impelling surface intersecting said circular path of distribution, means for providing plastic material to said rotatable member, means for rotating said rotatable member, and means for rotating said rotatable impelling element for causing projection of plastic material from its circular path as distributed from the rotatable member.

2,326,824
OIL SEAL
Kenneth A. Browne, Fairlawn, and Ferdinand P. Sollinger, Paterson, N. J., assignors to Wright Aeronautical Corporation, a corporation of New York
Application November 16, 1940, Serial No. 365,954
11 Claims. (Cl. 230—132)



10. In a fluid compressor having a driving shaft and an oil fed bearing with a drain therefor, the combination of a statically closed ring seal between the bearing and shaft biased into sealing engagement therewith when the shaft is stationary to prevent the flow of bearing oil into said compressor, means to subject said seal to the compressor output fluid pressure, said output fluid pressure being effective upon high speed compressor operation to open said seal and bleed said fluid therethrough at least partly into said drain, whereby said fluid bleed scavenges excess oil into said drain.

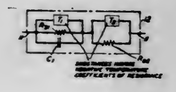
2,326,825
ALTITUDE-CONTROLLED REGULATOR
Worthy C. Bucknam, Mechanic Falls, Maine, assignor to Union Carbide and Carbon Corporation, a corporation of New York
Application November 19, 1940, Serial No. 366,246
5 Claims. (Cl. 137—153)



1. An altitude-controlled regulator comprising, in combination, a valve casing formed with an inlet chamber and a cylindrical outlet chamber; means providing a valving orifice disposed between said chambers; a spring housing secured to said valve casing and formed with an elongated tubular extension axially aligned with said cylindrical outlet chamber and said valving orifice; a flexible pressure-responsive diaphragm clamped between said casing and said housing; an elongated cylindrical guide means having extensive sliding surface engagement with said tubular extension; a valve mounted on the opposite side of said diaphragm from said guide means and having a substantially cylindrical portion extending through said valving orifice and having extensive sliding surface engagement with the wall of said cylindrical outlet chamber throughout the range of movement of said valve,

and with a circumferential flange, said cylindrical portion having a variable cross-sectional area whereby the effective area of said valving orifice may be varied by axial displacement of said portion therethrough and a maximum cross-sectional area substantially equal to the cross-sectional area of said valving orifice; said elongated cylindrical guide means in cooperation with said elongated tubular extension and said substantially cylindrical valve portion in cooperation with said cylindrical outlet chamber acting to maintain said valve in rigid, axial alignment with said valving orifice throughout the effective range of movement of said valve with respect to said valving orifice; and means securing said valve to said diaphragm, said means comprising a member secured to said diaphragm and to said guide means and formed with a bifurcated flange engaging the flange on said valve to maintain said valve in rigid parallelism with said guide means while providing lateral adjustment of said valve relative to said diaphragm and guide means to maintain said guide means aligned with said tubular extension and said valve aligned with said cylindrical outlet chamber.

2,326,826
TRANSMISSION SYSTEM REGULATION
Robert K. Bullington, Forest Hills, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 9, 1941, Serial No. 410,136
6 Claims. (Cl. 178—44)



5. In combination, a transmission line to be subjected to a wide range of atmospheric temperatures and to transmit a broad band of high frequency currents, said line being of a material having a positive temperature coefficient of resistance and increasing in resistance with rising frequency, and impedance units to compensate for variation in line resistance with variation in temperature and frequency, said units being inserted in series in said line at intervals and subjected to the same variation in temperature and frequency as the line, each unit comprising a pair of resistance networks changing in resistance in a direction opposite to that of the temperature change, one network including reactance means contributing a decreasing resistance and an increasing negative reactance characteristic with frequency to the unit.

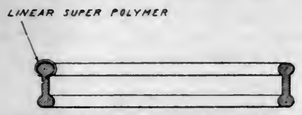
2,326,827
CORING APPARATUS
Pink T. Bynum, Beeville, Tex., assignor of three-sixteenths, to John R. Beasley, and one-eighth to Ignatius B. O'Neil, both of Beeville, Tex.
Continuation of application Serial No. 235,652, October 18, 1938. This application April 15, 1940, Serial No. 329,663
10 Claims. (Cl. 255—1.4)

5. In a coring apparatus, a carrier, a core barrel guide hinged to said carrier, a core barrel slidably mounted in said guide and having a cutting head, means for deflecting said guide with said core barrel therein to a position out of alignment with said carrier, and means for urging said core barrel outwardly in a direction to-



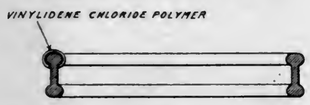
wards its cutting head when in such deflected position.

2,326,828
PLASTIC TRAVELER
William M. Camp, Glen Ridge, N. J., assignor to The Clark Thread Company, Newark, N. J., a corporation of New Jersey
Application March 2, 1942, Serial No. 432,919
11 Claims. (Cl. 57—125)



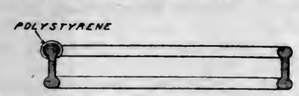
1. A traveler for ring spinning and twisting the surface of which comprises a synthetic linear super polymer.

2,326,829
PLASTIC TRAVELER
William M. Camp, Glen Ridge, N. J., assignor to The Clark Thread Company, Newark, N. J., a corporation of New Jersey
Application March 31, 1942, Serial No. 436,960
5 Claims. (Cl. 57—125)



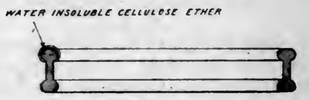
1. A traveler, the wearing surface of which comprises a vinylidene chloride polymer.

2,326,830
PLASTIC TRAVELER
William M. Camp, Glen Ridge, N. J., assignor to The Clark Thread Company, Newark, N. J., a corporation of New Jersey
Application March 31, 1942, Serial No. 436,961
3 Claims. (Cl. 57—125)



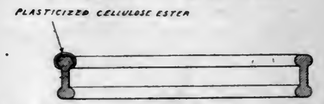
1. A traveler, the wearing surface of which comprises polystyrene.

2,326,831
PLASTIC TRAVELER
William M. Camp, Glen Ridge, N. J., assignor to The Clark Thread Company, Newark, N. J., a corporation of New Jersey
Application March 31, 1942, Serial No. 436,962
7 Claims. (Cl. 57—125)



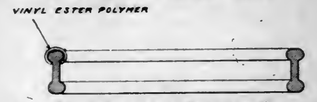
1. A traveler, the wearing surface of which comprises a water insoluble cellulose ether.

2,326,832
PLASTIC TRAVELER
William M. Camp, Glen Ridge, N. J., assignor to The Clark Thread Company, Newark, N. J., a corporation of New Jersey
Application March 31, 1942, Serial No. 437,042
11 Claims. (Cl. 57—125)



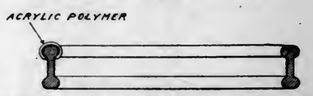
1. A traveler the wearing surface of which comprises a plasticized cellulose ester.

2,326,833
PLASTIC TRAVELER
William M. Camp, Glen Ridge, N. J., assignor to The Clark Thread Company, Newark, N. J., a corporation of New Jersey
Application March 31, 1942, Serial No. 437,043
9 Claims. (Cl. 57—125)



1. A traveler the wearing surface of which comprises a vinyl ester polymer.

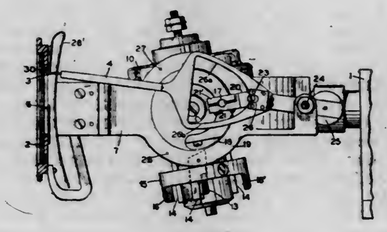
2,326,834
PLASTIC TRAVELER
William M. Camp, Glen Ridge, N. J., assignor to The Clark Thread Company, Newark, N. J., a corporation of New Jersey
Application March 31, 1942, Serial No. 437,044
3 Claims. (Cl. 57—125)



1. A traveler the wearing surface of which comprises an acrylic polymer.

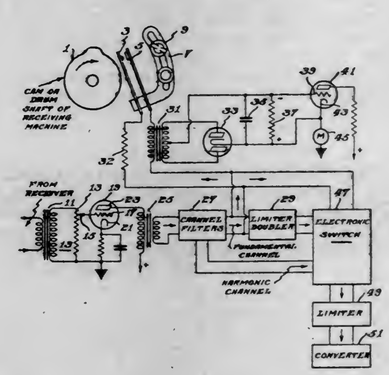
2,326,835
ARTIFICIAL HORIZON
Leslie F. Carter, Leonia, N. J., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a corporation of New York
Application January 9, 1941, Serial No. 373,765
3 Claims. (Cl. 33—204)

1. In an artificial horizon for aircraft, a rotor and a rotor bearing member, a gimbal ring having a transverse axis upon which said rotor bearing member is pivotally mounted, an outer casing having a fore and aft axis upon which the gimbal ring is pivoted, a neutrality balanced horizon bar member pivoted about a transverse axis on the rear portion of the gimbal ring and having an indicating portion spaced remotely from said pivot, and an actuating pin for said bar member spaced radially from the lateral axis of the rotor bearing member and extending in a direction parallel to said axis, said bar member having a short open end slot adapted to engage the said



pin during initial movement of the horizon bar member, said slot merging into a pair of arcuate surfaces having their center of curvature, respectively, substantially coincident with the transverse axis of the rotor bearing member when engaged by said actuating pin and positioned so as to engage with the moving pin when the rotor bearing member has tilted beyond the predetermined indicating range.

2,326,836
PICTURE RECEIVING SYSTEM
Gilbert R. Clark, Staten Island, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application January 17, 1941, Serial No. 374,826
12 Claims. (Cl. 178—7.3)



1. A picture receiving system having means for applying to said system at least two trains of composite signals, each representative of the same optical image and each train including picture signals and synchronizing pulses, means for selecting one of said trains of composite signals, and means responsive only during said synchronizing pulses for controlling said selection to another of said trains when said selected train fades below a predetermined value.

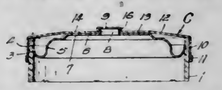
2,326,837
CLEANING COMPOSITION AND METHOD FOR ITS USE
Timothy J. Coleman, Buffalo, N. Y., assignor to National Carbon Company, Inc., a corporation of New York
No Drawing. Application January 13, 1940, Serial No. 313,727
10 Claims. (Cl. 252—142)

1. An acidic cleaning composition that is stable in solid form, and adapted in aqueous solution to remove scale, oxide impurities, grease and oil from ferrous and non-ferrous metal surfaces, while inhibiting acid attack upon surfaces of aluminum, brass, copper, tin and lead, which composition comprises a solid alkali metal salt of an inorganic acid adapted in aqueous solution to hydrolyze and yield a free acid; a solid water-soluble salt of a compound selected from the group consisting of the sulfonation products of alkylated phenols and cresols having between nine and sixteen carbon atoms in the alkyl group, the sulfonation products of alkylated benzene having between nine and sixteen carbon atoms in the alkyl group, and the sulfonation and sulfation products of monohydric aliphatic alcohols having between eight and seventeen carbon atoms in the molecule; and a small amount of a solid water-soluble phosphate corrosion inhibitor.

2,326,838
DEEP-HARDENING SILICON STEEL
Walter Crafts, Niagara Falls, N. Y., assignor to Electro Metallurgical Company, a corporation of West Virginia
No Drawing. Application March 2, 1940, Serial No. 321,915
5 Claims. (Cl. 148—31)

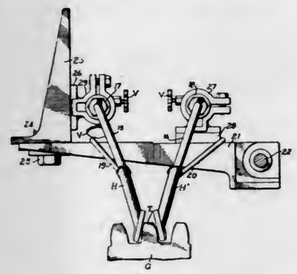
1. A quench-hardened article composed of a deep-hardenable steel comprising 0.1% to 1% silicon; between 0.2% and 1% carbon; manganese in a percentage up to about 2%; vanadium in a percentage between 0.03% and 1%; and between 0.03% and 0.25% of each of the grain refining elements aluminum, zirconium, and titanium; the aggregate percentage of silicon and said grain refining elements being at least 0.65%; remainder iron, such steel having the property of being quench-hardenable to upwards of 50 Rockwell C to a depth at least 0.3 inch below the surface throughout a one inch diameter circular section.

2,326,839
CYLINDRICAL POWDER CONTAINER
Arthur E. Cullen, Clayton, Mo., assignor to R. C. Can Company, St. Louis, Mo., a corporation of Missouri
Application December 21, 1940, Serial No. 371,173
3 Claims. (Cl. 221—64)



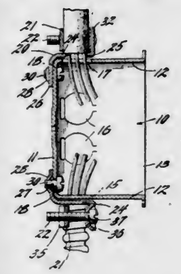
1. A top end closure head for a paper container body comprising an inner closure head member having dispensing openings and an inverted inclined skirt flange, an outer closure head member of greater diameter than the inner closure head member having dispensing openings therethrough, said inner closure head member having an integrally formed centrally located tubular neck provided with a closed outer end projecting through the central opening in the outer closure head member, the wall of said tubular neck being deformed to reduce the height of the tubular neck after passing the central opening in the outer closure head member to provide a head to prevent separation of the two closure head members and to allow rotation of the outer closure head member relative to the inner closure head member when positioned on the end of the container body.

2,326,840
HEAT-TREATING METHOD
Roger O. Day, Westfield, N. J., assignor to The Linde Air Products Company, a corporation of Ohio
Original application October 16, 1937, Serial No. 169,373. Divided and this application July 30, 1940, Serial No. 348,331
5 Claims. (Cl. 148—21.5)



3. A method of heat treating a portion of a metal body, which comprises directing a group of heating flames against a surface portion of said body, said heating flames having substantially equal individual heating effects and the centers of adjoining heating flames being spaced at increasing distances apart from one end of said group to the other; and effecting a relative movement between said surface and said heating flames.

2,326,841
OUTLET BOX CLAMP
Victor R. Despard, Syracuse, N. Y., assignor to Pass & Seymour, Inc., Syracuse, N. Y., a corporation of New York
Application April 3, 1941, Serial No. 386,723
6 Claims. (Cl. 285—25)



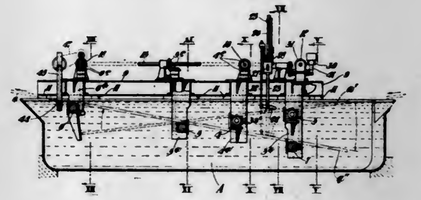
1. A cable clamp fitting for an outlet box having a knock-out in a wall thereof near the bottom, comprising a bracket having an intermediate member adapted to overlie the outside of said wall surrounding the knock-out, said member having a conductor opening therein for alignment with the opening provided by removal of the knock-out and of such size that its periphery may act as a cable sheath stop, a second

member edge-attached to the first and adapted to overlie the bottom of the box and be secured thereto, a third member extending from the opposite edge of the first and substantially at right angles to the plane thereof, a clamp element adapted for cooperation with said third member to engage the sheath of a cable whose conductors enter said openings, and a combined fastening and adjusting means connecting said element to and supporting the same from the third members.

2,326,842
TREATMENT OF ARTIFICIAL MATERIALS
Henry Dreyfus, London, England, assignor to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application March 6, 1942, Serial No. 433,575. In Great Britain February 22, 1939
11 Claims. (Cl. 8—132)

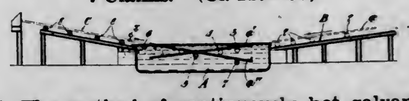
3. Process for increasing the extensibility of artificial filaments, threads, yarns and like materials containing organic derivatives of cellulose, which have been stretched to increase their tenacity, which comprises subjecting the materials, before they are subjected to a fabric-forming operation and in the absence of tension sufficient to stretch them, to treatment with an aqueous emulsion having in disperse phase a water-insoluble organic swelling agent and substantially removing said agent from the materials before they are subjected to the action of any hot aqueous medium.

2,326,843
APPARATUS FOR THE CONTINUOUS GALVANIZING OF PIPE AND THE LIKE
Paul C. Ely, Lorain, Ohio, assignor to National Tube Company, a corporation of New Jersey
Original application April 7, 1941, Serial No. 387,332. Divided and this application March 17, 1942, Serial No. 435,100
11 Claims. (Cl. 91—12.7)



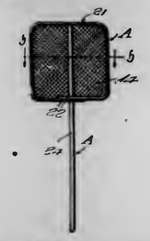
1. In apparatus of the character described, conveyor means for conveying pipe and the like in relation to a coating tank, including a series of threaded conveyor rolls disposed transversely of the direction of longitudinal advance of the pipes, said rolls being disposed in a plane inclined downwardly toward said tank, a second series of threaded conveyor rolls disposed transversely of the longitudinal advance of the pipes and in a plane inclined upwardly away from the tank, means for driving all of said rolls at constant speed, the threads of said rolls being aligned to receive and support the pipes in parallel relation and impart simultaneous forward and lateral movement thereto, said second series of rolls extending laterally at one side and beyond the first series of rolls, and means operable as the pipes move laterally beyond the first series of rolls for reversing the inclination of the pipes and engaging the same upon the second series of rolls.

2,326,844
METHOD OF CONTINUOUSLY GALVANIZING PIPE AND THE LIKE
Paul C. Ely, McKeesport, Pa., assignor to National Tube Company, a corporation of New Jersey
Application April 7, 1941, Serial No. 387,332
7 Claims. (Cl. 117—97)



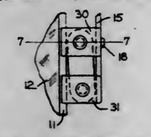
1. The method of continuously hot galvanizing pipes and the like which consists in continuously advancing a plurality of pipes in longitudinally stepped and laterally spaced relation into and through a gavanizing bath characterized by the constant conjoint longitudinal and lateral movement of said pipes, including immersing the advancing pipes endwise at a downward inclination with respect to the surface of the bath, reversing the inclination of the pipes in the bath, and removing said advancing pipes endwise through the surface of the bath, whereby the entire length of each pipe is immersed in the bath the same length of time.

2,326,845
INSECT CATCHER
Harry R. Etzler, Mount Clemens, Mich.
Application February 10, 1942, Serial No. 430,291
5 Claims. (Cl. 43—136)



1. An insect catcher comprising a relatively stiff substantially flat body portion formed of interwoven mesh fibrous material, insect entangling substance on opposite sides of said body portion, a guard formed of relatively flexible substantially non-porous material secured to and surrounding the body portion and extending in opposite directions from the surface thereof to protect the insect entangling substance on opposite sides of the body portion, the relatively flexible guard being stiffened and held distended by engagement with the body portion, and a handle secured to the insect catcher to facilitate manipulation thereof.

2,326,846
OPHTHALMIC MOUNTING
Drury H. Fair, Evanston, Ill., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York
Application March 12, 1941, Serial No. 382,964
3 Claims. (Cl. 88—43)



1. An ophthalmic mounting comprising a pair

of spaced rim portions attached to lenses, a bridge positioned between said rim portions and having spaced vertical sides, a pair of spaced lugs secured to each bridge side, a pair of spaced lugs secured to the nasal side of each rim portion, a link pivotally connecting the respectively adjacent pairs of lugs whereby the lenses may be selectively adjusted with respect to said bridge, the spaced lugs secured to the rim portions being constructed to receive the sides of the bridge, and a resilient member connecting the upper parts of the rim portions.

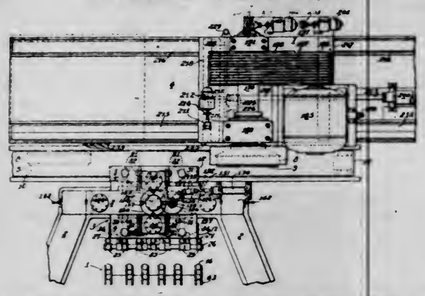
2,326,847

SURFACE MATERIAL WORKING

Fred H. Fanning, Pittsburgh, Pa., assignor to Blaw-Knox Company, Pittsburgh, Pa., a corporation of New Jersey

Application September 2, 1939, Serial No. 293,269

20 Claims. (Cl. 90—59)



1. In an apparatus of the character described a work holder supported for rotation about a vertical axis, a work supporting unit incorporated in said holder, means for rotating said holder on its axis to move said supporting unit from a work loading station to a work performing station, means for positively locking said holder at its two said stations, said locking means incorporating interengaging cooperating portions of said holder and a supporting frame therefor, and means for raising and lowering said holder to effectuate interengagement and locking thereof.

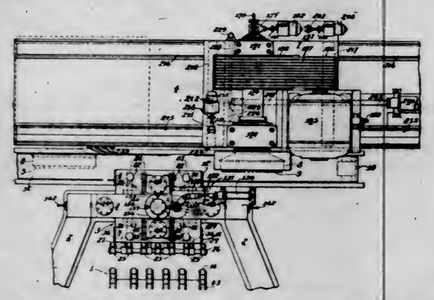
2,326,848

SURFACE WORKING METHOD

Fred H. Fanning, Pittsburgh, Pa., assignor to Blaw-Knox Company, Pittsburgh, Pa., a corporation of New Jersey

Original application September 2, 1939, Serial No. 293,269. Divided and this application July 2, 1940, Serial No. 343,604

1 Claim. (Cl. 90—11)



A method of scalping sheet ingots and slabs wherein one work piece may be scalped while one or more other work pieces may be unloaded, inverted, and loaded, comprising aligning and securing a work piece to present a face thereof substantially in a predetermined plane and to present an opposite face thereof in a plane spaced from and parallel with the plane of a working tool, rotating the work piece about an external axis to bring the first mentioned face thereof into substantial coincidence with the working plane of the working tool, effecting relative movement between the working tool and the first mentioned face of the work piece while simultaneously aligning and securing another work piece in manner similar to the first, rotating both work pieces about the same axis to bring the second into working position and to return the first to the aligning and securing position, effecting relative movement between the working tool and the second work piece while simultaneously removing and replacing in reverse position the first work piece and aligning and securing the same, rotating both work pieces about the same axis to bring the first again into working position but with its unworked face presented for working and to return the second for the first time to the aligning and securing position, effecting relative movement between the working tool and the first work piece, and continuing the process with successive work pieces.

2,326,849

PAPER SIZING MATERIAL

George B. Fowler and Donald K. Pattilloch, Springfield, Mass.; said Pattilloch assignor to Chemical Development, Inc., Chicago, Ill., a corporation of Illinois

No Drawing. Application September 27, 1941, Serial No. 412,691

9 Claims. (Cl. 106—80)

1. A precipitable sizing material comprising a mixture of substantial quantities each of starch, rosin and an alkali silicate from the group consisting of metasilicate and sesquisilicate.

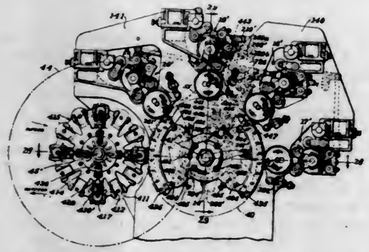
2,326,850

PRINTING MACHINE

Wiltie I. Gladfelter and Carl C. H. Hauger, Philadelphia, Pa., assignors to Crown Cork & Seal Company, Inc., Baltimore, Md., a corporation of New York

Application June 26, 1940, Serial No. 342,568

15 Claims. (Cl. 101—40)



1. A machine for printing the surfaces of cylindrical articles comprising a revoluble turret, a plurality of rotatable article-supporting chucks mounted on the turret for rotation about their own axes and for radial movement relative to the axis of revolution of the turret, resilient means for urging the chucks radially outwardly, a second rotatable turret, a transfer blanket arranged peripherally thereon, means for continuously revolving both of said turrets to bring the articles supported by the chucks into rolling contact with said blanket for printing, while the chucks and the articles move radially relative to the axis of their supporting turret, and means for limiting the pressure of the articles against the blanket under the influence of said resilient means.

12. An apparatus for printing a continuous coating in a plurality of layers upon the surfaces of cylindrical articles, comprising a transfer drum having a cylindrical transfer surface, a turret, radially movable article holding chucks rotatably mounted on the turret for revolution therewith along a path intersecting the drum surface, means for continuously rotating the drum and the turret at such relative speeds as to cause the surfaces of the articles to contact the transfer surface and make a plurality of rotations in rolling contact therewith, and an inking assembly having a plate roll in contact with the transfer surface, whereby ink applied thereto is transferred to the surfaces of the articles in a plurality of layers.

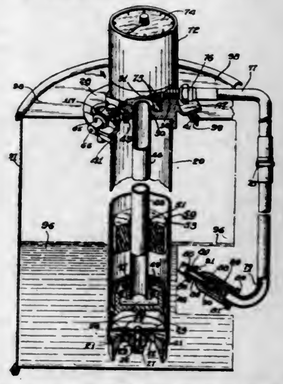
2,326,851

DISPENSING DEVICE

Russell J. Gray, Meadville, Minn.

Application January 21, 1941, Serial No. 375,134

10 Claims. (Cl. 221—74)



1. A dispensing device for lubricant or the like including a storage chamber; means for drawing lubricant into said chamber comprising a Venturi suction pump connected to said chamber and a lubricant-intake valve; means for automatically cutting off the suction pump from said chamber after a desired amount of lubricant has been drawn into said chamber; means for ejecting said lubricant comprising means for introducing air under pressure into said chamber and a delivery conduit for said lubricant leading from said chamber; and a meter for measuring the flow of lubricant through said delivery conduit.

2,326,852

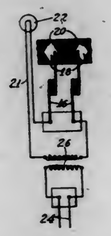
THREAD SUPPLY DEVICE FOR SHOE SEWING MACHINES

Otto R. Haas, North Beverly, Mass., assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J., a corporation of New Jersey

Application July 25, 1939, Serial No. 286,361

6 Claims. (Cl. 177—311)

1. A thread supply device having, in combination, a reel for rotatably supporting a mass of thread wound in diagonal layers, the successive turns in which alternately cross each other to form a diamond-shaped opening when the last layer of thread is reached, and means located in alignment with the position at which said opening



occurs and actuated to enter the opening and cause a warning indication to be given a substantial length of time in advance of the approaching end of thread contained on the reel.

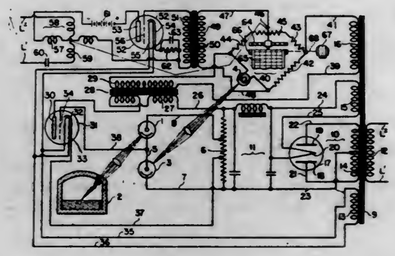
2,326,853

MEASURING AND CONTROL APPARATUS

Thomas R. Harrison, Wyncote, Pa., assignor to The Brown Instrument Company, Philadelphia, Pa., a corporation of Pennsylvania

Original application September 4, 1937, Serial No. 162,474. Divided and this application December 19, 1940, Serial No. 370,815

27 Claims. (Cl. 88—23)



1. An electrical control circuit comprising an adjustable circuit, means responsive to a change in a condition for unbalancing said circuit in one of two senses, saturable core means provided with an impedance winding and a saturating winding, means for deriving from said circuit in response to said unbalance condition electrical energy variable in characteristic dependent upon the sense of the unbalance, means for variably affecting the saturating winding from said derived energy for rendering said saturable core means responsive in accordance with the characteristic of the energy, means separate from said unbalancing means for adjusting said adjustable circuit irrespective of the value of the condition, and means coupling said impedance winding to said adjusting means for restoring said circuit to balance.

2,326,854

METHOD AND MEANS FOR SAWING WOOD

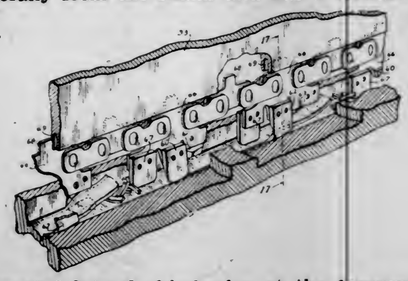
John E. Hassler, Portland, Oreg.

Application April 1, 1940, Serial No. 327,199

18 Claims. (Cl. 143—135)

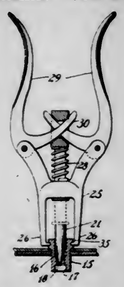
13. A saw having an L-shaped kerf-bottom-

defining tooth wherein the toe of the L projects laterally from the shank and has a forwardly-



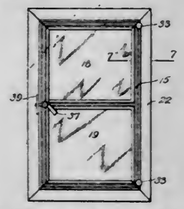
presented lateral chisel edge at the lowermost part of the tooth.

2,326,855
RIVET
Charles E. Hathorn, Kenmore, N. Y., assignor to Curtiss-Wright Corporation, a corporation of Delaware
Application November 12, 1941, Serial No. 418,670
5 Claims. (Cl. 85—40)



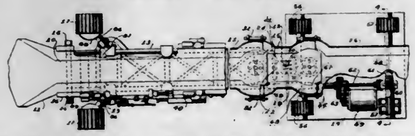
1. A unitary blind rivet comprising a head having recess means for engagement by a driving tool, a shank extending from said head for engagement with sheets to be riveted, said rivet being hollow and having an inward integral annular protrusion in the rivet hollow, and a core fitted to the rivet hollow, protruding from the rivet head, adapted to be pressed into the rivet by said driving tool, to bulge said protrusion outwardly on the rivet shank.

2,326,856
CASEMENT WINDOW
Donald Heaney, Essex Junction, Vt.
Application July 15, 1941, Serial No. 402,467
4 Claims. (Cl. 189—69)



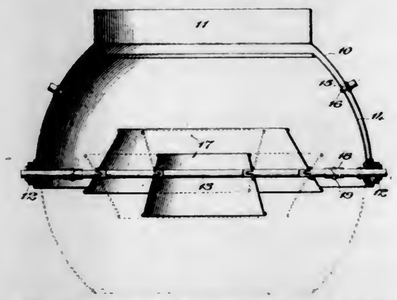
1. A hinged closure of the character described, comprising a frame having a jamb, a sash having side and end members closing against the jamb, and resilient means pivotally connecting the end portions of one of said side members to the frame, the sash members and jamb having meeting surfaces and the surfaces of each of the sash members being curved transversely of the plane of said meeting surfaces, the hinged side and the ends of the sash having their inner surfaces curved inwardly at their centers with respect to the jamb, and the free side of the sash having its inner surface curved outwardly at its center, so that when the sash is moved toward closing position the centers of its hinged side and its ends initially engage the jamb and the ends of its free side subsequently engage the jamb, and cooperative latching devices on the frame and on the central portion of said free sash side for forcing said central portion inwardly and securing it snugly against the jamb.

2,326,857
SELF-LOADING DEVICE FOR SHAKER CONVEYERS
John H. Holstein, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application December 8, 1941, Serial No. 422,059
13 Claims. (Cl. 198—14)



1. In a self-loading device for shaker conveyers, a reciprocating trough section, an extensible trough section having a gathering shovel on the forward end thereof, mounted for extensible movement with respect to said reciprocating trough section, and a power driven traction device supporting the forward end of said reciprocating trough section above the ground and adapted to move said reciprocating and extensible trough sections in a lateral or a longitudinal direction, said traction devices being adjustably movable about a vertical axis and being driven by power when in various positions of adjustment about said vertical axes.

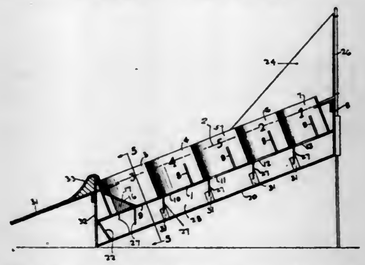
2,326,858
AIR OUTLET DEVICE
Friedrich Honerkamp and Franz J. Kurth, New York, N. Y., assignors to Anemostat Corporation of America, a corporation of Delaware
Application July 9, 1941, Serial No. 401,662
16 Claims. (Cl. 98—40)



1. An air outlet device comprising a plurality of successively smaller open-ended hollow flaring members spaced apart successively inwardly of one another to provide a plurality of air passageways therebetween, an air supply duct, pivot means rotatably mounting said members in air

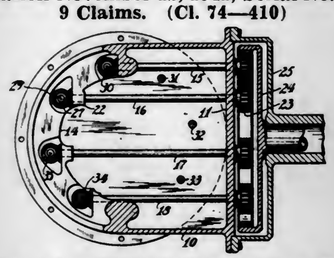
receiving relationship to said duct for reversal to dispose either the smaller or the larger ends of said members rearwardly for delivery of air from said duct into either the smaller or the larger ends of said members are disposed forwardly and from said device in diffused form when the larger ends of said passageways, whereby air is delivered in blast form when the smaller ends of said members are disposed forwardly, and means cooperating with said device and said duct to cause supplied air to flow through said passageways in either position of said device.

2,326,859
INDOOR GAME
Harter S. Hoover, Rocky River, Ohio
Application May 21, 1942, Serial No. 443,985
1 Claim. (Cl. 273—95)



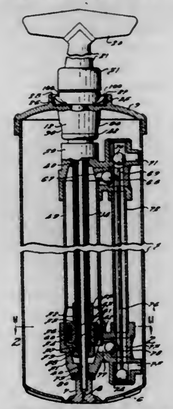
In a ball game apparatus comprising in combination a plurality of rings of substantial height arranged in longitudinal tangential succession on an inclined board surrounded by walls lower than ring height, holding elements for said rings comprising boards at said front and rear walls, each notched and thereby engaging upper portions of the front and rear rings, respectively, of the series, a supplemental holder for the front ring comprising a lunette of less area than is defined by the ring and over which the ring rotatably fits, said lunette being attached to the inclined board, and having an upper surface inclined oppositely to the board, and a ball escape opening through the board where the lunette surface joins the board surface.

2,326,860
ANGLE DRIVE TRANSMISSION
David U. Hunter, Cranford, and Vincent T. Moore, Glen Rock, N. J., and Joseph Modrovsky, New York, N. Y., assignors to Wright Aeronautical Corporation, a corporation of New York
Application November 12, 1941, Serial No. 418,652
9 Claims. (Cl. 74—410)



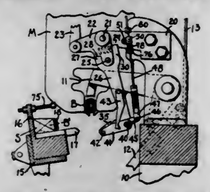
1. In a gear transmission, input and output shafts disposed at a right angle to one another, a first plurality of layshafts spaced around, parallel to and driven by the input shaft, the layshaft most remote from the output shaft being short and said layshafts as they near the output shaft being proportionally longer, bevel pinions on the ends of said layshafts, a second plurality of layshafts spaced around, parallel to and in driving relation with the output shaft, and bevel gears on the layshafts of the second plurality respectively meshed with the layshafts of the first plurality.

2,326,861
FIRE EXTINGUISHER CONSTRUCTION
Charles K. Huthsing, Grosse Pointe, Mich.
Application August 3, 1940, Serial No. 350,681
8 Claims. (Cl. 299—98)



1. In a fire extinguisher, a reservoir for fluid, a piston rod extending into said reservoir, a handle rigid with respect to said rod, an annular sealing member rigidly secured to said rod, a complementary annular sealing face on said reservoir, an axially slidable, non-rotatable sleeve on said rod, a compression spring bearing between said annular sealing member and said sleeve and coacting interengaging portions on said reservoir and sleeve for compressing said spring to yieldingly urge said annular sealing member against said sealing face.

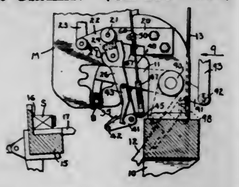
2,326,862
THREAD CUTTER AND CLAMP FOR LOOMS
George A. Irons, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation Massachusetts
Application July 29, 1942, Serial No. 452,734
3 Claims. (Cl. 139—264)



1. In thread control mechanism for a weft replenishing loom having a lay and operating with a shaft controlled by a spring lock and movable from normal to transfer position against the action of the lock preparatory to a replenishing operation of the loom and thereafter returning to normal position, a pivoted carrier connected to the shaft to move therewith from normal to transfer position and back to normal position, a thread cutter and clamp unit on the carrier in-

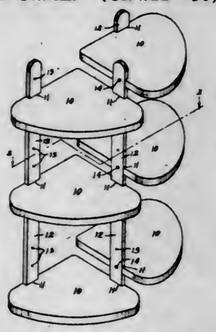
cluding a blade pivoted to the carrier between a second cutter and a clamp on the carrier, an actuator on the lay to engage the carrier between the cutter and clamp unit and the carrier axis when the carrier is in transfer position to move said carrier toward normal position, and operating mechanism connected to the pivoted blade to move the latter to closed position during the first part of the movement of the carrier caused by engagement thereof by the lay actuator.

2,326,863
THREAD CUTTER FOR LOOMS
Victor H. Jennings, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts
Application July 29, 1942, Serial No. 452,738
10 Claims. (Cl. 139—264)



1. In thread control mechanism for a loom having a temple cutter adjacent to the cloth fell and selvage to cut a thread extending from the selvage into a shuttle box, a combined thread cutter and clamp unit, means to move the combined cutter and clamp unit rearwardly on an opening stroke toward said thread and then forwardly on a closing stroke along a path between the temple cutter and the shuttle box, and operating mechanism for the combined cutter and clamp unit including an operating rod connected to the unit and a yielding lock for the rod and operative during an opening period which is completed in the first half of the rearward opening stroke to release a previously clamped thread and thereafter cause the combined cutter and clamp unit to close during a closing period which is completed in the first half of the subsequent forward closing stroke to cut and clamp the thread extending into the shuttle box, said means causing the cutter and clamp unit during the latter part of the closing stroke thereof to move the thread into the range of action of the temple cutter.

2,326,864
ADJUSTABLE SHELF UNIT
Minnetta Keeshen, Denver, Colo.
Application July 26, 1941, Serial No. 404,129
1 Claim. (Cl. 211—90)

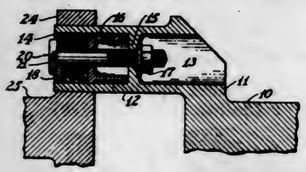


An adjustable shelf unit comprising a plurality of identical shelf members formed with perpendicularly-related, straight, side margins each intersected at its midportion by an outwardly-opening notch, a pair of risers formed with spaced holes along their longitudinal, median lines fitted closely within and substantially filling corresponding notches of said shelf members to position the latter in superposed, spaced, parallel relation, means engaging through certain of said holes to removably connect each riser with each associated shelf member, additional, identical shelf members removably engaging with one of said risers by other means in other of said holes and thereby disposed in laterally-offset, parallel relation with said first shelf members, and a third riser engaged within the notches of the otherwise free margins of said additional shelf members and removably connected therewith.

2,326,865
ELECTRIC WELDING
Harry E. Kennedy, Berkeley, Calif., assignor to The Linde Air Products Company, a corporation of Ohio
No Drawing. Application September 26, 1941, Serial No. 412,436
4 Claims. (Cl. 219—10)

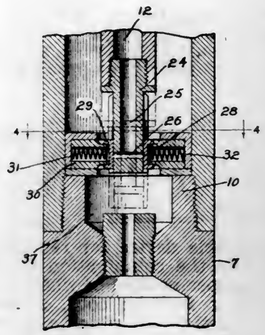
1. In an electric welding process in which metal from a bare electrode is melted, deposited on, and coalesced with the metal of a workpiece under a blanket of an unmelted, comminuted, mineral-like welding composition by passing an electric current through said electrode, workpiece, and a molten subsurface pool of said welding composition, in which pool an end of said electrode is buried, said composition being a non-conductor of electricity in the solid state but a conductor when molten, the improved method of starting a weld which comprises inserting between the electrode end and the workpiece an unfused but electrically conductive mixture of comminuted metal and comminuted non-conductive mineral-like welding composition.

2,326,866
CLAMP JOINT
Frank M. Kincaid, Jr., Mountain Lakes, N. J., assignor to Wright Aeronautical Corporation, a corporation of New York
Application January 31, 1941, Serial No. 376,742
6 Claims. (Cl. 287—124)



1. In a clamp joint between a member having a bore and a hollow shaft fitted to the bore for free assembly with the member, a plurality of dished chamfered edge annular washers disposed in the hollow shaft, a reaction means within the shaft engaging the outer edge of one of the end washers of the plurality on its concave face to properly position the washers within said shaft, and a member passing through the holes of the washers engaging said reaction means and engaging the hole edge of the other end washer of a plurality on its convex face, said member being axially movable toward said reaction means to flatten said washers.

2,326,867
VALVE STRUCTURE FOR COMBINED FORMATION TESTING TOOLS AND PRESSURE RECORDERS
Howard D. Kinney, El Dorado, Ark., assignor to Sterling P. Bedingfield, Bossier City, La.
Application January 29, 1940, Serial No. 316,262
7 Claims. (Cl. 251—78)



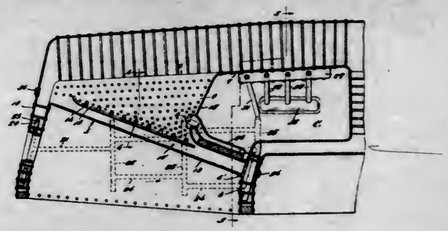
1. A valve structure for well testing tools comprising a casing, a hollow stem slidably mounted within the casing, a sleeve valve member secured to the sliding stem and provided with spaced longitudinal guide ribs and a transverse port disposed between the guide ribs, spring actuated closure members engaging the sleeve valve member between the guide ribs, and a spring surrounding the stem for moving the sleeve valve member to closed position.

2,326,868
METHOD FOR DEHUSKING CAROB BEANS
Louis Amédée Lantz and Wadim Roman, Manchester, England, assignors to The Calico Printers' Association Limited, Manchester, England, a British company
No Drawing. Application February 20, 1942, Serial No. 431,770. In Great Britain February 27, 1941
7 Claims. (Cl. 83—28)

1. A method of dehusking carob beans which comprises treating 10 parts by weight of beans with at least 8 parts by weight of sulphuric acid of 95% concentration, stirring the mass for 40–50 minutes, cooling it to maintain its temperature at about 50° C., allowing the mass which has thickened to stand for two hours or more, removing the carbonised husks by washing with a volume of water about equal to the volume of acid added and stirring, draining off the diluted acid, fully rinse with cold water and dry in warm air.

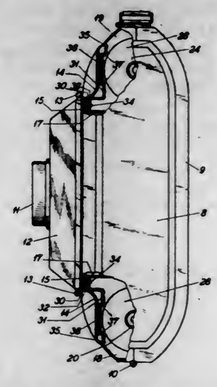
2,326,869
COMBINED SIPHON AND CIRCULATOR FOR STEAM BOILERS
Frank Le Blanc, St. Albans, Vt.
Application August 13, 1941, Serial No. 406,717
4 Claims. (Cl. 122—68)

1. A combined siphon and water circulation system for steam boilers of a type including a crown sheet, a throat sheet, a door sheet and side sheets, said system comprising a siphon device having communication with the throat sheet and crown sheet of the boiler and a circulation device positioned within the side sheets and connected to the siphon device, said siphon and circulation devices being adapted to receive and convey fluid



from the throat sheet, the door sheet and the side sheets to the crown sheet.

2,326,870
ROLL HOLDING CAMERA CONSTRUCTION
Lew W. Lessler, Johnson City, N. Y., assignor, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
Application April 29, 1939, Serial No. 270,841
3 Claims. (Cl. 95—31)

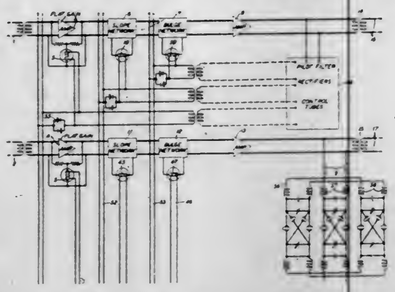


1. A roll holding camera comprising a body, a lens, an exposure chamber joined to the front of said body and extending inwardly from said front, film spool chambers in said body at opposite sides of said exposure chamber, said exposure chamber having a flange projecting into one of said spool chambers along the lens side of the camera, and a lining member extending substantially across said spool chamber in both directions along the lens side of the camera, said lining member being inwardly and overlappingly attached to said exposure chamber flange whereby light leakage into said spool chamber is prevented.

2,326,871
GAIN CONTROL
Charles O. Mallinckrodt, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application January 28, 1942, Serial No. 428,475
5 Claims. (Cl. 178—44)

4. A regulating circuit, a pair of relatively long physically adjacent transmission channels for electric currents subjected to similar variations in impedance in consequence of variations in temperature, means directly connecting one of said channels to said regulating circuit to supply thereto currents varying in accordance with the

attenuation experienced in the channel and means connecting the other channel to said regulating circuit, said last-mentioned connecting means being normally ineffective but becoming



effective upon failure of the varying current of said one channel to cause similarly varying current to be supplied to the regulating circuit by the other channel.

2,326,872
APPARATUS FOR FORMING CAST-IN-PLACE CONCRETE PILES
William R. Marsden, Brooklyn, N. Y.
Application April 19, 1940, Serial No. 330,591
2 Claims. (Cl. 61—78)



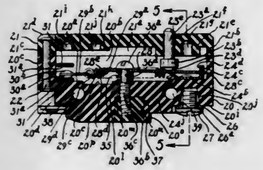
1. In an apparatus for forming cast-in-place concrete piles, a casing having a plurality of longitudinal sections connected in end to end relation to each other, each section being crimped circumferentially to reinforce the same and provide threads leading from its upper end, the lower portion of the section being of reduced diameter to provide a neck and a frustro conical downwardly tapered shoulder between the upper end of the neck and the body of the said section, said neck being crimped circumferentially to form threads adapting the neck to be detachably screwed into the upper end of an adjoining section, and a collar tapered toward its lower end in conformity to the taper of said shoulder and intermediate its depth being provided with an outstanding flange and defining a driving ring for the casing, said collar having its lower end of a diameter adapting it to engage threads of said neck whereby the collar may be threaded upwardly along the neck from the lower end thereof and shifted into position about the shoulder in close fitting wedging engagement therewith.

2,326,873
DEVICE FOR REMOVING CORN FROM EARS
John B. Meek, Cleveland, Ohio
Application September 15, 1942, Serial No. 458,434
4 Claims. (Cl. 146—4)



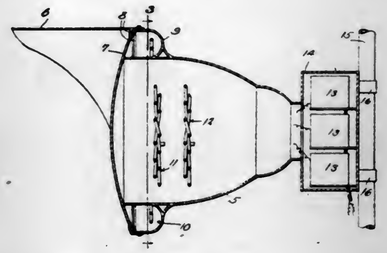
1. In a portable device for removing kernels from corn ears, the combination of an upright member, the upper portion of which is hollow to form a receiver for the cobs, a substantially annular scraper through which ears of corn are projected endwise into said receiver to remove the kernels therefrom, said scraper being mounted on the upper end of and in alinement with said receiver, an annular chamber mounted on said receiver and surrounding said scraper, an annular plate mounted on the side walls of said chamber to form a cover therefor, and a series of cutters mounted on the inner wall of said plate and extending inwardly therefrom into the path of the corn ears to cut the kernels on each ear as it moves to said scraper.

2,326,874
ELECTRIC SNAP SWITCH
George J. Meuer, Milwaukee, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application October 20, 1942, Serial No. 462,733
13 Claims. (Cl. 200—67)



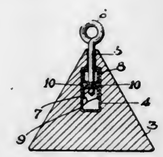
1. In an electric snap switch, in combination, an insulating base, a bracket secured thereto, a lever having an open pivotal connection with said bracket, a contactor having an open pivotal connection with said lever, tension spring means attached jointly to said bracket and to said contactor to maintain the aforementioned pivotal connections between said parts and to bias said contactor toward one extreme position or the other according to the position of said lever, a pair of stop members arranged above and below said contactor to limit the throw of the latter in each direction, a coiled compression spring interposed between said base and said lever to bias the latter away from the former, a screw having adjustable engagement with said base, the head of said screw overlying said lever to limit the degree of movement thereof under said spring bias, at least one of said stop members comprising a stationary contact, a wiring terminal element electrically connected with said contact, a wiring terminal element electrically connected with said bracket, said wiring terminal elements being exposed at the lower face of said base, and means comprising a movable member engageable with said lever to effect movement of the latter against said spring bias thereof.

2,326,875
TRAFFIC SIGNAL
Alfred McKinley Miles, Spartansburg, S. C.
Application October 22, 1940, Serial No. 362,264
1 Claim. (Cl. 177—327)



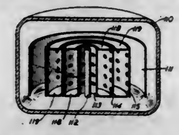
In a traffic light, a main lamp housing having an open end, a flange constructed of reflecting material secured to the housing exteriorly thereof, said flange extending outwardly and forwardly towards the open end of the housing, said flange being spaced from the housing providing an annular lamp compartment adjacent to the open end of the lamp housing, the outer end of the lamp housing extending beyond the outer end of the annular lamp compartment, independent fluorescent light tubes of distinctive colors, mounted within the annular lamp compartment and the main lamp housing, whereby each light tube will illuminate the lamp housing in which it is positioned, with its distinctive color, when the tubes are energized, creating a signal, a curved lens positioned over the outer end of the main lamp housing and contacting the outer edge thereof, and said lens being of a diameter to extend over the outer end of the annular lamp compartment, closing the annular lamp compartment.

2,326,876
RELEASABLE SINKER FOR USE WITH FISHING TACKLE
Fred J. Miller, San Francisco, Calif.
Application January 6, 1942, Serial No. 425,794
4 Claims. (Cl. 43—52)



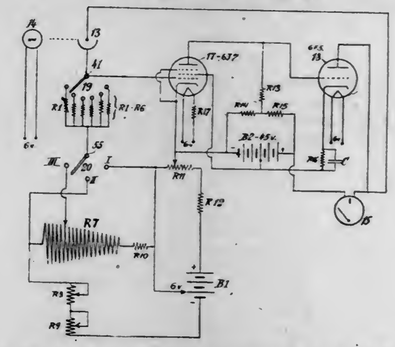
1. In a sinker, a weighted body, a casing imbedded in the body, a member removably extending into the casing, and resilient means in the casing for detachably engaging with and normally holding the member, the said means being adapted to release the member when a predetermined pull is exerted on the said member.

2,326,877
ELECTRON DISCHARGE APPARATUS
George E. Mueller, Red Bank, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 8, 1941, Serial No. 401,427
3 Claims. (Cl. 250—158)



1. Electron discharge apparatus comprising an electron receiving element, means for projecting an electron stream toward said element, and means intermediate said element and said first means for removing from the electron stream substantially all electrons having other than a desired velocity, said second means comprising a plurality of barrier electrodes mounted in spaced relation between said first means and said element and having misaligned apertures and electrostatic deflecting plate means in cooperative relation with said barrier electrodes for deflecting the electron stream approaching each barrier to an extent sufficient to allow only electrons having the desired velocity to pass through said apertures.

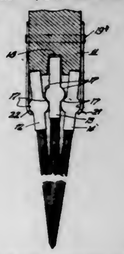
2,326,878
PHOTOELECTRIC PHOTOMETER
Ralph H. Müller, New York, N. Y., assignor to E. Leitz, Inc., a corporation of New York
Application June 17, 1941, Serial No. 398,461
9 Claims. (Cl. 88—14)



1. In a photoelectric photometer, a high vacuum photoelectric cell, means for directing a beam of light towards the same, means for interposing a colored translucent body for examination in said light beam, a plurality of movable color filters having different selected spectral ranges including that which is absorbed by said body, means for moving said filters to selectively interpose one of them having the same spectral range as said body in the light beam between said light directing means and said cell, an electric circuit for supplying potential to the cell, means in said circuit for amplifying the resulting photoelectric current, a plurality of resistances for varying said resulting photoelectric current in response to the spectral ranges of said color filters, connecting means operatively connecting said resistances and said color filter moving means to automatically include in said circuit a resistance corresponding to the color filter selected when the latter is positioned in

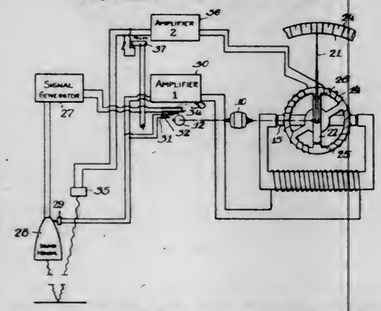
said light beam, a shaft for actuating said filter moving means, a casing enclosing all of the aforesaid elements, a knob on the outside of the casing attached to the shaft for operating the same, filter indicating marks on said casing and a mark on said knob adapted to register with any one of the marks aforesaid to indicate the filter interposed as aforesaid.

2,326,879
BRUSH
Sebastian P. Neuhausen, Lombard, Ill.
Application November 22, 1940, Serial No. 366,575
6 Claims. (Cl. 15—202)



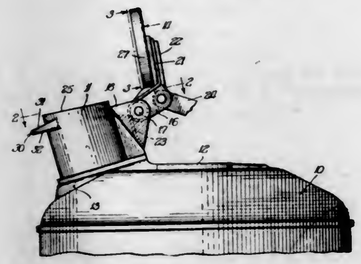
1. A brush comprising three elongated bristle units each having a ferrule at one end provided with elongated engageable members on the sides thereof, and a holder for receiving the units in side-by-side relation and provided with retaining means for engaging said members of two lateral units and having means for effecting the disposition of the intermediate unit in a position wherein the engageable members thereof are engaged by the said members on the adjacent sides of the lateral units.

2,326,880
DISTANCE MEASURING DEVICE
Ernst Norrman, Delavan, Wis.
Application December 23, 1940, Serial No. 371,454
9 Claims. (Cl. 177—386)



1. Apparatus of the character described for providing a continuous automatic indication of a distance measurable by the propagation and reception of waves, including: means for periodically initiating the propagation of a wave; a member rotatable in approximate synchronization with such periodical propagation; means responsive to the propagation of said wave for exactly synchronizing an instantaneous position of said member with such propagation; and means operatively associated with said member for giving an indication proportional to an instantaneous position of said member, said last mentioned means being responsive to the reception of said wave.

2,326,881
POURING LIP FOR FLUID CONTAINERS
Charles S. Packer, Chicago, Ill., assignor to Justrite Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application March 3, 1941, Serial No. 381,434
1 Claim. (Cl. 221—6)



In a container of the character described, in combination, a pouring spout of cylindrical shape, said spout having circular inner and outer walls and a flat top surface between said walls, a pivoted cover for the spout, resilient means yieldingly maintaining the cover in closed position on the spout in contact with the flat top surface thereof, a pouring lip for said spout comprising a projection extending laterally from the outer wall of the same and having location below the flat top surface thereof so as not to interfere with the cover when in closed position, and said pouring lip having an undersurface which forms with the outer wall of the spout an exterior angle of approximately 90 degrees, whereby said undersurface of the pouring lip slopes substantially vertically when the container is in pouring position.

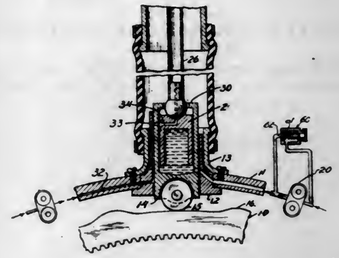
2,326,882
TREATING PETROLEUM OILS
William E. Perdew, Kechi Township, Sedgwick County, Kans., assignor, by mesne assignments, to Globe Oil and Refining Company, Wichita, Kans., a corporation of Kansas
No Drawing. Application April 5, 1940, Serial No. 328,097
22 Claims. (Cl. 252—330)

3. A method of desalting and demulsifying an oil which comprises mixing an aqueous solution with said oil, heating the resulting mixture, introducing the heated mixture under the surface of an unobstructed vertical column or water whereby the oil rises vertically in a substantially straight path to the surface thereof, said column of water being of sufficient height to effect a substantially complete washing of the oil passing therethrough, and collecting the resulting oil, said aqueous solution having an electrolyte dissolved therein selected from the group consisting of the acid reacting materials and the alkaline reacting materials.

2,326,883
VALVE TIMING DEVICE
Erold F. Pierce, Paterson, and Francis J. Weigand, Ridgewood, N. J., assignors to Wright Aeronautical Corporation, a corporation of New York
Application March 8, 1940, Serial No. 322,962
6 Claims. (Cl. 123—90)

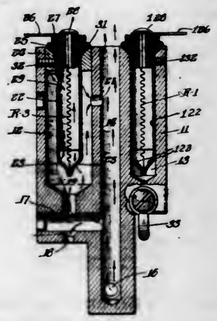
6. In an engine valve operating mechanism, a cam, a valve tappet assembly actuatable by said cam and extendible under hydraulic pressure to provide minimum clearance in said mechanism,

engine driven means operable to supply fluid under pressure to said assembly to provide said minimum clearance, and a leakage path operable to by-pass a portion of the fluid supplied by said engine drive means, said leakage path being in-



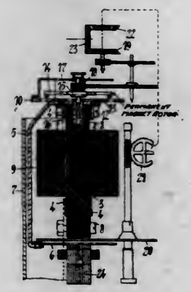
effective at high engine speeds but effective at low engine speeds to provide sufficient leakage of the fluid supplied by said engine driven means to render said fluid incapable of maintaining said minimum clearance upon cam actuation.

2,326,884
GAS ANALYZER
Clyde H. Phelps, Springfield, Ill., assignor to Weaver Manufacturing Company, Springfield, Ill., a corporation of Illinois
Application November 28, 1941, Serial No. 420,849
8 Claims. (Cl. 73—51)



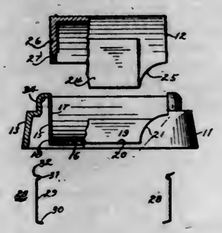
1. In an electrical single-resistance assembly for ready insertion in and removal from a chamber of a metallic-body of a gas-analyzer, said chamber having an open cylindrical mouth, the novel combination of a single round metallic-tube open at one end and closed at its opposite end and of a diameter substantially the same as that of said mouth, an electric-terminal at said closed end of, and insulated from, said tube, a single resistance-element of a length equal at least to the major length of said tube and disposed lengthwise in said tube and having one end only thereof in electrical-connection with said tube and having its other end in electrical-connection with said electric-terminal, said tube being adapted to be slid longitudinally through said mouth into place in said metallic-body chamber and in electrical-contact with said body at said mouth and to have its closed end fitting in and closing said otherwise open-mouth of said chamber.

2,326,885
INDUCTION TYPE ELECTRICITY INTEGRATING METER
John Prince and Maurice Whitehead, Hollinwood, England, assignors to Ferranti Electric Inc., New York, N. Y.
Application March 29, 1940, Serial No. 326,748
In Great Britain March 31, 1939
2 Claims. (Cl. 171—264)



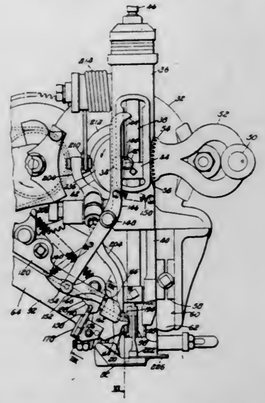
1. An induction electricity integrating meter including a shunt electromagnet core, a shunt coil thereon, two shunt magnet limbs separate from said core, an externally toothed stator member in magnetic connection with and symmetrically disposed in relation to said core, an internally toothed stator member concentrically disposed around said first-mentioned stator member and magnetically connected to said two limbs, a rotor, alternately polarised radial arms on said rotor and teeth on said arms co-acting magnetically with the teeth on said stator members.

2,326,886
CLOSURE
Merrill L. Rathbun, Salamanca, N. Y.
Application January 12, 1940, Serial No. 313,551
2 Claims. (Cl. 206—44)



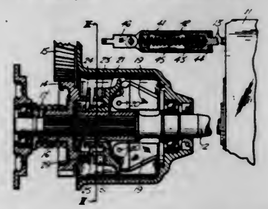
1. A receptacle comprising a body and cover, said body having aligned slots in opposite interior walls thereof, said cover including opposed walls projecting into and in part overlapping the interior walls of said body, seats in said body at corresponding ends of said slots, resilient members having pivot portions engageable with the opposed walls of said cover, means on said members adjacent said pivot portions engageable with said body, and flanges on said members engageable with said seats, said members being sprung out of normal shape to facilitate seating said flanges following engagement of said means with said body, whereby said members, in operative position, will lie wholly within said slots.

2,326,887
NAILING MACHINE
Alfred Edward Richards and Maurice Roberts, Leicester, England, assignors to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Original application June 13, 1941, Serial No. 397,934. Divided and this application January 26, 1942, Serial No. 428,234. In Great Britain July 26, 1940
11 Claims. (Cl. 1—18)



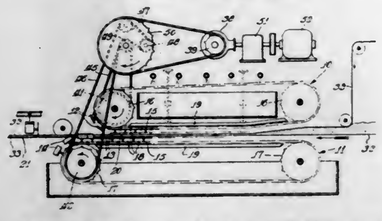
1. A nailing machine having, in combination, a driver, a driver passage, a raceway for conducting hobnails to a position adjacent to said driver passage, and a nail separator, said separator comprising a finger mounted for movement widthwise of the raceway and constructed and arranged to force the shank of the endmost nail in the raceway into the driver passage, said separator also comprising a member which is constructed and arranged to engage the head of said endmost nail and to move lengthwise of the raceway to force the head of the nail into the driver passage.

2,326,888
CONTROL OF FUEL INJECTION ENGINES
Arthur Freeman Sanders, Leeds, England, assignor of one-half to John Fowler & Co. (Leeds) Limited, Leeds, England
Application August 7, 1941, Serial No. 405,880
In Great Britain April 5, 1941
9 Claims. (Cl. 123—140)



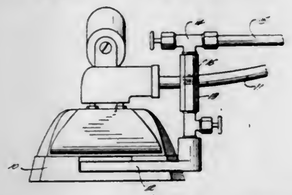
1. The combination with a variable-speed, fuel-injection engine, of a speed-responsive governor driven from the engine, the governor including an endwise-located spindle, a fuel pump driven by said spindle, an axially-movable part in the drive from the engine to said spindle, a driving part, said axially-movable part being positioned axially by the governor weights and having a screw-threaded engagement with said driving part whereby said spindle will be angularly advanced or retarded with respect to the engine dependently upon the position of the governor weights, and manual and automatic means also connected to said part so that the latter can be positioned axially thereby independently of the governor action.

2,326,889
APPARATUS FOR MAKING INSULATING MATERIAL
Kurt W. Schulz and Carl G. Schulz, Joliet, Ill.
Application July 15, 1942, Serial No. 450,998
3 Claims. (Cl. 25—42)



1. Apparatus for making insulating material comprising in combination upper and lower conveyors having flights travelling substantially parallel to each other, means for causing said flights to compress insulating material carried between the same, positive driving means for said conveyors, and a differential mechanism between the driving mechanism and each conveyor to equalize the load on each conveyor.

2,326,890
CHECK VALVE INJECTOR FOR STEAM GENERATING IRONS
Morris A. Schwartz, Los Angeles, Calif.
Application August 20, 1941, Serial No. 407,591
4 Claims. (Cl. 38—77)

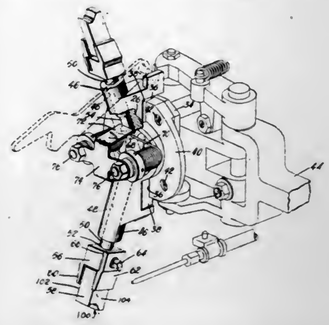


4. In combination with an iron having a steam generating chamber, means providing a passage through which water is fed to the chamber, a downwardly facing valve seat in said passage, an upwardly closing valve presenting a seating surface adapted to seat thereon, said valve having an open-topped recess formed thereon arranged outwardly of the seating surface thereon whereby on the valve closing to prevent reverse flow through the passage, water in the recess may be discharged therefrom and supplied to the chamber.

2,326,891
EDGE SETTING MACHINE
Edwin W. Smith, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Original application May 17, 1940, Serial No. 335,756. Divided and this application July 1, 1941, Serial No. 400,608
5 Claims. (Cl. 12—78)

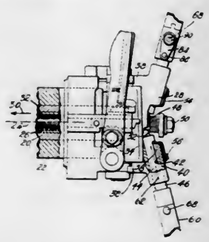
1. In a burnishing machine, a vibratory holder, a carrier having a portion which registers with

and through which the carrier is supported in the holder, a burnishing tool having an end face designed for engagement with the work and having also a pair of oppositely disposed side faces, said carrier having a shoulder which is rigid with relation to said registering portion of the carrier and is adapted to be engaged by one of said side faces of the burnishing tool, a plate



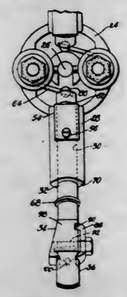
adapted to engage the opposite side face of the burnishing tool, and means for forcing the plate toward the shoulder on the tool carrier in order to clamp the tool to the carrier and thereby prevent relative movement between the tool and the carrier when they are vibrated with the tool holder.

2,326,892
EDGE SETTING MACHINE
William Hamann, Irondequoit, N. Y., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Original application May 17, 1940, Serial No. 335,725. Divided and this application June 28, 1941, Serial No. 400,179
9 Claims. (Cl. 12—78)



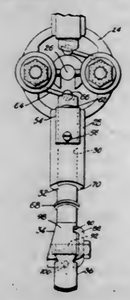
1. In a burnishing machine, a holder mounted for oscillation about an axis and having a cylindrical opening, a burnishing tool, a tool carrier comprising a spindle mounted for rotary and longitudinal movement in said opening, means for urging the spindle longitudinally in the opening to maintain the carrier at a predetermined distance from said axis, said urging means being yieldable to permit said carrier to move under pressure of the work toward said axis, resilient means for yieldably holding the carrier spindle in a neutral position of rotation in said opening, the spindle being rotatable in opposition to said resilient means in either direction from said neutral position under pressure of the work and the resilient means being operable to return the spindle to said neutral position upon release of said pressure, and means for positively clamping the tool to the carrier.

2,326,893
EDGE SETTING MACHINE
Eugene J. Ray, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application April 16, 1941, Serial No. 388,851
4 Claims. (Cl. 12—78)



1. An edge setting machine comprising a carrier mounted for bodily oscillation about an axis and also for turning movement about an axis which is disposed at a substantial angle to the first-named axis, said carrier having a guideway for receiving interchangeably any one of a plurality of edge setting tools having work-engaging faces of different width, said guideway extending transversely of the path of oscillation of the carrier and parallel to the direction in which the width of the tool is measured, a stop engageable with each of said tools to determine the position of the tool in the guideway, each of said tools irrespective of the width of its work-engaging face being constructed and arranged to have the central portion of its work-engaging face in approximate alinement with the second-named axis when the tool engages said stop, and means for securing the positioned tool in the guideway.

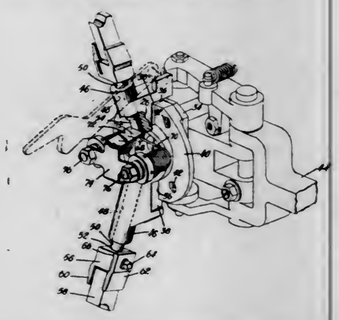
2,326,894
TOOLHOLDING MEANS FOR EDGE SETTING MACHINES
Eugene J. Ray, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Original application April 16, 1941, Serial No. 388,851. Divided and this application April 10, 1942, Serial No. 438,479
5 Claims. (Cl. 12—78)



1. In an edge setting machine, a tool having a dovetail portion terminating in a flat abutment face of substantial area and having undercut wedge faces, a tool carrier having a flat abutment portion and an undercut shoulder forming a V-shaped notch with an adjacent area of said abutment portion, and a clamp comprising a plate one end of which is pivoted in a recess
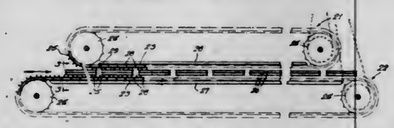
of the carrier and the other end of which is shaped and arranged to engage one of the undercut wedge faces of the tool, said clamp also comprising means for causing said other end of the plate in co-operation with said shoulder of the carrier to force by a wedging action the flat abutment face of the tool securely against the flat abutment portion of the carrier.

2,326,895
BURNISHING MACHINE
Edwin W. Smith, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Original application July 1, 1941, Serial No. 400,608. Divided and this application January 21, 1943, Serial No. 473,053
4 Claims. (Cl. 12—78)



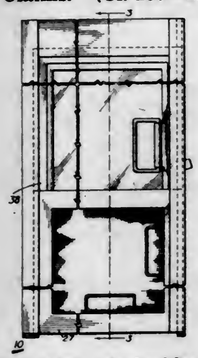
1. In a burnishing machine, an oscillating holder comprising a head having tool receiving recesses therein, tool carriers slidably and rotatably mounted in said recesses, and a resilient member located centrally of said holder head and arranged resiliently to resist rotation of the tool carriers in said recesses and to limit axial movement thereof in said recesses.

2,326,896
MANUFACTURE OF INSULATING MATERIAL
Roy E. Sprague and Howard M. Sprague, Joliet, Ill.
Application July 15, 1942, Serial No. 450,994
6 Claims. (Cl. 18—47.5)



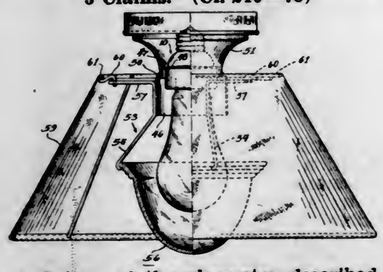
1. The method of making molded insulating material from an insulating aggregate bonded by a thermo-plastic binder which comprises applying a primary cooling medium to a layer of the material in heated condition while under compression, advancing the said layer through the primary cooling stage at a rate too fast to permit complete cooling but which allows sufficient time to cool only the surface layers of the material and cooling such layers substantially below the temperature necessary to set the binder, then cutting the layer into sections and superposing the sections, applying pressure thereto and advancing the sections at a slower rate while the interior of the material is cooled partly through the action of the sub-cooled surface layers.

2,326,897
METAL SASH STRUCTURE
Rolland M. Stowe, Corry, Pa., assignor to Corry Metal Corporation, Corry, Pa., a corporation of New York
Application April 18, 1941, Serial No. 389,120
6 Claims. (Cl. 160—128)



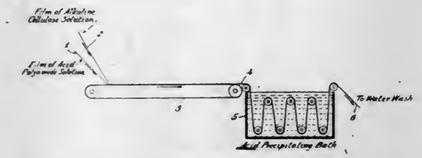
1. The combination of double channel guide members mounted on the vertical walls of a window casing and a downwardly opening channel at the top of said casing; with a pair of interchangeable metal framed panels, each of said panels being of a size to enclose a substantial portion of the window opening, the upper rail of the outermost of said panels being receivable within said downwardly opening channel to a variable extent, said panels in full window enclosing position having their meeting rails in overlapping relationship, the outermost of said panels being further movable into said downwardly opening channel to vertically separate the overlapping panel meeting rails to facilitate removal of the innermost of said panels in a direction to, in part, pass through the space occupied by the outermost of said panels prior to its being further moved into said downwardly opening channel.

2,326,898
ELECTRIC LIGHTING FIXTURE AND THE LIKE
Joseph Terr, Chicago, Ill.
Application December 16, 1940, Serial No. 370,287
3 Claims. (Cl. 240—78)



1. A fixture of the character described comprising a husk, means for suspending said husk, a plurality of arms depending from the lower edge of said husk and arranged to support a light diffusing member, a plurality of radially directed arms secured on said husk, each of said radial arms having a U shaped terminal portion, and a shade having an annular inverted channel associated with the top edge thereof, said shade being supported on said radially directed arms with the annular channel in engagement with the U shaped portions of said radial arms.

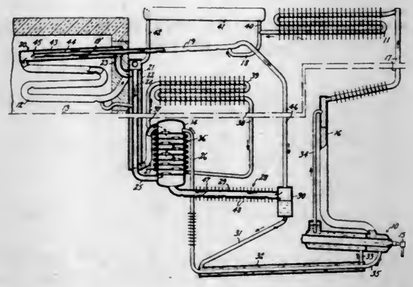
2,326,899
PROCESS FOR THE MANUFACTURE OF FOILS AND TUBES
Kurt Thinius, Eilenburg, Germany; vested in the Alien Property Custodian
Application August 24, 1940, Serial No. 354,118
In Germany August 7, 1939
6 Claims. (Cl. 99—176)



1. A process for the production of foils and tubes which comprises forming a film of an at least 6 normal mineral acid solution of a polyamide, depositing thereon a film of an alkaline solution of cellulose, and passing the solution-films as a unit through an acid precipitating bath, the acidity of which is insufficient to dissolve the polyamide.

5. A double film sausage casing consisting of an inner film of polyamide and an outer film of regenerated cellulose, said films being joined at their interface through a region consisting of a mixture of polyamide and regenerated cellulose.

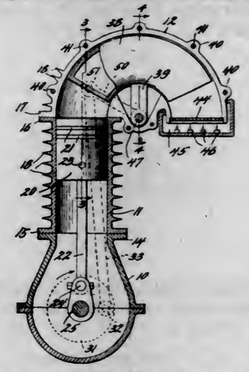
2,326,900
REFRIGERATION
Albert R. Thomas, Evansville, Ind., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware
Application October 18, 1939, Serial No. 299,919
10 Claims. (Cl. 62—119.5)



8. A refrigerating system having an evaporator in which liquid refrigerant evaporates into an inert gas, means including a pipe for conducting inert gas to said evaporator, and means including a conduit for conducting in the presence of each other liquid refrigerant to said evaporator and inert gas from said pipe, a portion of said conduit being enveloped by said pipe and another portion being disposed outside said pipe.

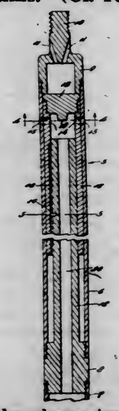
2,326,901
HOT-AIR ENGINE
Theodore F. Thompson, Des Moines, Iowa
Application October 7, 1940, Serial No. 360,161
3 Claims. (Cl. 60—24)

1. In a hot air engine, the combination with a working cylinder having a working piston therein, of a heating cylinder communicating with said working cylinder, said heating cylinder being formed as a segment of a tore, and a transfer piston operable in said heating cylinder for



displacing a gaseous medium between the latter and said working cylinder.

2,326,902
PUMP
Hugh De Witt Thomason, Tulsa, Okla.
Application November 26, 1941, Serial No. 420,564
4 Claims. (Cl. 103—225)

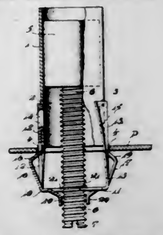


1. A pump of the character described comprising a piston including upper and lower cylinders, a joint connecting said cylinders, a tube rising from the joint in the upper cylinder and spaced therefrom, a sleeve slidable on said tube, the upper cylinder having discharge ports therein, said sleeve having ports therein for registry with the first-named ports, and means for closing the upper end of the sleeve.

2,326,903
INSTRUMENT MOUNTING AND FASTENER THEREFOR
George A. Tinnerman, Cleveland, Ohio, assignor to Tinnerman Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application June 12, 1940, Serial No. 340,203
2 Claims. (Cl. 248—361)

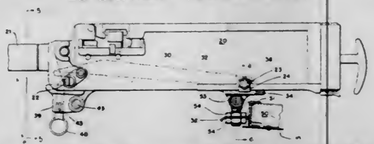
2. An instrument mounting comprising an instrument body, a support for the body having a socket opening larger in one direction and smaller in another than the base of the instrument, and a fastener to hold the body on the support comprising a generally U-shaped member having two opposed arms adapted to engage oppo-

site sides of the instrument and resilient tongues anchored to the fastener adjacent the junction of the arms and the base and diverted outwardly from the arms and then inwardly so as to have



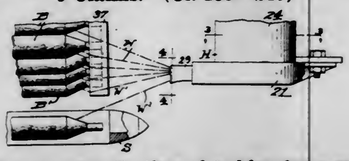
a snap fastening engagement with corners provided by the socket opening and the under surface of the support.

2,326,904
AIRCRAFT GUN MOUNT
Clem G. Trimbach, Eggertsville, N. Y., assignor to Curtiss-Wright Corporation, a corporation of Delaware
Application July 24, 1940, Serial No. 347,133
13 Claims. (Cl. 89—37.5)



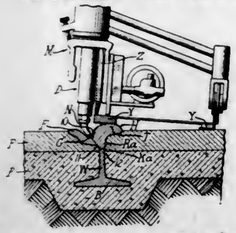
1. In a fixed gun mount for an aircraft wing, a gun having fore and aft pairs of attachment lugs, a gun mount provided with longitudinally extending guide means adapted for longitudinal movement of said aftermost pair of lugs therealong, and forwardly opening slots in said mount provided with releasable locks for retaining said forward lugs therein, the said guide means extending both forwardly and rearwardly of the locked position of said forward attachment lugs in said slots.

2,326,905
PNEUMATIC THREAD HOLDER FOR LOOMS
Richard G. Turner, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts
Application February 27, 1943, Serial No. 477,426
9 Claims. (Cl. 139—247)



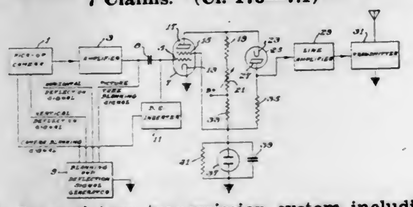
1. In a pneumatic thread holder for a weft replenishing loom having a group of reserve bobbins and having provision for moving a bobbin downwardly from the group into a shuttle below the group, said bobbins having weft ends extending therefrom, a pneumatic thread holder tube into which a draft of air is drawn to attract the weft ends into the tube, said tube having an end thereof facing the bobbins and provided with an intake mouth the upper part of which is relatively large to receive the weft ends from the bobbins in said group and the lower part of which is restricted to receive the weft end of a bobbin in the shuttle.

2,326,906
METHOD OF SEVERING AND REMOVING RAILS AND THE LIKE
Robert M. Walters, Baltimore, Md., assignor to The Linde Air Products Company, a corporation of Ohio
Application January 4, 1940, Serial No. 312,364
14 Claims. (Cl. 148—9)



1. A method of severing a head portion from a steel rail or similar member having a head and a web, such method comprising applying a cutting medium against and advancing the same along a surface of said head and through said rail or similar member to produce a kerf extending through said head, lengthwise of said rail or similar member, and diagonally across the main vertical axial plane of said web to the surface of said web at the other side of said plane from the surface of said head against which said medium is applied, said cutting medium being advanced through said rail or similar member so as to produce a kerf passing substantially tangentially through merging surface portions of said head and said web.

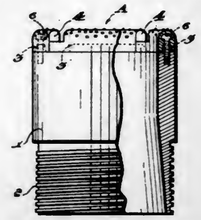
2,326,907
TELEVISION SYSTEM
Karl R. Wendt, Audubon, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application November 27, 1940, Serial No. 367,324
7 Claims. (Cl. 178—7.1)



1. In a picture transmission system including means for transforming an optical image into a train of picture signals having a predetermined reference level, a peak voltage limiting circuit comprising the combination of a diode having a cathode and a diode anode, means for impressing said train of picture signals between said cathode and a point of fixed potential, means for maintaining a predetermined bias voltage on said diode anode whereby only those of said signals which are in one direction of polarity from said predetermined reference level appear on said diode anode and means to prevent the potential on said cathode from exceeding in a positive direction, the potential of said diode anode.

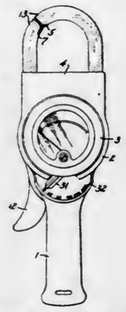
2,326,908
DRILL BIT
Edward B. Williams, Jr., Greenville, Tex.
Application May 29, 1942, Serial No. 444,955
3 Claims. (Cl. 255—72)

1. A drill core bit comprising a hollow cylindrical head with a plurality of projecting tapered and arcuate keys spaced apart on one end of the head, a plurality of segments of arcuate form, each of which has a recess for complementally receiving the keys, each of the segments includ-



ing tongue and groove means for connecting and interlocking the segments in a continuous rim on the head, the outer faces of the segments carrying abrasive elements.

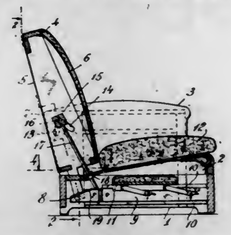
2,326,909
AMMETER
Alfred H. Wolferz and Paul P. Huber, Hillside, N. J., assignors to Weston Electrical Instrument Corporation, Newark, N. J., a corporation of New Jersey
Application February 10, 1940, Serial No. 318,350
15 Claims. (Cl. 171—95)



1. In a clamp-on ammeter, a measuring instrument, a transformer core including a stationary section and a pivotally mounted section, a winding on the stationary section of said core, a body of insulating material comprising a handle portion merging into a supporting portion that carries said transformer core and said instrument, and circuit elements including range-changing means connecting said instrument to said winding, said range-changing means including a switch having an operating member positioned for actuation by the thumb of the hand in which the handle is held.

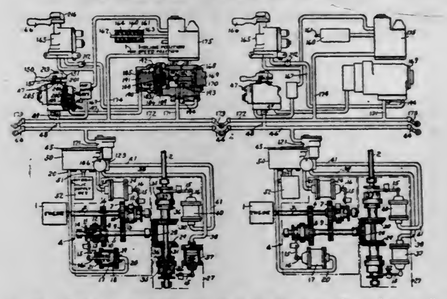
2,326,910
CHAIR
George W. Young, Flushing, N. Y., assignor to R. H. Macy & Co. Inc., New York, N. Y., a corporation of New York
Application June 18, 1942, Serial No. 447,485
3 Claims. (Cl. 155—108)

2. A chair comprising a base, a pair of back posts at the rear of the base, a back frame pivotally mounted on the base adjacent the posts, an inclined slot in each post, slots in the sides of the frame adjacent the slots in the posts and oppositely inclined, a cross-bar mounted between the sides of the frame, pins on the cross-bar, each extending into a pair of adjacent slots, a footrest frame slidably mounted in the base, cams on the rear of the footrest frame and rods extending downwardly from the cross-bar and engaging the



cams, movement of the footrest frame raising and lowering the cross-bar and varying the inclination of the back frame.

2,326,911
FLUID PRESSURE CONTROL MECHANISM
Burton S. Aikman, Wilkinsburg, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application June 7, 1941, Serial No. 397,018
45 Claims. (Cl. 192—.01)

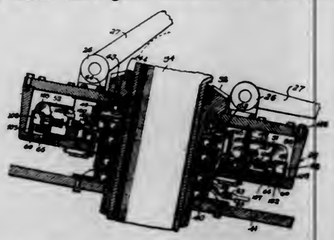


1. A fluid pressure control mechanism for selectively controlling the operation of a plurality of different devices comprising a control pipe, three movable abutments subject on one face to the pressure of fluid in said control pipe, a spring acting on each of said abutments in opposition to the pressure of fluid thereon, each of said abutments having a normal position and being so designed with respect to the spring acting thereon as to require the establishment of a pressure in said pipe to effect movement thereof from said normal position which is of a different degree than required to effect movement of each of the other of said abutments from normal position, valve means controlled by movement of each of said abutments for controlling one of said devices, and a manually operative device for selectively establishing in different positions the different degrees of fluid pressure in said pipe required for effecting movement of each of said abutments from normal position.

2,326,912
COMPRESSION RATIO CONTROL
Wilson Mayne Allison, Knockshegowna, Swinburne, Orange Free State, Union of South Africa
Application February 24, 1941, Serial No. 380,300
15 Claims. (Cl. 123—48)

1. In a rotary motor having a cylinder assembly mounted for rotation, cylinders in said cylinder assembly, pistons in said cylinder, a

crank pin carrier mounted for rotation at an angle to said cylinder assembly, connecting rods connecting said pistons and said crank pin carrier, gear means on said crank pin carrier and gear means on said cylinder assembly communicating with said gear means of said crank pin



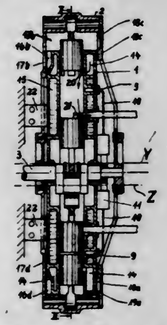
carrier for synchronizing the rotation thereof, and means for varying the path of travel of said pistons in said cylinders, said means comprising mechanism for varying the relation between said crank pin carrier and its synchronizing gear.

2,326,913

INTERNAL COMBUSTION ENGINE

Erich Allstädt, Frankfort-on-the-Main, Germany; vested in the Alien Property Custodian

Application August 8, 1940, Serial No. 351,815
In Germany August 17, 1939
5 Claims. (Cl. 123—44)



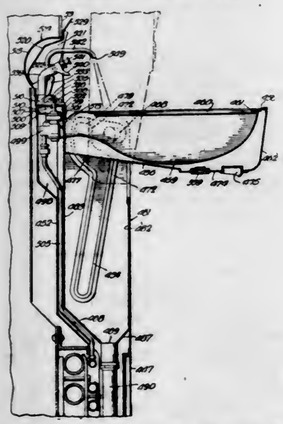
1. An internal combustion engine comprising a body formed with a plurality of radially arranged cylinders, two pistons mounted in each cylinder for reciprocating therein, mechanisms cooperating with said pistons so as to cause the pistons within each cylinder to move in opposite directions, means controlling the supply and delivery of a combustible mixture to said cylinders, said mechanism cooperating with the outer pistons being in the form of a ring having radial and rotary oscillating movement towards and away from said cylinders for imparting reciprocating movement to said outer cylinders, end plates associated with said body and ring and forming a chamber between the same, a piston connected with said ring and body and dividing said chamber into sections, said body being formed with a chamber, slots in said body and associated ports in one of said end plates cooperating alternately to connect and disconnect said sections with the outer air, slots in one of said end plates and cooperating ports in said body adapted alternately to connect and disconnect said sections with said chamber within the body, said cylinders being provided with scavenging ports for connecting the same with said chamber within the body.

2,326,914

BASIN UNIT

Leif Andersen, Chicago, Ill., assignor to The Pullman Company, Chicago, Ill., a corporation of Illinois

Original application July 31, 1940, Serial No. 348,670. Divided and this application November 28, 1940, Serial No. 367,600
17 Claims. (Cl. 4—169)



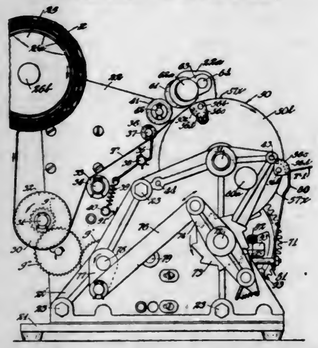
1. A normally horizontally disposed basin, a base for supporting the basin, pivot means for mounting the basin on the base, means associated with the basin and the base for providing vertical sliding of the basin with respect to the base so that the basin may be first tilted upwardly about its pivot points substantially to a vertical position over the base and then lowered vertically with respect to the base.

2,326,915

AUTOMATIC ADHESIVE TAPE DISPENSER

Arthur A. Anderson, Rose Township, Ramsey County, Minn., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware

Application January 26, 1942, Serial No. 428,200
19 Claims. (Cl. 164—68)



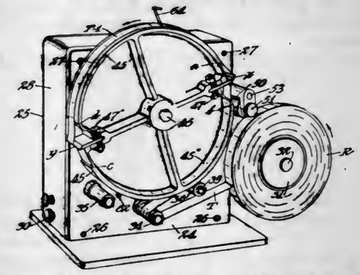
12. In a device for dispensing tape, means for holding a supply roll of tape, a cutter wheel adapted to receive tape from the roll and an anvil member adjacent to said cutter wheel, said cutter wheel having tape-gripping means positioned thereon adapted to contact a portion of the tape, severing means on said wheel positioned in such a manner that the tape passes over said severing means when it is trained around the wheel, the said wheel being positioned so as to press the severing means against the anvil member as the wheel rotates, thereby severing the tape with the severed portion still held by the tape-gripping means, power driving means for intermittent operation of the dispenser in dispensing cycles whereby successive pieces of severed tape are brought to rest at a dispensing station in step-by-step fashion, including control means adapted to be actuated in response to the removal of a severed length of tape, so that upon such removal the dispenser is set in operation to dispense the next length of tape.

2,326,916

AUTOMATIC ADHESIVE TAPE DISPENSER

Arthur A. Anderson, Rose Township, Ramsey County, Minn., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware

Application July 4, 1942, Serial No. 449,768
3 Claims. (Cl. 164—68)



1. In a device adapted to dispense pressure-sensitive adhesive tape in relatively long lengths of the order of approximately five inches or greater, means for holding a supply roll of tape, a rotatable wheel whose periphery is adapted to grip the tape by adhesive contact therewith and withdraw it from the roll when it is trained around the wheel, the periphery being divided by recesses into fixed segments of sufficient extent to fix adhesively a majority of the length of a piece of the severed tape, a severing edge in each of a plurality of the recesses, an edge being spaced from the adjacent edge by a peripheral distance of the order of approximately five inches or greater, each edge being sufficiently spaced from at least one of the two adjacent segments to provide space for grasping an end portion of a severed piece of tape, and each edge being positioned so that the tape passes over it when it is trained around the wheel, an anvil member adjacent the wheel positioned so that the severing edges are successively pressed against the anvil as the wheel rotates thereby severing the tape with a majority of the length of the severed portion still held and supported in an accessible position by the peripheral surface by reason of the tape's adherence thereto with an end free from contact therewith to permit such end to be grasped for removal.

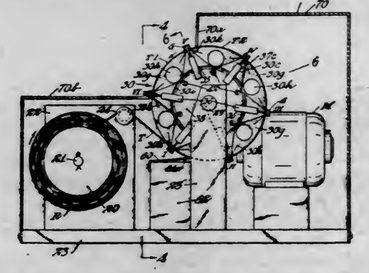
2,326,917

ADHESIVE TAPE DISPENSER

Arthur A. Anderson, Rose Township, Ramsey County, Minn., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware

Application March 17, 1943, Serial No. 479,440
7 Claims. (Cl. 164—49)

1. A tape dispenser comprising a rotatable cutter wheel adapted to receive adhesive tape about its periphery, a plurality of movable cutting blades mounted on the wheel and underlying the tape-receiving periphery, tape gripping means mounted on and attached to the wheel adjacent to the severing blades to facilitate cutting the tape and adapted to releasably grip adhesive tape and to removably hold cut pieces of tape, the



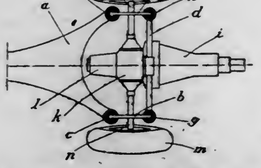
said tape gripping means being adapted to hold the tape independently of any means outside and apart from the wheel means for rotating the wheel and means for successively moving the cutting blades against the tape to cut it when brought to a predetermined position by rotation of the wheel.

2,326,918

VEHICLE RUNNING GEAR

Béla Barényi, Vaihingen-Rohr a. d. F., and Karl Wilfert, Sindelfingen, Germany; vested in the Alien Property Custodian

Application June 7, 1941, Serial No. 397,008
In Germany April 26, 1940
16 Claims. (Cl. 180—64)



1. In a vehicle having a main frame, a subsidiary substantially rectangular frame, including upper and lower transverse tubular sections, positioned in a substantially vertical transverse plane, means yieldably connecting said subsidiary frame to said main frame for movement transversely of said main frame, and a vehicle driving unit, including drive gears and driven wheels, connected to and movable with said subsidiary frame.

2,326,919

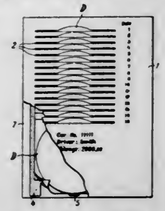
COLLECTING FOLDER FOR FILING DIAPHRAGM DISKS

Albert Becker, Villingen, Schwarzwald, Germany; vested in the Alien Property Custodian

Application October 25, 1940, Serial No. 362,830
In Germany November 7, 1939
8 Claims. (Cl. 129—20)

1. A folder for filing disks, comprising a cover formed with a series of parallel slots, a pocket at the back of the cover behind each slot, for reception of the disks, said pockets being formed of paper sheets being offset below each other and secured at their upper edges to the edges

of the slots and at their side edges to the backside of the cover, and at least one strip inter-



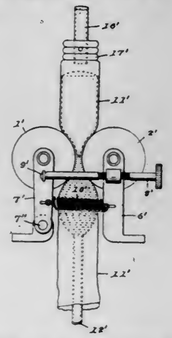
connecting the lower edges of the paper sheets overlapping each other shingle fashion.

2,326,920

APPARATUS FOR THE MANUFACTURE OF ARTIFICIAL SAUSAGE SKINS

Armin Bergmann, Pinneberg, Germany; vested in the Alien Property Custodian

Original application April 5, 1939, Serial No. 266,209. Divided and this application November 15, 1940, Serial No. 365,848. In Germany March 17, 1938
3 Claims. (Cl. 18—15)



3. Apparatus for the manufacture of artificial sausage skins which comprises in combination a container suitable for containing a supply of a pasty swollen mass containing water and albumen, means for forcing said material from said container, outlet means from the said container, a flexible carrier tube composed of absorbent material accumulated in folds around said outlet means; means for flattening said carrier tube after it has been removed from said outlet means, said means for flattening comprising a mutually opposed pair of rollers, one of which is axially reciprocable relatively to the other; and means connecting with said carrier tube for introducing a gas into the carrier tube after it has been operated on by said means for flattening it.

2,326,921

WITHDRAWN

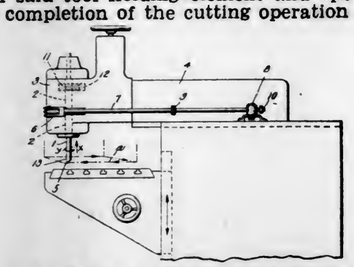
2,326,922

CUTTER GUIDING MEANS

Hermann Bieler, Kothen, Anhalt, Germany; vested in the Alien Property Custodian

Application August 7, 1939, Serial No. 288,851
In Germany August 8, 1938
8 Claims. (Cl. 90—55)

1. A device for guiding a reciprocable tool having at least two cutting edges adapted to engage a workpiece, said device comprising in combination with a tool holding element; means moving said tool holding element, and means connected with said tool holding element and operable at the completion of the cutting operation to raise



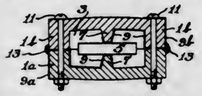
the tool off the workpiece and simultaneously turn the tool to bring both cutting edges of the tool out of contact with said work piece.

2,326,923

ART OF MOUNTING PIEZOELECTRIC CRYSTALS

Samuel A. Bokovoy, Audubon, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application September 30, 1941, Serial No. 413,056
8 Claims. (Cl. 171—327)



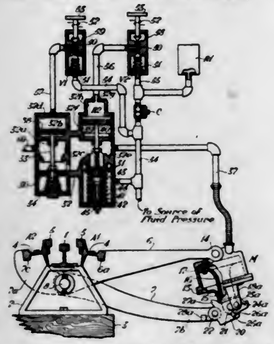
1. In combination, a holder for a piezoelectric crystal comprising a pair of cup shape members constituted of a flexible insulating material and adapted to form a hollow casing when their peripheral surfaces are brought into contacting relation, each of said flexible casing sections being provided with an inwardly directed oppositely located crystal supporting riser on an inner surface thereof, a piezoelectric crystal between said risers, the rise of said risers being such that the space between their facing surfaces is normally less than the thickness dimension of said crystal, and means for bringing the said peripheral surfaces of said flexible casing members together when said crystal is in position between said risers.

2,326,924

RAILWAY BRAKING APPARATUS

Herbert L. Bone, Forest Hills, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania

Application February 11, 1942, Serial No. 430,402
12 Claims. (Cl. 188—62)



3. The combination with a fluid pressure oper-

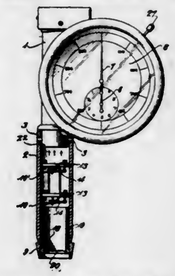
ated car retarder of the type in which the braking bars are moved to their braking positions by a fluid pressure motor and a link which together form a toggle which is collapsed when the braking bars occupy their released positions but which moves to its dead center position when fluid is supplied to the motor, the combination of means for supplying fluid to said motor at a relatively slow rate to move said toggle from its collapsed to its dead center position and for thereafter supplying fluid to said motor at a different rate.

2,326,925

SYSTEM AND DEVICE FOR MEASURING THE QUANTITY OF AIR SENT OUT IN ONE OR MORE BREATHS

Franco Bortini, Pavia, Italy; vested in the Alien Property Custodian

Application July 1, 1940, Serial No. 343,501
3 Claims. (Cl. 128—2.08)



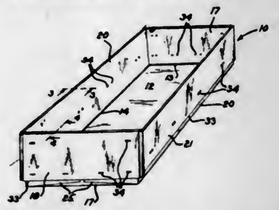
1. In a spirometer, a breath driven rotor, a conduit for supplying breath thereto, said conduit including a mouthpiece, normally open valve means in said conduit between said mouthpiece and said rotor for maintaining a constant pressure gas flow of predetermined value between the same and said rotor regardless of the pressure between said mouthpiece and said means, rotor driven means for recording the number of rotations of said rotor in terms of volume of breath, the latter being a function of the former, braking means normally immobilizing said rotor, and means responsive to the pressure in said conduit between said pressure control means and said rotor for releasing said braking means when said predetermined pressure value is attained.

2,326,926

FIBERBOARD CARRYING TRAY

Arthur A. Bureau, Chicago, and Stanley Price, La Grange, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application August 14, 1941, Serial No. 406,820
2 Claims. (Cl. 229—32)



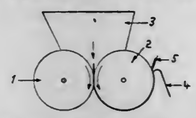
1. A tray comprising a bottom, double sides and ends folded upwardly from the bottom and downwardly on the outside to form inner and outer walls, said outer walls terminating short of the bottom, the bottom having a smaller area than the open top, foldable flaps integrally attached to the ends of the double sides along fold lines, the fold lines of the flaps which are secured to the outer side walls being offset outwardly from the edges of the bottom, said first-named flaps being secured between the inner and outer end walls thereby forming bulging corners flaring away from and extending beyond the inner walls of the tray when the flaps are folded upon themselves.

2,326,927

METHOD OF IMPROVING THE GRINDING, MIXING, AND REFINING OF RUBBER MATERIALS, SYNTHETICS, AND PLASTICS

Victor Conrad, Berlin-Wilmersdorf, Germany; vested in the Alien Property Custodian

Application December 13, 1939, Serial No. 309,102
In Germany January 15, 1938
3 Claims. (Cl. 18—48)



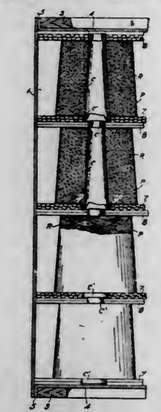
1. The method of improving the grinding, mixing and refining of plastics and similar rubber-like material which consists in working these substances on mills in which the rollers have diameters not exceeding one-half meter and in which the fastest rotating roller or rollers have a relatively high circumferential speed between one hundred and one hundred eighty meters per minute.

2,326,928

CARTON

George F. Courson, Cleveland, Ohio, assignor to The Hinde & Dauch Paper Company, Sandusky, Ohio, a corporation of Ohio

Application January 27, 1940, Serial No. 315,952
2 Claims. (Cl. 206—65)



1. A package for yarn or the like comprising in combination walls and a plurality of columns of yarn cones therein, said columns extending parallel to said walls, each cone being wound on a core extending beyond the ends of the cone, padding between said cones of greater thickness than the extensions of said cores beyond the cone ends whereby no weight is carried upon said extensions, said padding bear-

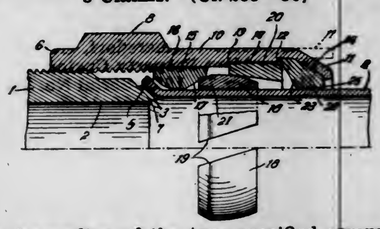
ing directly upon the top and bottom surfaces of said cones, and closure means for said package adapted to slide inwardly within the walls of said package, thereby seating the ends of the cones firmly in said padding.

2,326,929

METALLIC CONDUIT AND COUPLING THEREFOR

Irving Cowles, Detroit, Mich., assignor to Irving Cowles and Rudolph W. Lotz, Chicago, Ill., successor cotrustees to Union Bank of Chicago, Illinois, a corporation of Illinois

Application June 30, 1941, Serial No. 400,395
8 Claims. (Cl. 285—86)



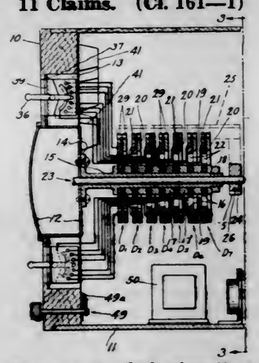
1. A coupling of the type specified comprising a male member equipped with a seat for the flange of a metal tube, a sleeve nut having threaded engagement with said male member and equipped with means for engaging an unsplit ring member with the tube flange to force and hold the latter upon said seat, an unsplit ring member disposed within the nut in the path of said means, the latter equipped with a tapered bore having its larger diameter end opposed to said ring member, and a resilient normally diametrically expanded and longitudinally non-collapsible metallic split sleeve disposed with one end in engagement with said ring member within said nut and having an outer surface portion between its ends of greater diameter than other outer surface portions thereof and of no greater diameter than the mouth of the bore of said means opposed to said ring member, said means operating to contract said split sleeve to predetermined smaller diameter than said tube as said means move toward and into engagement with said ring member.

2,326,930

TIME-CONTROLLED CIRCUIT SELECTOR

Alfred G. Crowder, Seattle, Wash., assignor to Ella D. Worrell, Seattle, Wash.

Application June 3, 1940, Serial No. 338,527
11 Claims. (Cl. 161—1)



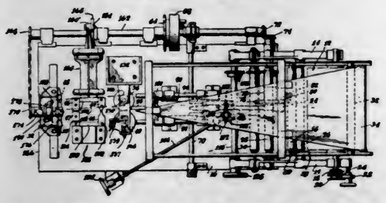
1. In a time-controlled circuit selecting device, rotary switching mechanism including a stationary time segment ring having peripheral time segments and spacing notches therebetween, a similarly notched common ring equal in diameter to said time segment ring, fixed thereto in coaxial relationship with its notches registering with the time segment ring notches, said common ring being insulated from said time segment ring, a bridging brush including a spring metal strip supported by one end and having its other end bifurcated, each of such bifurcations being in contact with the periphery of one of said rings, and time-keeping mechanism operable to rotate said brush to snap its bifurcated end progressively from one pair of aligned ring crests to the next through the intervening pair of notches, and operating to interconnect successive time segments with said common ring at times corresponding to such respective segments.

2,326,931

APPARATUS FOR FORMING BAGS

Thomas B. Dalton and Ralph H. Weisner, Orange, N. J., assignors to Reynolds Metals Company, Richmond, Va., a corporation of Delaware

Application April 24, 1940, Serial No. 331,340
6 Claims. (Cl. 93—8)



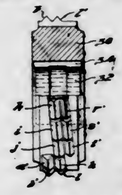
1. In a machine for continuously forming open mouth bags having folded seamless bottoms and heat sealed edges from a single web of material having a heat fusible surface, the combination which includes a web retaining roller, adjustable and resilient means for intermittently withdrawing said web from said roller, means for folding the web longitudinally so that portions of the web are in unsealed face to face relation, automatic means cooperating with said resilient means for varying the amount of the feed of the web, heating means to form sealed stripes transversely of the folded web, and separate cutting means arranged to cut the web centrally of said sealed stripes, thereby forming open mouth bags with said open mouths all facing in the same direction.

2,326,932

HOB

Joseph C. Drader, Detroit, Mich., assignor to Michigan Tool Company, Detroit, Mich., a corporation of Delaware

Original application October 21, 1935, Serial No. 45,879. Divided and this application May 11, 1939, Serial No. 273,070
3 Claims. (Cl. 29—103)



1. A hob-like tool having a cylindrical body

portion and two rows of like teeth adjacently disposed and helically positioned on the surface of the body portion, certain of the teeth of each row increasing in height from starting points diametrically disposed.

2,326,933

METHOD OF INCREASING THE SOLUBILITY OF HALOGENATED PHENOLS IN SOAP SOLUTIONS

Günther Endres, Hamburg, Germany; vested in the Alien Property Custodian

No Drawing. Application February 4, 1939, Serial No. 254,685. In Germany March 2, 1938
5 Claims. (Cl. 167—31)

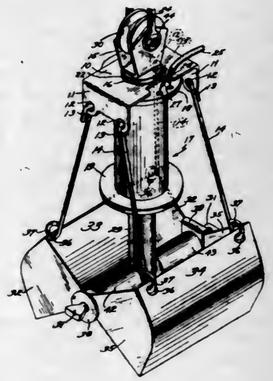
1. The method of increasing the solubility at low temperatures of halogenated phenols in aqueous soap solutions containing an operative quantity of alcohol not exceeding eight per cent, which phenols are normally relatively insoluble at low temperatures, which includes the step of incorporating in the solution trivalent phosphate ion in a proportion between 1% and 4% by weight.

2,326,934

TOY CLAMSHELL BUCKET

Oscar P. Erhardt, West Haven, Conn., assignor to The A. C. Gilbert Company, New Haven, Conn., a corporation of Maryland

Application January 22, 1942, Serial No. 427,685
19 Claims. (Cl. 37—184)



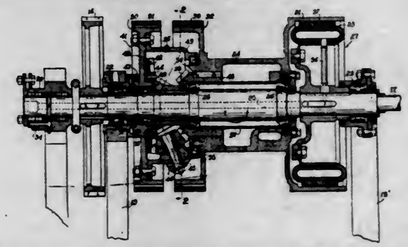
1. Toy load digging and hoisting apparatus including in combination with a toy lifting cable, an automatic toy clam-shell bucket embodying, an uppermost crosshead attached to said cable, jaw-like bucket sections pivotally coupled together having mating lips, separate suspension means connecting said bucket sections respectively to said crosshead, an electromagnet attached fixedly to and depending from said crosshead, and a movable armature disposed constantly within range of attraction of said electromagnet thereby to perform movement in response to electrical energization of the latter and connected to said bucket sections in such manner that said movement of the armature impels said bucket sections in directions to move said bucket lips toward each other thereby to close the bucket.

2,326,935

CROWD AND RETRACT MECHANISM

Berlin S. Ferguson, Ravenna, Ohio, assignor to Byers Machine Company, Ravenna, Ohio, a corporation of Ohio

Application September 4, 1941, Serial No. 409,593
1 Claim. (Cl. 254—187)



In a crowd-retract mechanism of the type comprising a driven shaft, a drum, and bearings at each end of said drum carrying said drum rotatably on said shaft, circumferential flanges on each end of said drum of larger diameter than said drum extending axially outwardly from said drum; a clutch within one of said flanges adapted selectively to connect said drum to said shaft to rotate directly therewith; and a gear train partly shrouded by the other said flange, said gear train comprising a bevel gear fast to the end of said drum surrounding said shaft but radially clear therefrom, a cage rotatable on said shaft, journals carried by said cage disposed radially to said shaft but disposed at an angle to the shaft axis, and a crown gear of greater diameter than said bevel gear fast to said shaft, pinions on said journals connecting said crown and bevel gears, a sleeve fast on said shaft nested at one end within but rotatably clear of said bevel gear, the nested end of said sleeve constituting an end retention for a bearing of said drum, said crown gear being secured to said sleeve, said cage including a bearing on said shaft partly nested within but rotatably clear of said crown gear sleeve, and means for selectively holding said cage against rotation.

2,326,936

PROCESS OF PRODUCING CHOLESTEROL CONVERSION PRODUCTS CONTAINING SULPHUR

Herbert Fiedler, Karl Heimig, and Helmut Liesegang, Leipzig, Germany; vested in the Alien Property Custodian

No Drawing. Application October 15, 1940, Serial No. 361,330. In Germany October 9, 1939
2 Claims. (Cl. 260—125)

1. A process for producing a sulphur-containing cholesterol conversion product, which comprises mixing cholesterol with glycerine and with free sulphur, and heating at 200–220° C. with agitation.

2,326,937

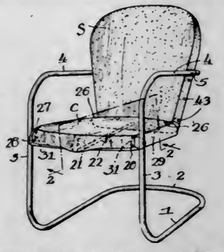
STEEL CHAIR CUSHION

Josef L. Frei, Chicago, Ill.

Application October 26, 1940, Serial No. 363,055
7 Claims. (Cl. 155—182)

1. A cushion for use on metal chairs having a seat with a forwardly and downwardly curved front flange, upright legs and a back, comprising a seat portion having top and bottom covers stitched together around their edges with a filling therebetween, said filling terminating short of the front edge of the covers whereby said covers

form a forwardly extending apron formed at its frontal middle portion with a lip, stitching extending through said covers along the front edge of the filling, a webbing secured to and extending rearwardly from said lip, means for tautly securing the webbing underneath the seat with



the front edge of the lip being folded underneath the front flange of the seat so that said front edge of the lip and the webbing will be out of sight when the chair is in normal position, and means detachably securing the rear edge of the cushion to the chair.

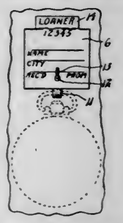
2,326,938
STABILIZED MINERAL OIL COMPOSITION
Everett W. Fuller, Woodbury, and Lyle A. Hamilton, Wenonah, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application July 31, 1940, Serial No. 348,820
6 Claims. (Cl. 252—51)

3. A viscous mineral oil fraction having in admixture therewith a minor proportion of a compound having the general formula



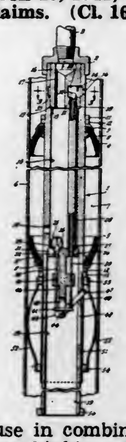
in which R is a radical of the class consisting of alkyl and aralkyl radicals, the said compound being present in an amount sufficient to inhibit the deleterious effects of oxidation on the oil.

2,326,939
REPAIR AND SALES RECORD CARD
Sigurd A. Grafsland, Minneapolis, Minn., assignor of one-half to Paul T. Grafsland, Minneapolis, Minn.
Application June 5, 1940, Serial No. 338,916
1 Claim. (Cl. 40—21)



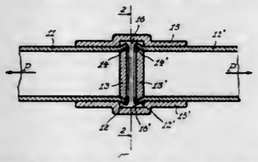
A card of the class described comprising, a sheet of material having a fold line transversely thereacross intermediate its ends, means connected to said sheet for securing the sheet to an article of jewelry and the like, said sheet including means for supporting it and the article of jewelry, and said sheet including a cut-out portion adjacent said transverse fold line and bearing visible indicia and extending above said fold line when said sheet is folded on said fold line.

2,326,940
OIL WELL TOOL
Paul H. Granger, Los Angeles, Calif.
Application March 15, 1941, Serial No. 383,589
11 Claims. (Cl. 166—11)



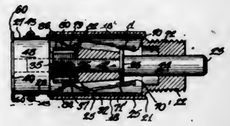
1. A tool for use in combination with a well casing and a string of tubing adapted to be moved within the casing, comprising: a vertically elongated body adapted for connection at its upper end to the tubing string; vertically spaced packing means carried by said body and adapted to seal off therebetween a localized zone within the casing; said body having a first passage therethrough opening outwardly of the body into the space in the casing below the packing means for establishing liquid communication between the tubing string and said space; said body also having means defining a second passage opening outwardly of the body into the spaces in the casing above and below the packing means; valve means for opening and closing said passages, said first passage communicating with said zone at a position above the valve means in the first passage; and valve-operating means carried by said body in position for operative engagement with said valve means and actuated by movement of the body relative to the casing to open said valve means.

2,326,941
JOINT FOR DEMOUNTABLE STEEL STRUCTURES
Joseph Heitner, Budapest, Hungary; vested in the Alien Property Custodian
Application January 30, 1941, Serial No. 376,690
In Hungary April 1, 1940
5 Claims. (Cl. 287—111)



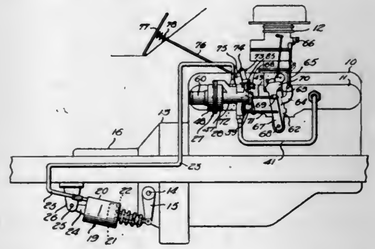
1. The combination of a pair of tubes in end to end relation, each having an outflared end portion forming an annular flange and an end insert secured to the tube so as to have no relative movement with respect thereto, the insert supporting the outflared end portion of the tube against collapse, a pair of shells engaging around the tubes and together defining a generally annular inner groove for receiving both said flanges, and means for releasably clamping said pair of shells together around said tube ends.

2,326,942
PLUNGER TYPE ELECTRICAL SWITCH
Robert Hetherington, Sharon Hill, Pa., assignor to Robert Hetherington & Son, Inc., Wilmington, Del., a corporation of Delaware
Application September 15, 1939, Serial No. 295,552
11 Claims. (Cl. 200—76)



1. A switch having a spring opposed operating plunger, a casing for the switch, an inner contact carried by the plunger and outer contacts within the path of movement of the inner contact adapted to be engaged with movement of the plunger, spring supporting strips for the outer contacts having inwardly extending portions intermediate their lengths for engagement by cam means, insulation between the spring supporting strips and the casing, and cam means in front of and also in the rear of the inner contact engaging respectively the outer contacts and the inwardly extending portions of their supports to wedge the contacts apart during movement of the plunger.

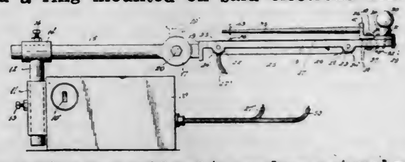
2,326,943
CLUTCH CONTROL MECHANISM
Edward G. Hill, Richmond, Va., assignor to Hill Engineering Corporation, Richmond, Va., a corporation of Virginia
Application July 8, 1941, Serial No. 401,513
32 Claims. (Cl. 192—.01)



1. A clutch control mechanism comprising a power device connected to the clutch, control mechanism for energizing the power device to disengage the clutch and for deenergizing the power device for releasing the clutch elements for controlled movement into engagement with each other, auxiliary control means for causing a relative lagging of the movement of the clutch elements into operative engagement upon operation of said control mechanism to deenergize said power device, and a second auxiliary control means for effecting a lagging of the movement of the clutch elements into operative engagement and operable only during inoperativeness of said first named auxiliary means.

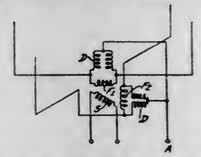
2,326,944
TESTER TRAINER
Donald Christian Holand and Virgil Elvin Lee, Grand Forks, N. Dak.
Application February 10, 1942, Serial No. 430,308
11 Claims. (Cl. 35—1)

1. Means for testing and training in welding comprising a simulated electrode member, a rod, and a ring mounted on said electrode member



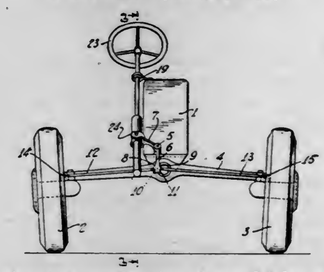
for passing over said rod to produce a signal when said ring contacts said rod.

2,326,945
DIRECTION-FINDING SYSTEM
Karl-Georg Holsten, Berlin, Germany; vested in the Alien Property Custodian
Application July 5, 1941, Serial No. 401,129
In Germany March 2, 1940
3 Claims. (Cl. 250—11)



1. In a direction finding system having a directional antenna system, and directional coil elements operatively associated with said directional antenna system for deriving therefrom a directional effect, the combination of means for deriving from said directional antenna system a non-directional antenna effect, said means including a choke coil arrangement associated with each said directional coil element, each said choke coil arrangement including two coiled wires joined directly together at one end of each wire and unjoined at the other end thereof, said wires having a very large inductance therethrough between said unjoined ends while having a very small inductance from said unjoined ends to said joined ends, and a conductor for said non-directional effect connected to said joined ends of each said choke coil arrangement, said unjoined ends of each said choke coil arrangement being connected in parallel across the respective one of said directional coil elements associated with said choke coil arrangement.

2,326,946
STEERING MECHANISM FOR VEHICLES AND TRACTORS
Fritz Huber, Mannheim, Germany; vested in the Alien Property Custodian
Application June 17, 1940, Serial No. 340,891
In Germany June 28, 1939
4 Claims. (Cl. 280—95)



1. A steering mechanism for vehicles and tractors having a body, an axle member connected

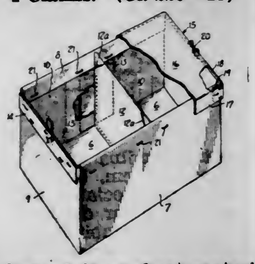
with said body, and steerable wheels connected with said axle member, said mechanism comprising a steering column having a threaded lower end portion, steering rods, a two arm lever having one arm operatively connected with and supporting said lower end portion and another arm operatively connected with said rods, and a pivot member supporting said two arm lever and being directly connected with the body of said vehicle, the arm of said two arm lever connected with said steering rods extending over said axle member.

2,326,947

SHIPPING CONTAINER

Ross C. Hurrey, New York, N. Y., and Ross T. Adams, Battle Creek, Mich.; said Hurrey, assignor, by mesne assignments, to International Paper Company, New York, N. Y., a corporation of New York

Application August 4, 1940, Serial No. 351,418
4 Claims. (Cl. 229—15)



1. A box formed from sheet material and including a bottom, end wall panels formed integral therewith, side wall panels formed integral with said bottom, said end wall panels each being provided with flap portions integrally formed therewith and disposed inwardly of and in substantial surface contact with the inner faces of said side wall panels, said end flap portions being of such length that the opposed edges thereof are disposed in close proximity thereby forming vertical slots, a transversely extending partition insertable in said slots and comprising a body portion of a height substantially equal to the height of the inner faces of said end and side panels, and locking tabs of less height than and formed integrally with the body of said partition, said locking tabs being disposed intermediate the respective side wall panels and associated end flap portions to secure said partition in said slots, said side wall panels each being provided with a relatively narrow flap portion extending the full length thereof and folded inwardly over said end panel flap portions to thereby lock said end panel flap portions and said partition in position, the upper corners of said partition being provided with angularly disposed scores defining triangularly shaped tab portions bendable out of the plane of the body of said partition to provide clearance for the inward folding of said narrow side flap portions and rebendable into the plane of the body of said partition to abut the inner surfaces of said infolded narrow side flap portions, and means for securing said narrow side flap portions in said folded position.

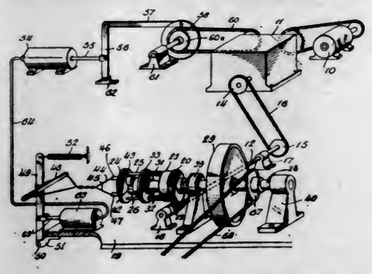
2,326,948

POWER TRANSMISSION APPARATUS

Vincent Imperato, Garfield, N. J.

Application February 6, 1941, Serial No. 377,677
3 Claims. (Cl. 185—11)

1. In an apparatus for storing and transmitting power, a continually-operating motor, a driven element, means connected with said motor for actuating said driven element, an energy-storing mechanism, a clutch interposed between said energy-storing mechanism and said driven element and adapted to connect said driven ele-



ment with said energy-storing mechanism to store energy therein, and means actuated by said motor and disengaging said clutch to cause said energy-storing mechanism to give up energy stored therein and transmit it to a device to be driven.

2,326,949

FORMED TETRASODIUM PYROPHOSPHATE COMPOSITION AND PROCESS FOR MAKING SAME

Raymond J. Kepfer, Lakewood, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application November 29, 1940, Serial No. 367,747
11 Claims. (Cl. 252—135)

1. In a process for producing formed tetrasodium pyrophosphate compositions, the steps comprising dispersing tetrasodium pyrophosphate in a fluid, molten magma comprising trisodium phosphate and water, the proportion of trisodium phosphate calculated as dodecahydrate to tetrasodium pyrophosphate calculated as decehydrate being at least about one to five by weight, and solidifying the mixture as discrete particles.

2,326,950

CHEMICAL PROCESS AND PRODUCT

Raymond J. Kepfer, Lakewood, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application November 29, 1940, Serial No. 367,748
10 Claims. (Cl. 210—23)

1. In a process for softening hard water the steps comprising dissolving tetrasodium pyrophosphate in the water and thereafter, but prior to precipitation of the hardness, dissolving an alkaline material selected from the group consisting of sodium borate, sodium metasilicate, and disodium hydrogen phosphate in the water.

2,326,951

OPTICAL SYSTEM FOR TAKING STEREOSCOPIC PHOTOGRAPHS

Fritz Köber, Hans Sauer, and Otto Vierling, Dresden, Germany; vested in the Alien Property Custodian

Application September 6, 1940, Serial No. 355,620
In Germany September 27, 1939
5 Claims. (Cl. 95—18)

1. In a photographic camera for producing stereoscopic pictures, optical means for producing

in the focal plane of the camera two separate pictures simultaneously of an object photographed, said optical means including two pairs of optical wedges for directing the light rays reflected from the object photographed into the camera, one pair of wedges for each picture to be produced, each wedge having a base which is considerably longer than the perpendicular side thereof and each pair of wedges being arranged with their hypothenusal faces adjacent each other and separated by an air space, said hypothenusal faces be-



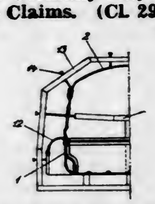
ing positioned at such an angle to the optical axis of the camera that light rays reflected from other than the object photographed and which would interfere with the light rays passing through the other pair of optical wedges strike the hypothenusal faces within the limit angle of total reflection and are directed away from the focal plane, while the light rays reflected from the object photographed pass unobstructed through said faces to the focal plane of the camera.

2,326,952

VEHICLE BODY AND METHOD OF MAKING SAME

Erwin Komenda, Stuttgart-Korntal, Germany; vested in the Alien Property Custodian

Application May 16, 1939, Serial No. 273,915
In Germany May 20, 1938
4 Claims. (Cl. 296—31)



1. As an article of manufacture, a vehicle body comprising mutually interlocking adherent pieces of artificial resinous material respectively forming the side walls, roof, front and rear walls and transverse walls thereof, the longitudinal edges of said roof being fork-shaped in the form of two depending arms integral with said roof, and the upper longitudinal edges of said side walls being fork-shaped with two upstanding arms integral with said side walls connecting with said depending arms to form a hollow longitudinal body beam.

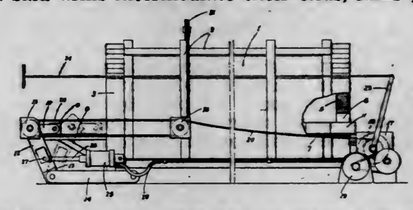
2,326,953

FEEDING DEVICE FOR BILLET HEATING FURNACES

Robert G. Le Tourneau, Peoria, Ill., assignor to R. G. Le Tourneau, Inc., Stockton, Calif., a corporation of California

Application June 23, 1942, Serial No. 448,092
8 Claims. (Cl. 214—18)

7. A billet feeding device for a furnace having a feed opening in one end thereof, said device comprising a substantially horizontal apron mounted beyond said end of the furnace in cooperating relation to said opening, a pusher bar extending transversely over said apron, a pair of transversely spaced upstanding arms disposed beyond said one end of the furnace, said arms being pivoted adjacent their lower ends for swinging movement lengthwise of the furnace, ears on said arms intermediate their ends, links pivoted between said ears and corresponding ends of the pusher bar, cable reaches connected with the upper ends of said arms and extending forwardly, means to exert a pull on said cable reaches whereby to swing the arms forwardly and advance the pusher bar, and means to swing said arms rearwardly and retract the pusher bar upon release of said pull means.

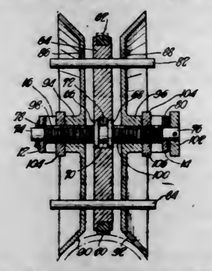


2,326,954

MARKER FOR CYLINDRICAL WORK

James W. MacAnlis, Ellwood City, Pa., assignor to National Tube Company, a corporation of New Jersey

Application April 12, 1941, Serial No. 388,342
4 Claims. (Cl. 101—35)



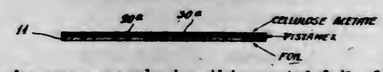
1. A device for printing on cylindrical articles such as pipe or rods comprising a mobile frame, a spindle journaled therein having oppositely threaded portions carrying respective spaced article engaging guide wheels having oppositely beveled inwardly converging peripheral faces, a type wheel supported on said spindle midway between said guide wheels, and means interengaging the type wheel and shaft for preventing relative axial shifting thereof.

2,326,955

COATED FOIL

Edward L. Mack, Douglaston, N. Y., and Earle H. Morse, Nutley, N. J., assignors to Reynolds Research Corporation, Richmond, Va., a corporation of Delaware

Application June 11, 1938, Serial No. 213,160
16 Claims. (Cl. 117—74)

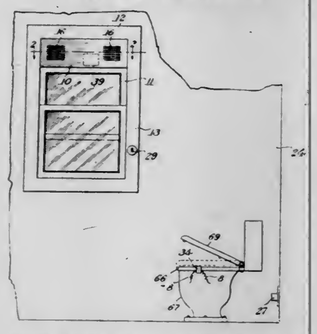


1. As a new product a thin metal foil of relatively high temper, a coating of "Vistanex" thereupon and an overcoating of cellulose derivative film upon the said Vistanex coating.

2,326,956
PROCESS AND MATERIAL FOR THICKENING LATEX AND LIKE MATERIALS
Gerry Mack, Jackson Heights, N. Y., assignor to Advance Solvents and Chemical Corporation, a corporation of New York
No Drawing. Application July 16, 1940, Serial No. 345,763
11 Claims. (Cl. 260—815)

1. A process for thickening an aqueous dispersion of rubber and the like materials comprising the step of admixing with a quantity of the dispersion containing 100 parts by weight of solids at least about 0.6 part by weight of a thickening agent selected from the group consisting of the alkali soluble acid cellulose dicarboxylates and their water soluble salts.

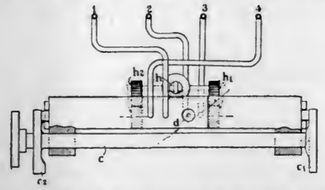
2,326,957
BATHROOM VENTILATOR
Cedric F. Maguire, St. Petersburg, Fla.
Application January 3, 1941, Serial No. 373,049
2 Claims. (Cl. 98—29)



1. A room ventilator comprising an electric fan, a circuit for the fan including conductors adapted to be connected to a source of current, a normally opened switch in the fan circuit, an electro-magnet adapted when energized to close the switch, a normally opened circuit for the magnet, a source of current for the magnet circuit, a normally closed switch and a solenoid in the magnet circuit, means adapted for operation by the solenoid when energized to open the normally closed switch, means adapted to latch the first switch in closed position and the second switch in opened position when moved to such positions by the energization of the magnet and solenoid, a normally open switch in the magnet circuit adapted to be closed to effect the energization of the magnet and solenoid, and means automatically actuated after the lapse of a predetermined period of time from the closing of the last named switch to effect the retraction of the latches so as to release the first named switch and the second named switch for movement to their opened and closed positions, respectively.

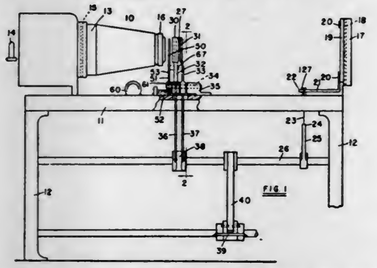
2,326,958
PUMP FOR INJECTION ENGINES
René Marais, Paris, France; vested in the Alien Property Custodian
Application November 20, 1939, Serial No. 305,384
In France November 23, 1938
5 Claims. (Cl. 103—154)

1. In a pumping and distributing apparatus, the combination of a first piston pump and a first distributor actuated by the piston of said first pump, a second piston pump substantially parallel to the first one and set in a direction reverse to that of the first pump and a second distributor actuated by the piston of said second pump, the first distributor being placed in proximity to the second pump and the second distributor being



placed in proximity to the first pump, and means for connecting the first distributor to the delivery of the second pump and for connecting the second distributor to the delivery of the first pump.

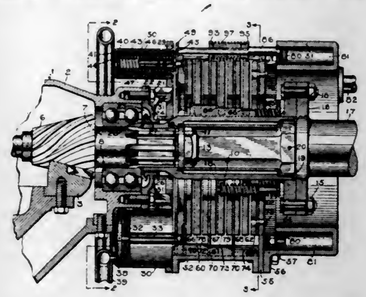
2,326,959
SHUTTER CONTROL MECHANISM FOR PHOTOGRAPHIC PRINTERS
Alvin L. Mayer, Cincinnati, Ohio
Application November 14, 1940, Serial No. 365,679
10 Claims. (Cl. 88—24)



1. In a photographic device a film support, a paper support, a projection lens, a source of light, a projection screen normally disposed between said lens and said paper support, a shutter for said lens, means for moving said screen out of the field of projection of said lens, means interconnected with said screen moving means for operating said shutter to expose said paper after the movement of said screen from between the lens and the paper support, and an auxiliary shutter for said lens under the control of a timer actuated by said first mentioned shutter for terminating the exposure of said paper independently of said first mentioned shutter.

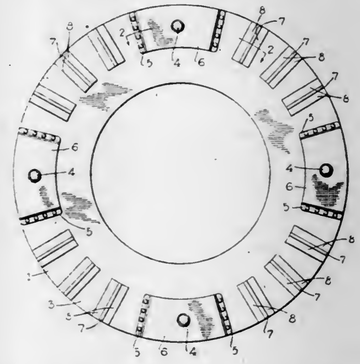
2,326,960
BRAKE MECHANISM
Joseph C. McCune, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application August 28, 1941, Serial No. 408,578
22 Claims. (Cl. 188—106)

1. In a brake mechanism for a vehicle of the type having a differential housing and an axle differential mechanism mounted in said housing, in combination, an assembly of annular friction brake elements comprising a rotatable brake element arranged to rotate with said shaft and a non-rotatable brake element disposed to frictionally engage said rotatable brake element for braking said shaft, an annular brake cylinder device carried by said housing and disposed at one end of said assembly of brake elements and operative to effect the interengagement of said brake elements to brake said shaft, spring means carried by the brake cylinder device operative to effect interengagement of said brake elements to brake said shaft, a release cylinder disposed at the opposite end of said assembly of brake elements operative by fluid under pressure for normally rendering said spring means ineffective



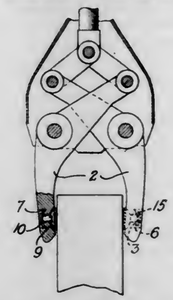
and operative upon the release of fluid under pressure to render said spring means effective to cause the interengagement of the braking elements to brake said shaft, and means interposed between the brake cylinder device and the release cylinder for securing said release cylinder to said brake cylinder device.

2,326,961
BRAKE MECHANISM
Joseph C. McCune, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application December 20, 1941, Serial No. 423,825
17 Claims. (Cl. 188—218)



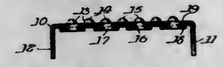
1. An annular brake rotor for a disk brake mechanism of the type having an annular stator disposed in coaxial relation with said rotor and in which engagement between said rotor and said stator is adapted to effect braking of said rotor, said rotor comprising in combination a ring, a brake shoe of composition braking material secured to one side of said ring and adapted to frictionally engage the adjacent face of said stator to brake said rotor, and non-braking means carried by said ring and spaced from said shoe and projecting from said ring for contact with said stator upon engagement of said shoe and stator and operative upon rotation of said rotor to force air around said shoe and over the braking surface of said stator beyond the ends of said shoe.

2,326,962
BIT FOR LIFTING TONGS
Fred Meier, Chicago, Ill.
Application June 22, 1942, Serial No. 447,962
3 Claims. (Cl. 294—118)



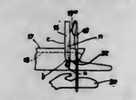
1. A lifting bit for lifting apparatus including at least one lifting element, said lifting bit and said lifting element providing contact surfaces in freely movable ball-and-socket relationship, a stud carried by the bottom of said lifting bit and extending through said lifting element, and means for retaining said stud against axial displacement, the work-contacting surface of said lifting bit projecting from the adjacent surface of said lifting element.

2,326,963
TREAD PLATE
Charles D. Morton, Chicago, Ill., assignor to Morton Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application August 2, 1941, Serial No. 405,153
2 Claims. (Cl. 94—5)



1. A safety tread comprising a substantially flat metallic plate having large circular openings therein whereby approximately half of the plate area is formed by said openings, said openings being arranged in staggered relation in rows extending longitudinally and transversely of the plate, the metal wall surrounding each opening being bent downwardly to form a circular flange extending normal to the tread surface of the plate, said flanges forming a series of webs between openings each having the shape of an inverted U in cross section, bosses located in spaced relation around each opening and projecting upwardly from said plate, said bosses being relatively small in size compared to the diameter of said openings, and said bosses being centrally perforated whereby gripping edges are formed on the upper surfaces of said bosses.

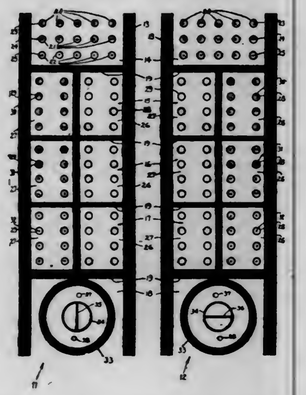
2,326,964
NEEDLE
Max Nebel, Chemnitz, Germany; vested in the Alien Property Custodian
Application August 12, 1938, Serial No. 224,519
In Germany August 18, 1937
15 Claims. (Cl. 66—96)



1. A latchless hooked needle for knitting ma-

chines adapted for transferring, casting-off, and forming loops comprising a stem, a hook having a base portion formed integrally with one end of the stem, said stem having an edge rising obliquely from the base portion of said hook in the plane thereof and away from the hook to form an inclined edge the highest point of which is located above said hook opening when the needle is in a horizontal position with its hook extending upwardly, the hook opening being defined by the distance of the free end of said hook from said inclined edge, said free end of the hook being spaced from said inclined edge a distance sufficient to permit passage of a thread to and from the hook during loop forming, but spaced sufficiently close to the inclined edge that during loop casting a loop will pass from the stem of the needle over the space between the stem and free end of the hook without entering the hook.

2,326,965
MEANS FOR TESTING EYES
Julius F. Neumueller, Dudley, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application October 13, 1941, Serial No. 414,815
8 Claims. (Cl. 88—20)



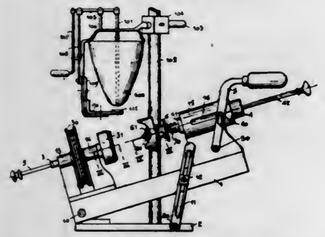
1. A test device comprising means adapted to be viewed by each respective eye under conditions which tend to relax accommodation, said means each comprising relatively pronounced peripheral fusable stimuli so spaced relative to each other as to insure that the line of vision of the respective eyes remain substantially parallel during the test and further comprising a plurality of central fusible means arranged in groups of the same size within the peripheral stimuli with at least one group of said central fusible means for the respective eyes having associated therewith test symbols of graded sizes for detecting visual acuity deficiencies.

2,326,966
SEAM SEALING COMPOUND
Lawrence A. O'Leary, San Mateo, Calif., assignor to W. P. Fuller & Co., San Francisco, Calif., a corporation of California
No Drawing. Application October 9, 1940, Serial No. 360,409
7 Claims. (Cl. 220—81)

1. A seam sealing compound comprising a glyceryl-sebacate resin, from 50 to 150 per cent of a filler, from 10 to 15 per cent of cellulose nitrate, and from 200 to 300 per cent of a volatile resin solvent, calculated on the weight of the resin.

7. A metal container having a seamed joint and having a plastic and adhesive sealing compound in the joint comprising a mixture of an alkyd resin derived from a polyhydric alcohol and a member of a group consisting of adipic, suberic and sebasic acids, from 50 to 150 per cent of magnesium silicate, and from 10 to 15 per cent of a derivative of cellulose selected from a group consisting of cellulose nitrate, cellulose acetate, cellulose propionate, cellulose acetobutyrate, ethyl cellulose and benzyl cellulose.

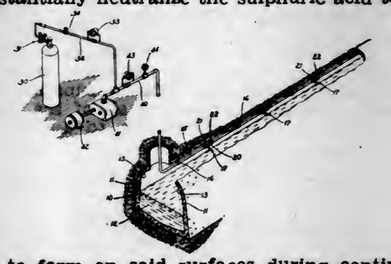
2,326,967
MANUFACTURE OF AIR FILTERS
Armand Jacques Julien Poelman, Paris, France; vested in the Alien Property Custodian
Application June 3, 1941, Serial No. 396,457
In France January 11, 1939
5 Claims. (Cl. 93—1)



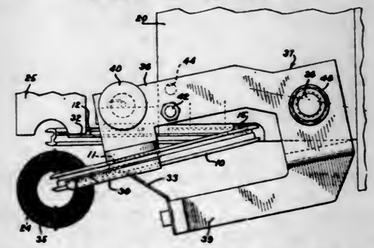
1. Machine of the type described, particularly adapted for fixing a filter to a mounting and comprising, in combination, a frame, a base plate pivoted to this frame and inclined by an adjustable angle with respect to the horizontal, on this base plate two supports arranged at different heights, a mounting carrying member adapted to receive said mounting and mounted rotatably on the support mounted below the other one on said base plate, a filter carrying member adapted to receive the filter to be fixed and rotatably and slidably mounted on the second support arranged above the other one on said inclined base plate, means for rotating said mounting carrying member, means for moving said filter carrying member and said mounting carrying member towards one another for bringing the filter into contact with the mounting, means for rotatably coupling said filter carrying member with said mounting carrying member before bringing the filter into contact with the mounting, means for supplying said mounting carrying member with an amount of lute necessary for sealing said filter to said mounting.

2,326,968
METHOD FOR PREVENTING CORROSION
Richard Pomeroy, Harbor City, Calif., assignor of one-half to Fred D. Bowius, Whittier, Calif.
Application June 10, 1940, Serial No. 339,735
5 Claims. (Cl. 21—58)

1. A method of preventing acidic corrosion of surfaces in sewers and which surfaces are exposed to the gaseous atmosphere above a stream of sewage flowing in said sewer, without treatment of the bulk of said sewage to reduce the sulphide content thereof, which method includes the steps of: introducing into said gaseous atmosphere a gaseous neutralizing agent capable of reacting with sulphuric acid tending to form on said surfaces exposed to said gaseous atmosphere; and controlling the amount of said gaseous neutralizing agent thus introduced to supply sufficient of said gaseous neutralizing agent to substantially neutralize the sulphuric acid tending to form on said surfaces during continued flow of said sewage along said sewer.



2,326,969
WINDING MACHINE
Amos L. Quinlan, La Grange Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application December 9, 1941, Serial No. 422,195
14 Claims. (Cl. 242—4)



1. In a machine for winding toroidal coils, a one-piece winding ring having a normally closed transverse joint, a grooved roller for rotatably supporting said winding ring, and means for moving said roller to laterally deflect a portion of said winding ring to open said ring at said joint.

2,326,970
ILLUMINATING SYSTEM, PARTICULARLY FOR PROJECTION PURPOSES
Kurt Räntsch, Jena, Germany; vested in the Alien Property Custodian
Application July 1, 1940, Serial No. 343,419
In Germany May 25, 1939
4 Claims. (Cl. 88—24)



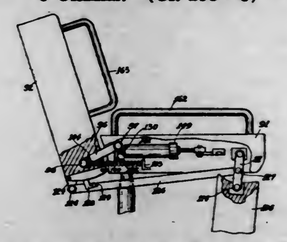
1. Illuminating system for projection, comprising in combination with a source of light, a picture window, optical means for creating a real image of said source of light in a plane between said source of light and said window, a pair of lens screens closely adjacent the plane of said real image and spaced along the optical axis of the system, each lens of the lens screen closer to the source of light being adapted to produce an image of said first named optical means in a reduced size in each of its corresponding lens on the companion screen, and each lens on the companion screen being adapted to produce an enlarged image of its corresponding lens of said first named screen in the plane of the picture window and within the area of said window, said last named images being in registration with each other and being of a size to fill out the entire area of said picture window, a tank suitable for cooling the medium through which the light passes between said source and said picture window, each lens screens forming an end wall of said cooling tank.

2,326,971
SPECTACLE HINGE
Stephen Rey, Long Island City, N. Y., assignor to Zylo Ware Corporation, Long Island City, N. Y.
Application March 27, 1941, Serial No. 385,460
6 Claims. (Cl. 88—53)



1. In a hinge for spectacles, a perforated hinge-carrying member on the spectacle rim and a hinge part comprising a head exposed at the front and end of said member, an integral shank extending through said perforation and protruding from the back of said member, and a hinge-pin-receiving eye formed in the end of said shank.

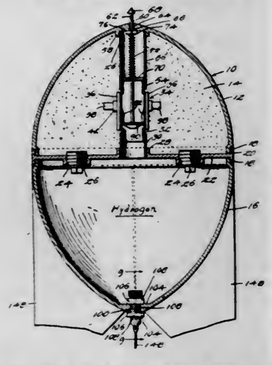
2,326,972
COMBINED DAY AND NIGHT COACH
Maurice Rosin, Albany, N. Y.
Application November 5, 1940, Serial No. 364,370
9 Claims. (Cl. 155—6)



9. In a passenger coach seat which includes a horizontal portion, a substantially vertical back portion hingedly linked thereto and a substantially vertical foot-piece portion, a support for said seat including, a vertical tubular member having its lower end fluid tight and adapted to be connected to a source of compressed air, an engageable opening in the wall of said member and spaced apart from said lower end, a second tubular member slidably mounted within and in fluid tight relation to said first tubular member, means in the lower end of said second tubular member forming in effect a piston head, a spring loaded plunger carried by said head and adapted to engage said opening, a valve in said head,

means associated with said plunger normally blocking said valve and adapted to free said valve when said plunger engages said opening, whereby compressed air after raising said second tubular member to the position where said plunger engages said opening may pass through said head via said valve, linkages between said back and said foot-piece portion to cause said back and said foot-piece portion to move in unison with each other, a cylinder supported by said seat and including a piston, other linkages between said piston and said first linkages whereby said back and said foot-piece may be caused to swing horizontally in line with said horizontal portion, and connections between said valve and said cylinder for permitting compressed air to pass through said head and via said valve to said cylinder after said tubular member is extended by said air.

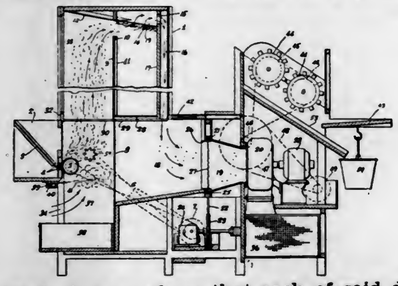
2,326,973
SUBMARINE DEPTH TORPEDO
Rafael Gimenez Ruiz, Canlubang, Laguna, P. I.; vested in the Alien Property Custodian
Application September 23, 1938, Serial No. 231,430
1 Claim. (Cl. 102—10)



A torpedo of the character described, comprising a shell consisting of upper and lower sections, a transverse partition between the sections separating the shell into an explosion chamber and a buoyancy chamber, the shell being provided at its periphery with a flange with which the sections are screw threadedly engaged to secure the sections in assembled relation, an explosive material in the explosion chamber, a tube located axially in the explosion chamber and secured to the partition and to the shell, percussion caps carried by the tube and extending therefrom into the explosive material, pre-tensioned hammers for the percussion caps pivoted to and within the tube, a rod slidably mounted in the tube and provided at its inner end with a flange engaging the hammers to hold them in retracted position, the rod extending through and beyond the explosion chamber to provide a target engaging element, and a spring normally holding the rod against movement.

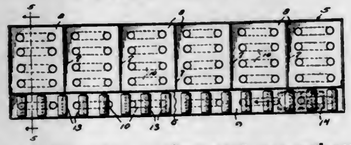
2,326,974
METHOD OF TESTING THE FELTABILITY OF HATTERS' FUR
Jack D. Sartakoff, Douglaston, Long Island, N. Y., assignor to No-Mercury Felt Corporation, a corporation of New York
Application June 28, 1939, Serial No. 281,692
1 Claim. (Cl. 73—51)

In the art of testing the feltability of hatters' fur, the method which comprises forming from different samples of fur a succession of fluffy flat substantially circular fur bats of single thickness and of approximately the same weight and dimension and which dimension is a small fraction of the area of a hat cone, wetting said bats to form a like number of flat disks of single thickness, stacking said disks in superimposed relation, thereafter subjecting all of the disks, collectively, in stacked relation to a plurality



of hardening rounds so that each of said disks receive substantially identical treatment, and thereafter subjecting the disks, individually, to a plurality of substantially identical sizing rounds, so that all of said disks receive substantially identical sizing treatment, to produce a plurality of flat felt samples peculiar to the particular samples of furs employed in the formation of the respective bats.

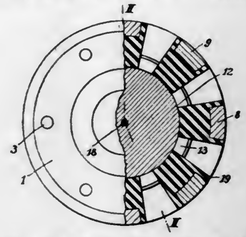
2,326,975
COMBINATION COOKER AND GAS EXHAUST
Joe C. Schell, Powell, Mo.
Application May 10, 1941, Serial No. 392,991
1 Claim. (Cl. 53—1)



In a combination cooker and gas exhaust, an elongated heated tank, a series of transverse partitions and a longitudinal partition dividing said tank into liquid containing scalding and cooking compartments and an exhaust chamber extending the full length of the tank, inverted substantially U-shaped fluid circulating tubes located below the bottom wall of the tank and connected with the interior of said tank to permit quick heating of the liquid in the tank and to support the tank on a heating source or to extend into the latter when the bottom wall of the tank is supported directly thereon, manually movable carriers for food containers placeable in the compartments and the chamber and movable from one end of the exhaust chamber to the other end thereof, and an inverted U shaped perforated rest located in and extending substantially the full length of the exhaust chamber on which said carriers move and acting to support the latter partly within the liquid of the chamber.

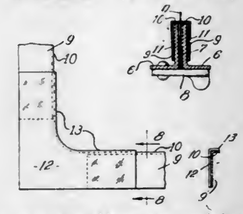
2,326,976
ELASTIC COUPLING
Fritz Schmidt, Hamburg-Harburg, Germany; vested in the Alien Property Custodian
Application May 28, 1941, Serial No. 395,525
In Germany November 22, 1940
14 Claims. (Cl. 64—14)

1. A flexible coupling for shafts comprising a pair of separate, substantially conically shaped coupling discs adapted to be connected respectively to a pair of shafts and having their smaller ends adjacent, a flexible rubber mass between the discs and bonded thereto, and a ring of material harder than the rubber disposed in encir-



cling relation to the outer conical sides of the discs, said discs being movable relative to each other to allow such relative deflection of the discs that the axis of one may be deflected or disposed at an angle with respect to the other.

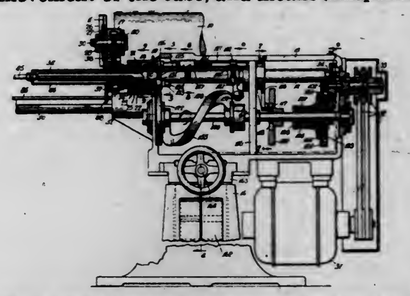
2,326,977
SIGN CONSTRUCTION
Louis J. Schneider, Chicago, Ill., assignor to Schneider Metal Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application February 24, 1941, Serial No. 380,238
4 Claims. (Cl. 40—125)



1. A sign construction comprising a plate, a frame therefor composed of rails substantially T-shaped in cross section and having wide web-portions disposed to form the periphery of said frame and presenting inwardly projecting spaced-apart parallel flanges providing a continuous channel within which the marginal edge portions of said plate are received, there being a slot in a rail of said frame through which said plate may be inserted and removed, a pair of sheet-metal frames each L-shaped in cross-section disposed upon opposite sides of said channel forming flanges of said first-named frame within the peripheral portion of the latter and having a flange of each thereof disposed to bear upon the said plate at substantially the mouth of said channel, and digitally operable clamping means engaged with all of said frames for causing the last-mentioned flanges to bear upon respectively opposite faces of said plate.

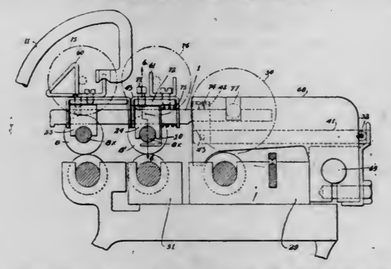
2,326,978
TUBE CUTOFF MECHANISM
Karl Sieg, Philadelphia, Pa., assignor to Samuel M. Langston Co., a corporation of New Jersey
Application January 20, 1942, Serial No. 427,415
20 Claims. (Cl. 164—69)

20. A machine for cutting a continuously advancing tube into sections, including a cutter movable back and forth in a direction parallel to the axis of the tube and movable toward and from said tube, a shaft having a cam for effecting the second mentioned movement and a helix having its axis parallel to said tube for moving the cutter in a direction opposite to the direction of movement of the tube, and means independent



of said helix for aiding the tube in moving the cutter in the same direction as the tube during the cutting action.

2,326,979
GUIDING ARRANGEMENT FOR TOP ROLLS
Wilhelm Stahlecker, Stuttgart-Bad Cannstatt, Germany; vested in the Alien Property Custodian
Application September 25, 1940, Serial No. 358,277
In Germany November 23, 1939
10 Claims. (Cl. 19—130)

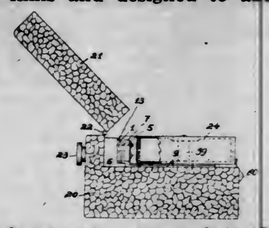


1. In a machine for drawing or drafting fibrous material, the combination with the positively driven lower drawing rolls and two or more pairs of top rolls, of a guide lever disposed in a plane at right angles to the axes of the top rolls, joint members at the rear end of the guide lever enabling its oscillation in any direction, a saddle bar connected to the guide lever by an intermediate joint, a saddle for each pair of top rolls, said saddles being connected to the saddle bar and resting upon the respective top rolls, said intermediate joint allowing additional swinging of said saddle bar in any direction.

2,326,980
CINEMATOGRAPH CAMERA PROVIDED WITH A MAGAZINE
Otto Steiner, Berlin-Spandau, Germany; vested in the Alien Property Custodian
Application February 20, 1937, Serial No. 126,870
In Germany February 22, 1936
3 Claims. (Cl. 88—17)

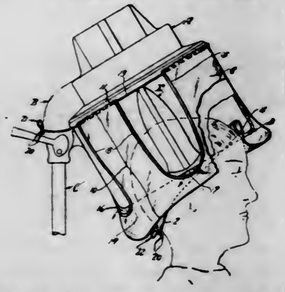
1. In a cinematograph camera having a driving mechanism and being designed for selectively accommodating magazines containing spools for substandard single-row films and magazines containing double width spools for films allowing the successive production of two picture rows, in combination, means for detachably connecting said mechanism with the spools of the magazine to be inserted, film-guiding means having a guid-

ing plate provided with an exposure window and presenting a guiding surface at one side of said window, said plate having two shoulders disposed at the other side of said window parallel to said guiding surface, said shoulders being spaced from said surface according to the width of said single-row films and designed to abut against



an inserted magazine for substandard films whereby the film of said latter magazine is laterally guided between said guiding surface and the abutting portion of said magazine, the portion of said plate between said shoulders being designed to form part of means for guiding said double width films.

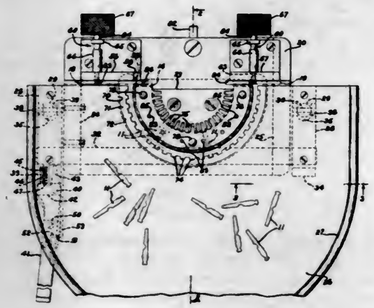
2,326,981
HEAT SHIELD
Ida C. Stenberg, Minneapolis, Minn.
Application May 31, 1941, Serial No. 396,100
2 Claims. (Cl. 34—90)



1. A shield for protecting the face and neck from the hot air in a hair dryer hood, comprising a flexible imperforate shield member of substantially cylindrical shape having open upper and lower ends, an elastic gathering means for fastening said lower end over the user's head, an upper fastening means encircling the dryer hood above the shield member, and elongated straps folded at their centers and secured at said folds to the upper fastening means, the ends of said straps depending in diverging relation from their folded centers and being secured to the upper end of the shield member.

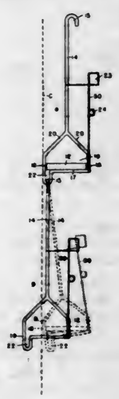
2,326,982
ASSEMBLING APPARATUS
Albert E. Summers, Riverside, and James H. Tomlin, La Grange, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application December 4, 1941, Serial No. 421,620
4 Claims. (Cl. 29—84)

1. In an apparatus for assembling parts in superimposed rows upon a base member, a stationary support for a base member, means for aligning and definitely positioning the base member upon said support, a vertically movable table for supporting a supply of parts to be slid therefrom onto the base member, cooperating spaced members carried by said table and support for predeterminedly positioning the parts relative to each other and the base member, and means for raising and holding the table in a predetermined



plane after the assembling of each row of parts whereby the parts for the following row may be slid from the table into position between the cooperating members and over the last row of parts.

2,326,983
SCAFFOLDING AND APPARATUS THEREFOR
Henry Sway, Cincinnati, Ohio
Application September 17, 1940, Serial No. 357,138
4 Claims. (Cl. 304—15)

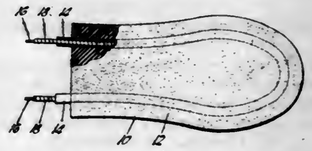


3. As a new article of manufacture, a scaffold hanger fabricated from a single length of rod like stock bent to form a base portion, a pair of upstanding side members disposed at substantial right angles to said base, a pair of top members which converge upwardly from said side members to a common apex and a shank portion extending upwardly from said apex and at substantial right angles to said base, the upper end of said shank being turned upon itself to provide an inverted U-shaped hook the legs of which are in a plane at substantial right angles to the plane of said side members, said base being provided with a U-shaped loop adjacent a side member, wherein one leg of said loop is common with said side member, said loop adapted to receive the hook of a second similar hanger for suspending said second hanger therefrom.

2,326,984
THIURAM SULPHIDES
Andrew Tomlin, Hudson, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application December 4, 1941, Serial No. 421,694
15 Claims. (Cl. 117—100)

1. The method of preparing thiuram sulphides in a form resistant to dusting or flying which comprises coating the thiuram sulphide in finely divided form in aqueous suspension with a hydrophobic emulsifiable oil of the long chain aliphatic type, separating the solids from said suspension and drying said solids.

2,326,985
HEATED SHOE PRESS PAD
Michael A. Turski, Buffalo, N. Y.
Application January 23, 1941, Serial No. 375,629
1 Claim. (Cl. 219—19)



A shoe sole part press pad for use in the operation of pressing together cemented shoe sole and upper parts, said pad comprising a body of resilient material having a dished upper surface of shoe sole-like planiform adapted to support thereon a shoe sole part for pressing the latter into cemented relation against another shoe part, a conduit member of relatively rigid material fixedly embedded within said pad body and so arranged as to lie substantially parallel to the planiform periphery of said pad to provide a smoothly curving generally U-shaped open passageway through the body of said pad from points of entry and exit therefrom at the heel end of said pad, said conduit being also arranged to be disposed substantially equidistant throughout its extent from said upper surface of said pad while being spaced at all points throughout slightly inwardly of the body of said pad, and a flexible electrically insulated heating element of metal in the form of a wire freely slidable within said conduit and inserted therein to extend therethrough and to terminate exteriorly of said pad for connection to an electrical power source and to provide a continuous electrical circuit through said pad, said conduit and said insulated wire being so relatively dimensioned that said wire is freely withdrawable from said conduit so as to be replaceable by sliding insertion of a similar substitute wire into said conduit by feeding the substitute wire with an endwise motion into said conduit until it is threaded therethrough.

2,326,986
PROCESS FOR THE PRODUCTION OF FUMARIC ACID
Selman A. Waksman, Highland Park, N. J., assignor, by direct and mesne assignments, of one-half to Merck & Co. Inc., Rahway, N. J., a corporation of New Jersey, and one-half to Chas. Pfizer & Co., Inc., Brooklyn, N. Y., a corporation of New Jersey
No Drawing. Application July 1, 1939, Serial No. 282,423
18 Claims. (Cl. 195—36)

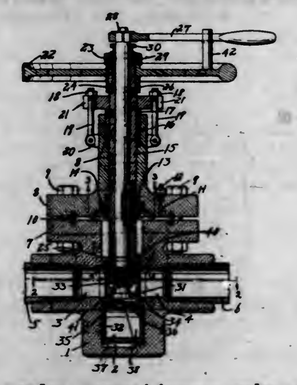
17. Process for the production of fumaric acid from fermentable carbohydrates selected from the group consisting of monosaccharides, starch, and materials containing these carbohydrates by means of fumaric-acid-producing strains of species of a genus of the order Mucorales, which comprises the successive steps of inoculating a carbohydrate solution containing nutrient materials with the said strains, developing fungal growth in the presence of a zinc salt, removing the nutrient culture solution, and supplying the developed mycelium with a fresh carbohydrate solution in the presence of an iron salt.

2,326,987
LIFE PRESERVER
Carl M. Weinheimer, Kenmore, N. Y.
Application May 5, 1943, Serial No. 485,741
10 Claims. (Cl. 9—17)



1. A life preserver comprising a collapsible elongate sleeve of waterproof material, spring means for expanding said sleeve to its full length and diameter, a container for said sleeve, said container having a cylindrical wall provided adjacent each end with cap securing means, a base having a washer externally mounted thereon, and a cap, one end of the sleeve being attached to the interior of the container adjacent the base, and the other end of the sleeve being attached to the interior of the cap, said cap having a wall with a valving aperture opening into said sleeve and a marginal flange provided with securing means thereon for engaging selectively with the securing means on said cylindrical wall, whereby said sleeve may be held in non-operative collapsed condition within the container by securing the cap to the open end of the container or held in expanded operative condition by attaching the cap to the base end of the container, the washer on the base closing the valving aperture in the cap wall.

2,326,988
GATE VALVE
Hillsman D. Wilson, Houston, Tex., assignor to Howard Smith Company, Houston, Tex., a corporation of Texas
Application December 24, 1941, Serial No. 424,227
5 Claims. (Cl. 251—69)



1. A gate valve comprising a valve casing

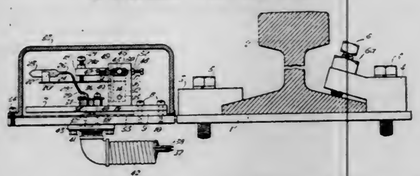
having a gate chamber and inlet and outlet flow ports in opposite walls of said gate chamber, a gate slidably mounted in said gate chamber and being formed of two cooperating abutting port closure members one for each port, the abutting surfaces of said closure members being inclined relatively to the plane in which said gate slides, a tubular stem extending into the casing and connected at its inner end to one of said closure members, a second stem mounted within the tubular stem and connected at its inner end to the other closure member, means for displacing said tubular stem to slide the closure member connected thereto, separate means for displacing the second stem to slide the closure member connected thereto, and lost motion means to limit relative displacement between said stems.

2,326,989

CIRCUIT CONTROLLING INSTRUMENT

Harold G. Witmer, Edgewood, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania

Application May 25, 1942, Serial No. 444,382
3 Claims. (Cl. 200—52)



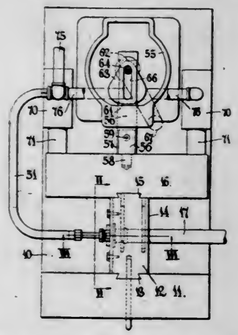
1. A circuit controlling instrument comprising a rigid plate provided at one end with means for clamping it to a railway track rail subjected to vibration as a vehicle passes thereover, a second plate less rigid than said first plate clamped at one end to said first plate intermediate its ends by means which leaves the other end of said second plate free to vibrate, a pair of superposed blocks pivotally attached to said second plate for limited pivotal movement about a horizontal axis, means for clamping said blocks in an adjusted fixed position with respect to said second plate, a reed clamped at one end between said blocks, and a mercury contact secured to the free end of said reed.

2,326,990

HYDRAULIC TUBE BEADER

Omer L. Woodson, Eggertsville, N. Y., assignor to Bell Aircraft Corporation, Buffalo, N. Y.

Application April 14, 1942, Serial No. 438,913
4 Claims. (Cl. 113—44)



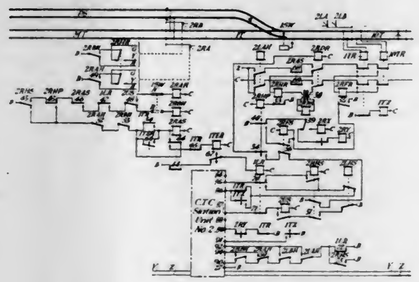
1. Tube forming apparatus comprising a pair of complementary tube encircling elements movable toward and away from each other, mandrel means between said tube encircling elements for disposition within a tubular work piece, said mandrel means comprising a flexible sleeve whereby hydraulic pressure within said mandrel urges said sleeve against the tube encircling elements to form the tubular work piece in conformity with the tube engaging surfaces of the tube encircling elements, and hydraulic means for urging said tube encircling elements against said tubular work piece, said hydraulic means being proportioned to exert a greater tube encircling force than the tube forming force within said mandrel, and means engaging said encircling elements and adapted to support said mandrel means therebetween, said supporting means being operative to dispose said mandrel means substantially midway between said encircling elements when the latter are in spaced, open position.

2,326,991

RAILWAY TRAFFIC CONTROLLING APPARATUS

Henry S. Young, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania

Application September 27, 1941, Serial No. 412,627
22 Claims. (Cl. 246—3)



1. In a signaling system for railroads, a stretch of single track provided with head block signals located at each end and intermediate signals at spaced locations within said stretch, for governing traffic movements in opposite directions through said stretch, a reversible line system extending between the head block signal locations comprising a pair of line wires sectionalized at each intermediate signal location, a line relay for each signal, a slow acting repeating relay for controlling each signal controlled by a front contact of the associated line relay, a directional relay at each end of the stretch, an energizing circuit for each directional relay including a back contact of the repeating relay for the signal at the same end of the stretch and also including a manually controlled contact, means for alternatively connecting the winding of each head block signal line relay or a source of current to the line wires at the corresponding end of the stretch comprising back and front contacts, respectively, of the associated directional relay, and means for alternatively connecting the winding of each intermediate signal line relay or a source of current to the line wires extending in advance of the corresponding signal, comprising back and front contacts, respectively, of the repeating relay for the opposing signal at the same location.

2,326,992

LACQUER

Felix J. Bellac, New York, N. Y.

No Drawing. Application November 8, 1941, Serial No. 418,382
4 Claims. (Cl. 106—171)

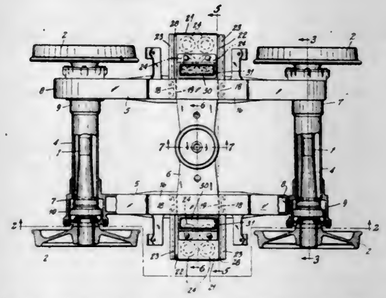
1. A lacquer for finishing artificial leather products which contain a textile base material and a pyroxylin-containing base coating, said lacquer consisting of a cellulose nitrate which is soluble in ethyl alcohol, is dissolved in a mixture of ethyl alcohol with toluene, xylene, and butyl alcohol; and a plasticizer selected from the group consisting of blown rapeseed oil and blown castor oil, said lacquer being substantially inert to said base coating.

2,326,993

TRUCK

Tracy V. Buckwalter, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a corporation of Ohio

Application November 5, 1941, Serial No. 417,877
10 Claims. (Cl. 105—182)



1. A spring-plankless inboard car truck comprising wheeled axles, housings enclosing said axles between the wheels thereon, side frames connecting said housings and having openings therein, said side frames comprising truss structures extending substantially straight from housing to housing, groups of vertically disposed coil springs supported on the respective side frames opposite to but entirely outside of the openings therein, and a bolster extending through and outwardly beyond said side frame openings with its projecting ends supported on said springs, said side frames having outstanding horizontal brackets rigid therewith on the outer sides thereof below the level of the bottoms of the openings therein and constituting the sole supports for said springs.

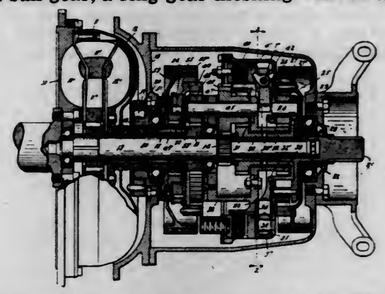
2,326,994

AUTOMATIC SPEED CHANGE GEARING

William A. Duffield, Windsor, Ontario, Canada, assignor to Windfields, Limited, Montreal, Quebec, Canada, a corporation of Canada

Application October 3, 1942, Serial No. 460,611
8 Claims. (Cl. 74—189.5)

1. An epicyclic gearing comprising a power-receiving shaft carrying a first sun gear, a power-receiving sleeve shaft sleeved on said first shaft and carrying a second sun gear, an output shaft, a third sun gear, a connection between the third sun gear and the output shaft by which the third sun gear may rotate the output shaft, a planetary carrier coaxial with the aforesaid gears, a planetary gear unit journalled on said carrier and having two sets of gear teeth, one meshing with the first sun gear and the other meshing with the third sun gear, a second planetary gear journalled on said carrier for rotation independently of said planetary unit and meshing with the second sun gear, a ring gear meshing with said last-



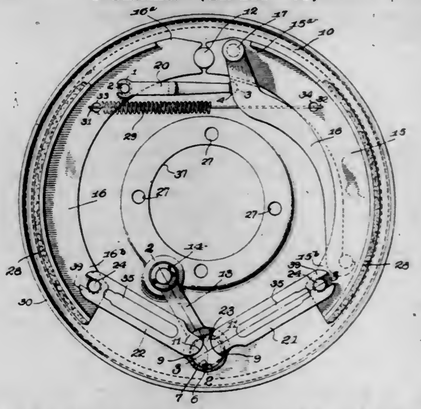
mentioned planetary gear, means blocking reverse rotation of said second gear, means for blocking rotation of said ring gear, and means for connecting said carrier and output shaft.

2,326,995

BRAKE

Carolus L. Eksergian, Detroit, Mich., assignor to Budd Wheel Company, Philadelphia, Pa., a corporation of Pennsylvania

Application August 1, 1940, Serial No. 349,057
5 Claims. (Cl. 188—78)



1. A brake comprising a mounting plate, a pair of brake shoes carried thereby, a pair of anchors arranged at diametrically opposite points of said plate with which the adjacent shoe ends, respectively, coact, one of said anchors being fixed with respect to the mounting plate, means for expanding the shoes connected thereto adjacent their ends coacting with said fixed anchor, the other anchor being a floating anchor constrained to move about a fixed center disposed on the mounting plate a substantial distance to one side of the diameter on which the anchors are arranged, and links connecting the adjacent shoe ends with the floating anchor.

2,326,996

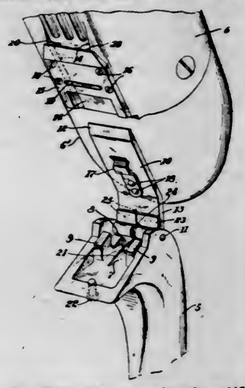
FOOD-MIXER SUPPORT

Harry B. Fuge, Elizabeth, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey

Application August 21, 1941, Serial No. 407,709
2 Claims. (Cl. 248—13)

1. In a food mixer having a base, an upstand-

ing arm secured to the base, and a power unit; means for detachably securing the power unit to the upstanding arm and for providing an axis about which the power unit may be swung from and returned to a working position, said means comprising a spring-biased tongue member pivotally mounted on the free end of said upstanding arm and slidingly received within a complemental covered channel formed in the power unit casing, and a spring-pressed latch yieldingly secured to the tongue member and engaging a transverse groove in said casing, whereby to prevent accidental removal of the power unit when it is in its working position.

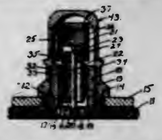


2,326,997
BANDAGE
Louis Hochman, New York, N. Y.
Application May 1, 1941, Serial No. 391,367
11 Claims. (Cl. 128—156)



1. A bandage produced from an open-ended tubular fabric structure twisted intermediate its ends and one portion being returned over the remaining portion to provide a tubular covering open at one end and closed at the other end.

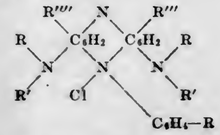
2,326,998
TIRE VALVE
Oakley W. Hosking, Monroe, N. Y., assignor to Composite Rubber Products Corporation, Bridgeport, Conn., a corporation of Connecticut
Application July 23, 1940, Serial No. 346,926
17 Claims. (Cl. 251—144)



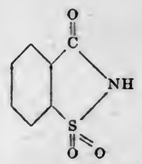
14. A valve stem for an inflatable air container comprising a pair of relatively movable concentrically mounted tubular members, the inner of said members having an orifice formed in the bore thereof; a valve seat at said orifice; a valve carried by the other of said members adapted to engage said seat and close said orifice; means for securing the base of the valve-carrying member to a wall of an inflatable air container with the bore of said inner member in alignment with an opening formed in said wall; and a tubular resilient means coaxially mounted intermediate said members and secured to the adjacent surfaces thereof, said means filling and sealing the annular passage intermediate said members and normally holding the same in a position wherein said valve is held in engagement with said seat and the orifice closed, said inner member being movable inward by an application of force to displace said valve to open said orifice.

2,326,999
NICKEL PLATING
Rudolf Lind, Euclid, William J. Harshaw, Shaker Heights, and Kenneth E. Long, South Euclid, Ohio, assignors to The Harshaw Chemical Company, Elyria, Ohio, a corporation of Ohio
No Drawing. Original application March 11, 1940, Serial No. 323,380. Divided and this application March 31, 1941, Serial No. 386,030
9 Claims. (Cl. 204—49)

1. An electroplating bath comprising an aqueous, acid solution of a nickel electrolyte of the class consisting of nickel sulfate, nickel chloride and mixtures thereof, said bath having the capability of producing bright and ductile deposits of nickel, such capability having been imparted thereto by the inclusion therein of cooperating addition agents, one of said addition agents being selected from the class consisting of compounds of the formula,



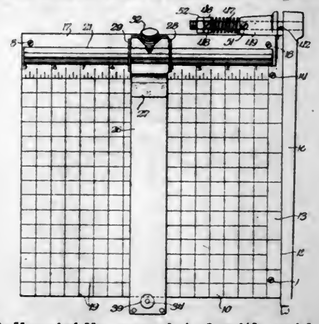
where R, R′, R″, R‴ and R⁗ are selected from the class consisting of hydrogen, methyl and ethyl, and which are soluble in the bath to the extent of at least one milligram per liter and mixtures of such compounds, and the other of said addition agents being selected from the class of compounds consisting of the compound of the formula



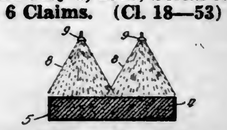
and alkali metal, nickel, iron and cobalt salts thereof, and mixtures of such compounds and being present in the bath to the extent of at least 0.1 gram per liter.

2,327,000
TRIMMING BOARD
Frank M. Lund, Chicago, Ill., assignor of fifty per cent to Harvey M. Pushker, Chicago, Ill.
Application December 1, 1941, Serial No. 421,125
5 Claims. (Cl. 164—44)

1. A trimming board of the character described comprising a rectangular base member having a metal cutting edge along one side thereof, a cutting knife pivoted to said base member and adapted to cooperate with said metal cutting edge to produce a shearing action, a rod mounted along one side of said base member at right angles to said cutting edge, a guide member slidably but substantially rigidly associated with said rod to maintain the guide member in contact with the base member and arranged for sliding movement in a direction parallel thereto, and means associated with said knife for opposing the downward pivotal movement thereof whereby accidental falling of said knife is avoided.



2,327,001
PORE SURFACED FOAM RUBBER AND METHOD
John F. Schott, Mishawaka, Ind., assignor to Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind., a corporation of Indiana
Application July 1, 1940, Serial No. 343,431
6 Claims. (Cl. 18—53)

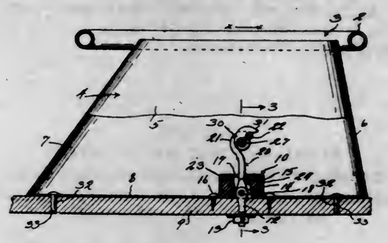


1. The method of producing a porous surface on spongy material of foam rubber or the like, which comprises shaping the foam rubber to a desired form with a surface thereof exposed, treating the exposed surface of the foam rubber before curing with liquid in a manner to produce a porous surface, and thereafter curing the foam rubber.

2,327,002
COATED ARTICLE AND METHOD OF MAKING THE SAME
John S. Thompson, Detroit, Mich., assignor to Parker Rust Proof Company, Detroit, Mich.
No Drawing. Application March 9, 1939, Serial No. 260,741
4 Claims. (Cl. 148—6)

2. A method of coating a surface of metal of the class consisting of iron, steel, zinc and their alloys which consists in applying to the surface to be coated an acidulous, aqueous solution containing the NO_3 radical and a metal from magnesium to nickel, inclusive, in the electromotivve series as its chief chemicals and continuing the application of the solution to the surface until a visible, continuous, bonding coating is formed thereon composed essentially of oxides of the metal being coated and said metal from magnesium to nickel, inclusive, in the electromotive series.

2,327,003
BUS SEAT SECURING MEANS
Robert S. Turner, Oklahoma City, Okla.
Application August 5, 1941, Serial No. 405,550
6 Claims. (Cl. 45—137)

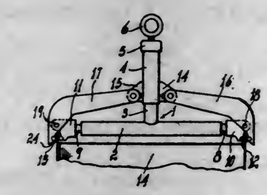


1. In a chair or seat structure, a seat body, supporting legs for the body each comprising a hollow housing having a lower portion adapted to rest upon a supporting structure such as a floor, a rotatably supported hook-shaped finger mounted within each housing, means accessible from outside the housing for rotating the finger, and an element for each housing adapted to be pivotally connected with the leg supporting structure to extend into the housing to a position adjacent the finger, said element being formed at its free end to receive said finger when the finger is rotated in one direction to establish a locking connection with the finger.

2,327,004
LIQUID HARDENER SOLUTIONS
Walter V. Wadman, Rochester, N. Y., and Loren C. Hurd, Jenkintown, Pa., assignors of one-half to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey, and one-half to Röhm and Haas Company, Philadelphia, Pa., a corporation of Delaware
No Drawing. Application March 29, 1941, Serial No. 385,964
11 Claims. (Cl. 95—88)

11. A hardening and fixing bath for photographic gelatin layers comprising as a hardening agent a zirconium double salt having in addition to zirconium ion, sulfate anion, and monovalent cation selected from the group consisting of alkali metals, ammonium and lower alkyl substituted ammonium, and a fixing agent for silver halide emulsions.

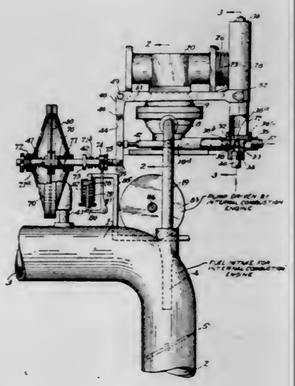
2,327,005
BARREL LIFTING MEANS
Lloyd L. Babcock, Compton, and James O. Bishop, Torrance, Calif.
Application June 1, 1942, Serial No. 445,314
5 Claims. (Cl. 294—110)



1. A barrel lifting means comprising a frame, a pair of posts slidably mounted in said frame,

chime engaging means on the outer end of each of the posts, lifting means mounted on the frame, said lifting means being movable relative to the frame, chime gripping means cooperating with said first-named chime engaging means, and means connecting said chime gripping means to said lifting means, whereby said chime gripping means is actuated as the lifting means is moved upwardly by the operator.

2,327,006
FLUID SUPPLY REGULATOR
Harding F. Bakewell, San Marino, Calif.
Application August 4, 1940, Serial No. 351,377
6 Claims. (Cl. 123—119)

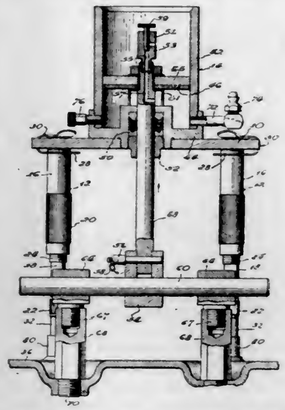


1. In combination, pressure-responsive adjusting means for mechanism which regulates delivery of fuel to the intake of an internal combustion engine, a valve for admitting and relieving pressure for shifting the adjusting means, an operating lever for the valve, a second lever shiftable by the adjusting means, and a control shiftable in opposite directions proportionally to increase and decrease in engine speed and/or pressure in the intake, the operating lever being connected to the control and to the second lever so that the valve is respectively shifted to pressure-admitting and pressure-relieving positions responsive to shifting the control in opposite directions and is then returned to shut-off position by movement of the second lever.

2,327,007
PLASTICIZED RESINS AND PREPARATION THEREOF
Franklin A. Bent, Berkeley, and Francis G. Byrne, Oakland, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application December 30, 1939, Serial No. 311,814
8 Claims. (Cl. 106—187)

8. A plasticized composition comprising a ketone-soluble synthetic plastic plasticized with a branched chain, saturated ketone containing 18 to 24 carbon atoms which is obtained by hydrogenating a ketone condensation product.

2,327,008
HYDRAULIC MOTOR HEAD LIFT
William H. Beretish, Chicago, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia
Application September 17, 1941, Serial No. 411,108
8 Claims. (Cl. 29—84)



1. A motor head lift comprising a base, means for supporting said base from a motor block, said base having a flange and said means including a plurality of legs and a spring clip for each leg adjustably engaging said flange, a member attachable to a motor head, and means mounted on said base for lifting said last-named member and a motor head attached thereto.

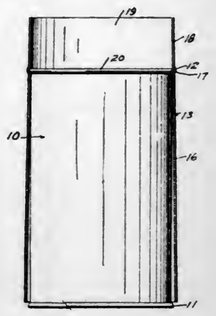
2,327,009
METHOD OF PRODUCING ROSIN ESTERS
Wyly M. Billing, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 29, 1940, Serial No. 343,153
7 Claims. (Cl. 260—104)

1. The method of producing the diethylene glycol ester of a rosin which comprises heating a mixture consisting of a rosin and an amount of diethylene glycol which is at least about the equivalent combining proportion and no more than a slight excess thereover at a temperature slightly below the boiling point of the glycol for a period of time sufficient to combine essentially all of the glycol in the form of an ester containing a substantial amount of free rosin, then raising the temperature rapidly to within the range of about 270° C. to about 300° C. under atmospheric pressure and continuing the heating at the latter temperature until an ester of low acidity is produced.

2,327,010
DRINKING ATTACHMENT FOR BEVERAGE CANS
Carl O. Bjork, Wilmington, Calif.
Application December 9, 1940, Serial No. 369,261
2 Claims. (Cl. 220—85)

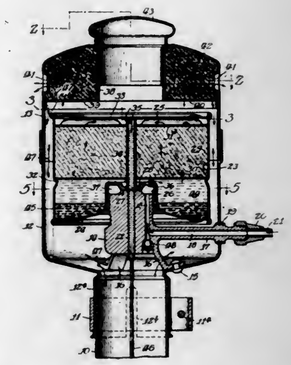
1. In combination with a can having a cylindrical body and an end wall double seamed therewith whereby a bead of greater diameter than the diameter of the can body will be formed by the double seam at the end of the can, a flexible and stretchable tubular sleeve of a uniform length greater than the height of the can and being of a diameter slightly less than the bead on the can

at the point of contact therewith, whereby as the sleeve is drawn onto the can the sleeve will be slightly stretched by the bead to form a liquid seal therewith, the portion of the tubular sleeve projecting beyond said bead forming a continuous circumscribing lip cup into which the liquid contents of the can may pour through a perforation in the can end, said tubular sleeve being



longitudinally tapered and having a diameter in the plane of contact of the bead with the sleeve whereby the sleeve will fit snugly against the bead, and the end of the sleeve with large diameter will lie substantially in the plane of the bottom of the can and the end of the sleeve of small diameter will lie in a plane beyond the top of the can to support the sleeve in a manner to cover the can and provide a cup at the top thereof.

2,327,011
OIL FILTER
Clark M. Bolser, Cedar Falls, Iowa
Application May 12, 1939, Serial No. 273,269
5 Claims. (Cl. 123—196)



1. In an oil filter, a housing mounted on a breather tube, a removable cover for said housing to permit addition of fresh oil to the breather tube, a self contained filter insert detachably mounted in said housing and comprising a filter bed, a sediment trap and an imperforate casing for said filter bed and sediment trap, said imperforate casing containing and completely enclosing all of said filter bed therein upon removal of said insert from said housing, an oil connection to discharge oil into said sediment trap, and means to discharge oil from said filter bed into said breather tube.

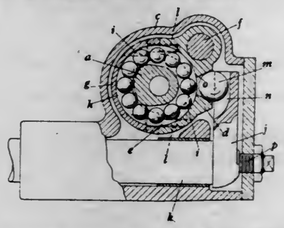
2,327,012
APPARATUS FOR CLEANING SHIPS' BOTTOMS
John George Bright, Artarmon, near Sydney, New South Wales, Australia
Application March 18, 1942, Serial No. 435,233
In Australia April 30, 1941
1 Claim. (Cl. 114—222)

Apparatus for cleaning the bottoms of floating vessels consisting essentially of a buoyant base composed of a plurality of hollow closed drums and a plurality of cross members to which



said drums are fixed, fender frames fixed to said cross members, rotatable brushes mounted above said drums in bearings fixed on said cross members, a motor mounted on said base between said drums, power transmission mechanism also mounted on said base and adapted to transmit power from said motor to rotate said brushes, height adjustable skid-bars secured to said base in juxtaposition to said brushes, rollers borne in the ends of said skid-bars and hauling cables shackled to the ends of said skid-bars.

2,327,013
SCREW THREAD MECHANISM
Thomas Henry Briggs and Walter Henry Briggs, Birmingham, England, assignors to Burman & Sons Limited, Birmingham, England
Application July 30, 1942, Serial No. 452,962
In Great Britain July 23, 1941
1 Claim. (Cl. 74—459)

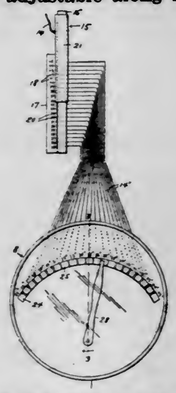


A screw thread mechanism of the kind specified, comprising the combination of a shaft formed with a helical groove, a slidable nut member subtending about one half of the shaft, a separate ball-returning member secured to the nut member and subtending the other part of the shaft, and at least one ring of balls surrounding the shaft, the nut member being formed with at least one groove which is complementary to that on the shaft and is such that the nut and shaft are interconnected by the balls lying within these grooves, and the ball-returning member being formed with at least one groove which has its ends situated opposite the ends of the groove in the nut member and is shaped to allow the balls in it to pass around the shaft.

2,327,014
TEMPERATURE CONTROL SWITCH
John P. Buller, Ringwood, Okla.
Application March 28, 1940, Serial No. 326,512
2 Claims. (Cl. 200—138)

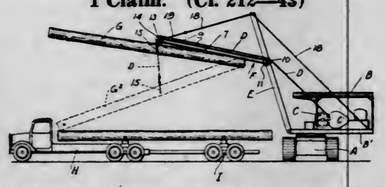
1. A switch in an electric circuit comprising

a non-conductive, elongated, stationary body and a conductive selector member slidably mounted thereon; said body being L-shaped and provided on both opposite flat sides with longitudinal slots and on one of said sides with a flat lateral plate, a series of longitudinally spaced contact points on said body adjacent said flat plate having a corresponding graduation, said selector member being U-shaped and having inwardly projecting flanges engaging in said slots and bearing against said contact points, the selector member being longitudinally adjustable along said body to se-



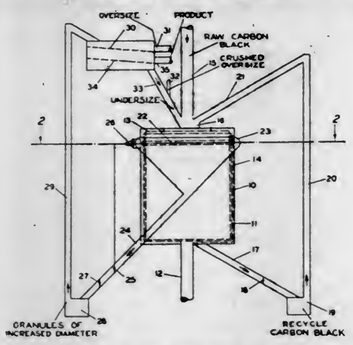
lectively engage one or all of said contact points, and a conductive pointer adapted for marking the temperature produced, a thermoresponsive mechanism adapted for positioning said pointer, a series of spaced, arcuately arranged contact points in a dielectric block with corresponding graduation making for cooperating with said pointer, individual leads connecting corresponding contact points on said body with the contact points in said arcuate block, a conductor between said selector member and one pole in the electric circuit and another conductor from said pointer to the other pole of said circuit.

2,327,015
APPARATUS FOR LOADING LOGS
Harry Carlson, Darrington, Wash.
Application June 8, 1942, Serial No. 446,259
1 Claim. (Cl. 212—43)



A derrick boom for loading logs, comprising side bars and cross tie braces for a frame, a pair of rails affixed to the lower faces of the braces at right angles therewith, and spaced apart relatively widely and parallel with each other for extending over and straddling opposite sides of logs, and said rails extended at considerable relative distance in area below said braces to prevent the logs from contacting the braces when raised and from being obstructed by the braces, and to prevent the logs from moving laterally with the rails and boom when raised, the outer edges and faces of the rails provided with rounded sides, to facilitate longitudinal sliding movement of the logs along the rails when elevated.

2,327,016
METHOD OF PELLETING CARBON BLACK
Samuel C. Carney, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application June 20, 1941, Serial No. 399,029
6 Claims. (Cl. 23—314)



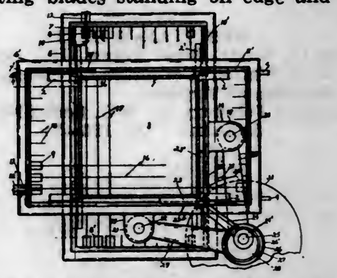
1. In a continuous process for agglomerating dry, flocculent carbon black comprising continuously adding the dry, flocculent carbon black to carbon black granules, subjecting the mixture to turbulent agitation whereby the carbon black granules of diameter slightly larger than the average rise to the upper and outer portion of the zone of turbulent agitation and the carbon black granules of diameter less than the average settle to the bottom thereof, continuously removing a portion of the carbon black granules of slightly larger average diameter from the upper and outer portion of the zone of turbulent agitation and separating this carbon black into granules of product size and granules other than product size, and continuously returning the carbon black granules other than product size to the top center of the zone of turbulent agitation, and continuously removing a portion of the carbon black granules of slightly smaller average diameter from the bottom of the zone of turbulent agitation and returning this portion of the carbon black granules to the top center of the zone of turbulent agitation.

2,327,017
TREATMENT OF WELLS PRODUCING MINERAL FLUID
Leonard C. Chamberlain, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application March 15, 1937, Serial No. 131,018
5 Claims. (Cl. 252—8.55)

3. In a method of treating a petroleum oil-bearing stratum penetrated by a well bore, the steps carried out consecutively which consist first in introducing alone and under pressure into the well bore and thence into the oil bearing stratum a water-soluble surface tension lowering compound and second putting the well into production.

2,327,018
MACHINE FOR CUTTING BREAD
Harry J. Criner, Davenport, Iowa, assignor of one-half to A. G. Bush, Davenport, Iowa
Application August 11, 1941, Serial No. 406,323
6 Claims. (Cl. 146—78)

1. A bread-cutting apparatus comprising a horizontal base, a vertical rectangular chute mounted upon the base and having transverse dimensions corresponding to the width and thickness of a loaf to be sliced, a pair of blade-carrying frames mounted in spaced horizontal planes one above the other upon and surrounding the chute and movable horizontally at an angle to each other, each frame carrying a plurality of thin cutting blades standing on edge and with



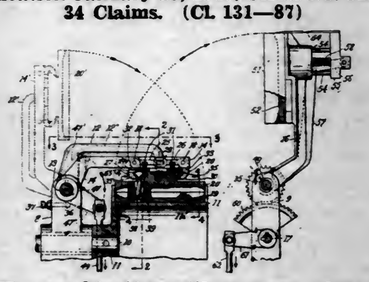
their cutting edges uppermost, said frames being formed with longitudinal V-shaped grooves on their inner faces, pairs of V-shaped bearing blocks mounted upon the sides of the chute arranged to receive the blade-carrying frames and to support and guide said frames, the chute being slotted to permit travel of the blades transversely through the chute, and means for driving the frames simultaneously.

2,327,019
METHOD OF SANDBLAST CARVING
Stephen Chruma, Kansas City, Kans.
Application February 3, 1941, Serial No. 377,121
5 Claims. (Cl. 41—39)



1. The method of sand blast carving which consists in coating the block surface to be carved with yieldable coating, cutting the design to be carved through said coating to present a plurality of segregated portions of the coating, peeling off one portion of the coating to expose the block surface, directing a sand blast at an acute angle against said exposed surface to form an undercut beneath the adjacent surface coating, then removing the surface covering portion above said undercut and sandblasting the newly exposed surface.

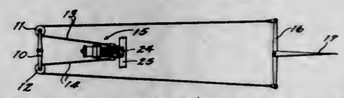
2,327,020
CIGAR BUNCH SHAPER
Sigurd Clausen, Brooklyn, N. Y., assignor to International Cigar Machinery Company, a corporation of New Jersey
Application January 23, 1940, Serial No. 315,137
34 Claims. (Cl. 131—87)



1. The combination with a group of comple-

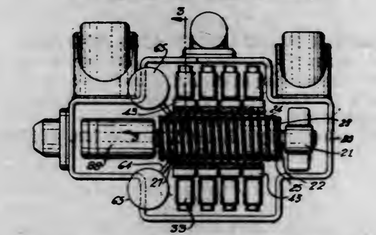
mentary pocket and completely detachable cover members for shaping bunches, of means mounted on said pockets for securing said covers in shaping position relative to said pockets, means movable into position to engage and completely detach said covers from said pockets, and a device carried by said last named means for releasing said covers for removal from said pockets.

2,327,021
CABLE TENSION REGULATOR
Everett B. Cushman, Roscoe, Calif., assignor to Sturgess Inc., Glendale, Calif., a corporation of California
Application October 21, 1941, Serial No. 415,941
6 Claims. (Cl. 74—501)



1. A cable tensioning device, comprising a fixed cylinder having one closed end, a piston slidably mounted within said cylinder and forming a seal for an incompressible fluid filling the space within the cylinder between the piston and the closed end, a piston rod carried by the piston and extending from the open end of said cylinder, a pivot upon said piston rod disposed with its axis at right angles to the longitudinal axis of the rod, a dual arm structure mounted upon said pivot and having a pair of arms which extend oppositely from said pivot, the ends of said arms being connected with separate cables disposed substantially parallel to the longitudinal center of the cylinder, a fluid reservoir, a valved bypass from the cylinder to the fluid reservoir, and means operative when unequal force applied to the dual lever by the cables rocks the same to close the bypass and lock the piston against movement within the cylinder.

2,327,022
SURFACE FINISHING MACHINERY
Albert H. Dall, Hans Ernst, and Sol Einstein, Cincinnati, Ohio, assignors to Cincinnati Grinders Incorporated, Cincinnati, Ohio, a corporation of Ohio
Application August 15, 1940, Serial No. 352,734
13 Claims. (Cl. 51—66)



1. A machine of the character described including a contoured wheel having a helical path formed therein for reception of work pieces, the contour of the path being such as to present the outer face of a series of work pieces in substantially continuous line, means providing divergent work engaging surfaces in the form of a V-block for engagement with said outer surface of the work pieces, one of said work engaging surfaces being formed of abrasive material to provide an abrading member, means for resiliently maintaining the abrading member in engagement

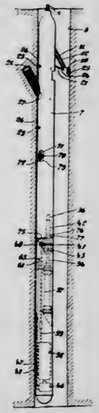
with the work pieces, means for effecting rotation of the wheel to successively advance the series of work pieces past the member, means for effecting high speed oscillation of the member during such traversing movement, means for synchronizing the relative rate of said traversing and oscillatory movements, and means for proportionately varying the rates of actuation of the feeding wheel and abrading member.

2,327,023

SIDE WALL DRILLING AND SAMPLING TOOL

Harry S. Danner, Cranford, N. J.

Application December 23, 1941, Serial No. 424,097
15 Claims. (Cl. 255—1.4)



1. A side wall sampling tool, comprising an elongated casing adapted to be lowered in a drill hole, said casing having a passage extending upwardly and opening outwardly through the side of the same, a cutting tool having a flexible tubular body operating in said passage and extensible upwardly therefrom, power means in said casing for rotating, upwardly projecting and downwardly retracting said cutting tool, means projectible from said casing for anchoring the same in a drill hole and controllable means for effecting sequential operation first of said anchoring means and then said first mentioned power means.

2,327,024

PACKAGE WRAPPER AND METHOD

George Donnell Davidson, Jr., Wadesboro, and Theron Jesse Norman, Jr., Charlotte, N. C., assignors to The Herald Press, Charlotte, N. C., a corporation of North Carolina

Application July 16, 1942, Serial No. 451,096
1 Claim. (Cl. 229—51)



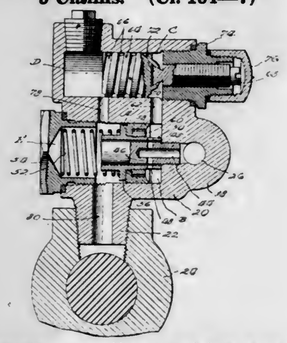
A container formed from a substantially rectangular sheet of material having opposed edges folded towards each other to thus form tongues extending from the other two opposed edges, the two tongues being folded towards each other in overlapping relation and being secured to each other, and a label secured to the exterior of the two overlapping tongues, said label having a tab extending from the edge thereof which is adjacent the free end of the outer tongue, the label being secured to the outer tongue to provide a stronger union than the union between the two tongues so that when an outward pull is exerted on the tab, the label will separate the outer tongue from the inner tongue.

2,327,025

RESISTANCE UNIT

Ernest W. Davis, River Forest, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia

Application February 27, 1941, Serial No. 380,874
5 Claims. (Cl. 184—7)



1. A resistance unit comprising a casting having a nipple for attachment to a bearing and a pair of cylindrical chambers arranged in parallel relationship, a valve part secured to said casting and projecting into one of said chambers, a piston in said last-named chamber slidable on said valve part, said valve part providing an inlet passage for said chamber, said valve part and said piston providing a valve controlling communication between said chamber and said inlet, a plug closing the opposite end of said chamber, a spring interposed between said plug and piston, a cylindrical plug in the other chamber having a helical groove cooperating with the wall of said chamber to provide a resistance passageway, a sleeve closing one end of said other chamber, a screw adjustable in said sleeve, a rotatable connection between said screw and said last named plug, a cover carried by said sleeve and protecting said screw against accidental misadjustment, a duct connecting the inlet ends of said chambers, a second duct connecting the outlet ends of said chambers, and a bore in the nipple part of said casting for connecting the outlet end of the first-mentioned chamber with a bearing surface.

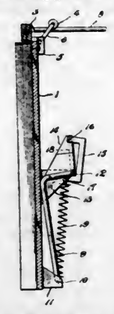
2,327,026

GARAGE DOOR HANGER

William G. Deuring, Cleveland, Ohio

Application February 16, 1942, Serial No. 431,035
2 Claims. (Cl. 20—16)

1. In an overhead door adapted to assume a vertical position when closed and an elevated horizontal position when open, guide means for carrying the upper end of the door in a horizontal path, a lever pivoted to each vertical side of the door frame and having a door supporting arm pivotally connected to the lower portion of the door, said arm comprising two angularly-related portions with the included angle facing away from the door, a plate secured to the upper of the two arm portions and forming in conjunction with the arm the aforesaid lever, a U-shaped link pivoted at the upper end to the free end of



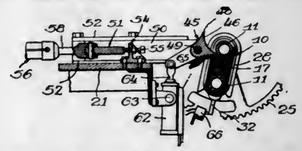
the plate and a spring means connected between the lower end of the link and a fixed support on the door frame.

2,327,027

MACHINE FOR STRIPPING RUBBER FROM TREAD LINKS OR THE LIKE

Clayton O. Dohrenwend, Blue Island, Ill., assignor to Burgess-Norton Mfg. Co., Geneva, Ill., a corporation of Illinois

Application September 25, 1942, Serial No. 459,625
12 Claims. (Cl. 164—34)



8. In a scarfing machine for stripping a rubber block from a rectangular metal frame of a tread link or the like having two spaced parallel cylindrical members between and round which said rubber block is molded, said machine including a rotating member for holding a tread link with one of its cylindrical frame members in centered position therein, means for driving said holding member reversibly, a knife support guided for movement by power radially of said holding member, a two bladed knife member rockably mounted on said knife support and extending transversely of the latter, and means for rocking said knife member so that one blade will be moved into scarfing position relative to said centered cylindrical member in one direction of rotation of the latter, and the other blade will be moved into scarfing position relative to said cylindrical member in the reverse direction of rotation of the latter, and stop means for limiting the rotation of said holding member in its respective directions of rotation when one or the other of said blades reach predetermined points between the two cylindrical members of said link.

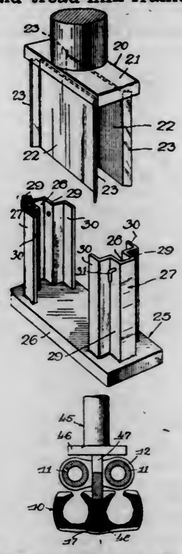
2,327,028

PROCESS FOR STRIPPING RUBBER FROM TREAD LINKS OR THE LIKE

Clayton O. Dohrenwend, Blue Island, Ill., assignor to Burgess-Norton Mfg. Co., Geneva, Ill., a corporation of Illinois

Application September 25, 1942, Serial No. 459,626
13 Claims. (Cl. 164—17)

8. The method of stripping a solid rubber tread block from a rectangular tread link frame having parallel pivot members, which includes the steps of scarfing the rubber around each of said pivot members by rotating said tread link in reverse directions about the axis of each of said pivot members, while forcing a cutting blade tangentially toward said pivot member in each direction of rotation, said tread link frame being reversed



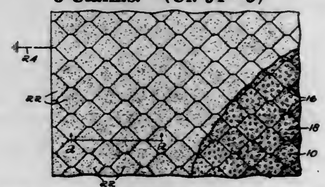
end to end between the scarfing operations on said pivot members so that the scarfing of both members is initiated from the same tread surface of the block, and then punching out the rubber block from between said pivot members.

2,327,029

FLOORING

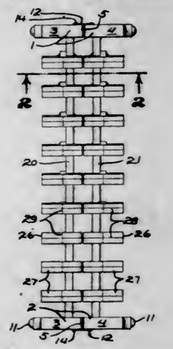
William W. Donelson, Boston, Mass., and Richard L. Ahearn, White Plains, N. Y., assignors to Western Waterproofing Company, Inc., Boston, Mass., a corporation of New York

Application March 6, 1941, Serial No. 382,008
3 Claims. (Cl. 94—3)



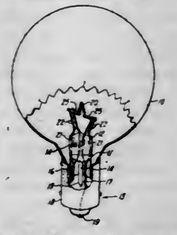
1. Sparkproof flooring, comprising the combination of a sub-floor, a composition top floor thereon comprising homogeneous material non-productive of sparks due to percussive impact of other materials therewith spread to uniform thickness over and bonded to the sub-floor, a grid of non-ferrous metal non-productive of sparks due to impact of other materials therewith resting on the sub-floor and extending upwardly through the top floor to a position approximating the top surface of the top floor whereby to receive static charges of electricity from elements coming in contact with said top surface, and means grounding the grid whereby to dispose of static electric charges therefrom, the grid being highly conductive of electricity and having little weight-supporting strength and wear-resisting capacity per se and being molded into and supported by the top floor composition.

2,327,030
TWO-POSITION WORK HOLDING DEVICE
Alfred Houghton Esty, Santa Cruz, Calif., assignor of one-fourth to Walter H. Oellerich and one-fourth to Charles Grunsky, both of Santa Cruz, Calif.
Application May 4, 1942, Serial No. 441,605
5 Claims. (Cl. 29—89)



1. A work-holding device comprising a pair of end plates, said end plates each being formed of a pair of sections; spaced connecting members joining corresponding sections of said end plates; a plurality of guide members disposed along each of said connecting members, with the guide members on one connecting member presenting vertically disposed guide surfaces facing vertically disposed guide surfaces of guide members on said other connecting member; means enabling adjustment of the distances between corresponding guide members and the angular disposition of guide surfaces whereby said guide members may be adjusted to outline desired contours; means for securing said end plate sections to permit relative rotation of one with respect to the other through an angle sufficient to bring said guide surfaces into approximately a common plane for the temporary application of contour elements of a structure to be fabricated, following which said guide surfaces may be restored to their original opposing positions for the application of joining elements to said contour elements.

2,327,031
STEM AND MOUNT CONSTRUCTION
Charles L. Fantar, East Cleveland, Ohio, assignor to General Electric Company, a corporation of New York
Application August 10, 1942, Serial No. 454,339
3 Claims. (Cl. 176—35)



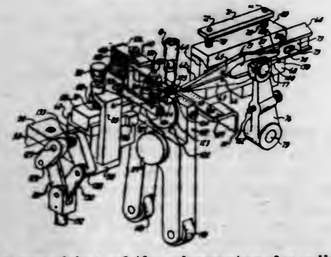
1. A stem and filament mount construction comprising a stem with sealed end, pairs of multiple leads sealed through the sealed stem end and extending therefrom, spuds attached to the leads of respective pairs and extending therefrom toward one another, and a coiled filament connected between said spuds.

2,327,032
TWO-WAY SAFETY RAZOR
Carl D. Fisher, Bentonville, Ark.
Application December 4, 1942, Serial No. 467,877
5 Claims. (Cl. 30—69)



5. The combination with a safety razor of the style comprising a cap and a guard having opposed, transversely-curved blade-engaging faces, a handle supporting said cap and guard and means for drawing said cap and guard into clamping engagement with a blade, of an elongated slot in said cap disposed parallel to a longitudinal edge of the guard, said slot being so constructed and arranged to receive the lower portion of a blade of the semi-rigid type and retain it in substantially flat, clamped shaving position between the cap and the guard.

2,327,033
FILAMENT MOUNTING MACHINE
John Flaws, Jr., East Cleveland, Ohio, assignor to General Electric Company, a corporation of New York
Application November 26, 1941, Serial No. 420,474
15 Claims. (Cl. 176—3)



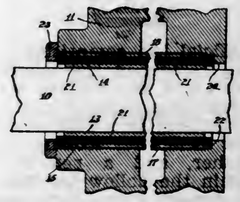
1. In a machine of the character described, the combination of a movable carrier having stem holding heads each constructed and arranged to hold a stem with a pair of metal leads extending therefrom, apparatus located along the path of movement of the heads for making a groove in each of the leads, apparatus farther along said path for placing portions of a filamentary wire in the grooves in the metal leads and thereafter working portions of said metal leads adjacent the grooves over said filamentary wire to securely fasten the said wire thereto.

2,327,034
APPARATUS FOR PREVENTING THE ACCUMULATION OF ICE
William C. Geer, Ithaca, N. Y.
Application September 20, 1941, Serial No. 411,739
9 Claims. (Cl. 244—134)



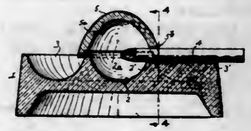
3. Apparatus for preventing the accumulation of ice, said apparatus comprising distortable surface means, a plurality of inflatable elements for effecting distortion of said surface means, means for inflating at least one of said elements, and means for inflating another of said elements at a unit pressure different than the inflating pressure for the other element.

2,327,035
BUFFER STEM SLEEVE
David W. Gray, Everett, and William B. Rogers, Jr., Dedham, Mass., assignors to Fabreeka Products Company, Inc., Boston, Mass., a corporation of Massachusetts
Application October 3, 1940, Serial No. 359,534
7 Claims. (Cl. 308—26)



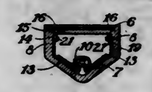
1. A unitary buffer stem sleeve comprised of an inner tube of wear resisting material around which are wound vulcanized layers of rubber and fabric, the bond between the laminated material and the wear resisting tube being enhanced by the fabric being under substantial tension whereby said tube is gripped due to the tension in the fabric and also by the laminated material being vulcanized to said tube and whereby said inner tube and said laminated material constitute an assembly substantially non-separable under conditions of use.

2,327,036
COMBINED ASH TRAY AND SAFETY MEANS
Niels Gerner, Euclid, Ohio
Application June 3, 1942, Serial No. 445,557
7 Claims. (Cl. 131—235)



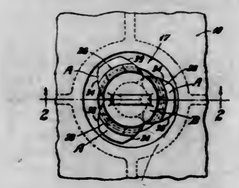
1. A combined ash tray and safety means comprising a device having a recess, a tray for ashes outwardly of said recess, and a grooved support for a cigarette or the like leading from the upper edge of the side wall of said tray to the upper edge of the side wall of said recess, and a cap for said recess seated on the side wall thereof and forming with said recess a chamber, the side wall of said cap being formed with a cut away alined with the groove at the inner end of said support to form an opening leading into said chamber to permit the inner lighted end of a cigarette to be projected through the opening into said chamber, the size of said opening approximating that of the cigarette, whereby when a cigarette is placed on said support and its inner end is projected through said opening said chamber is closed to prevent the intake of air thereinto.

2,327,037
THERMOMETER
Elmer C. Hartman, Rochester, N. Y., assignor to Taylor Instrument Companies, Rochester, N. Y., a corporation of New York
Application June 29, 1942, Serial No. 449,001
4 Claims. (Cl. 73—374)



2. A thermometer comprising a case having a back and side and end walls defining an open front, the inner surface of said side and end walls having a groove therein, a transparent cover plate receivable within said side and end walls for closing the front of said case, and a divided rectangular bezel seated in said groove to retain said cover plate in the case, said bezel having interlocking ends respectively provided with a tongue recess, an end portion of said bezel being normally biased away from said groove.

2,327,038
CAR CONSTRUCTION
Stacy B. Haseltine, La Grange, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application May 15, 1941, Serial No. 393,601
13 Claims. (Cl. 105—200)

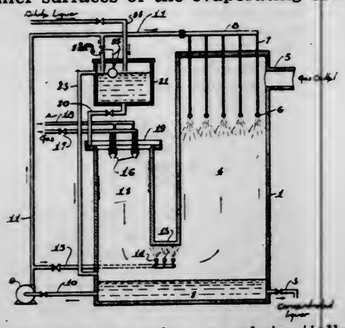


1. In car construction, the combination with body and truck bolsters having aligned center pin receiving openings, each of said bolsters being provided with an annular shoulder adjacent the outer end of the opening thereof; of a sectional center pin in said openings including a vertically split tubular shell composed of three similar outer members, and a filler element holding said outer members spread apart, each of said members being in edge to edge engagement throughout its length with the adjacent member and having heads at opposite ends in shouldered engagement with the shoulders of said bolsters.

2,327,039
SPRAY EVAPORATOR
Sheldon B. Heath, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
Application July 10, 1941, Serial No. 401,759
5 Claims. (Cl. 159—4)

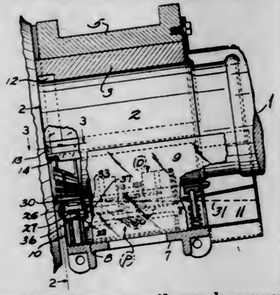
2. In a direct-fired spray evaporator, the combination of: an evaporating tower having a gas outlet; means for injecting a spray of the liquor being concentrated into the tower in the upper portion thereof; a liquor reservoir located below the tower in position to receive the spray falling therein; a combustion chamber in open communication with the reservoir and with the evaporating tower; burner means within the combustion chamber directed so that the hot combustion gases formed in the chamber pass through the evaporating tower in contact with

the spray therein; and means for disposing on the inner surfaces of the evaporating tower and



the combustion chamber a substantially continuous film of the liquor being concentrated.

2,327,040
RAILWAY JOURNAL LUBRICATOR STRUCTURE
James J. Hennessy, Montclair, N. J.
Application July 5, 1941, Serial No. 401,079
7 Claims. (Cl. 308—83)



1. In combination, a railway locomotive driver journal, a bearing thereon, a lubricator for said journal and bearing including a cellar having an end wall, and a member extending across said end wall for wiping surplus oil supplied to said journal, said member comprising a plurality of upstanding ribs extending substantially longitudinally of the journal with their upper edges in contact with said journal, said bearing being recessed from its end inwardly over the journal and said wall and forming an outwardly facing shoulder at its inner end, there being ribs projecting from said longitudinally extending ribs and substantially transversely thereof and positioned nearer to the end of the bearing than said shoulder.

2,327,041
HEAT EXCHANGE MATERIAL
Lyle O. Hill and Leland W. Short, Chicago, Ill., assignors to The American Dairy Cattle Club, Chicago, Ill., a corporation of Illinois
No Drawing. Application January 12, 1942, Serial No. 426,488
5 Claims. (Cl. 62—170)

1. A process of preserving a specimen at a temperature between about 32° and 50° F. for an indefinite period which comprises introducing said specimen into heat exchange relationship with a eutectic mixture of an amine selected from the group consisting of monoethanolamine and ethylene diamine and a compound capable of depressing the melting point of the amine to the temperature at which it is desired to maintain said specimen, said mixture undergoing a change of state during said period.

2,327,042
ARTIFICIAL LEG
George A. Hinkle, New York, N. Y.
Application August 1, 1942, Serial No. 453,163
13 Claims. (Cl. 3—4)



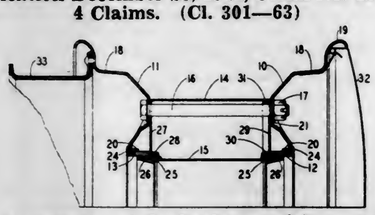
13. An artificial leg, comprising a stump engaging thigh member, a leg member having a hollow top end and set onto the bottom end of said thigh member, a pintle pivotally connecting the adjacent ends of said thigh member and leg member, lock means for locking said members fixedly together, and a pendulum pivotally mounted within the hollow top end of said leg member for operating said lock means to lock said members together in the forwardly directed position of said leg.

2,327,043
SHOE
John Hirsch, Alexandria, La.
Application February 8, 1941, Serial No. 378,037
5 Claims. (Cl. 36—1)



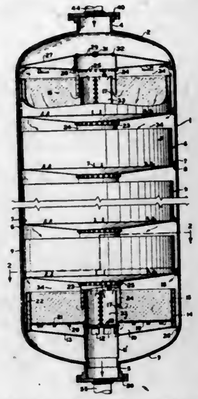
1. In a lady's shoe provided with a hole in its toe, a style changing device comprising a removable opaque covering means for closing said hole and a fastening means adapted to hold the covering means over said hole.

2,327,044
WHEEL
Harry J. Horn, Lansing, Mich., assignor to Motor Wheel Corporation, Lansing, Mich., a corporation of Michigan
Application December 26, 1941, Serial No. 424,444
4 Claims. (Cl. 301—63)



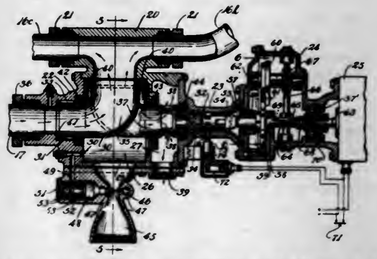
1. A pressed metal wheel comprising a pair of axially spaced apart identical one piece annular side members formed to provide tire bead seats adjacent their outer perimeters and hub receiving openings at their inner perimeters, a hub member mounted in each of said openings, a single cylindrical spacer member concentric with said openings engaging said side members intermediate said tire bead seats and said openings for spacing said side members apart axially, said spacer member being provided at one end thereof with an integral radial reinforcement member engaging said hub member.

2,327,045
CATALYTIC REACTOR
Lyman C. Huff, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application December 17, 1941, Serial No. 423,269
8 Claims. (Cl. 23—288)



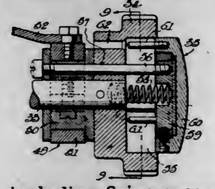
1. A reactor of the class described comprising, in combination, an elongated reactor shell, a plurality of trays disposed within said shell in superimposed spaced apart relation, each of said trays having a central inner and an outer defining wall with an annular space provided therebetween for the reception of a bed of granular contact material, a perforate false bottom defining the lower limit of said bed on each tray and an imperforate bottom wall spaced from said false bottom and extending between the inner and outer walls, a skirt-like baffle depending from and detachably secured to the bottom wall of each tray except the lowermost tray of the assembly and extending into the space occupied by said contact material on the succeeding lower tray, said inner wall on each tray comprising a lower section provided with openings therethrough, which communicate with the space between said bottom wall and false bottom, and an upper section detachably secured to said lower section.

2,327,046
INFLATION APPARATUS
Willson H. Hunter, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application April 10, 1941, Serial No. 387,827
10 Claims. (Cl. 137—69)



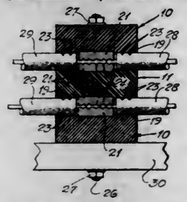
1. Apparatus for controlling the flow of air to and from inflatable elements, said apparatus comprising a rotor chamber, a rotor therein, means for rotating said rotor by quick-action, stop-motion to a plurality of successive positions, said chamber having a plurality of ports at successive circumferentially aligned positions for connection with respective inflatable elements and an additional port at another of said positions, said rotor having a passage therein opening at the periphery of the rotor for introducing air under pressure into said ports, said rotor having a space in its periphery for placing some of said ports in communication with the rotor chamber at some of said positions, and means in communication with said rotor chamber and said additional port for applying suction to said chamber upon discharge of air under pressure through said rotor into said additional port.

2,327,047
GUN-FIRING MECHANISM
Bryan P. Joyce, East Orange, N. J., assignor to American Armament Corporation, New York, N. Y., a corporation of Delaware
Application October 17, 1940, Serial No. 361,621
2 Claims. (Cl. 89—27)



2. In a gun including firing means and barrel-directing means, said barrel-directing means having a hand wheel by means of which it may be operated; a push button carried by said hand wheel and mounted for pushing movement with respect to said hand wheel and for turning movement with respect to said hand wheel, means operatively connecting said push button with said firing means for actuating the latter when said push button is pushed, safety means interposed between said push button and said hand wheel and controlled by turning movement of said push button with respect to said hand wheel, for locking said push button when this button is turned to one position and for releasing said push button when this button is turned to another position, and coacting indicating means on said hand wheel and push button for indicating said positions of said push button.

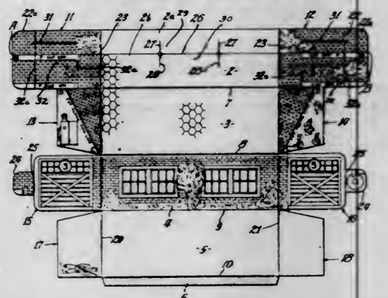
2,327,048
TERMINAL BLOCK
James Charles Joyce, Eagle Rock, Calif.
Application June 18, 1941, Serial No. 398,614
6 Claims. (Cl. 173—324)



1. A terminal block for holding an insulated conductor having a portion with the insulation removed, comprising separate block units adapted to lie face to face, said faces being formed with transverse semicircular conductor grooves, and metallic inserts disposed at a point in the length of each of said grooves and by which pressure is

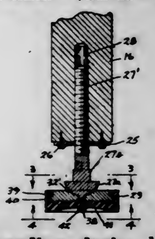
exerted upon the exposed length of a conductor disposed within the grooves and between the inserts to grip the same, the portions of the grooves at opposite ends of the inserts embracing and simultaneously gripping the insulation on said conductor.

2,327,049
CARTON
Albert B. Kner, Chicago, Ill., assignor to Container Corporation of America, Chicago, Ill., a corporation of Delaware
Application August 23, 1941, Serial No. 408,117
14 Claims. (Cl. 46—11)



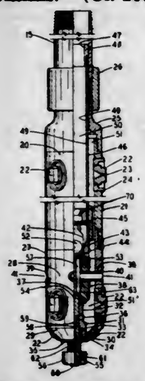
1. A carton of substantially parallelepiped shape and of the character described comprising, a pair of oppositely disposed rectangular panels forming side walls; a pair of oppositely disposed rectangular panels forming a top wall and a bottom wall, said top and bottom walls being of greater width than the side walls; a closure flap on each of the opposite ends of one of said side walls, each of said side wall closure flaps having a slit along the line of juncture of said side wall and its attached flaps and each slit terminating a predetermined distance from the opposite free edges of its flap; a closure flap on each end of the other of said side walls adapted to overlie all other closure flaps at its end of the carton, each of such closure flaps having a tucking tongue attached to its outer free edge for insertion into the slit in the opposite side wall end flap at such end of the carton; and a generally rectangular closure flap on each end of another of said walls, each of said last-mentioned flaps having a diagonal cutting line extending from a point on that of its free lateral edges which is adjacent to the side wall flap carrying a tongue outwardly to a point on one of its other free edges.

2,327,050
LEVELING DEVICE FOR SHUFFLEBOARD TABLES
Paul Kotler, Irvington, N. J.
Application March 20, 1940, Serial No. 324,923
1 Claim. (Cl. 45—139)



In a table leveling device having a rotative control screw connected with a stationary base plate having bevelled sides, a resilient material friction member mounted across the bottom of said base plate and having side portions extending over and gripping said bevelled sides, and having an arched bottom face, and ribs on said arched bottom face extending downwards to the plane of the outer rim of said bottom face.

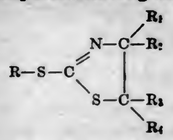
2,327,051
APPARATUS FOR TREATING WELLS
Orlin W. Lyons, Tulsa, Okla., and James H. Adkison, Midland, Tex., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
Application July 27, 1940, Serial No. 347,828
2 Claims. (Cl. 166—20)



1. An improved device for treating wells, which comprises a string of hollow tubing adapted to be lowered into a well hole and to conduct thereinto a fluid under pressure, a cylindrical housing connected to said tubing having a perforate tube longitudinally disposed therein dividing at least a portion of the same into an inner and outer chamber, nozzles disposed in the wall of said housing and in immediate communication with said outer chamber and adapted to eject therefrom in the form of jets a fluid supplied thereto under pressure, said housing having ports formed in the walls thereof in immediate communication with said inner chamber and adapted to eject therefrom in the form of an unrestrained stream a fluid supplied thereto under pressure, and means to open and close the communication between said chambers and said ports.

2,327,052
VULCANIZATION OF RUBBER
Roger A. Mathes, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application January 27, 1941, Serial No. 376,177
6 Claims. (Cl. 260—785)

1. The process of vulcanizing a rubber in the presence of a compound having the structure

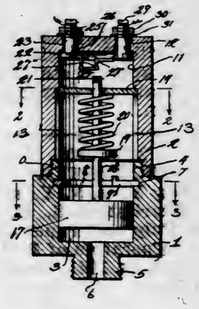


in which R is a member of the class consisting of 2-thiazyl, 2-(alkylthiazyl), 2-(alkoxythiazyl), 2-benzothiazyl, 2-(nitrobenzothiazyl), 2-(aminobenzothiazyl), and 2-(halobenzothiazyl) groups, and R_1, R_2, R_3, and R_4 are members of the class consisting of hydrogen, hydrocarbon, and alkoxy groups; and in the presence of a member of the class consisting of monocarboxylic acids and their metallic salts.

2,327,053
PRODUCTION OF HYDROXY ETHERS
Kenneth E. Marple, Edward C. Shokal, and Theodore W. Evans, Oakland, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application November 18, 1939, Serial No. 305,166
10 Claims. (Cl. 260—611)

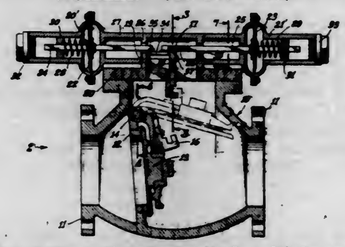
5. A monocyclopentyl ether of a polyhydric alcohol.

2,327,054
FLUID ACTUATED CIRCUIT CLOSER
Wilbert W. Mays, Middletown, Pa.
Application April 17, 1942, Serial No. 439,419
1 Claim. (Cl. 200—82)



A circuit closer unit comprising a pair of bodies, each having an axial chamber opening through one end, means detachably coupling the bodies together to axially join said chambers, a piston disposed within the chamber of one body and having an integral stem extending axially into the chamber of the other body, means for coupling the said one body with a source of fluid under pressure for the introduction of fluid into the chamber of the said one body between the piston and the adjacent end wall of the body, a split ring fitted within the chamber of the one body upon the opposite side of the piston from the fluid introducing means, the extremities of the split ring having inwardly directed fingers for limiting the operative movement of the piston, a pair of terminal posts extending through the end wall of the other body and each carrying upon its inner end a resilient contact finger, said contact fingers being arranged in end overlapping spaced relation upon the axial center of the chamber and in the line of the piston stem, one of said fingers being engaged by the piston stem upon movement of the piston under fluid pressure to bring said fingers into electrical contact, a guide member extending transversely of the chamber of the said other body and having the piston stem slidably extended therethrough, a collar integral with the piston stem and spaced from said guide, and a spring interposed between the collar and guide and constantly urging movement of the piston away from said contact fingers.

2,327,055
AUTOMATIC SHUTOFF VALVE
Michael McMahon, South Gate, Calif., assignor of one-half to Fred W. McRae, Los Angeles, Calif.
Application October 31, 1941, Serial No. 417,284
7 Claims. (Cl. 137—153)



6. An automatic shut-off for high and low pressure release comprising a body having a passage for fluid flow therethrough, a valve seat therein, a check valve hingedly mounted in the body urged to seat upon said seat, a latch disposed within said body engageable with the check valve for holding the check valve open, a pair of pressure-responsive means mounted on the body on opposite sides of the latch adapted to be influenced by the pressure within the body, a rod operable by one pressure-responsive means to engage with one side of the latch when pressure in the body is abnormally high to cause the latch to release the valve, and another rod operable by the other pressure-responsive means to engage the same side of the latch when the pressure in the body is abnormally low to cause the latch to release the valve and allow the valve to close.

2,327,056
COMBINED FLAGSTAFF AND FLAG STORAGE COMPARTMENT
Kenneth H. Nelson, Des Moines, Iowa
Application July 24, 1942, Serial No. 452,141
3 Claims. (Cl. 116—173)



2. A combined flag staff and storage compartment, comprising a tubular flag staff having an internal diameter sufficiently large to receive a furled flag, a short tubular guiding flange intercepting one side of said staff at an upwardly and inwardly inclined angle and at a point above its lower end, said flange and the compartment thereabove forming a continuous passage and storage compartment having its lower end terminating outside of said staff, a pulley supported in the upper end of said staff, an endless rope passed over said pulley having a portion passed downwardly through the storage compartment

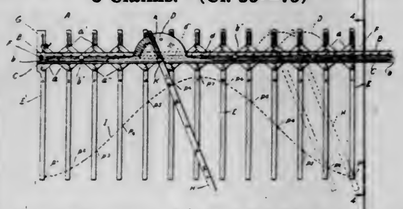
to a point below said flange and outside of said staff, thence upwardly to said pulley, a flag attached to said rope, a rope guide ring attached to the staff below the pulley through which the rope is extended, and a stop device fixed to the rope adjacent to the top of the flag to engage said ring and limit the upward movement of the flag.

2,327,057
TIRE TREAD
Chase F. Ofensend, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application May 29, 1941, Serial No. 395,799
9 Claims. (Cl. 152—209)



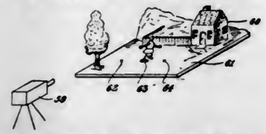
1. A tire having a tread comprising a plurality of tread elements of uniform width at the tread surface separated at the tread surface by grooves of uniform width at least some of which extend in undercut relation into the sides of the elements to provide lesser width of the elements at the undercut portions thereof than at their faces, the undercut portions terminating short of the extent of such elements.

2,327,058
INSTRUMENT FOR ESTABLISHING POINTS FOR DRAWINGS
Edward J. O'Keefe, Seattle, Wash.
Application October 28, 1942, Serial No. 463,708
3 Claims. (Cl. 33—75)



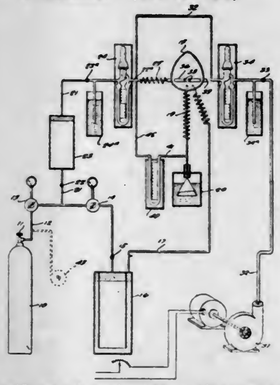
1. An instrument for establishing points for curved lines for laying out angle joints for sheet metal fittings, comprising lazy tongs, a plurality of bars pivotally connected to the tongs and extended below the same at right angles for determining widths of spaces over the surface to be marked, a rule adjustably connected to the tongs for retaining the bars in predetermined spaced relation with each other, the rule provided with a longitudinal slot, pins extended from the lazy tongs and slidably disposed through the slot for maintaining the rule and tongs in parallel relation, a dial plate slidably disposed over the rule provided with predetermined sets of numerals upon the upper portion thereof, an upturned flange along the lower margin of the rule for guiding and sustaining the plate in alignment with the rule, an arm pivotally mounted upon the plate and provided with a slot in the upper portion thereof for adjustment over the plate and for setting the arm in predetermined positions over the numerals thereon, the lower portion of the arm swingingly disposed beneath the rule for disposition over the bars, numerals marked upon the lower portion of the arm in predetermined spaced relation one above the other for determining positions for the arm in conjunction with the bars, for establishing the points to be marked along a predermined curved line for forming angle joints.

2,327,059
MOTION PICTURE
George Julius Pal, Beverly Hills, Calif.
Application June 7, 1940, Serial No. 339,241
3 Claims. (Cl. 88—16)



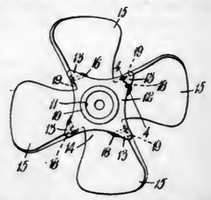
1. A method of making a motion picture depicting a predetermined sequence of movement of a series of puppets representing a character, each puppet having adjustable portions and registration members, comprising the steps of arranging the series of puppets with their registration members engaging complementary holes arranged in alignment on a support, viewing the series of puppets in the direction of alignment while individually adjusting the adjustable portions of the several puppets to the various stages of the predetermined movement by comparison, selectively placing the puppets in the scene to be photographed with the registration members engaging holes at appropriate locations in the scene, and individually photographing each puppet when in position.

2,327,060
ODORMETER
Arthur Pollak, New York, N. Y., and Thomas A. Willingham, Charleston, S. C., assignors to West Virginia Pulp and Paper Company, New York, N. Y., a corporation of Delaware
Application March 18, 1941, Serial No. 383,924
4 Claims. (Cl. 73—51)



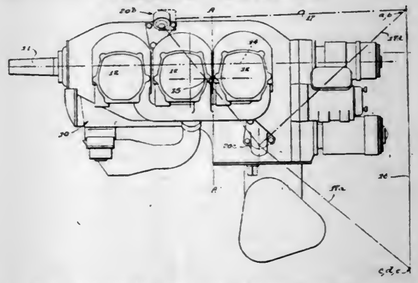
1. The method of estimating the concentration of odor in a gas, which comprises continuously diluting a stream of the gas to be tested with pure air, admitting substantially continuously to a region confining the nose of the operator, pure air for breathing from a source other than the ambient air, conducting the diluted gas to said confined region, momentarily displacing the air therein with said diluted gas while olfactorily testing same, varying the amount of dilution of said odorous gas until, when olfactorily tested in said confined region, the threshold value is reached, and measuring the degree of dilution of said gas at said threshold value.

2,327,061
FAN
Isidor N. Pollingher, Boston, Mass.
Application October 14, 1939, Serial No. 299,419
7 Claims. (Cl. 170—173)



7. A fan comprising a hub member formed entirely of moulded rubber and having a plurality of ears formed integral therewith, said hub member being recessed for expanded frictional application to a driving member, and a plurality of blades of soft flexible rubber secured to said hub member, each blade being bent somewhat spirally upon itself around an ear while being applied thereto to provide a pitch therefor.

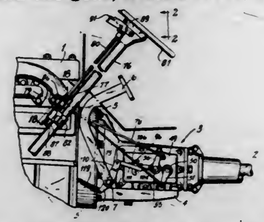
2,327,062
AIRCRAFT ENGINE MOUNTING
Charles I. Preston, Muskegon, Mich., assignor to Continental Motors Corporation, Detroit, Mich., a corporation of Virginia
Application February 15, 1941, Serial No. 379,047
9 Claims. (Cl. 248—5)



1. An aircraft engine mounting comprising yielding supports having their axes positioned substantially tangentially relative to a circle with a center lying in a vertical longitudinal central engine plane containing the crankshaft axis, half of said supports located to one side of said vertical longitudinal central engine plane and the remaining supports located at substantially the same distance to the other side of said longitudinal central engine plane, half of said supports located forward of the engine center of gravity and above the engine crankshaft while said other half of said supports are located rearwardly of the engine center of gravity and below the engine crankshaft.

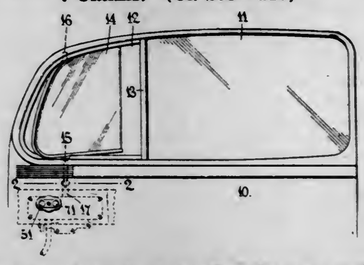
2,327,063
CHANGE SPEED TRANSMISSION AND CONTROL MECHANISM THEREFOR
Glenn T. Randol, St. Louis, Mo., assignor of forty per cent to William M. Liddon, Nashville, Tenn.
Application September 10, 1941, Serial No. 410,247
20 Claims. (Cl. 192—3.5)

8. In a change speed transmission and control mechanism for association with an engine and a main clutch having a clutch pedal, a driving shaft for connection to the engine through the main clutch, a driven shaft, a sleeve rotatably mounted on the driven shaft, a gear rotatably mounted on the sleeve, means for driving the gear from the driving shaft, a clutch element for connecting the sleeve to and disconnecting it from the driven shaft, a slidable double clutch element for alternately connecting the sleeve to the driving shaft and the gear, a hand lever, mechanism



for connecting the hand lever to engage and disengage the first named clutch element, and control means for the double clutch element operable by successive movements of the clutch pedal beyond clutch disengaged position for alternately causing said clutch element to connect the sleeve to the drive shaft and to the gear.

2,327,064
WINDOW OPERATOR
Anton Rappl, Buffalo, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.
Application January 15, 1941, Serial No. 374,524
7 Claims. (Cl. 268—117)

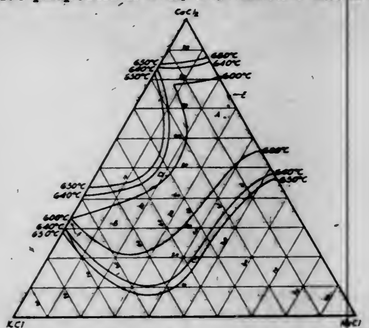


1. In combination, a window frame, a window pivoted thereto, a shaft extended from the window along the axis of the pivot, a chambered casing, a vane on the shaft and disposed within said casing for operation to angularly move the shaft and window about said axis, valve means mounted upon said casing for applying a fluid pressure differential to opposite faces of the vane to effect such movement, manual means operable for actuating the valve means, a latch normally holding the shaft against movement relative to the casing, and means operable by and during the operation of said manual means to positively move the latch to release the shaft for fluid actuation.

2,327,065
WELDING FLUX FOR MAGNESIUM BASE ALLOYS
Hans A. Reimers, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
Application August 30, 1941, Serial No. 409,043
3 Claims. (Cl. 148—26)

1. In a method of welding magnesium-base alloys, the improvement which consists in maintaining as a protective coating over the molten metal during welding a flux which consists of (a) a mixture of calcium chloride with at least

one member of the group consisting of sodium chloride and potassium chloride, the ingredients of said chloride mixture being present in such relative proportions that the mixture has a melt-



ing point less than 550° C., and (*b*) a fluoride in a proportion representing between about 0.5 and about 10 per cent by weight of the total composition, said flux being substantially free of heavy metal salts.

2,327,066

PRODUCTION OF OXYGENATED CARBON COMPOUNDS

Otto Roelen, Oberhausen-Holten, Germany; vested in the Alien Property Custodian

No Drawing. Application April 15, 1939, Serial No. 268,024. In Germany September 19, 1938

8 Claims. (Cl. 260—598)

1. The process of producing organic carbonyl compounds which comprises acting with carbon monoxide and hydrogen in the presence of a hydrogenation catalyst at a temperature ranging between about 40° and 200° C. and under a pressure ranging between about 20 and 300 atmospheres on an organic substance selected from the group which consists of the aliphatic and cyclic olefines.

2,327,067

COMBINE BALER

Stanley Russell, Racine, Wis., assignor to The Ohio Cultivator Company, Bellevue, Ohio, a corporation of Ohio

Original application October 15, 1936, Serial No. 105,650. Divided and this application June 10, 1940, Serial No. 339,672

3 Claims. (Cl. 100—24)



1. In a baling apparatus having a movable support for dropping boards, and latch means for releasing said support, control means for said latch means comprising a wall of a bale chamber having an opening therein, a bracket adjacent said opening, a support pivoted on the bracket and positioned above the opening, a toothed wheel mounted on the support and rotatable within the opening, means secured to said wall for slidably mounting the support with reference to said wall, means mounted on the first-named means for adjusting the position of the support with respect to said wall, and means secured to the toothed wheel adapted to operate the latch.

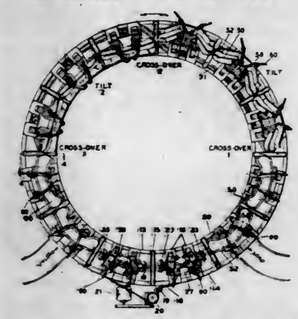
2,327,068

ASSEMBLY APPARATUS

Andrew E. Rylander, Detroit, Mich., assignor to The Midland Steel Products Company, Cleveland, Ohio, a corporation of Ohio

Application January 8, 1941, Serial No. 373,629

11 Claims. (Cl. 198—209)



1. A conveyor comprising a turntable, means for rotating the same, a work support mounted upon said turntable on an axis normal to the radius thereof, a circular track beneath said turntable, a pair of supporting rollers depending from said turntable and engaging said track, guide means cooperating with said track to form a cam slot therebetween with an offset therein, and an arm depending from the work holder operating in said cam slot for oscillating said holder from side to side at predetermined intervals as the turntable rotates.

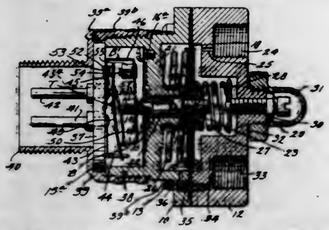
2,327,069

FUEL PRESSURE SWITCH

Howard A. Satterlee, Bryan, Ohio, assignor to The Arc Equipment Corporation, Bryan, Ohio, a corporation of Ohio

Application July 27, 1942, Serial No. 452,486

12 Claims. (Cl. 200—83)



1. In a fuel pressure switch, a housing having a threaded sleeve portion, a pressure operated actuating element therein located at the axis of the sleeve portion, a sub-housing threaded on said sleeve portion, a switch unit including a base of insulating material confined in position between the end of said sleeve portion and said sub-housing when said hub-housing is threaded on said sleeve portion, said switch unit further comprising a pair of circuit connecting elements projecting outwardly relative to said base, and snap switch mechanism on the inner surface of said base comprising a pivot bracket secured to said base at one of said circuit connecting elements, a second pivot bracket secured to said base at the other of said circuit connecting elements and carrying a stationary contact, a toggle spring connected between the two pivot brackets and carrying a movable contact, one of said pivot brackets having a movable portion constrained

by the inherent resiliency of the bracket to engage said pressure operated actuating element to be moved by the actuating element as it moves, the movement of said last bracket effecting shifting of the pivot point thereof and thereby of said toggle spring across center to change the circuit controlling position of the switch, means for adjusting the differential of said switch comprising an adjustable stop on said last bracket limiting the degree of movement of said toggle spring, and means to adjust the position of said last bracket with relation to said pressure operated actuating element comprising a screw threaded in said last bracket for contact with said pressure operated actuating element.

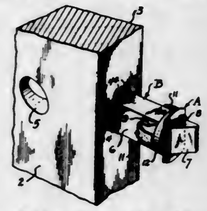
2,327,070

FACEPLATE

Walter R. Schlage, Burlingame, Calif., assignor to Schlage Lock Company, San Francisco, Calif., a corporation of California

Application February 17, 1941, Serial No. 379,186

6 Claims. (Cl. 292—337)



1. A device of the character described comprising a face plate having an opening formed therein to receive and guide a latch bolt, a pair of arms formed one on each side of the plate and extending rearwardly therefrom, a flexible finger on each arm, and a collar supported by the arms and engageable with the rear face of the face plate.

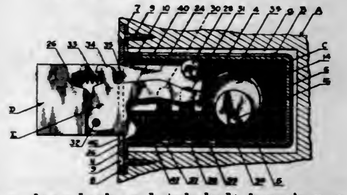
2,327,071

DOOR LOCK

Walter R. Schlage, Burlingame, Calif., assignor to Schlage Lock Company, San Francisco, Calif., a corporation of California

Application June 7, 1941, Serial No. 397,058

10 Claims. (Cl. 70—129)



2. In a door lock, a latch bolt housing, a latch bolt and a connected retractor plate slidably mounted in said housing, a second housing extending transversely through the latch bolt housing, a transverse slot formed in said second housing through which the retractor plate extends to secure the second named housing against removal from the latch bolt housing, a rollback member carried by the second named housing and engageable with the retractor plate to project or retract the latch bolt, a stop lug in the latch bolt housing, and means on the retractor plate engageable with the stop lug to limit projection of the latch bolt and prevent the retractor plate from passing out of the transverse slot formed in the second named housing.

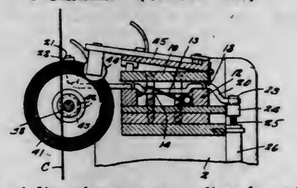
2,327,072

VIOLIN PIANO

Erick Silen, Kelso, Wash.

Application September 28, 1942, Serial No. 459,999

3 Claims. (Cl. 84—256)



1. In a violin piano, a sounding board, strings supported adjacent thereto, spaced alined shafts, means for rotating one of the shafts, an interposed shaft detachably connected to and rotatable with the alined shafts, means for detachably connecting the interposed shaft to the alined shafts, a bowing disk adjacent to each of the strings, all of the disks being adjustably mounted on the interposed shaft, and means for separately flexing the respective disks for contact with the adjacent strings.

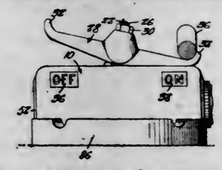
2,327,073

SOLDERING IRON HOLDER AND CIRCUIT CONTROL

Ralph Smith, Jr., Trail, British Columbia, Canada

Application May 12, 1942, Serial No. 442,704

2 Claims. (Cl. 219—23)



2. A device of the type described comprising a support, an electric soldering iron switch mounted on the support, a soldering iron rest having a pivotal connection with said support, said rest including two arms projecting in opposite directions from said pivotal connection, an operating connection between said rest and said switch to close the switch when the rest is pivoted in one direction by placing the soldering iron on one of said arms and to open the switch when the soldering iron is placed on the other arm, said arms including abutments at their ends for holding the soldering iron on the arms, and said arms in their respective switch closing and opening positions having engagement with said support, said arms being located at such height as to support one end of the soldering iron when the other end is rested on a surface on which said first mentioned support is rested.

2,327,074

CHUCK

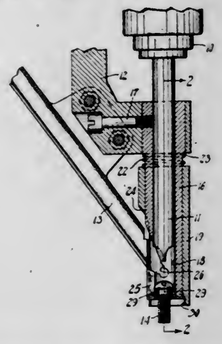
Floyd C. Snyder, Akron, Ohio

Application July 26, 1940, Serial No. 347,622

4 Claims. (Cl. 144—32)

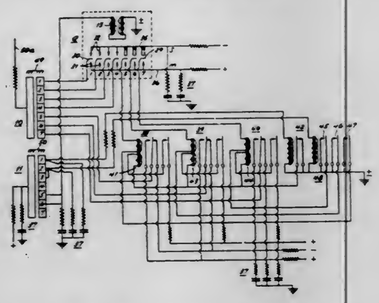
1. In a chuck for screw driving apparatus, the combination of a tubular quill positioned about the screw driver bit and movable axially relatively thereof, radially extending bores through the lower end portion of said quill, respective ball detents in said bores adapted to project partly into the axial bore of the quill to retain a screw therein, the inner ends of said radial

bores being slightly constricted to prevent the balls from completely passing therethrough, and a sleeve slidably mounted on the quill and having limited axial movement relatively thereof, said sleeve extending over said radial bores and normally engaging said balls to hold them positively partly within the axial bore of the quill, said sleeve having a local region of increased inside



diameter, which region is disposed opposite the outer ends of the radial bores of the quill in one position of the sleeve to enable the ball detents to move outwardly in their bores and thus to release a screw, said sleeve normally extending beyond the lower end of the quill so as to be moved relatively of the latter by engagement with the work before the screw is fully driven.

2,327,075
SIGNAL STORAGE IN TELEGRAPH PRINTER SYSTEMS
James A. Spencer, Teaneck, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application September 17, 1940, Serial No. 357,109
5 Claims. (Cl. 178—17)

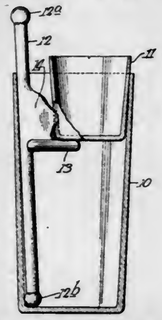


1. In a signaling system, a distributor having a plurality of commutator segments, a code transmitter having a plurality of switch arms, and switch contacts connected to a potential of one polarity, means for moving said switch arms against said contacts, a plurality of relays each having an operating coil with one terminal connected to one of said switch arms and the other terminal adapted to be connected to a potential of opposite polarity, a switch tongue connected to one of said commutator segments, a make contact adapted to be connected to a potential of the first-mentioned polarity and a break contact connected to a potential of the second-mentioned polarity.

2,327,076
GLAZED POTTERY
Johann Martin Stangl, Flemington, N. J., assignor to Fulper Pottery Company, Flemington, N. J., a corporation of New Jersey
No Drawing. Application December 27, 1940, Serial No. 372,019
4 Claims. (Cl. 117—118)

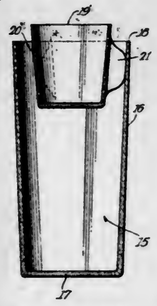
1. Pottery ware comprising a base formed of ceramic material containing pyrophyllite, said base being covered by a tin oxide containing glaze which is semi-opaque due to the presence of a limited precipitate of a product formed by reaction between the base and glaze during the firing operation.

2,327,077
BEVERAGE SERVING DEVICE
Herman Teetor, Hagerstown, Ind.
Application June 5, 1939, Serial No. 277,410
6 Claims. (Cl. 65—13)



3. A swizzle stick or beverage mixing device, which comprises an elongated mixing member of such length that one end is adapted to seat upon the bottom of a receptacle with its other end projecting from the receptacle, a horizontal shelf-like portion between the ends of said member adapted to receive the bottom of a receptacle, and another portion extending upwardly from said shelf-like portion and having a curved surface adapted to embrace the side wall of a receptacle.

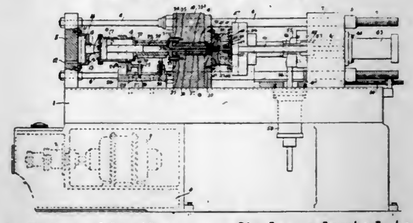
2,327,078
BEVERAGE SET
Herman Teetor, Hagerstown, Ind.
Application June 5, 1939, Serial No. 277,411
6 Claims. (Cl. 65—13)



1. A beverage set comprising a receptacle having an open top and an interiorly tapered side wall, a second receptacle having an open top and a closed bottom and of such size that it may readily be inserted within the open top of said first receptacle, and exterior, radially extending, angularly spaced elements on said second receptacle adapted to frictionally engage the inner side wall surface of said first receptacle when said second receptacle is inserted therein to a predetermined depth for supporting said second receptacle solely under its own weight and the weight of its contents, if any, within and in spaced relation to the side wall of said first receptacle with the open top portion thereof accessible at the open top of said first receptacle.

5. A jigger for use with an open-ended setup receptacle having an interiorly tapered wall, said jigger comprising a generally cylindrical body portion open at one end and closed at its opposite end; and a series of circumferentially spaced longitudinally extending wings on the exterior of said body portion, said wings having edges cooperable with the upper portion of the interiorly tapered wall of said setup receptacle for supporting the jigger in the upper portion of said setup receptacle.

2,327,079
METHOD OF EXTRUSION MOLDING
George W. Wacker, Cincinnati, Ohio, assignor to The Grotelite Company, Bellevue, Ky., a corporation of Kentucky
Application March 12, 1938, Serial No. 195,591
20 Claims. (Cl. 18—55)

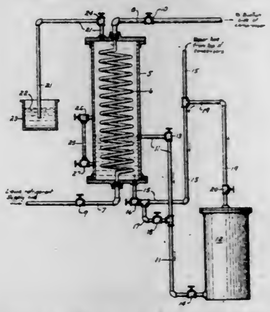


1. In combination, a cylinder adapted to receive a cartridge at one end and having an extrusion opening at the other, a cartridge slidable within said cylinder and having inwardly flanged ends for retaining end walls therein, a reciprocating plunger adapted to fit within the end opening in said cylinder and to drivingly engage an end wall of the cartridge to advance same into the cylinder, spring hooked fingers mounted on said plunger adapted to engage with the inwardly flanged ends of said cartridge to withdraw the same from the cylinder upon a retraction stroke of the plunger, and means to cause said fingers to release said cartridge at the end of the withdrawal stroke.

2,327,080
POLYMERIZATION OF CONJUGATED DIENES
Joseph Frederic Walker, Lewiston, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 14, 1940, Serial No. 361,113
8 Claims. (Cl. 260—80)

7. The process which comprises subjecting a conjugated diene compound selected from the group consisting of butadiene, isoprene, dimethyl butadiene, chloroprene, alpha-cyanoprene, 1,2-dihydrobenzene and cyclopentadiene to the polymerizing action of an alkali metal in the presence of a saturated, aliphatic, acyclic polyether having not more than one ether oxygen attached to any one carbon atom.

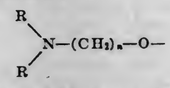
2,327,081
AIR PURGER
Roscoe E. Walters, Oklahoma City, Okla.
Application November 6, 1941, Serial No. 417,977
9 Claims. (Cl. 62—115)



1. The combination with a refrigeration system which includes a compressor, refrigerant condensers, and a refrigerant receiver tank, of: a gas receiver tank having a cooling coil therein; an open gas line connecting the tops of said condensers with the interior of said gas receiver tank; an open overflow line affording flow of liquid refrigerant from an intermediate level within said gas receiver tank into the lower end of said refrigerant receiver tank; and a valved line affording a desired escape of gas from the upper interior of said gas receiver tank.

2,327,082
POLYMERIZATION OF STYRENE
Joseph Frederic Walker, Lewiston, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 5, 1942, Serial No. 445,985
7 Claims. (Cl. 260—91)

1. The process comprising subjecting styrene to the polymerizing action of an alkali metal in the presence of an ether selected from the group consisting of: (*a*) saturated, aliphatic, acyclic polyethers having not more than one ether oxygen attached to any one carbon atom, and (*b*) saturated, aliphatic, tertiary amino mono- and polyethers containing at least one group represented by the formula

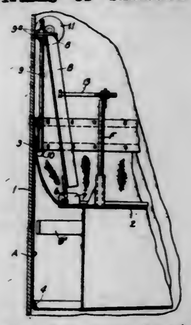


wherein R is an alkyl group having not more than 3 carbon atoms and *n* is the integer 1 or 2 said tertiary amino monoethers having not more than 7 carbon atoms and said tertiary amino polyethers being those in which the ratio of carbon atoms to the sum of the nitrogen and ether oxygen atoms is not greater than 5:1, any alkylene group present in said tertiary amino mono- and polyethers, which group is not attached to a nitrogen atom, containing not more than 3 carbon atoms.

2,327,083
SIDE WALL SEAL FOR FLOATING TANK ROOFS
John H. Wiggins, Chicago, Ill.
Original application December 21, 1938, Serial No. 247,031. Divided and this application January 2, 1941, Serial No. 372,865
1 Claim. (Cl. 220—26)

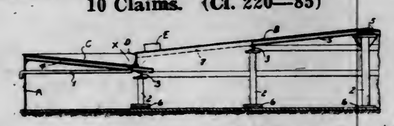
A floating tank roof side wall shoe of the type

consisting of a relatively tall or deep, vertically-disposed, tubular member arranged in parallel relationship with the side wall of the tank, said shoe comprising an arc-shaped, circumferentially-flexible frame of skeleton construction,



comprising horizontal bars located at the top and bottom edges of the shoe, and a web piece of relatively light weight, circumferentially-flexible sheet material permanently attached to said frame and disposed vertically in parallel relationship with the side wall of the tank.

2,327,084
BREATHER TYPE STORAGE APPARATUS FOR GASES AND VOLATILE LIQUIDS
John H. Wiggins, Chicago, Ill.
Application March 15, 1941, Serial No. 383,525
10 Claims. (Cl. 220—85)



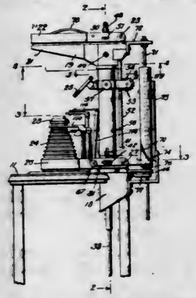
1. A breather type roof for storage tanks, comprising a central portion of less radius than the tank side wall and a flexible peripheral portion of substantially annular form arranged beyond or outside of said central portion, said peripheral portion having its outer edge attached to the top edge of the tank side wall, and an annular rim of substantial weight, extending continuously around the roof and attached to the outer edge of said central portion and to the inner edge of said peripheral portion so as to impose a downward force or load on the inner edge of said peripheral portion, that tends to prevent said inner edge from rising or moving upwardly bodily, until after said peripheral portion has been placed under considerable tension by the pressure of the gases confined in the tank.

2,327,085
BREATHER TYPE TANK
John H. Wiggins, Chicago, Ill.
Application January 27, 1942, Serial No. 428,422
7 Claims. (Cl. 220—85)



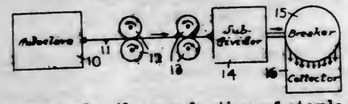
1. A breather type roof for storage tanks, comprising a central portion of less radius than the tank side wall, and a flexible peripheral portion of substantially annular form arranged beyond or outside of said central portion, said peripheral portion having its outer edge attached to the top edge of the tank side wall, a vertically-disposed rim interposed between said central portion and peripheral portion and attached in a gas-tight manner to the adjacent edges of said portions, and a structure in the tank, on which the roof is erected, movably mounted on the bottom of the tank and fastened to the roof so as to impose a load on same when the central portion of the roof rises.

2,327,086
AUTOMATIC MINIATURE ENLARGER
Carl E. Young Berg, Los Angeles, Calif.
Application January 27, 1939, Serial No. 253,190
2 Claims. (Cl. 88—24)



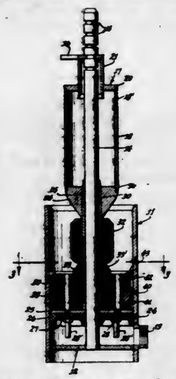
1. Photographic apparatus as described comprising in combination a fixed table having a light aperture for a negative, a light source below said table, a pedestal secured to said table, a platen having a light aperture for a positive slidably mounted on said pedestal and having a rack bar, a manually actuated pinion on said pedestal adapted for vertical adjustment of said platen, lens means pivotally supported on said table, a cover plate for said platen pivotally connected thereto, rod means in said pedestal connected to said cover plate and said lens means support, said rod means comprising a pair of telescoped tubes and a cam member adapted to effect adjustable friction engagement between the tubes, pedal actuating means for said rod, spring means operatively connected to said rod adapted to retain said cover plate and lens means in elevated position with respect to said platen and table respectively, said cover plate and lens means being adapted to be brought into contact with said platen and table respectively when said pedal is actuated, said light source adapted to be established when said pedal is actuated and to be extinguished when said pedal is released.

2,327,087
MANUFACTURE OF STAPLE FIBERS
Paul Rolland Austin, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application December 18, 1940, Serial No. 370,731
7 Claims. (Cl. 18—54)



1. A process for the production of staple fibers of varying cross-sectional areas from synthetic linear polyamide which comprises forming a sheet of said polyamide, imparting orientation thereto preponderantly in a given direction and subjecting said oriented polyamide sheet to violent impact while said sheet is in a relatively free and unsupported state thereby breaking said sheet along the lines of said preponderant orientation into staple fibers having rough surfaces and varying cross-sectional diameters.

2,327,088
APPARATUS FOR INSTALLING PROTECTORS ON DRILL PIPE
Byron H. Barnes, San Marino, and Burt S. Miner, Whittier, Calif., assignors to B. H. Barnes and Harriet C. Barnes, both of San Marino, Calif.
Original application November 12, 1940, Serial No. 365,156. Divided and this application March 9, 1942, Serial No. 433,924
11 Claims. (Cl. 29—88.2)

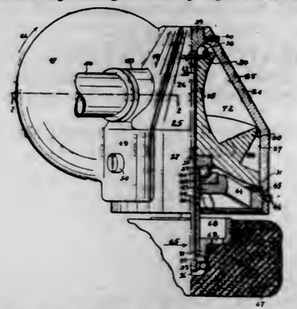


1. In apparatus for expanding and applying an expansible collar to a member of larger diameter than the bore of the collar, a piston and cylinder mechanism; a collar guide member associated with the movable element of said piston and cylinder mechanism and movable therewith, said guide member being adapted to accommodate a collar to be applied and a pusher collar interposed between the collar to be applied and the movable element of said piston and cylinder mechanism; a tapered member providing a path of enlargement from the bore of the collar to the outer surface of the member to which the collar is to be applied, said tapered member having a bore of sufficient size to slidably receive said guide; and means cooperating with said piston and cylinder mechanism and said member to which the collar is to be applied to prevent said member from moving away from the stationary element of said piston and cylinder mechanism.
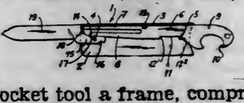
2,327,089
ROTARY DEVICE FOR POSITIVE FLUID ACTION
Walter Bejeuhr, Bronx, N. Y., assignor to American Turbotor Corporation, New York, N. Y., a corporation of New York
Application August 5, 1940, Serial No. 351,469
24 Claims. (Cl. 121—71)

9. In a device of the character described, a housing having a conically recessed body, a rotor journalled in said housing and having a conical surface fitting said body, and a notched valve disc revolubly mounted in said housing and meshingly extending therefrom into a helically disposed groove in said surface of the rotor.

24. A portable rotary device for positive fluid action comprising a grooved rotor and a valve shaped to engage upon each other in gear fashion, a housing rotatably supporting said rotor and valve in mesh with each other and contiguously closing over said rotor and valve but clearing the grooves of said rotor and valve, and a rigid conduit opening directly upon the rotor surface and into the rotor grooves, extending to the outside of the device and serving for a means through which a pressure fluid is supplied as well as for a handle for manipulating the device as a whole.

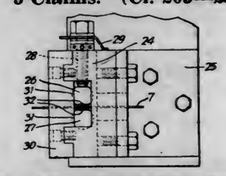


2,327,090
POCKET TOOL
Martin Berg, Brooklyn, N. Y.
Application December 5, 1942, Serial No. 467,929
4 Claims. (Cl. 30—159)



1. In a pocket tool a frame, comprising a handle having two side portions and pin members connecting said side portions, a spring operated tool member having a tang pivoted on one of said pin members, a rest on each of the front and rear edges of said tang, and a two pronged fork member, one prong of said fork constituting a spring member, an extension engageable with said rest on the upper and lower face, respectively, of the back end of the tool member for keeping said tool in its closed and open position, said fork member being longitudinally slidable along the second of said pin members.

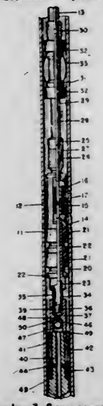
2,327,091
METAL FORMING APPARATUS
Harry Blount, Baltimore, and Carl V. Lundeen, Towson, Md., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application April 8, 1942, Serial No. 438,152
5 Claims. (Cl. 205—25)



1. A strip sizing apparatus comprising a die housing, a rectangularly recessed portion formed in said die housing, a removable member associated with said die housing and cooperating therewith to form rectangular slotted portions, a pair of cylindrical dies, the ends of said dies being squared to fit into said slotted portions and to be movable longitudinally with respect thereto to adjust the separation between the dies,

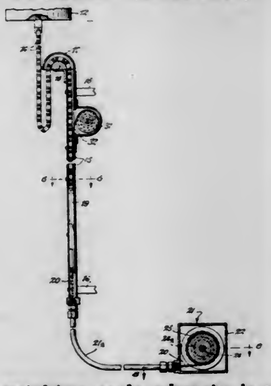
means for limiting said longitudinal movement, and a number of axially extending inserts of wear resistant material positioned in the surfaces of the dies.

2,327,092
APPARATUS FOR CEMENTING WELLS
John W. Botkin, Nocona, Tex., assignor to Halliburton Oil Well Cementing Company, Duncan, Okla.
Application April 21, 1941, Serial No. 389,536
1 Claim. (Cl. 166—1)



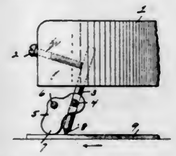
Apparatus adapted for use in squeeze cementing through perforations in casing in a well, comprising a conduit, a circulation sub operable by manipulation of said conduit to connect the interior to the exterior of said conduit if desired, a back-off safety joint in said conduit below said circulation sub, a packer assembly secured to said conduit beneath said safety joint and adapted to be removed from the well with said conduit, a bridge plug located beneath said packer assembly and adapted to be fixed to the casing, said bridge plug having means associated therewith for setting the same hydraulically, and means temporarily securing said bridge plug to said packer assembly.

2,327,093
COMPENSATOR FOR AUTOMATIC SCALES
Howland F. Briggs, Buffalo, N. Y., assignor to Consolidated Packaging Machinery Corporation, Buffalo, N. Y., a corporation of New York
Application June 14, 1940, Serial No. 340,457
13 Claims. (Cl. 265—60)



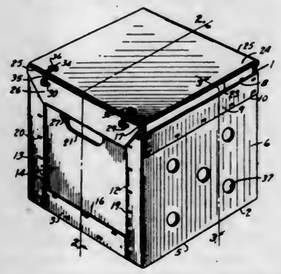
1. In a weighing scale wherein is provided a frame, a weigh beam fulcrumed on said frame, a weigh bucket fulcrumed on one end of said weigh beam, and a counterweight pivotally carried by the other end of said weigh beam; means for varying the effective weight of said counterweight and including a relatively long flexible weighing element having one end dependably fastened to said counterweight, means carried by said frame for supporting said flexible element in a pendant loop and for varying the length of said pendant loop, said last named means including a vertically disposed housing adapted to receive the end of said flexible element and having an arcuate supporting surface provided at the upper end thereof and over which said flexible element is adapted to ride, and actuating devices associated with said housing for adjusting the position of that end of the flexible element retained therein to thereby effect a change in length of said pendant loop.

2,327,094
PHONOGRAPH NEEDLE AND RECORD PROTECTOR
Pliny Catucci, Kearny, N. J.
Application April 28, 1942, Serial No. 440,861
2 Claims. (Cl. 274—25)



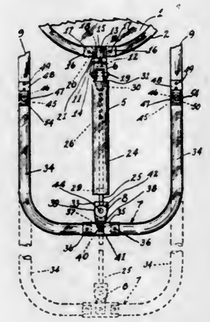
1. A needle having an end adapted to be inserted into the tone arm of a phonograph, and having a second end terminating in a point adapted to be received in a phonograph record groove, an arm of L-shaped outline pivotally secured at one end to said needle, and an element carried by said arm between the pivoted and free ends thereof, said element being adapted to engage the needle to limit pivotal movement of the arm on the needle in one direction so as to suspend the arm on the needle with the free end of the arm below the needle point, to prevent contact of the needle point with a record on which the needle and its suspended arm are adapted to be positioned until, on rotation of the record, the arm is pivoted away from the needle point, to allow the latter to contact the record groove.

2,327,095
BOX
James F. Cleary, Kansas City, Mo.
Application May 22, 1939, Serial No. 274,978
2 Claims. (Cl. 229—23)



1. A box of the character described including, a body member having a bottom wall and pairs of side and end walls, the upper ends of one of said pairs of walls being of greater height than the upper ends of the other pair of walls, the upper edges of said walls of lesser height having outwardly directed exteriorly arranged downturned flanges for bracing said walls, downturned pocket flanges on the upper ends of the walls of greater height, said pocket flanges having secured ends and unsecured lower edges respectively, and closure members each having tuck flanges at one end thereof only removably engageable in the pockets between the pocket flanges and their respective walls, and arranged for substantially coextensive overlapping engagement with each other to form a top wall for the box of double thickness, the lower closure member having seating engagement on the upper edges of both walls of greater height for supporting said closure and allowing ventilation of commodities packed in said box.

2,327,096
TOILET ACCESSORY
Herbert C. Dann, New York, N. Y., assignor to Crystal Plastic Corporation, New York, N. Y., a corporation of New York
Application October 29, 1941, Serial No. 416,959
4 Claims. (Cl. 88—101)



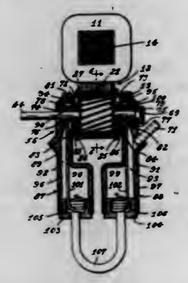
1. A device of the character described, comprising a mirror having at least one reflecting surface, a frame for said mirror having a recess, a substantially U-shaped base element for said mirror having a similar shape and size as said mirror, a standard for said mirror, a first joint element for connecting said mirror with said standard, said joint element comprising two rotatably connected sections, a flange having an opening provided on one of said sections and engaging the recess in the frame of said mirror, a bolt passed through the opening of said flange for connecting the flange bearing section of said joint element pivotally with said frame, a forked flange provided on the other section of the joint element adapted to engage said standard, a bolt for connecting said forked section pivotally with said standard, a second joint element for connecting said base element with said standard, said second joint element comprising a forked flange for pivotally engaging said standard and a cylindrical flange for rotatably engaging said base element and a flexible holder for securing said base element to the body of the wearer detachably connected with the arms of said U-shaped base element.

2,327,097
METHOD OF TREATING TWISTER GEARS FOR WIRE FABRIC-MAKING MACHINES
William W. De Lamatter, Cleveland, Ohio, assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
Application January 25, 1940, Serial No. 315,591
4 Claims. (Cl. 76—101)



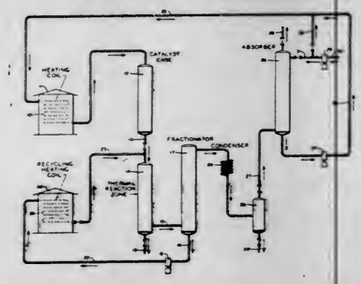
1. A method of treating a twister gear for a wire fabric-making machine, including forming a hole axially through the gear, placing a hard metal insert in this hole and fixing the insert permanently in the hole by placing a curved wire at the juncture of the insert and gear, tying this curved wire in place with wire having a higher melting temperature than the curved wire and heating the gear to a temperature above the melting temperature of the curved wire and below the melting temperature of the tying wire.

2,327,098
LUBRICATED BEARING FOR MOTORS AND THE LIKE
Jack Delmonte, Glendale, Calif., assignor to Chicago Flexible Shaft Company, Chicago, Ill., a corporation of Illinois
Original application October 13, 1939, Serial No. 299,246, now Patent No. 2,245,433, dated June 10, 1941. Divided and this application June 7, 1941, Serial No. 397,064
8 Claims. (Cl. 308—132)



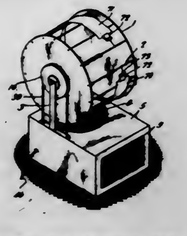
1. A lubricated bearing structure for a shaft adapted for application to a supporting structure, said bearing structure comprising a combined bearing and lubrication assembly unit for application to each side of the supporting structure and a flexible tube connecting the units, each unit comprising a bearing for the shaft, a bracket in which the bearing is mounted, the bracket being shaped for attachment to the supporting structure in precision relation thereto, the bracket having a chamber around its bearing and a depending lubricant reservoir communicating with said chamber, a wick in the reservoir extending into said chamber and arranged for supplying lubricant to the shaft bearing by capillary action, said tube connecting the lower end of one reservoir to the lower end of the other and permitting through its flexibility relative displacement of one unit with respect to the other.

2,327,099
CONVERSION OF HYDROCARBONS
Du Bois Eastman, Port Arthur, Tex., assignor, by mesne assignments, to The Texas Company, New York, N. Y., a corporation of Delaware
Application November 9, 1940, Serial No. 365,656
3 Claims. (Cl. 196—49)



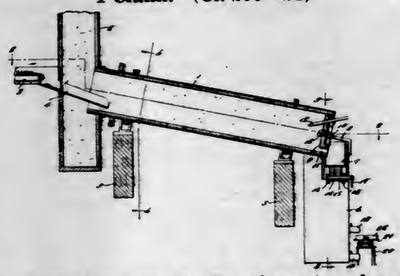
3. In the manufacture of high antiknock gasoline, the process that comprises passing raw charging stock in single pass through a heating coil in which the oil is vaporized and heated to a cracking temperature, directing the heated vapors in single pass through a catalyst chamber wherein the oil is subjected to cracking temperature in the presence of a catalyst adapted to promote conversion into lower boiling hydrocarbons of the gasoline boiling range, removing the resultant cracked products from said catalyst chamber and directing said products to a subsequent thermal cracking zone, heating cycle condensate to a cracking temperature in a heating zone and delivering the heated condensate into said subsequent thermal cracking zone wherein the admixed products are maintained at a cracking temperature of the order of 850° F.–925° F. and subjected to conversion, separating the resultant products of conversion into vapors and residue, fractionating the separated vapors to separate a reflux condensate from lighter products, and directing said reflux condensate to said heating zone as said cycle condensate.

2,327,100
FILM DRIER
Francis C. Frey, Los Angeles, Calif.
Application October 15, 1940, Serial No. 361,246
2 Claims. (Cl. 34—122)



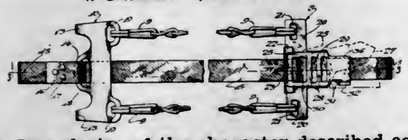
1. In a film drier, a housing, uprights extending from the housing, means forming in cooperation with the housing, rests for the uprights from which rests the uprights may be removed, a reel exposed to the atmosphere and having a shaft rotatably supported by the uprights, a motor in the housing for driving the reel, and means for forcing air outwardly of the housing and in a general radial direction to the axis of the reel.

2,327,101
ORE FURNACE
William B. Fulton, Gate City, Va.
Application March 7, 1942, Serial No. 433,778
1 Claim. (Cl. 266—24)



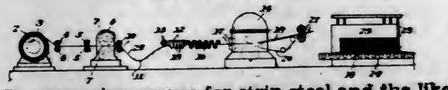
An ore furnace of the character described comprising a rotary, inclined cylinder for the reception of material, means for discharging material into said cylinder at the upper end thereof, means adjacent the lower end of the cylinder for receiving the material therefrom, means for heating the material in the cylinder, a pair of rails at the lower end of the cylinder projecting longitudinally thereinto, and a wheel supported closure for the lower end of the cylinder operable on said rails and engageable in said cylinder.

2,327,102
BUCKLE
George J. Gilmore, Chicago, Ill.
Application June 19, 1942, Serial No. 447,651
2 Claims. (Cl. 24—193)



2. In a device of the character described comprised of buckle means and hasp means, locking means comprising, a U shaped portion having legs of uneven length, slotted means in the longer leg portion, and angularly notched means on said hasp means engaging the said slotted means to releasably retain the said hasp means and the said buckle means in locked engagement.

2,327,103
MEANS FOR PROCESSING STRIP METAL
Harry E. Gude, Gary, Ind., assignor to Carnegie-Illinois Steel Corporation, a corporation of New Jersey
Application August 3, 1942, Serial No. 453,475
1 Claim. (Cl. 164—61)



In processing means for strip steel and the like means for uncoiling the strip, a trimming and slitting shear for edging and slitting the strip into a plurality of strips, a separator between the plurality of strips and edge guides therefor, said separator and edge guides coacting to guide the plurality of strips in parallelism, a shear for simultaneously shearing said strips to length into sheets, piling means for separately piling the sheets from each of said strips, and means for continuously driving the strip steel through all of said devices in the order stated.

2,327,104
POWER TRANSMISSION BELT
Charles B. Gudebrod, Wayne, Pa.
Application September 19, 1941, Serial No. 411,523
5 Claims. (Cl. 74—238)

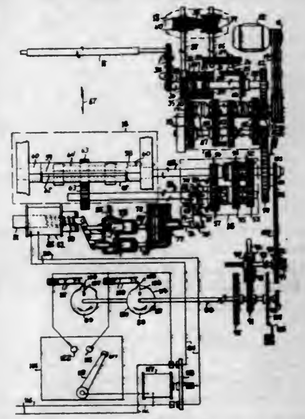


1. A power transmission belt of the character described comprising a core including a strand of yarn made from spun glass fibres twisted together, and a sheath encasing and grippingly engaging said core.

2,327,105
PEST CONTROL
Hubert G. Guy, Newark, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application May 8, 1940, Serial No. 333,929
1 Claim. (Cl. 167—24)

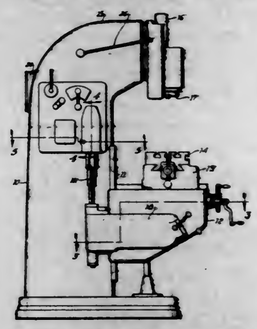
A self-dispersible composition comprising a substantially anhydrous liquid vehicle containing in clear solution rotenone, tetraethylthiuram monosulfide and an amine salt of a higher alcohol sulfate, said vehicle being constituted principally of plant spray oil and containing brown camphor oil and a water-insoluble liquid alcohol in the amounts required to blend and solubilize the rotenone and the amine salt in said oil.

2,327,106
FLYING CUTTING DEVICE
Karl W. Halliden, Thomaston, Conn.
Application September 12, 1942, Serial No. 458,073
6 Claims. (Cl. 164—49)



6. A flying cutting device comprising: cutter-means including two complemental cutters, and two cutter drive-shafts, one for driving each cutter; feed-means for feeding stock to be cut, to said cutters; adjustable first gearing-means adapted to interconnect said feed-means and one of said cutter drive-shafts, and adapted to be adjusted to vary the relative speeds of said feed-to cutting position when the other cutter moves to cutting position, to again cut stock being fed; and third gearing-means including second clutch-means, adapted to interconnect said two means and said one cutter drive-shaft; second gearing-means including a gear and first clutch-means clutchable to and unclutchable from said gear, adapted to interconnect said two cutter drive-shafts and adapted to cause said one cutter drive-shaft to drive the other cutter drive-shaft, the speed of rotation of said gear and of said other cutter drive-shaft being half the speed of rotation of said one cutter drive-shaft so that said cutters cut stock being fed, only at each alternate rotation of said one cutter drive-shaft while said drive-shafts continuously rotate, to cause a miscut between each two cuts; pre-settable clutch-actuating means adapted to automatically actuate said clutch-means to periodically unclutch it from driving relation with said gear to cause one cutter to be non-driven and out of cutting position when the other cutter moves to cutting position and when said one cutter would otherwise have been in cutting position, to cause a no-cut, and adapted to automatically actuate said clutch-means back to clutched position periodically to cause said one cutter to move cutter drive-shafts when said first clutch-means is unclutched and adapted to cause said drive-shafts to rotate at one-to-one speed ratio so that said cutters cut stock being fed, at each rotation of said drive-shafts.

2,327,107
MILLING MACHINE
Fred A. Hassman, Cincinnati, Ohio, assignor to The Cincinnati Milling Machine Co., Cincinnati, Ohio, a corporation of Ohio
Application April 3, 1941, Serial No. 386,695
10 Claims. (Cl. 90—21)



1. In a machine tool having a fixed support, a movable support and a drive shaft extending from the fixed support to the movable support for translating the latter, the combination of a source of power located in the fixed support, a manual control mounted on the movable support, a telescoping tube surrounding and protecting said drive shaft, and motion transmitting connections including said tube extending from the manual control to the fixed support for connecting said source of power for operation of the drive shaft.

2,327,108
FILM HOLDER
Don Heyer, Hollywood, Calif.
Application September 16, 1940, Serial No. 356,950
9 Claims. (Cl. 88—18.7)

1. A holder for a coil of film comprising, a web

member having a flange adapted to engage the inner periphery of a coil of film, said web member having a second flange on its outer periphery, and a second web member extending from said second flange member, means holding said film



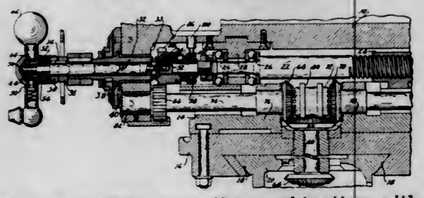
in the form of a coil on the first mentioned flange member, and means holding a predetermined length of film around said second mentioned flange member, thus providing a length of film to pass through the projector.

2,327,109

MACHINE TOOL

George B. Hirsch, Providence, R. I., assignor to Brown and Sharpe Manufacturing Company, a corporation of Rhode Island

Application July 24, 1940, Serial No. 347,123
9 Claims. (Cl. 90—21)



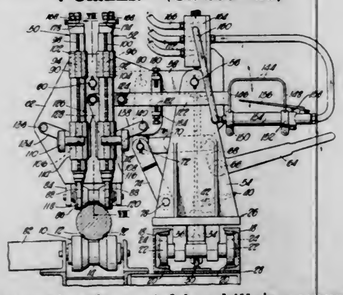
1. In a machine tool, the combination with a support assembly including a relatively stationary support, a support movable thereon, and actuating connections for the movable support, a power drive for the movable support including control means located on one of said supports to start and stop said connections from power operation, a manual actuating element located on the other of said supports connectible to actuate the support, and a device on said other support responsive to the transmission of a power torque through said connections to disconnect the manual actuating element.

2,327,110

BILLET NOTCHER

William F. Jones, Jr., and August Meller, Birmingham, Ala.

Application November 15, 1941, Serial No. 419,357
7 Claims. (Cl. 266—23)



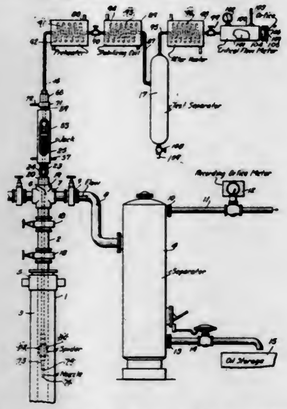
1. Apparatus for notching billets comprising a truck adapted to be moved lengthwise of a billet to be notched, notching torches, a torch supporting frame carrying a roller which rides on the billet, means for pivotally supporting the torches pivotally hung, a pivotal support on the truck for therefrom on diametrically opposite sides of the billet, a rocker arm from which said frame is said rocker arm, means carried by the truck for manually swinging the rocker arm about its pivotal support so as to lift or lower the torches with respect to the billet, and means for laterally swinging the torches toward or from the billet about their respective pivotal supports.

2,327,111

APPARATUS FOR REMOVING SAMPLES FROM FLOWING STREAMS

Garman O. Kimmell, Oklahoma City, Okla.

Application July 27, 1940, Serial No. 348,063
2 Claims. (Cl. 73—21)



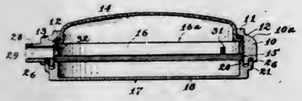
1. In combination with a high pressure oil or gas well tubing flowing a fluid under pressure, means for taking a sample of the fluid under flow including a sampling tube extending into the tubing, a thin walled sampling nozzle carried by the sampling tube and having a cylindrical inner bore to pass a sample flow therethrough and having a long tapering outer surface cooperating with the surface of the bore to form an extremely thin entering edge for said nozzle, centering means supporting the tube with the axis of said cylindrical bore and said extremely thin entering edge of the sampling nozzle in substantially coaxial relation with the tubing whereby a predetermined proportion of the fluid is caused to enter the nozzle, and means connected with the sampling tube for maintaining velocity flow through the bore of the sampling nozzle proportional to the velocity flow through the tubing.

2,327,112

WATCHCASE

Samuel Kramer and Julius Kahn, New York, N. Y., assignors to Pioneer Watch Case Co. Inc., Mount Vernon, N. Y., a corporation of New York

Application June 17, 1941, Serial No. 398,366
2 Claims. (Cl. 58—90)



1. A watchcase comprising an annular body member and a bottom closure therefor, said body member having its bore threaded and of uniform diameter throughout its length and a bezel retaining flange extending inwardly from its upper end and an annular groove extending upwardly from its bottom surface to define two spaced apart downwardly directed annular flanges the

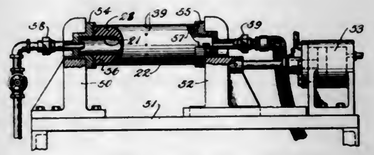
bore of the inner flange being comprised of the lower end of the aforementioned screw threaded bore; said bottom closure member being comprised of a bottom and an annular peripheral wall extending upwardly from said bottom, said upwardly extending peripheral wall having an annular space extending downwardly from its upper surface to define two spaced apart upwardly directed concentric annular flanges, the outer surface of the inner annular flange being threaded and of the same diameter as the threaded bore of the body member and the thickness of the outer annular flange being approximately equal to the width of the said annular groove extending upwardly from the bottom of the body member; whereby the inner upwardly extending flange of the bottom closure member can have its outer wall threaded on the lower portion of the inner threaded bore of the body member to cause the outer upwardly extending flange of said bottom closure member to engage in the annular groove extending upwardly from the bottom surface of the body member to engage a washer received in said angular space and form a watertight joint.

2,327,113

RESILIENT BUSHING AND METHOD OF MAKING THE SAME

Alvin S. Krotz, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

Application July 1, 1939, Serial No. 282,474
10 Claims. (Cl. 18—59)



1. The method of making a resilient bushing which comprises molding a body of rubber-like material upon an inner member and within an outer sleeve member and with the end faces of said body concave, the margins of such faces at said members projecting beyond the intermediate portions of said faces, and altering the radial dimension of at least one of said members to reduce the radial extent of the space therebetween without however compressing said body to an extent such as to cause bulging of said end faces to a convex shape.

10. A resilient mounting comprising spaced-apart members, and a body of resilient rubber-like material mounted between said members for movement of one member with relation to the other by shear stress in said body, said body having an exposed face formed with wave-like protuberances of said material in the form of spaced-apart nubs in said face, each isolated from other nubs in all directions along said face adapted to resist objectionable wrinkling of said face when the mounting is stressed in shear to distort said face.

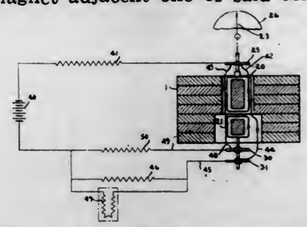
2,327,114

ELECTRICAL MEASURING INSTRUMENT

Frederick Joseph Lingel, Bluffton, Ohio, assignor to The Triplett Electrical Instrument Co., Bluffton, Ohio, a corporation of Ohio

Application August 11, 1941, Serial No. 406,336
2 Claims. (Cl. 171—95)

1. A meter for determining the ratio between two currents, said meter comprising a pair of coils adapted to rotate between the poles of a permanent magnet, said currents being supplied to the coils in opposition, the pole face portions of the magnet adjacent one of said coils being



eccentric to said one coil by a continuous increase in the air gap between the coil and each pole face in the same direction of rotation of the coil, the pole face portions of the magnet adjacent the other of said coils being concentric to said coil.

2,327,115

METHOD OF TREATING LATEX

Chester E. Linscott, Ridgewood, and John McGavack, Leonia, N. J., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application August 2, 1940, Serial No. 350,070
8 Claims. (Cl. 260—822)

1. The process of purifying latex which comprises adding to a latex preserved with .2 to 3 percent formaldehyde, which formaldehyde-preserved latex has been aged at least 3 days, sufficient alkaline material to raise the pH to between 6.5 and 11, and diluting to less than 20% solids concentration, allowing the thus treated latex to cream, and separating the cream and serum portions.

2,327,116

POLYAMIDES

Donald J. Loder, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application October 1, 1941, Serial No. 413,238
10 Claims. (Cl. 260—78)

1. A process for preparing linear polyamides which comprises heating at reaction temperature bifunctional reacting material comprising molecules containing two amide-forming groups, each of which is complementary to an amide-forming group in other molecules in said reacting material, said amide-forming groups being selected from the class consisting of ester groups and hydrogen bearing amino groups, at least one reactant in said reacting material containing an aliphatically attached acetal group which is an integral linear part of the chain of atoms separating the amide-forming groups, said reactant containing only aliphatically linked carbon atoms in said chain of atoms and continuing the heating until the product can be formed into fibers.

2,327,117

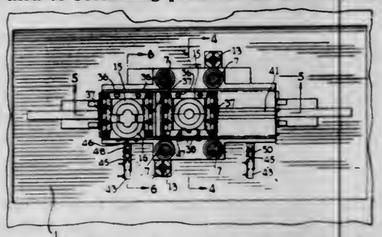
HYDRAULIC FORGING PRESS

Hugo Lorant, New York, N. Y., assignor to The Loewy Engineering Company Limited, London, England, a corporation of Great Britain

Application March 21, 1942, Serial No. 435,739
10 Claims. (Cl. 78—13)

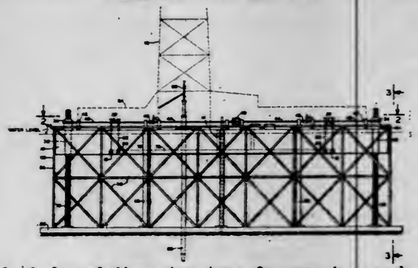
1. A hydraulic forging press comprising a bed

a carriage on said bed, a hydraulic ram above and operable toward and from said bed, a split work clamping die mounted on said carriage, said carriage being movable laterally of the press to bring the work clamping die to central position beneath and in alignment with said hydraulic ram and to reloading position on one side of said



press, power operated means to move said carriage to central position beneath said hydraulic ram and to reloading position, clamping means connected to and dependent from the ram of the press to surround and clamp the parts of the die together during the forging operation, and means to open and close said die when in reloading position.

2,327,118
SUBMERSIBLE BARGE
John Donald MacKnight, Mount Vernon, N. Y., assignor, by mesne assignments, to The Texas Company, New York, N. Y., a corporation of Delaware
Application December 28, 1940, Serial No. 372,060
7 Claims. (Cl. 61—46)

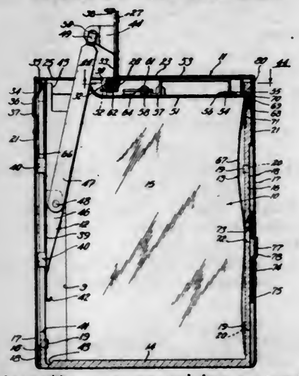


1. A foundation structure for use in conducting oil well producing operations in a body of water comprising a submersible hull including top, bottom and side walls, a unitary base member carried by said hull substantially coextensive with, and disposed below and substantially parallel to said bottom wall, means for lowering said member to rest on the bottom of the body of water, a frame secured to the periphery of said base member and extending upwardly to embrace said hull, means for clamping said frame to said hull when said base member is in its lowered position, and means for weighting said hull so that when said base member rests on "bottom," a stable foundation is formed for operations conducted from said hull.

2,327,119
PROCESS OF MAKING AMINO ACIDS
Elmore Louis Martin, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application February 6, 1941, Serial No. 377,742
5 Claims. (Cl. 260—534)

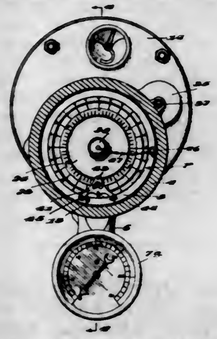
1. A process for making omega-aminocarboxylic acids which comprises heating with aqueous barium hydroxide a compound containing a divalent organic radical having a chain length of at least 5 atoms terminated by carbon atoms, said divalent organic radical being characterized by having one of the terminal valences satisfied by an amino nitrogen atom and the other by a group selected from the class of nitrile and carbonamide groups, precipitating the barium ion as an insoluble inorganic barium salt, and isolating the resulting amino acid.

2,327,120
CIGARETTE CASE
Paul L. McCoon, Los Angeles, Calif., assignor to Trijex Corporation, a corporation of California
Application November 12, 1940, Serial No. 365,205
11 Claims. (Cl. 206—41.2)



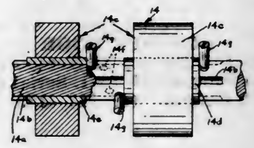
1. A cigarette case comprising a case body having a filling opening, a cover for the opening hingedly connected to the body to be moved between open and closed positions and having a movable portion, means operated by the movable portion for ejecting cigarettes from the case body, and a lock operated by the movable portion for locking the cover closed during said ejection of the cigarettes.

2,327,121
TIME CYCLE CONTROLLER
John B. McGay, Tulsa, Okla., assignor to Hanlon-Waters, Inc., Tulsa, Okla.
Application July 19, 1941, Serial No. 403,221
13 Claims. (Cl. 161—1)



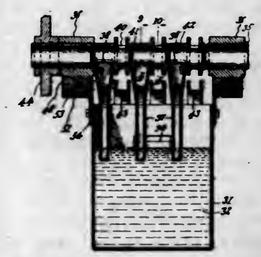
1. A time control device for pressure responsive valves, comprising a housing forming a fluid chamber, a fluid inlet to said chamber, connected to a source of operating fluid under pressure, a fluid outlet port in said chamber, connected to the actuating member of the valve to be controlled, a shaft rotatably supported in said housing with one end extending into said chamber, a clock motor operatively connected to said shaft, a pair of coaxial discs arranged on said shaft and rotatable in vernier relation thereby, said discs overlying said outlet port and normally closing the same, and a series of concentric perforations in said discs, spaced at predetermined points in line for registry with said outlet port, the perforations of the respective discs being arranged to intermittently register with one another over said port as the discs rotate, to open said port at selected time intervals.

2,327,122
INK ROLL CONSTRUCTION
Joseph Mehlman, Los Angeles, Calif.
Application February 12, 1940, Serial No. 318,439
3 Claims. (Cl. 101—348)



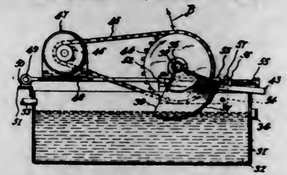
1. In a printing press, an inking mechanism including a shaft having longitudinal keyways, a roller, a sleeve hub fixed to said roller and having key portions slidable in said keyways, said shaft having therein a spiral series of openings, and pins in said openings engageable with said sleeve hub for holding the roller in fixed adjustment longitudinally on said shaft.

2,327,123
AUTOMATIC SAMPLER AND LIQUID FEEDING DEVICE
Charles W. Morse, Anaconda, Mont.
Application December 10, 1941, Serial No. 422,464
2 Claims. (Cl. 73—21)



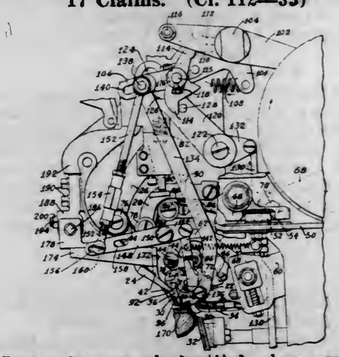
1. An automatic sampler comprising means to sustain a body of liquid to be sampled, bearings above said means, a hollow shaft journaled in said bearings and having open ends beyond the bearings and means, means for rotating the shaft, cutters spaced axially on the shaft for dipping up samples from the liquid body and transferring said samples to the interior of the shaft, and means to selectively block off either end of the shaft or any one cutter from either open end of the shaft.

2,327,124
LIQUID FEEDING DEVICE
Charles W. Morse, Anaconda, Mont.
Original application December 10, 1941, Serial No. 422,464. Divided and this application August 4, 1942, Serial No. 453,587
6 Claims. (Cl. 221—97)



1. In a liquid feeding device, a source of liquid, a hollow shaft journaled above the source and having a chamber therein with inlet and outlet ports axially offset and angularly displaced, means gravitationally beneath the outlet for carrying off the effluent, and an axially thin scoop placed axially beside said means and communicating with said inlet, said scoop fixed to and rotating with said shaft and being of segmental form in the direction of rotation with substantially radial front and trailing walls having an inlet opening of great radial length in said forward wall.

2,327,125
SHOE SEWING MACHINE
Edward Quinn, Malden, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application March 12, 1941, Serial No. 382,904
17 Claims. (Cl. 112—35)

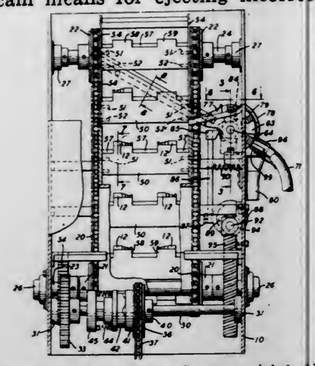


1. In an inseam chainstitch shoe sewing machine, the combination of a curved hook needle, a looper, a thread finger movable to supply slack thread to the needle, a stationary thread finger for guiding the thread portions extending from the work to the looper and needle while engaged by the movable thread finger, and having the thread engaging surface thereof located substantially in line with the stitch receiving perforations through the work, and means for supporting the stationary thread finger rigidly in position.

2,327,126
ARTICLE HANDLING DEVICE
Bruno A. Raetsch, Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application May 7, 1941, Serial No. 392,337
5 Claims. (Cl. 209—72)

5. An article handling device which comprises a hopper for retaining articles, a magazine, a

selector for transferring articles to the magazine, means for conveying articles from the hopper to the selector, spring means for forcefully striking all of the articles transferred by the selector to remove all incorrectly positioned articles therefrom, cam means for ejecting incorrectly posi-



tioned articles from the selector which the spring means have improperly failed to eject, and a door formed in the magazine which when the magazine is full is actuable by an article being transferred by the selector to prevent jamming of the selector.

2,327,127

STAIN AND CORROSION RESISTANT TIN SURFACE AND METHOD OF PRODUCING THE SAME

Frank E. Rath, Bellevue, Pa.

No Drawing. Application February 26, 1940, Serial No. 320,967
9 Claims. (Cl. 148—6)

3. A method of treating a tin surface bearing an oxide film to render the said surface substantially resistant to "yellow stain" by producing a protective phosphate film thereon, which consists in simply immersing the said surface in an aqueous solution of an alkali ortho-phosphate and phosphoric acid maintained at a pH value of from approximately 3.5 to approximately 2.5.

2,327,128

PRODUCTION OF PASTES FROM POLYMERIZED VINYL CHLORIDE

Archibald Renfrew and James William Davison, Norton-on-Tees, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Application July 30, 1940, Serial No. 348,540. In Great Britain September 7, 1939
5 Claims. (Cl. 260—36)

1. A process for making smooth, flowable pastes from polyvinyl chloride and at least one plasticizer from the group consisting of tricresyl phosphate, dibutyl phthalate, diamyl phthalate, triethyl citrate, glyceryl tributyrate, and ethyl cinnamate which comprises conducting the mixing operation in two stages, the first stage comprising the mixing of plasticizer and 5%–10% thereof by weight of polyvinyl chloride at a sufficiently elevated temperature to facilitate solution and the second stage comprising mixing the remainder of the polyvinyl chloride with the product of the first mixing stage at a temperature not above 70° C. and low enough to avoid gelatinization of the mix and to produce a smooth flowable paste, the proportion of plasticizer in the final paste being 35%–80% by weight.

2,327,129

METHOD OF MAKING METAL CUTTING SAWS

Lerned F. Ronan, East Aurora, N. Y., assignor of one-half to George J. Ronan, Buffalo, N. Y.

Application March 15, 1940, Serial No. 324,055
4 Claims. (Cl. 29—95)



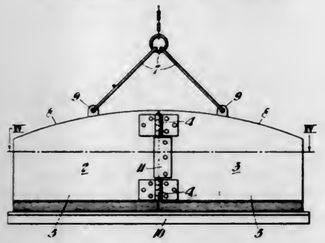
1. The method of making a high speed metal-cutting saw comprising fabricating a blade with a toothed edge and consisting of a single integral body of high speed steel of a composition throughout substantially as described, and then heat treating said blade to make said toothed edge of required hardness and make a longitudinal portion of the blade back of said toothed edge of less hardness than said toothed edge but of greater hardness than that of the steel before fabrication of the blade and not less than approximately C 35 on the Rockwell scale.

2,327,130

FURNACE DOOR

Charles H. Russell, McKeesport, Pa.

Application January 23, 1941, Serial No. 375,692
2 Claims. (Cl. 110—173)



1. An articulated door adapted to be freely and vertically suspended over a vertical furnace opening or the like, said door including a pair of vertical sections having their adjacent vertical edges hinged to permit relative movement of said sections in a horizontal direction, means for suspending said sections in substantial balance including a hanger attachment disposed in the vertical plane of the center of gravity of each section, common suspending means connecting said attachments, whereby said door may conform to the face of the furnace wall about the opening in accordance with the deformation of said wall face due to heat, and means at the hinge connection of said sections covering the joint between the sections during relative movement thereof.

2,327,131

POLYAMIDE

Paul L. Salzberg, Wilmington, Del., assignor to E. I du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application April 1, 1940, Serial No. 327,322
13 Claims. (Cl. 260—78)

1. A polyamide comprising the reaction product of a bifunctional diamine with a bifunctional compound which is selected from the group consisting of (*a*) dicarboxylic acids containing in the chain of atoms between the carboxyl groups a lateral acetal group bridging two contiguous carbon atoms, and (*b*) amide-forming derivatives of said dicarboxylic acids.

2,327,132

RESINOUS MATERIAL

Jacob M. Schantz, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application February 8, 1941, Serial No. 378,055
10 Claims. (Cl. 260—100)

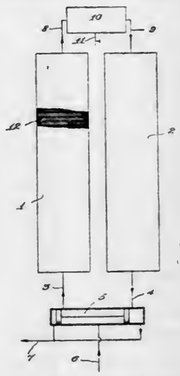
1. The method for improving hydrogenated rosin, having a hydrogen saturation of between about 25% and 100% of the double bonds, which includes the steps of subjecting said material to the processes of heat treatment at a temperature within the range of from about 200° C. to about 375° C. for a period of from about ¼ hour to about 48 hours and distillation, said distillation being sufficient to remove the light oils and volatile resin decomposition products and insufficient to remove more than about 25% by weight of the product.

2,327,133

SEPARATION OF SUPERHEATED VAPORS

Paul Maurice Schuftan, Richmond Hill, England assignor to The British Oxygen Company Limited, London, England

Application March 28, 1940, Serial No. 326,465
In Great Britain March 24, 1939
5 Claims. (Cl. 62—175.5)



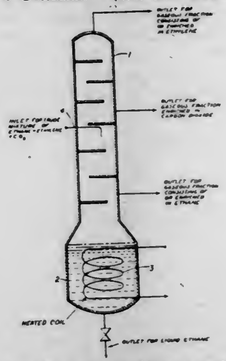
1. A process for separating superheated vapors of mutually soluble constituents and groups of mutually soluble constituents of different boiling points which comprises passing a gaseous mixture containing superheated vapors of constituents having different boiling points and selected from the class consisting of mutually soluble constituents and groups of mutually soluble constituents into a precooled regenerator having a heat storage mass, controlling the temperature of the heat storage mass during said passage to condense practically all of the higher boiling point constituents together with a substantial amount of the lower boiling constituents at the initial stages of said passage, continuing to pass said gaseous mixture into said regenerator, thereby transferring heat from the gaseous mixture to the storage mass to raise the temperature thereof whereby a rectification effect is obtained, resulting in the progressive revaporization of the relatively lower boiling point condensed materials and replacement thereof by condensing constituents of relatively higher boiling point, removing said revaporized constituents of relatively lower boiling point from the regenerator and then in the succeeding period removing the condensed selectively retained constituents of higher boiling point from the regenerator.

2,327,134

EXTRACTION OF HYDROCARBONS FROM GAS MIXTURES WHICH, BESIDES HYDROCARBONS, CONTAIN CARBON DIOXIDE

Paul Maurice Schuftan, Richmond Hill, England, assignor to The British Oxygen Company Limited, London, England

Application April 24, 1941, Serial No. 390,116
In Great Britain June 14, 1940
2 Claims. (Cl. 62—175.5)



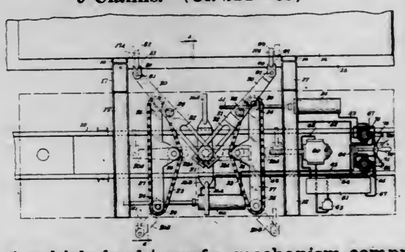
1. A process for separating a mixture comprising carbon dioxide, ethane and ethylene which comprises subjecting said mixture to rectification in a rectification zone, withdrawing a fraction enriched in ethane from below said zone, withdrawing a fraction enriched in ethylene from above said zone and withdrawing a fraction enriched in carbon dioxide from a point located between the points of withdrawal of the ethane and ethylene enriched fractions.

2,327,135

FREIGHT TRANSFER MECHANISM

Rumsey W. Scott, Fairfield, Conn.

Application November 4, 1941, Serial No. 417,770
9 Claims. (Cl. 214—65)



1. A vehicle load transfer mechanism comprising a pair of levers slidably mounted on fulcrums near the transverse center of the vehicle, and mechanism for swinging the levers simultaneously in opposite directions across the vehicle, the free ends of said levers moving through a path longer than the width of the vehicle in a substantially common plane in substantially rectilinear lines normal to the longitudinal axis of the vehicle.

2,327,136

HEARING AID MICROPHONE

Harry B. Shapiro, Astoria, Long Island, N. Y., assignor to Sonotone Corporation, Elmsford, N. Y., a corporation of New York

Application August 3, 1940, Serial No. 350,595
7 Claims. (Cl. 179—107)

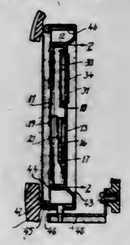
1. In a microphone unit for a hearing aid that

is small enough for inconspicuous wear on the body of the user: a generally flat relatively rigid member forming a cavity wall; a vibratory diaphragm having a periphery joined to said wall to form therewith a shallow vapor-tight cavity enclosure; vibro-electric transducer means including an element enclosed in said cavity and arranged to produce in response to sound acting on said diaphragm a corresponding electric output; said transducer means being of such characteristics that its output is substantially reduced when it is subjected to predetermined variations in the composition of the atmosphere in which it operates; said cavity enclosure having dimensions at which the stiffness of the air confined therein would, in the absence of cavity vents, reduce sub-



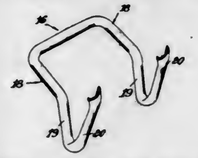
stantially the sensitivity of the action of said diaphragm in the frequency range of about 1000 cycles and below; said cavity wall having vent opening portions to the air space on the exterior side of said cavity wall exhibiting an acoustic inertance which resonates with the air of said cavity enclosure at a frequency in the range below 1000 cycles; and a light flexible diaphragm forming a substantially atmosphere-proof seal between the air within said cavity enclosure and said vent opening portions and having its masses and stiffness so arranged and proportioned as to substantially maintain the effectiveness of the acoustic inertance of said vent opening portions with respect to the stiffness of the air confined in said cavity.

2,327,137
HEARING AID MICROPHONE
Harry B. Shapiro, Cleveland, Ohio, assignor to Sonotone Corporation, Elmsford, N. Y., a corporation of New York
Application May 21, 1941, Serial No. 394,527
22 Claims. (Cl. 179—107)



1. In an amplifier hearing aid designed to be small enough for inconspicuous wear on the body of the user: a casing having an exterior wall surface exposed to mechanical noise vibrations due to rubbing contact with a garment portion of the user; said casing including an acoustically-pervious wall portion; a microphone unit housed in said casing having a diaphragm; a supporting member comprising elements of yieldable material held in said casing and yieldably carrying said microphone unit in a relatively movable condition so that the microphone diaphragm faces operatively said acoustically-pervious wall portion; said supporting member having an endless sheet portion of yieldable material extending between said microphone unit and the periphery of the casing wall portion surrounding said acoustically-pervious wall portion so as to constitute an acoustic barrier interposed between the casing space in the back of said microphone and the space between its diaphragm and said acoustically-pervious wall portion; the yieldable elements of said supporting member including the sheet portion interposed between the microphone unit and the casing walls being so arranged, and being proportioned to have sufficient self-restoring yieldability, as to effectively impede the propagation of mechanical vibrations from the walls of said casing to said microphone unit, while maintaining said microphone unit in its operative position within said casing.

2,327,138
JOINT CONSTRUCTION
Aaron Shatkin, Matawan, N. J.
Application June 21, 1941, Serial No. 399,217
3 Claims. (Cl. 16—125)



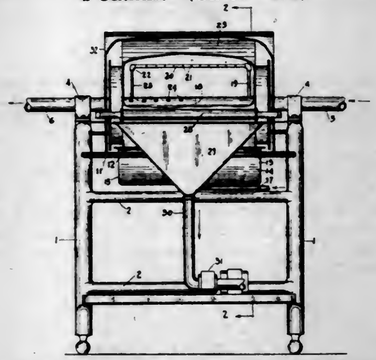
1. In combination, a handle having a V-shaped element extending therefrom; one arm of said element having a channel opposite the other arm, and a member of sheet material positioned between the arms of said element, said arms being adapted to be bent toward each other whereby the sheet material is bent into said channel arm and retained therein by the other arm of said element thereby securing said handle to the sheet material.

2,327,139
HOLDING MEANS FOR TEST SPECIMENS
David C. Scott, Providence, R. I., assignor to Henry L. Scott Company, a corporation of Rhode Island
Application December 20, 1942, Serial No. 470,554
4 Claims. (Cl. 265—12)



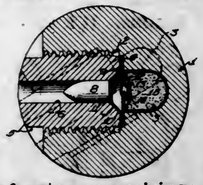
1. In a testing machine, a clamp support, a member pivotally mounted thereon, a clamp carried by said member at a point spaced from said pivot mounting and comprising fixed and movable jaws, said fixed jaw being distant from said pivotal mounting and the movable jaw being movable toward and from the fixed jaw whereby the specimen to be tested may be positioned between the jaws of the clamp and wrapped about the fixed jaw and then about the movable jaw to extend toward a means to hold the other end so that when tension is applied through the said support the member will rock to dispose the specimen toward the line of pull through said pivotal mounting.

2,327,140
PROCESS OF CHILLING AND PACKING CREAM
Richard J. Speirs, Cameron, Wis., assignor to Abbotts Dairies, Inc., Philadelphia, Pa., a corporation of Maryland
Application April 20, 1940, Serial No. 330,688
4 Claims. (Cl. 62—173)



1. The process of handling cream, which consists in providing in a vessel a body of heated cream having a butter fat content of 70% or higher, withdrawing a film of such cream upon a cooling surface from said body and delivering the same on said surface to a removal zone and cooling the cream in its travel to said zone, separating the product in said zone from said surface and delivering the same to a receptacle, the rate of travel of the cream from the surface of said body to the removal zone and the degree of cooling being so correlated that the cream forms a solidified layer of gradually increasing thickness underlying a relatively liquid layer of diminishing thickness, and reaches the receptacle in such condition that the more liquid portion enters into the spaces between the more solid portions of the cream and expels air therefrom.

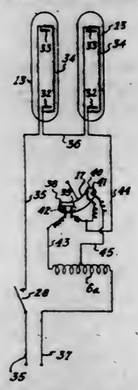
2,327,141
GUN PERFORATOR
Lloyd Spencer, Los Angeles, Calif., assignor to Lane-Wells Company, Los Angeles, Calif., a corporation of Delaware
Application September 23, 1942, Serial No. 459,461
10 Claims. (Cl. 164—0.5)



1. A gun perforator comprising: means defining a cartridge chamber and a gun bore extending therefrom; a cartridge for said chamber; a bullet for said gun bore; and a detonator interposed between said cartridge and bullet.

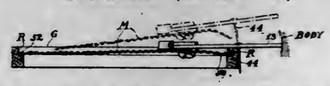
2,327,142
STERILIZATION OR TREATMENT APPARATUS
George Sperti, Covington, Ky., assignor to Science Laboratories, Inc., Norwood, Ohio, a corporation of Ohio
Application July 30, 1940, Serial No. 348,383
12 Claims. (Cl. 250—51)

1. In an ultra violet treatment device, a source of ultra violet radiation of the arc type, an impedance therefor and a source of electrical power containing said impedance, said impedance being such as to permit an arc discharge in said source,



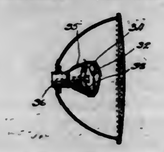
and means for causing the presentation of an article for treatment to lessen the effect of said impedance, whereby the wattage applied to said source is increased during the time the article is so presented.

2,327,143
MEANS FOR UPHOLSTERING FURNITURE
Paul Stadtler, Flushing, N. Y., assignor to Neversag Products, Inc., Flushing, N. Y., a corporation of New York
Application July 22, 1941, Serial No. 403,545
8 Claims. (Cl. 254—79)



1. In a tool for stretching lacing strips when applying them to furniture, a head provided with a portion adapted to engage a furniture frame and to be rockable thereon, means for engaging a lacing strip carried by said head, a pair of spaced legs extending from said head, said legs being provided with surfaces adapted to be engaged by a portion of the body of an operator, whereby said operator may rock said tool and move said lacing strip engaging means so as to stretch the lacing strip.

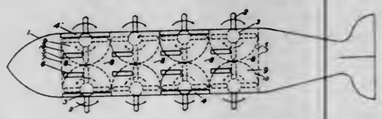
2,327,144
LIGHT CONTROL DEVICE
Orville Stam, Chicago, Ill., assignor to Stam-O-Lite, Inc., Chicago, Ill., a corporation of Illinois
Application November 18, 1940, Serial No. 366,043
3 Claims. (Cl. 240—48.6)



2. In an electric light unit having a reflector with a bulb therein, a shield over the front of said bulb and of a contour to intercept the major portion of all angularly upward and forwardly directed rays which would otherwise pass directly from said light source and beyond the front edge of said reflector, and a narrow ring-like shield around said bulb adjacent the transverse plane

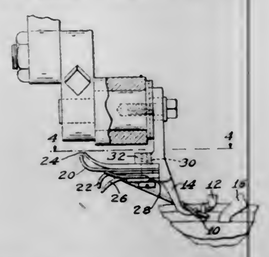
of said light source, said ring-like shield being offset rearwardly adjacent the horizontal plane to extend rearwardly of said transverse plane.

2,327,145
AIRSHIP
Victor M. Van Gieson, Albuquerque, N. Mex.
Application September 3, 1941, Serial No. 409,386
1 Claim. (Cl. 244—26)



The combination, in an airship, of a hull, having propeller slots and air intake slots formed in the sides and top respectively; one or more pairs of propellers arranged approximately in a horizontal plane, part of each propeller operating within the hull and part of each propeller projecting through a propeller slot and operating outside of the hull, one propeller of each pair being on each side of the hull, the propellers on opposite sides of the hull rotating in opposite directions; a partition extending across said hull, attached to the sides thereof and formed with a downwardly dished portion below each propeller and forming with the upper portion of the hull a chamber whereby the rotation of the parts of the propellers which are inside of the hull draws air thru the slots into the air intake chamber, thence forces the air into the dished portions of the chamber, from which it is forced out thru the propeller slots directly underneath the parts of the propellers which operate outside of the hull, where it creates a base of moving air underneath the part of each propeller which is outside of the hull, substantially as described.

2,327,146
SHOE SEWING MACHINE
Raymond W. Watts, Cape Girardeau, Mo., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application September 11, 1942, Serial No. 457,999
4 Claims. (Cl. 112—252)



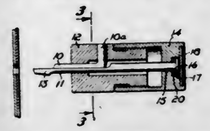
1. An inseam chainstitch shoe sewing machine having, in combination, stitch forming devices including a hooked needle arranged to strike into the work from the outside and to emerge from the insole, a looper, a thread finger movable to supply slack thread to that side of the needle loop extending from the work, and a thread clamping and cutting unit supported on the thread finger to move as a unit therewith comprising cooperating surfaces to frictionally hold the thread passed therebetween by the operator, and a knife blade for severing the clamped portion of the thread from the work.

2,327,147
ANCHORING DEVICE FOR AWNINGS
George Y. Worthington, III, Washington, D. C., and David T. Thomas, Takoma Park, Md.
Application July 9, 1942, Serial No. 450,332
10 Claims. (Cl. 160—56)



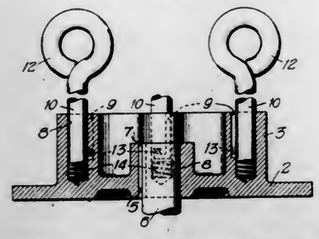
9. In an awning of the type having a top and side walls, a frame having side bars pivoted at one end to a supporting structure, a front bar joining the free ends of the side bars, a band extending around the side walls and front of the awning to secure the awning to the front and side bars, an anchor member removably supported by the pivot of each side bar, and gripping means on the anchor member to grip each side wall of the awning to prohibit forward movement on the side bars.

2,327,148
SHEET METAL CLAMP
George Yates, Glendale, Calif.
Application May 6, 1942, Serial No. 441,901
4 Claims. (Cl. 85—5)



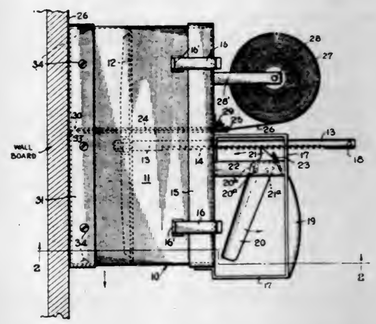
1. A sheet clamp including a body and a pair of elements projecting therefrom adapted to be inserted in an opening in the material to be held, said elements being formed to clamp said material upon axial movement of one of said elements with respect to the other, a member threadedly engaging said body, and means connecting one of said elements to said member for axial movement therewith, said connecting means permitting rotation of said member relative to said element.

2,327,149
WIRE DRAWING BLOCK
Fritz Zettergren, New Haven, Conn.
Application November 20, 1942, Serial No. 466,381
4 Claims. (Cl. 205—20)



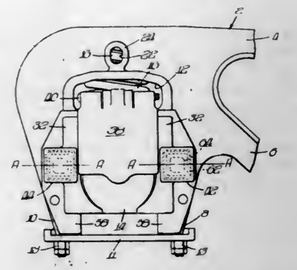
1. A device of the class described comprising a rotatable block having a plurality of holes concentrically arranged therein on one side thereof, a plurality of removable pin-like members with one adapted to be disposed in each of said holes, each of said pin-like members having a bayonet locking arrangement disposed on the inner end thereof which is adapted to cooperate with an L shaped slot arranged along the sides of each of said holes, and resilient means arranged in the bottom of each of said holes which is adapted to bear against the inner end of each of said pin-like members when positioned in said holes, said resilient means in each of said holes adapted to force the pin-like member therein outwardly so that the lug of the bayonet lock on the pin will be forced outwardly and up into the end of the L shaped slot thereby maintaining the pin-like member in a locked position in the hole of said block.

2,327,150
TAPING TOOL
Horace D. Allen, Columbia, S. C., assignor to United States Gypsum Company, Chicago, Ill., a corporation of Illinois
Application July 8, 1941, Serial No. 401,546
16 Claims. (Cl. 216—20)



7. A tool for taping wall board joints comprising a chamber for holding a supply of cement, a trowel associated with said chamber, means for feeding tape over the working face of said trowel, and means for applying controlled variable amounts of cement from the chamber to said tape.

2,327,151
JOURNAL BOX AND CONNECTION
Robert B. Cottrell, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application January 24, 1941, Serial No. 375,736
13 Claims. (Cl. 105—224)



3. In a railway car truck, a frame member having spaced pedestals defining a jaw with a friction surface thereon, a journal box supported within said jaw with guide means engaging said friction surface, and means housed in said guide means resiliently controlling movement of said box in a plurality of directions.

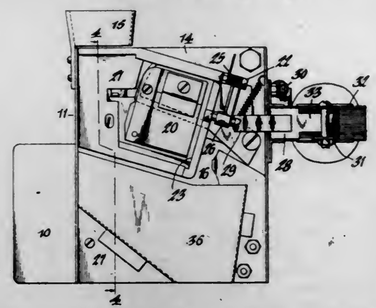
2,327,152
SPRAY OIL AND EMULSION
Marcellus T. Flaxman, Wilmington, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California
No Drawing. Application August 2, 1937, Serial No. 156,994
4 Claims. (Cl. 167—28)

1. A mineral oil emulsion comprising mineral spray oil, a small proportion of oil-soluble air-blown rapeseed oil, a small proportion of sodium lauryl sulfate, and less than about one percent of ammonium hydroxide sufficient to assist spreading of the oil.

2,327,153
RECOVERY OF MAGNESIUM FROM HALIDE FLUXES
William Clifford Newhams and Charles E. Nelson, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application July 2, 1942, Serial No. 449,512
5 Claims. (Cl. 75—24)

1. A method of recovering a magnesium-base alloy from a dispersion thereof in the form of discrete fine globules in a spent metallurgical flux essentially comprising alkali- and alkaline earth-metal halides which comprises: heating the spent flux at a temperature above the melting point of the flux and of the metal and agitating the same for a time sufficient to effect coalescence of the metal to comparatively coarse globules; thereafter cooling the flux to a temperature such as to freeze the metal without freezing the flux; separating the resulting solid metal globules from the molten flux; and remelting the separated globules under flux with agitation to form a coherent body of metal.

2,327,154
COIN CONTROL DEVICE
Fred H. Osborne, Snyder, N. Y., assignor to The Rudolph Wurlitzer Company, North Tonawanda, N. Y., a corporation of Ohio
Application November 23, 1940, Serial No. 366,900
3 Claims. (Cl. 194—101)



1. In a coin device of the character described, a coin chute having a passage for the normal travel of coins therethrough and a passage for scavenged coins, a scavenger member disposed in operative relation to said chute and movable to closed and opened positions to govern the travel of coins to said first and second-named passages, respectively, yieldable means for normally retaining the scavenger member in its closed position to direct the coins through the normal-travel coin passage, and electrically-re-

tractable means in operative engagement with said scavenger member for permitting its movement to closed position by said yieldable means when the circuit is closed to such retractable means and causing the latter, when the circuit is open, to project said scavenger member to its open position, said retractable means including a shiftable actuating bar having a follower lug thereon engageable with the scavenger member and a spring connected thereto and of greater tension than the scavenger member yieldable means for normally urging said bar in a direction to open said member, and a solenoid having its plunger in operative coupled engagement with said bar for controlling the movement of the latter in the opposite direction.

2,327,155

PROCESS FOR TREATING WAX

Ralph C. Pollock, Long Beach, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California

No Drawing. Application March 6, 1939, Serial No. 260,114

5 Claims. (Cl. 196—78)

4. A process for treating scale wax which comprises subjecting said wax to oxidation with an oxidizing agent to produce an oxidized wax, heating said oxidized wax to a cracking temperature and cracking said oxidized wax in substantially the liquid phase at said cracking temperature to produce undistilled bottoms containing a lubricating oil fraction of high viscosity index and subjecting undistilled bottoms from said cracked oxidized wax to condensation with an aromatic hydrocarbon in the presence of aluminum chloride and recovering a lubricating fraction of high viscosity index by extraction from the condensed undistilled bottoms from the cracking step.

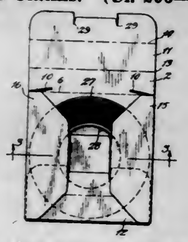
2,327,156

CARTON CONSTRUCTION

Edward C. Scott, Chicago, Ill., assignor to Ace Carton Corporation, Cicero, Ill., a corporation of Illinois

Application July 28, 1941, Serial No. 404,280

10 Claims. (Cl. 206—59)



1. A carton for enclosing and centrally supporting a roll of tape said carton comprising a single blank of material of form-retaining characteristics having a base portion defining one side of a container, a plurality of radial extensions integral with said base portion and scored to provide fold lines, portions of said extensions forming peripheral end and side walls for said carton and other portions of said extensions forming a top wall, one of said extensions having an elongated tongue and being terminally secured to another extension, said tongue being downwardly deformed to form a roll-centering hub to retain a roll against movement in any direction, and others of said extensions being interengageable with the side edges of said tongue to structurally support the hub in position.
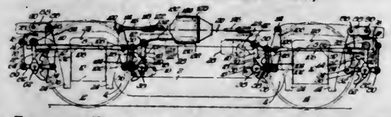
2,327,157

BRAKE ARRANGEMENT

Carl E. Tack, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey

Application December 26, 1941, Serial No. 424,433

23 Claims. (Cl. 188—56)



1. In a railway car truck, a frame member, spaced supporting wheel and axle assemblies, equalizers supported from said assemblies, resilient means mounted on said equalizers and supporting said frame member, power means secured to said frame member, and brake rigging comprising brake beams supported outwardly of each assembly from said equalizers, brake beams supported intermediate said assemblies from said frame member, interconnected live and dead truck levers at opposite sides of each assembly and connected to respective beams, and an operative connection between said power means and said live truck levers, said last-mentioned connection comprising live and dead cylinder levers connected at corresponding ends thereof to said power means, connected intermediate their ends to each other, and connected at opposite corresponding ends thereof to respective live truck levers.

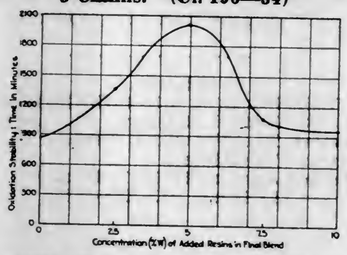
2,327,158

PROCESS FOR PREPARING LUBRICATING OILS

George Hugo von Fuchs and Hyman Diamond, Alton, Ill., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

Application March 3, 1941, Serial No. 381,530

9 Claims. (Cl. 196—34)



1. Process for manufacturing lubricating oils comprising producing at least one low resin content mineral lubricating oil and a petroleum resin concentrate, purifying the latter without materially altering the resin content, and blending said low resin content oil with the purified resin concentrate, in an approximate proportion to produce a blend containing between 3 and 7% resin and having about maximum oxidation stability.

2,327,159

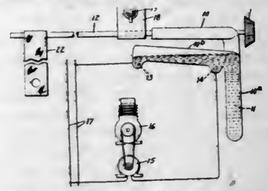
CONTROL DEVICE

Alan N. Ayers, Devon, Conn., assignor to General Electric Company, a corporation of New York

Application April 15, 1941, Serial No. 388,637

9 Claims. (Cl. 200—140)

1. A control device comprising a closed container provided with a lower portion and a higher portion, said portions being interconnected in said container, an upright leg at the end of said lower portion, a quantity of mercury in said lower portion, an expansible fluid in said higher portion, spaced apart electric contacts in said upright leg arranged to be electrically connected together by said mercury when said mercury is forced by said expansible fluid to a predetermined height in said upright leg, and means for supporting said container for pivotal movement about a substantially horizontal axis to vary the height of said contacts relative to each other and for pivotal movement about an axis substantially at right angles to said first axis to vary the static head of said mercury applied to said expansible fluid.



2,327,160

TREATMENT OF TEXTILE FIBER

Osborne Coster Bacon, Pennsgrove, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application May 21, 1940, Serial No. 336,375

4 Claims. (Cl. 8—120)

1. In the process of treating textile fibers with an aqueous solution of a compound of the general formula A—CH_2—Z, wherein A represents an organic radical free from water-solubilizing groups, containing an alkyl radical of more than 7 carbon atoms, and being attached to the CH_2 group through the agency of a non-carbonic atom selected from the group consisting of oxygen, sulfur and nitrogen, while Z designates a radical containing water-solubilizing groups and adapted thereby to bestow water-solubility on the entire compound, the improvement which comprises effecting the aqueous treatment in the presence of added formaldehyde but at an acidity not greater than pH 4.5 and not less than pH 6.5, the concentration of the added formaldehyde being not greater than 8% by weight of the treating bath.

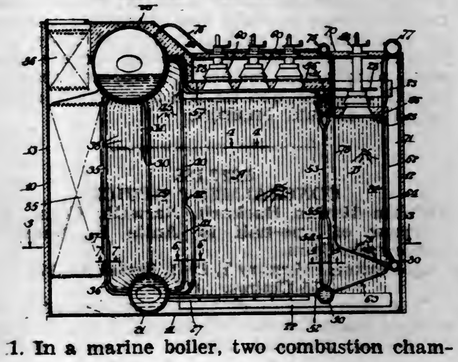
2,327,161

MARINE BOILER

John Phillips Badenhausen, Philadelphia, Pa.

Application April 24, 1941, Serial No. 390,167

5 Claims. (Cl. 122—473)



1. In a marine boiler, two combustion chambers, a steam and waterdrum, a lower header, an upper header above said lower header and connected to said drum, closely spaced contacting vertical water tubes connecting said headers and forming a common wall between said two combustion chambers, said tubes having portions offset from said wall for the discharge of gases of combustion from one chamber into the other chamber, a bank of tubes connecting said lower header and said upper header, the tubes of said bank extending forwardly from said lower header to provide a lower wall and upwardly to provide a vertical wall for one of said combustion chambers, additional steam generating tubes lining other walls of said combustion chambers and connected to said drum, superheater tubes in one of said chambers exposed to the radiant heat of the burning fuel in said chamber, and separate fuel and air supplying means in the upper portions of each of said chambers.

2,327,162

NEW WATER-REPELLENT AGENT AND PROCESS OF MAKING SAME

Alfred William Baldwin and Maurice Arthur Thorold Rogers, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Application January 28, 1941, Serial No. 376,382. In Great Britain January 12, 1940

1 Claim. (Cl. 260—307)

As a new chemical compound 3-octadecyl-2:5-diketo-oxazolidine of the formula



2,327,163

RADIO ANTENNA

Edward L. Barrett, La Grange, Ill.

Application September 8, 1941, Serial No. 410,024

7 Claims. (Cl. 250—33)



1. In combination with a radio antenna comprising fixed and movable elements, a flexible member connected to the movable element, said flexible member being capable of applying a thrust or a pull to the movable member, a drum having inner and outer substantially cylindrical walls fixedly secured together and spaced apart

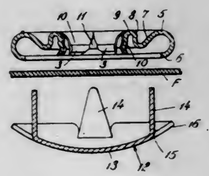
a distance slightly greater than the thickness of the flexible member, the walls having free edges on one side of the drum, the inner wall having an outwardly extending flange extending axially beyond the outer wall, the wall edges being spaced apart a distance slightly greater than the thickness of the flexible member, one end of the flexible member being secured to the drum between the walls at a point spaced from their free edges, and means rotatably supporting the drum.

2,327,164

SOCKET

Charles R. Book, Waterbury, Conn., assignor to Eyelet Specialty Company, Waterbury, Conn., a corporation of Connecticut

Application March 30, 1942, Serial No. 436,757
3 Claims. (Cl. 24—216)



1. A device of the character described comprising a socket member adapted to be arranged on one side of a carrying medium and an attaching plate arranged on the opposite side, the socket member comprising a single piece of material having a central opening, the outer edge being curved inwardly to form a clenching portion, the curved clenching portion extending through an arc of more than 180° to provide an opening between the body portion and the curved portion, the material around the central opening being slitted to form a plurality of fingers, the fingers extending inwardly toward the carrying medium and terminating outwardly of the plane of the edge of the curved clenching portion, the attaching plate being adapted to be arranged on the opposite side of the carrying medium, and prongs formed on the attaching plate adapted to pass through the carrying medium and be clenched in the clenching portion of the socket member.

2,327,165

METHOD OF POLYMERIZING ROSIN AND ROSIN ESTERS

Joseph N. Borglin, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application April 23, 1941, Serial No. 389,893
6 Claims. (Cl. 260—97)

1. A method for polymerizing a material selected from the group consisting of rosins and rosin esters, which comprises dissolving the said material in an inert organic solvent, saturating the solution with an inert gas, contacting said solution with a polymerization catalyst in an inert atmosphere to effect polymerization of the said material, removing the catalyst in an inert atmosphere, washing the said solution with water in an inert atmosphere to remove the catalyst, evaporating the solvent in an inert atmosphere, and recovering a polymerized material of improved color.

2,327,166

PRODUCTION OF TITANIUM SULPHATE

L'Roche G. Bousquet, Baldwin, and Maxwell J. Brooks, New York, N. Y., assignors to General Chemical Company, New York, N. Y., a corporation of New York

No Drawing. Application March 29, 1940, Serial No. 326,669
2 Claims. (Cl. 23—117)

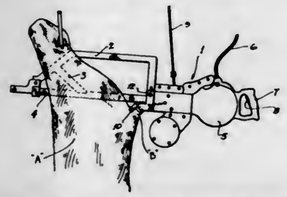
1. The method for recovering and converting to water soluble form, water insoluble titanium values of residue resulting from (1) formation of a titanium sulphate solution containing titanium material which has remained undissolved by a previous sulphuric acid attack on said material, and (2) subsequent separation of the major part of the titanium sulphate solution from at least the bulk of the said material which method comprises incorporating with the residue an amount of sulphuric acid such that the resulting mass contains—over and above the quantity of sulphuric acid needed to satisfy the disulphate requirements of any water soluble titanium present—not less than 1.3 and not more than 1.9 parts by weight of H_2SO_4 (100% basis) to one part by weight of residue (dry basis), and heating the mass by extraneous heat at temperatures of 200 to 300° C. for a time interval, not less than about 3 hours, long enough to produce a relatively dry friable mass but not beyond the point at which evolution of visible fumes from the mass substantially ceases, to thereby form a mass of low acidity factor, treating said mass with water to dissolve water soluble titanium sulphate, and separating solid residue from the resulting crystalloidal basic titanium sulphate solution.

2,327,167

CARCASS SAW

Frank B. Bratek and Andrew S. Hartanov, Chicago, Ill., assignors to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware

Application September 11, 1939, Serial No. 294,380
17 Claims. (Cl. 17—23)



1. A power operated saw comprising a frame, a reciprocable saw blade, a motor, brackets, said brackets being pivotally and expansibly attached to said frame on each side of said blade, said brackets terminating in opposing arcuate faced ends, compression members to oppose expansion of said brackets, and tension members to oppose pivoting of said brackets.

2,327,168

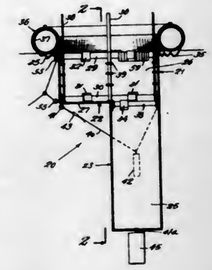
CONCEALMENT DEVICE

William Harlan Bucknell, Norwalk, Conn., assignor of one-half to Anita R. Bucknell, Norwalk, Conn.

Application February 7, 1941, Serial No. 377,783
15 Claims. (Cl. 9—5)

1. A concealment device of the character described, including in combination, a baglike body of flexible material, having a seating section

with side walls and a seat, and having a pair of leg-receiving extensions depending therefrom; spreader means in said seating section; a flexible water-excluding means encircling and connected to the upper portion of said body; and float means disposed around said body and rockable relative thereto, said flexible means being intermediate said body and said float means and serving to connect and to enable a spacing of the latter and said body, and said body being adapted to extend below said float means to alone support an occupant and his equipment in water, whereby said float means and the flexible water-excluding means are adapted to rockingly rise and fall with waves at the water surface independently of said body when the latter is supporting an ocupant in the water.

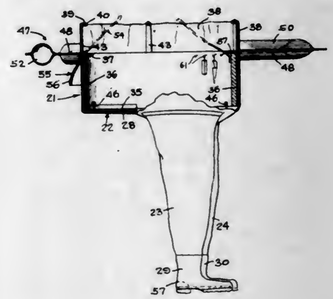


2,327,169

CONCEALMENT DEVICE

William Harlan Bucknell, Norwalk, Conn., assignor of one-half to Anita R. Bucknell, Norwalk, Conn.

Application August 30, 1941, Serial No. 408,952
14 Claims. (Cl. 9—5)



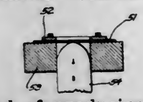
1. In a device of the character described, the combination of a body adapted to receive an occupant, having a main seating portion with a bottom and with a pair of forwardly located flexible leg-receiving portions extending therefrom; flexible weblike means extending laterally outwardly from said body; and a plurality of separate float means disposed about and spaced laterally from said body, said float means being flexibly connected to each other and to said body by said weblike means, said body extending below said weblike means and said body extending below said weblike means being proportioned to alone support the occupant in water, whereby said float means are adapted to raise and lower said weblike extension independently of said body.

2,327,170

METHOD OF MAKING RUBBER HYDROCHLORIDE SHEETS AND WRAPPING ARTICLES THEREIN

William C. Calvert, Gary, Ind., assignor to Wingfoot Corporation, Wilmington, Del., a corporation of Delaware

Continuation of application Serial No. 194,586, March 8, 1938, which is a division of application Serial No. 682,116, July 25, 1933. This application October 14, 1941, Serial No. 414,937
3 Claims. (Cl. 18—56)



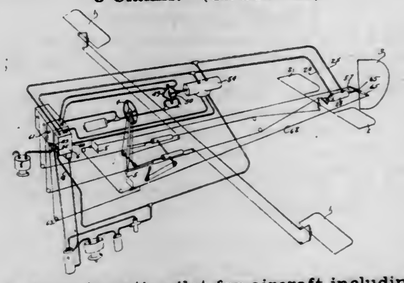
1. The method of producing a rubber hydrochloride film of irregular surface which comprises applying a solution thereof to a belt with depressed areas, allowing the solvent to evaporate to give a film, restricted areas of which formed on the depressed areas have a greater thickness than the surrounding areas, and applying pressure to the areas of greater thickness to stretch them.

2,327,171

AIRCRAFT CONTROL DEVICE

Bert G. Carlson, Erieside, Ohio, assignor to Jack & Heintz, Inc., Bedford, Ohio, a corporation of Ohio

Application April 13, 1942, Serial No. 438,749
8 Claims. (Cl. 244—78)



1. An automatic pilot for aircraft including an air spun directional gyro and an air pick-off operated air relay and hydraulic rudder operating servo motor system including a follow-up system and a motor actuating balanced oil valve connected to said air relay to be operated thereby, an adjustable spring-loaded oil spun gyro and balanced oil valve operated thereby incorporated in the hydraulic system of said automatic pilot, a control knob and associated members for adjusting the spring biasing of said oil spun gyro for predetermining a rate of aircraft turn, a control knob and associated shut-off valve for confining pressure oil flow to said oil spun gyro assembly for effecting said turn and for distributing flow of pressure oil to the entire hydraulic system for normal straightaway flight and a control knob and associated differential gearing for operating said air spun gyro, air pick-off and follow-up system.

2,327,172

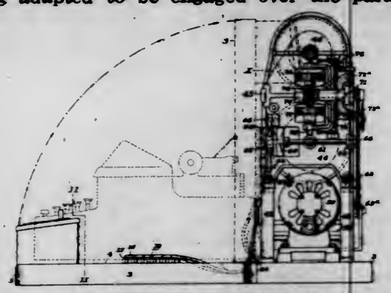
PNEUMATIC ACTUATING MECHANISM FOR ELECTRICALLY OPERATED TYPEWRITERS

George W. Carlson, Pittsburgh, Pa., assignor to Robert H. McClintic, Pittsburgh, Pa.

Application January 11, 1940, Serial No. 313,415
12 Claims. (Cl. 197—20)

1. A record controlled operating mechanism

for an electric typewriter having a plurality of parallel key bars, said mechanism comprising a supporting base having a plurality of bell cranks pivotally supported thereon, each bell crank having a vertical link pivotally attached to one arm thereof, each link having a key bar engaging hook at its upper end, the hooks of the several links being adapted to be engaged over the parallel



key bars of the typewriter, each link being hooked over a different key bar, record controlled means on the base for selectively operating said bell cranks, and means on the base providing a shiftable support for the typewriters whereby the typewriter may be shifted laterally with reference to said hooks to move the key bars into or out of engagement with the hooks.

2,327,173

PARTING MATERIAL

Richard M. Carson and Reuben R. Saeks, Dayton, Ohio, assignors to Carson-Saeks, Inc., Dayton, Ohio, a corporation of Ohio

No Drawing. Application June 25, 1942, Serial No. 448,419

4 Claims. (Cl. 22—163.5)

1. A parting material for preventing the adhesion of molding sand to a pattern or core box comprising as its main and essential ingredient finely divided sulphur.

2,327,174

PREPARATION OF HALOGENATED OLEFINS

Oliver W. Cass, Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application August 21, 1940, Serial No. 353,541

12 Claims. (Cl. 260—654)

1. The method of effecting substitution halogenation of an olefinic hydrocarbon containing from two to four carbon atoms which comprises reacting the same with a halogen having an atomic weight between 35 and 80 and oxygen in the ratio of approximately one-half mole of oxygen to one mole of halogen in the presence of an oxidation catalyst at a temperature of 250 to 600° C.

2,327,175

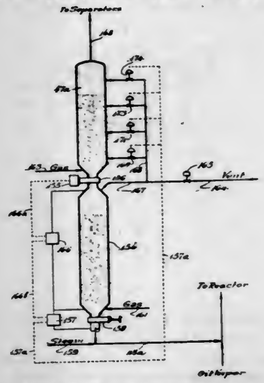
CATALYST CONTROL IN HYDROCARBON CONVERSION

Arthur L. Conn, Chicago, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana

Application October 31, 1941, Serial No. 417,258

14 Claims. (Cl. 196—52)

11. In the process of converting hydrocarbon oils wherein the vapors of said oils are contacted with suspended, subdivided solid catalysts at conversion temperature and under superatmospheric pressure, the improvement comprising maintaining a column of catalyst above the point of introduction of the catalyst into said vapors, discharging the catalyst from said column into said hydrocarbon vapors, supplying catalyst to said column from an elevated source of supply, aerating the catalyst in said column to main-



tain it in free-flowing condition, discharging aeration gas from the top of said column into said catalyst supply at a point below the level of catalyst therein, thereby providing pressure at the top of said column, and maintaining a substantially constant pressure of catalyst at said point of introduction by regulating the height of said column of catalyst in response to changes in the pressure at the base thereof.

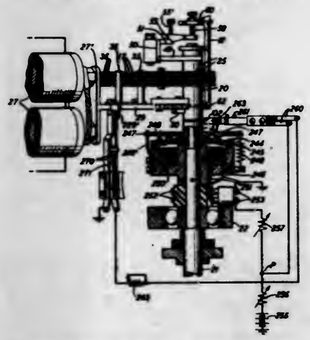
2,327,176

DRIVING CLUTCH AND CONTROL MEANS THEREFOR

Samuel I. Cory, Towaco, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application January 2, 1941, Serial No. 372,707

11 Claims. (Cl. 192—142)



3. A friction clutch between a continuously rotating driving shaft and an intermittently rotated driven member, said clutch comprising a driving member attached to said shaft, juxtaposed surfaces on said driving and driven members in frictional engagement under spring pressure to exert a continuous light driving force upon said driven member in its stop condition, a magnetizing winding for producing a magnetic force between said driving and driven members to increase the driving force for rotation of said driven member, a start-stop latch adapted to engage said driven member for stopping rotation of said driven member once for each revolution, an operating winding for operating said latch to alternately stop said rotation and release said driven member for rotation, circuit means for sequential energization of said operating and magnetizing windings by remote control to release said driven member before fully producing said magnetic force, and contact means for maintaining the energization of said magnetizing winding during said rotation independently of the remote control and for discontinuing the energization before stopping of said driven member.

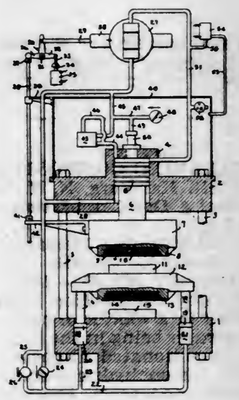
2,327,177

DEVICE FOR SHAPING SHEET METAL

David Cross, Mount Gilead, Ohio, assignor to The Hydraulic Development Corporation, Inc., Wilmington, Del., a corporation of Delaware

Application May 7, 1941, Serial No. 392,323

6 Claims. (Cl. 113—44)



1. In combination in a press, a press head, a press platen reciprocably mounted in said head, a first body of resilient flowable material supported by said platen, a press bed, a first metal die supported by said bed, a die supporting member movably arranged between said head and said bed, a second metal die mounted on said supporting member for cooperation with said first body, a second body of flowable material supported by said supporting member for cooperation with said metal die on said press bed, and fluid operable means for spacing said die supporting member from said platen and said bed.

2,327,178

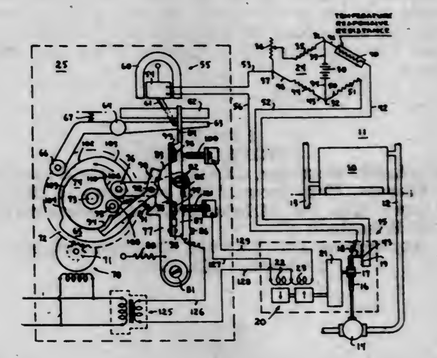
SENSITIVE RELAY MECHANISM

Benjamin Cyr, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application October 6, 1941, Serial No. 413,789

13 Claims. (Cl. 200—56)

1. In combination, a pair of spaced fixed electrical contacts, a pair of movable contacts cooperable therewith, movable means for oscillating said movable contacts to and from said stationary contacts, adjustable means for positioning said movable contacts angularly with respect to said movable means so that one of said movable contacts only may contact its cooperating stationary contact, and strain release means for mounting said movable contacts comprising, a



flexible strip secured at one end, said strip having a free end mounting the first of said movable contacts, a portion of said strip secured at said free end and extending toward the mounted end of said strip, the free end of said portion mounting said second movable contact.

2,327,179

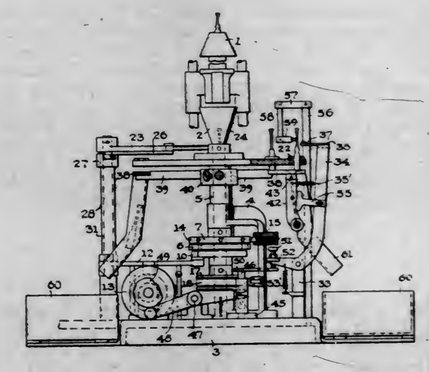
APPARATUS FOR SORTING AMPOULES

Jakob Dichter, Berlin-Schoneberg, Germany, assignor to Kimble Glass Company, Vineland, N. J., a corporation of Illinois

Application July 9, 1941, Serial No. 401,682

In Germany August 9, 1940

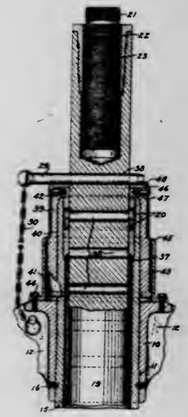
6 Claims. (Cl. 209—82)



1. Apparatus for measuring and sorting ampoules having reduced neck portions thereon comprising a conveyor for transporting the ampoules, a plurality of spaced rockable levers, a gauging device on each of said levers, each of said devices being positioned to move into gauging relation with the necks of the ampoules at a predetermined distance from one end of the

ampoules, means cooperating with said conveyor and movable to a position for supporting the ampoules, means for rotating said conveyor intermittently, means actuated in timed relation with said conveyor rotating means for rocking said levers, means for yieldably connecting the ampoule supporting means with the gauging devices, and means actuated by said devices moving said supporting means out of supporting position for releasing the ampoules from the conveyor.

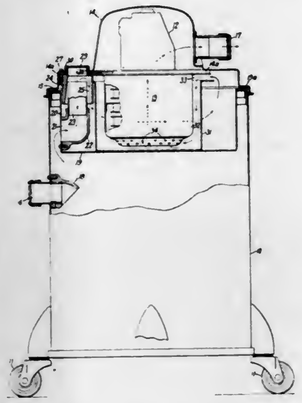
2,327,180
TRIPOD JACK
Roy L. Diercksmeier, Chicago, Ill., and Edward M. Pfauser, Elm Grove, Wis., assignors to Blackhawk Mfg. Co., Milwaukee, Wis., a corporation of Wisconsin
Application July 23, 1941, Serial No. 403,600
7 Claims. (Cl. 254—1)



1. In combination, a tripod, a hydraulic ram cylinder fixedly secured to said tripod, a plunger movable in said cylinder and having a series of holes therethrough, a work-engaging member carried by said plunger, means for effecting adjustment of said member along the axis of and relative to said plunger, a reaction element adjustable along said cylinder, and a pin cooperable with said element and with said holes to retain said plunger in any position of vertical adjustment within the limits of movement thereof.

2,327,181
VACUUM CLEANER
Ralph E. Dunbar, East Cleveland, Ohio, assignor to Electric Vacuum Cleaner Company, Inc., Cleveland, Ohio, a corporation of New York
Application April 30, 1940, Serial No. 332,512
8 Claims. (Cl. 183—37)

5. In a vacuum cleaner for collecting a wet foamy material, a receptacle, an inlet for said receptacle, suction production means for normally causing material to be collected to flow through said inlet into said receptacle, a passageway connecting said suction producing means to said receptacle, a bypass connecting said passageway with the exterior of said receptacle, a diaphragm adjacent said passageway normally closing said bypass, said diaphragm being formed of a material adapted to rupture and open said bypass upon becoming wetted by the passage of



foam through said passageway whereby said suction producing means is rendered ineffective to cause the flow of material through said inlet.

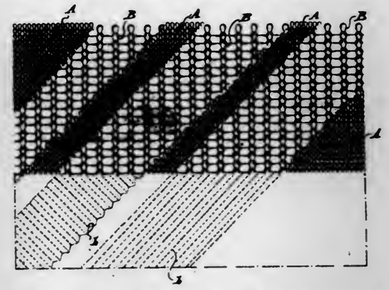
2,327,182
DRY-CLEANING COMPOSITION
Lawrence H. Flett, Hamburg, N. Y., assignor to Allied Chemical & Dye Corporation, a corporation of New York
No Drawing. Application January 14, 1939, Serial No. 250,916
11 Claims. (Cl. 252—161)

2. A dry cleaning composition comprising an emulsion of water in a volatile organic dry cleaning solvent, the water being in the internal phase, and a salt of a sulfonated aliphatic monocarboxylic ester of a monohydric alcohol, as a dry cleaning assistant and as an emulsifying agent for the water, said ester containing at least 13 carbon atoms of which at least 8 carbon atoms are in the alcohol residue, and said salt being selected from the group consisting of ammonium, alkali metal, alkaline earth metal and organic ammonium salts, the amount of said salt being not more than 1 per cent of the weight of the volatile organic dry cleaning solvent.

2,327,183
DRY-CLEANING COMPOSITION
Lawrence H. Flett, Hamburg, N. Y., assignor to Allied Chemical & Dye Corporation, a corporation of New York
No Drawing. Application January 14, 1939, Serial No. 250,917
13 Claims. (Cl. 252—161)

2. A dry cleaning composition comprising an emulsion of water in a volatile organic dry cleaning solvent, the water being in the internal phase, and a salt of a sulfonated aliphatic dicarboxylic ester of an alcohol containing at least 8 carbon atoms, as a dry cleaning assistant and as an emulsifying agent for the water, said salt being selected from the group consisting of ammonium, alkali metal, alkaline earth metal, and organic ammonium salts, the amount of said salt being not more than 1 per cent of the weight of the volatile organic dry cleaning solvent.

2,327,184
FILTER BODY
Alfred M. Goodloe, Montclair, N. J., assignor to Metal Textile Corporation, West Orange, N. J., a corporation of Delaware
Application July 1, 1941, Serial No. 400,590
2 Claims. (Cl. 183—69)



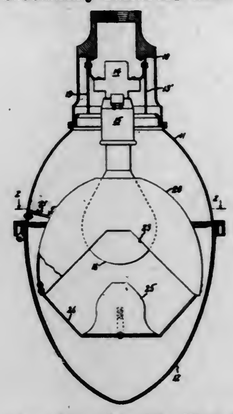
1. A filter body comprising, a plurality of substantially flat filtering layers of comparatively fine pliant mesh material, and corrugate spacer layers made of relatively coarse rigidulous mesh material disposed between adjacent filtering layers, the corrugations of said spacer layers being disposed to extend obliquely therethrough between opposite edges thereof, and said spacer layers being relatively disposed so that corrugations of one such spacer layer incline in one direction and those of a succeeding such spacer layer incline in a substantially perpendicular direction, whereby to cross one another and thus engage and support an intermediate contiguous filtering layer at a multiplicity of uniformly spaced points throughout the area thereof so as to support the same in a plane perpendicular to the flow of an air or gas stream passed therethrough, while at the same time spacing successive filtering layers one from another.

2,327,185
METHOD OF EXTRACTING GLUE AND GELATIN
Donald P. Grettie, Chicago, Ill., assignor to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware
No Drawing. Application June 16, 1939, Serial No. 279,552
18 Claims. (Cl. 260—118)

1. The method of extracting gelatinous material from gelatinous material stock which comprises soaking the stock in an aqueous solution of a peptizing agent at normal temperatures and for a sufficient period of time to extract the gelatinous material from the stock and thereafter separating the solution containing the extracted gelatinous material from the gelatinous material stock residue.

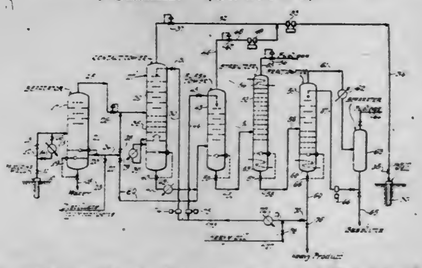
2,327,186
LUMINAIRE
Cromwell A. B. Halvorson, Lynn, Mass., assignor to General Electric Company, a corporation of New York
Application May 26, 1942, Serial No. 444,535
9 Claims. (Cl. 240—25)

2. In a reflector system arranged on a substantially vertical axis for a highway luminaire, the combination of an ellipsoidal reflector provided with tapered openings projecting upwardly toward the axis of the ellipsoidal reflector from the edge thereof to define beams of direct light projected from the light source at the focus of said ellipsoidal reflector, and a secondary reflector at the conjugate focus of said ellipsoidal reflector, said secondary reflector and said tapered



openings in the side of said ellipsoidal reflector cooperating to direct the light produced by a luminaire upon a highway in a narrow fan-shaped beam.

2,327,187
RECOVERY OF DISTILLATE HYDROCARBONS FROM WELL FLUIDS
Earl S. Hill, Tulsa, Okla., assignor to Stanolind Oil & Gas Company, Tulsa, Okla., a corporation of Delaware
Application August 31, 1939, Serial No. 292,818
7 Claims. (Cl. 196—8)



6. The method of recovering distillate hydrocarbons from a high pressure well fluid containing the same which comprises contacting said well fluid in a contacting zone with a liquid absorption medium substantially less volatile than and miscible with said distillate hydrocarbons, said liquid absorption medium having an initial boiling point sufficiently high to permit recovery of said distillate hydrocarbons from said liquid absorption medium by distillation, said contacting being conducted at a pressure in excess of about 1500 pounds per square inch, separately removing residual gas and a liquid fraction including said liquid absorption medium and said distillate hydrocarbons from said contacting zone, cooling said liquid fraction to a temperature lower than the temperature existing in said contacting zone, introducing said cooled liquid fraction into a separation zone maintained at a pressure within the range from about 700 to about 1200 pounds per square inch, contacting gases evolved in said separation zone with another portion of liquid absorption medium and recovering distillate hydrocarbons from said last mentioned portion of said liquid absorption medium after contacting said gases and from the liquids remaining after

the evolution of said last mentioned gases, and recycling said liquid absorption medium, from which said distillate hydrocarbons have been recovered, to said contacting zone and to said last mentioned contacting step.

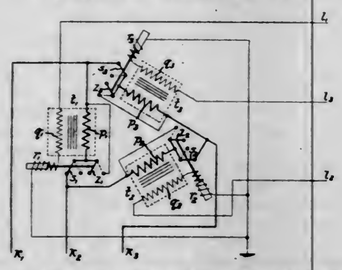
2,327,188
TREATMENT OF PARAFFINS
Vladimir N. Ipatieff and Herman Pines, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application April 29, 1940, Serial No. 332,274
12 Claims. (Cl. 260—683.5)

1. A process for the isomerization of paraffin hydrocarbons to produce therefrom substantial yields of compounds more highly branched than the material subjected to treatment which comprises subjecting said hydrocarbons mixed with a hydrogen halide to contact with a granular preformed composite of substantially anhydrous chlorides of aluminum and zinc and a solid carrier under isomerizing conditions of temperature and pressure.

2,327,189
TREATMENT OF HYDROCARBONS
Vladimir N. Ipatieff and Vladimir Haensel, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application August 21, 1940, Serial No. 353,509
1 Claim. (Cl. 260—683)

A process for dehydrogenating normally gaseous paraffins which comprises commingling the same with an amount of hydrogen such as to form a mixture containing about 20–60% of hydrogen, and contacting said mixture at a temperature in the approximate range of 450–700° C. with a catalyst formed by treating with air at a temperature of about 500–600° C. a mixture of approximately equal amounts of copper, zinc and alumina.

2,327,190
PROTECTIVE ARRANGEMENT FOR HIGH VOLTAGE SYSTEMS
Julius Jonas, Zurich, Switzerland, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland
Application March 25, 1941, Serial No. 385,190
In Switzerland April 10, 1940
6 Claims. (Cl. 175—294)

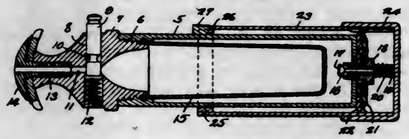


1. In a high voltage polyphase electric transmission system including a conductor for each phase, transformer means for supplying the voltages of the individual phases of the high voltage line, said transformer means having mutually independent magnetic circuits for each phase and each low voltage winding of said transformer means including a high speed circuit breaker in the low voltage supply line thereto and means to open said breaker in response to an earth fault or a short circuit on the high voltage conductor corresponding to such winding.

2,327,191
PRODUCTION OF FUMARIC ACID
Jasper H. Kane, Brooklyn, Alexander Finlay, Sea Cliff, and Philip F. Amann, Brooklyn, N. Y., assignors, by direct and mesne assignments, of one-half to Chas. Pfizer & Co., Inc., a corporation of New Jersey, and one-half to Merck & Co. Inc., Rahway, N. J., a corporation of New Jersey
No Drawing. Application December 7, 1939, Serial No. 308,014
14 Claims. (Cl. 195—36)

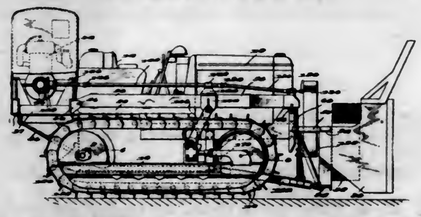
14. A process for the production of a member selected from the group consisting of fumaric acid and its salts which consists in inoculating a medium containing a carbohydrate and nutrient salts with a fumaric acid producing strain of *Rhizopus nigricans*, then agitating the medium so as to permit submerged, aerobic mold growth and fermentation, and adding a neutralizing agent during the course of the fermentation to control acidity.

2,327,192
SOAP-CONTAINING SAFETY RAZOR
Arthur E. Keene, Mill Creek, Ind.
Application May 26, 1943, Serial No. 488,577
4 Claims. (Cl. 30—41)



1. In a razor, a hollow handle, a shaving material sack within the hollow handle, a blade holder secured to one end of the handle and having a bore communicating with the hollow handle, a pump on one end of the handle and adapted to compress air within the handle against said back, whereby shaving material is forced from the sack onto the blade holder, means for controlling the quantity of material ejected from the sack, and means for relieving air pressure within the handle.

2,327,193
SNOW-REMOVING MECHANISM
Walter E. Klauer, Dubuque, Iowa
Application February 15, 1940, Serial No. 319,131
10 Claims. (Cl. 37—43)



4. In combination with a tractor having a frame and front and rear wheels, and endless tracks carried by said wheels; a power operated snow remover, means mounting said snow remover on the front of the tractor, a motor mounted on the rear of said tractor, means connecting said motor to said snow remover to drive the same, said means comprising a shaft extending above one of said tracks, and therefore within the lateral confines of the tractor.

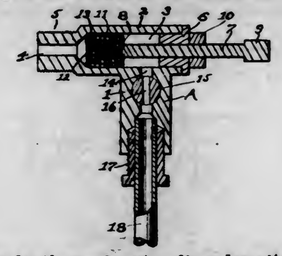
2,327,194
TESTING DEVICE
Joseph S. Kopas, Cleveland, Ohio
Application April 24, 1941, Serial No. 390,088
9 Claims. (Cl. 35—22)



1. Apparatus for testing the particular aptitude of an examinee demonstrable from the answers to a particular group of questions or problems comprising in combination, a panel having a first surface visible to the examinee and a second surface facing in a direction opposite of said first surface, said first and second surfaces being comprised of a plurality of corresponding appropriately designated local areas, indicia carried by each of said local areas, the indicia on the local areas of the first surface representing a question or problem of said particular group of questions or problems and alternate answers to the said question or problem, the indicia on the local areas of the second surface representing indications of the degree of said particular aptitude of the examinee, a plurality of indicating members extending through said panel to rotate relative to the panel, said indicating members having pointer portions extended adjacent corresponding local areas to point to indicia on said local areas, movement of the indicating members to point the pointer portions adjacent the first surface to the indicia of the answers selected by the examinee simultaneously pointing the pointer portions adjacent the second surface to the indicia of the degree of aptitude of the examinee answering the questions or problems.

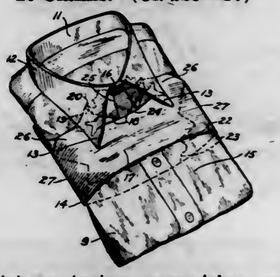
2,327,195
COMBINED FUEL FILTER AND REGULATOR AND CUTOFF DEVICE
John G. Kosky, Almer H. Brodbeck, and Edwin H. Kahler, St. Louis, Mo., assignors to American Stove Company, St. Louis, Mo., a corporation of New Jersey
Application July 3, 1940, Serial No. 343,866
8 Claims. (Cl. 138—43)

8. For use in a fuel delivery conduit to a gaseous fuel burner for filtering and controlling the flow of fuel through said conduit, a combined fuel filter and fuel flow controller comprising, a compressible core positioned in said conduit and at one point therein extending completely across said conduit, said core composed of a coil spring and a mass of fibrous material of a resilient nature, said coil spring loosely fitting within said conduit and said fibrous material completely filling the interior of said spring and covering the exterior thereof, said mass of fibrous material being permeable and composed of a plurality of comparatively long individual threads normally disposed in parallelism with one another, and that portion of the mass within the spring extending from end to end thereof with all of



the threads thereof extending longitudinally of the spring and conduit, and means operable from a point exterior of the conduit for compressing said spring and said mass for varying the compactness of the mass.

2,327,196
SHIRT PROTECTOR
Stephen Lighter, Milwaukee, Wis.
Application April 23, 1942, Serial No. 440,191
10 Claims. (Cl. 229—87)

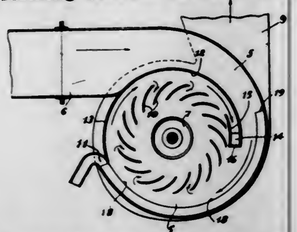


1. A shirt protector comprising, a retainer formed to extend transversely across the bosom of a folded shirt below the shirt collar and having laterally separated notched portions, a relatively narrow panel projecting upwardly from the center of the front section of said retainer, and a collar lapel support extending laterally from each side of said panel, each of said supports having its end farthest from said panel formed to coact with said notched retainer portions so as to maintain the panel in elevated condition relative to the plane of the shirt bosom when the protector is applied to a shirt.

2,327,197
CINDER COLLECTOR
Roland L. Lincoln, Dedham, Mass., assignor to B. F. Sturtevant Company, Boston, Mass.
Application May 13, 1941, Serial No. 393,174
2 Claims. (Cl. 183—80)

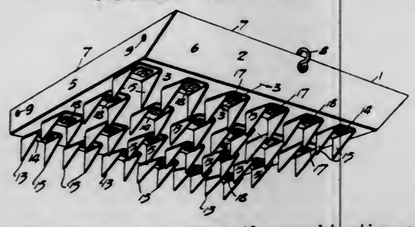
1. A dust collector comprising a casing having an outer curved wall, a tangential inlet passage for dust laden gas, an axial clean gas outlet, a plurality of spaced deflectors arranged in a substantially circular path in said casing around said outlet for causing abrupt changes in the direction of the gas entering said outlet, means forming a tangential skimming channel in said wall for collecting dust thrown thereagainst by centrifugal force, a partition extending at one end from said channel in a substantially circular arc in the direction of gas flow around not sub-

stantially less than half of said deflectors and extending into said passage towards said wall and substantially converging said passage, said partition forming between its outer side and said wall a converging passage for the gas in said casing and forming between its inner side and said



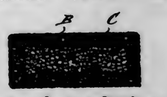
deflectors, another gas passage for the gas passing said channel, and means at the other end of said partition forming another skimming channel for the dust thrown out by centrifugal force against said inner side of said partition.

2,327,198
AGRICULTURAL IMPLEMENT
William H. Lingle, Flint, Mich.
Application February 7, 1942, Serial No. 429,935
5 Claims. (Cl. 55—23)
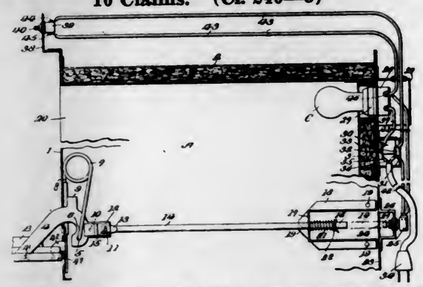


1. In a harrow structure, the combination of a body plate formed of a continuous sheet of metal, means for reinforcing certain marginal edges of said plate, said plate intermediate the marginal edges thereof being provided with a plurality of transversely extending rows of apertures with the apertures in any given row being staggered with reference to apertures in any other row, disc means associated with said apertures, and a plurality of inverted U-shaped members forming harrow teeth pivotally associated with said disc means and plate, the base of each U-shaped member engaging the adjacent surface of said body plate.

2,327,199
NONMETALLIC FIBROUS ABRASIVE WAD AND METHOD OF PRODUCING SAME
Clarence Robert Loeffler, Newark, N. J., assignor to Downy Products Company, Orange, N. J., a corporation of New Jersey
Application June 9, 1942, Serial No. 446,344
2 Claims. (Cl. 51—293)



1. The method of producing abrasive wads which comprises roughly shaping a substantially non-compacted body of non-metallic fibrous material formed by entangled filaments of substantial length, applying to outlying portions of said body a pulverulent abrasive mixed with a liquid binder to form an abrasive-binder mix adapted to penetrate the surface sections of said body to a substantial depth and coat the fibrous filaments thereof but leaving an interior soft elastic core within said body substantially free of abrasive-binder mix, said binder being adapted to harden and become insoluble under heat, partially drying the body thus treated to reduce the binder to a tacky condition, then molding said body to an ultimately desired shape, and finally baking the molded body to set and render the binder insoluble and thereby affix the abrasive to the fibrous body filaments.

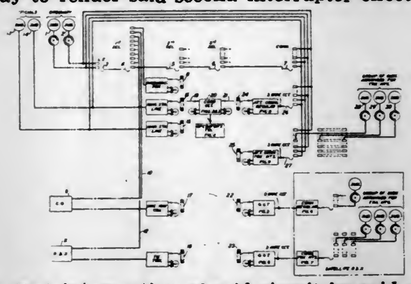
2,327,200
OVEN LIGHT
William Lotter, Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo., a corporation of New Jersey
Application February 17, 1941, Serial No. 379,320
10 Claims. (Cl. 240—5)



10. In a range or the like, an oven having one side wall of the double wall type wherein there is an outer and an inner wall in spaced relationship to provide a housing, an electric circuit, an electric light in said circuit, said light being disposed to illuminate the interior of the oven, a switch in said circuit positioned on the rear wall of said oven and biased towards a closed position, an oven door opening in the front wall of said oven and a door therefor supported for swinging movement provided with an arm extending into said housing between said oven walls, a rod disposed wholly within said housing and being connected to said door arm, said rod when said door is closed engaging and holding said electric switch in an open position, and said rod when said door is opened being moved forwardly and disengaging said switch to permit the switch to automatically move to a closed position to close said circuit and cause the illumination of said light.

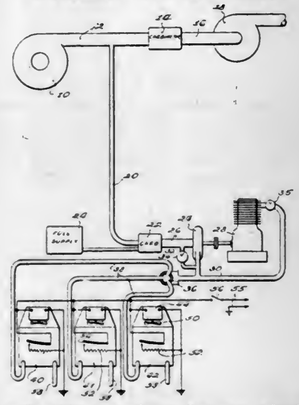
2,327,201
TELEPHONE SYSTEM
Arthur S. Martins, Glendale, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 22, 1942, Serial No. 451,918
3 Claims. (Cl. 179—27)

1. In a telephone system, a manually operated switchboard, cord circuits in said switchboard each having a flashing recall circuit incorporated therein, said flashing recall circuit being controlled by an interrupter and responsive to a temporary interruption of the circuit established by said cord circuit to operate a signal at a given rate, a circuit over which a connection may be established by one of said cord circuits, an interrupter in said circuit synchronized with said interrupter in said flashing recall circuit for periodically interrupting said circuit at a rate different from the rate of the said first interrupter, an extension of said circuit comprising a two-conductor line leading to a distant point, a differential relay for rendering said second interrupter effective in said circuit, said differential relay having one winding in each of said two conductors, means at the distant end of said extension circuit for unbalancing said differential relay to render said second interrupter effective,



the first interruption of said circuit by said second interrupter operating to set said flashing recall circuit into operation, and means for combining the effect of said two interrupters in said flashing recall circuit, to produce a signal in said cord circuit distinctively different from the signal normally produced in said cord circuit by said flashing recall circuit.

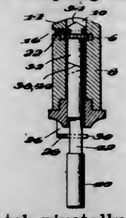
2,327,202
AIRCRAFT HEATING APPARATUS
Henry J. De N. McCollum, Chicago, Ill.
Application November 19, 1941, Serial No. 419,730
5 Claims. (Cl. 237—12.3)



1. In a heating system for an airplane having an internal combustion engine, an exhaust gas turbine driven supercharger, and an engine driven supercharger, with the superchargers operating in series to supercharge the engine, the combination of an internal combustion type heater, a carburetor for said heater, a conduit for conveying air under pressure to said carburetor from the one of said superchargers which is first in the series, and a blower for forcing a combustible mixture from said carburetor to said heater.

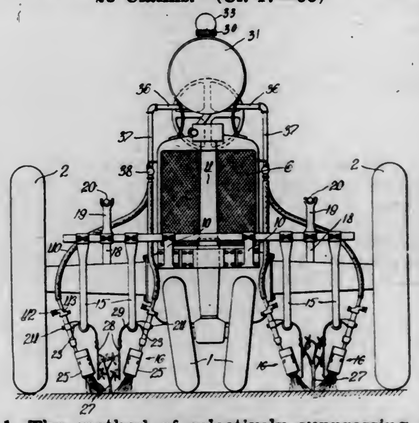
2,327,203
DENTAL INSTRUMENT
Olin G. McKenzie, Miami, Fla.
Application January 13, 1942, Serial No. 426,623
7 Claims. (Cl. 32—54)

6. Equipment for converting a conventional dental drill to a plugger, wherein the drill includes a rigid head having a passage to receive a burr shank and a driven rotatable member journalled therein and having a coupling element in said passage, said equipment comprising two parts having cooperating cam surfaces on their adjacent ends whereby rotation of the first of the parts may cause reciprocation of the second part, the first part having cooperating means for engaging said coupling element to be driven



thereby, and a latch pivotally secured to the drill head, said first part and said latch having cooperating releasably engageable means thereon for holding said first part rotatably in the drill, and said second part and latch having cooperating releasably engageable means for preventing rotation of said second part while permitting sliding thereof in said head passage, said latch being adapted to release said parts simultaneously.

2,327,204
METHOD OF CULTIVATION OF PLANTS
Price Chrenleigh McLemore, Montgomery, Ala.
Application October 11, 1939, Serial No. 298,870
23 Claims. (Cl. 47—58)

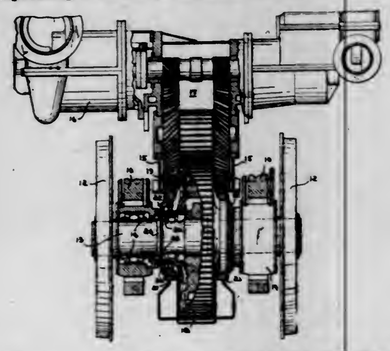


1. The method of selectively suppressing obnoxious vegetation incidental to growing crop plants which comprises subjecting the obnoxious vegetation and the standing crop plants simultaneously to high temperature heat for a period long enough to selectively injure the obnoxious vegetation without substantial injury to the crop plants.

2,327,205
LOCOMOTIVE GEAR CASING SEALING DEVICE
George M. Mierley, Upper Darby, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 2, 1942, Serial No. 460,513
3 Claims. (Cl. 105—108)

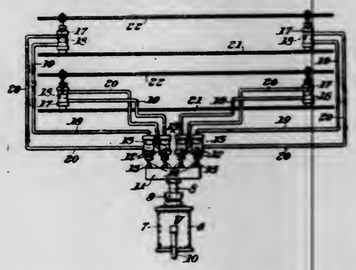
1. The combination with a locomotive having

a frame, means for supporting the frame including a driving axle fitting journal bearings carried by the frame, means for applying power to the axle comprising reduction gearing including a driven gear and means for connecting the latter in torque-transmitting relation to the axle, and a casing carried by the frame and enclosing and supporting the gearing, said casing having openings in its opposed side walls through which the axle extends; of apparatus for sealing the gear casing openings in relation to the bearings comprising means providing sealing surfaces on



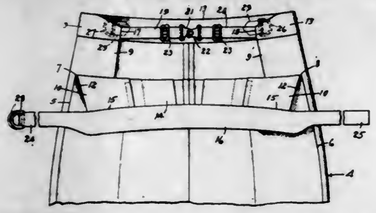
said bearings, sealing surfaces provided externally on the gear casing about said openings and being in planes normal to the driven gear axis, ring members having sealing relation with respect to the axle and said sealing surfaces of the bearings and provided with surfaces for engagement with said gear casing sealing surfaces, and springs for urging said ring members toward the gear casing to maintain the surfaces thereof in sealing relation with respect to the gear casing sealing surfaces.

2,327,206
VIBRATORY DRIVE APPARATUS
Thomas Hubbard Morgan, Kittanning, Pa., assignor to S. S. Bruce and H. C. Oliver, both of Pittsburgh, Pa., and T. Hubbard Morgan, Kittanning, Pa., trustees
Application June 26, 1940, Serial No. 342,498
3 Claims. (Cl. 60—54.5)



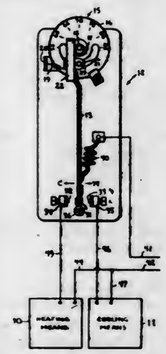
1. A vibratory drive apparatus including a master vibrator, a plurality of hydraulic units simultaneously vibrated thereby, a plurality of remote vibratory units including cylinder piston means, hydraulic conduits connecting each of the latter units with a hydraulic unit for synchronous vibration of said remote units by the master vibrator, said conduits containing columns of fluid and having substantial equal lengths to equalize friction in said conduits and prevent time lag in any of said remote units.

2,327,207
SLACKS AND THE LIKE
Ennis G. Newcomer and Jack Takiff, Los Angeles, Calif.; said Takiff assignor to said Newcomer
Application May 6, 1940, Serial No. 333,458
2 Claims. (Cl. 2—237)



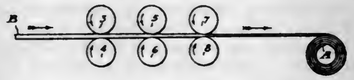
1. In a garment, the combination of a waist band having spaced apart end portions, said band being smaller than the waist circumference of the garment, fastening means secured to the free edges of the band for holding said ends relative to each other, a bib extending substantially from hip portion to hip portion of the garment and disposed to be placed in a position to cover the waist band ends and to cover the fastening means, the bib and the hip portions of the garment being disposed in overlapping relation at the hip portions of the garment, a belt for the bib to hold same in said position, the garment having leg seams at the sides, terminating below the waist line the bib extending from the ends of the seams to the belt, the bib being relatively shorter than the hip portions between the ends of the seams and the waist band, to provide convex hip portions for the garment.

2,327,208
CONTROL DEVICE
Alwin B. Newton, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application September 15, 1941, Serial No. 410,814
20 Claims. (Cl. 200—139)



1. A control device comprising a magnet having first and second poles, an elongated movable element of magnetic material connected at one of its ends to the first of said poles, an armature of magnetic material adjacent the other end of said element and cooperable therewith to produce a magnetic snap action, and magnetic means for completing the flux path from said first pole through said element and said armature back to said second pole.

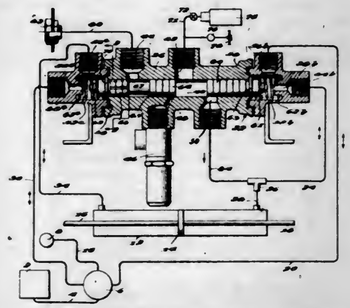
2,327,209
ALLOY STEEL ARTICLE AND PROCESS OF PRODUCING THE SAME
Otho M. Otte, Tarentum, Pa.
Application May 23, 1941, Serial No. 394,871
3 Claims. (Cl. 29—18)



1. A process of forming molybdenum steel wherein the amount of surface chipping is substantially reduced, which comprises reducing a molybdenum steel ingot to the desired form by rolling it in a single longitudinal direction by always entering the same end of the metal being rolled into the rolls when obtaining effective elongation, whereby molybdenum steel having all effective elongation in a single sense is produced.

3. A molybdenum steel article substantially free from surface chipping, having the grains of metal elongated in a single longitudinal direction by always entering the same end of the metal being rolled into the rolls when obtaining effective elongation, said article being characterized by having the elongated portions of the grains continuously converging toward the ends thereof, the ends being sharply curved.

2,327,210
VALVE
John W. Overbeke, Anneslie, and Harry P. Kupiec, Baltimore, Md., assignors to The Glenn L. Martin Company, Baltimore, Md.
Application August 23, 1941, Serial No. 408,016
2 Claims. (Cl. 121—46.5)



1. A valve for interconnecting a source of gas pressure with a hydraulic system, comprising a cylinder, first ports at opposite ends of said cylinder coaxial therewith, second ports in said cylinder each respectively being adjacent one of the first ports, said first and second ports being adapted to connect said valve in said system, a third port between said second ports and adapted to be connected to the source of gas pressure, a fourth port between said second ports and adapted to be connected to said hydraulic system, a fifth port adjacent said third port and adapted to be connected to an indicator, and bodies in said cylinder movable in response to gas pressure entering said third port to close off said first ports and increase communication between said third and fourth ports, the movable body adjacent said fifth port including means for providing communication between one of the adjacent pairs of ports and said fifth port.

2,327,211
ANNULAR ARTICLE
Robert Pash, Roselle, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Original application June 28, 1941, Serial No. 400,311. Divided and this application November 1, 1941, Serial No. 417,458
5 Claims. (Cl. 242—4)



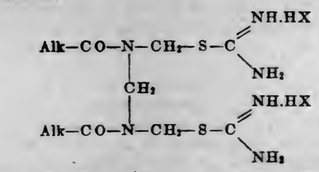
1. As an article of manufacture, an incompletely annular ring of extreme accuracy and uniformity of circularity, having a portion thereof extending around the same of hard and resilient material and a portion thereof extending around the same and continuously integral with the said hard portion and of plastically deformable material, the said hard portion being retained in accurately uniform circular form and dimension by the said plastically deformable material integral therewith against elastic stresses therein and tending to deform the same and due to the diameter of the ring having been changed.

2,327,212
ELECTRICAL INSULATION
Winton I. Patnode, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
No Drawing. Application December 19, 1939, Serial No. 310,031
2 Claims. (Cl. 260—36)

1. A flexible, elastic, extensible tape capable of being heat-treated to a tough, hard, and abrasion-resistant state, the said tape consisting of a polyvinyl acetal resin and, as a plasticizer for said resin, from 30 to 50 per cent by weight of monomeric methyl methacrylate.

2,327,213
CHEMICAL COMPOUNDS AND PROCESS OF PREPARING THE SAME
Josef Pikl, Pitman, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application February 24, 1940, Serial No. 320,564
14 Claims. (Cl. 260—402.5)

4. A water-soluble chemical compound being the reaction product of thiourea and a bischloromethyl compound and corresponding to the general formula

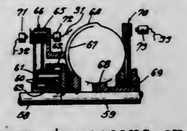


wherein Alk designates an alkyl radical having from 8 to 20 carbon atoms in its structure, while X stands for halogen.

2,327,214
SPEED RATIO CONTROL APPARATUS
Willard L. Pollard, Evanston, Ill.
Application July 5, 1941, Serial No. 401,162
8 Claims. (Cl. 74—189.5)

1. A gear shift control apparatus comprising an

accelerator control pedal, a circuit controlling device movable back and forth in a definite path, whose position is determined by the position of the pedal, a second circuit controlling device movable back and forth in a definite path into and out of engagement with said first device, speed controlled means for determining the position of said second device, means for varying the speed ratio of a power transmission, and means controlled by the engagement and disengagement of said circuit controlling devices for controlling



said speed ratio varying means, one of said movable devices comprising a two-way snap switch having a snap action in both directions and spring biased to move normally in one direction, the other movable device comprising a contact member for engaging the switch to move it against said spring biasing action, the two branches from the two-way switch being connected to said speed ratio varying means to effectuate different speed ratios.

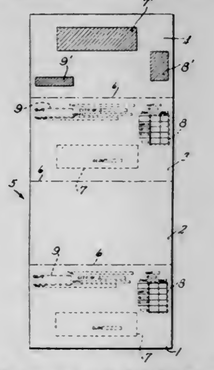
2,327,215

SPOT CARBON FORM SHEET PACK

Charles W. Potter, Waltham, Mass., assignor to Atlantic Register Company, Waltham, Mass., a corporation of Massachusetts

Application September 23, 1942, Serial No. 459,394

1 Claim. (Cl. 282—12)



A pack of form record sheets in superposed relation, each sheet having upon its upper face a printed form with one or more blank spaces to be filled in, and each of said sheets except the bottom sheet of the pack having a spot application in a restricted space or spaces to correspond to said blank space or spaces of its upper face, first a color coat of the same tint as the body of the sheet and of non-transferable material to render said space or spaces substantially opaque in contrast to the balance of the sheet and then superposed upon said color coat a coating of transfer ink.

2,327,216

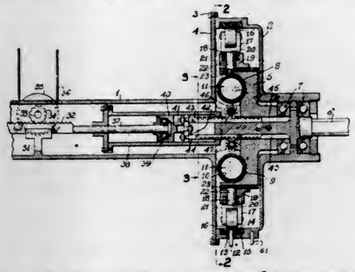
GOVERNOR

Harry P. Reiber, Williamsport, Pa., assignor of forty per cent to Arthur H. White, New York, N. Y.

Application February 24, 1941, Serial No. 380,233

2 Claims. (Cl. 170—163)

1. The combination with a variable pitch propeller, of an automatic control for maintaining a preselected rate of rotation of an engine shaft driving the propeller, said control comprising a rotor having driving connection with the engine shaft, means carried by said rotor and responsive to the action of centrifugal force for obtaining a variation in the pitch of the propeller blades when the rate of rotation of the shaft varies substantially from a preselected value, said means including an electrical pitch control circuit and carbon pile resistance elements in said



circuit and mounted transversely on opposite sides of the axis of rotation of the rotor and means for exerting an initial force of compression upon said carbon piles, said last named means comprising a member slidable axially of the rotor, and compression members movably simultaneously in opposed directions upon movement of the slidable member in one direction to exert forces of compression inwardly of the ends of the respective carbon piles.

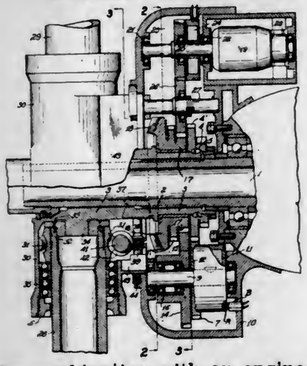
2,327,217

VARIABLE PITCH PROPELLER CONTROL MECHANISM

Harry P. Reiber, Williamsport, Pa., and Jack B. Reiber, Ann Arbor, Mich., assignors of forty per cent to Arthur H. White, New York, N. Y.

Application May 22, 1940, Serial No. 336,620

2 Claims. (Cl. 170—163)



1. The combination with an engine shaft and a variable pitch propeller driven by said shaft, of means for varying the pitch of the blades of said propeller, said means comprising a gear rotatable with the engine shaft, a ring gear independently rotatable on said engine shaft, means driven by the ring gear to vary the pitch of the propeller blades, a plurality of pairs of gears each having driving connection with the ring gear and with the said engine shaft gear, one of the gears of each pair being slidable and having clutching engagement with the respective other gear of each pair, and means for actuating said sliding gears selectively, one of said gear pairs having an overspeed gear ratio and another of said gear pairs having an underspeed gear ratio with respect to the rate of rotation of the engine shaft.

2,327,218

ABRASIVE ARTICLE AND METHOD OF MANUFACTURING THE SAME

Norman P. Robie, Niagara Falls, N. Y., assignor to The Carborundum Company, Niagara Falls, N. Y., a corporation of Delaware

No Drawing. Application October 30, 1939, Serial No. 301,980

7 Claims. (Cl. 51—298)

1. An abrasive article comprising abrasive grains and a binder comprising a polymer including a substantial proportion of an ester of an acrylic acid.

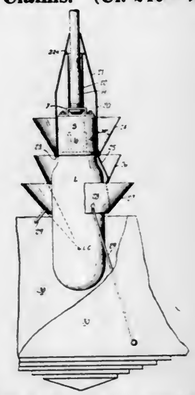
2,327,219

LIGHTING FIXTURE

Howard Rowland, Chicago, Ill., assignor to Electrical Testing Laboratories, New York, N. Y., a corporation of New York

Application February 4, 1941, Serial No. 377,291

4 Claims. (Cl. 240—78)



1. In a lighting fixture, a pendent bi-post lamp socket, a bi-post lamp therein, a socket enclosing tube fitted closely about the socket extending above the socket and having its lower edge substantially even with the lower edge of the socket, a conical air deflector having its lower end substantially even with the bottom of the socket and in close contact with the tube, the deflector being of substantial height and of substantially wider outer diameter than the tube so that air heated by the lamp is kept away from the tube and socket, and upwardly and outwardly diverging conical baffle rings below the air deflector and above the light center of the lamp, the rings acting to direct heated air intercepted thereby outwardly and keep it away from the conical air deflector to reduce the heating of the socket contacts and lamp terminals.

2,327,220

SPARK PLUG

George F. Ruddies, Chicago, Ill.

No Drawing. Application July 24, 1940, Serial No. 347,144

7 Claims. (Cl. 123—169)

1. A spark plug construction for use with fuels containing lead alkyls comprising points having an undercoat of an alloy of nickel and chromium and an overcoat of chromium.

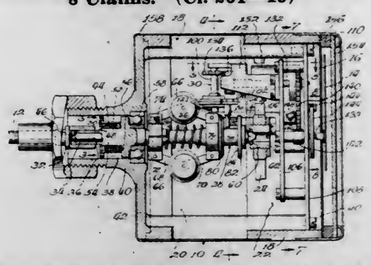
2,327,221

INDICATOR

Frederick G. Schweisthal, Chicago, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia

Application March 21, 1939, Serial No. 263,259

8 Claims. (Cl. 264—15)



1. In an indicator, the combination including, an indicator element, means including a pivotally mounted element for imparting movement to said element, and means including a rotatable, axially movable member and a shoe mounted for movement axially with said rotatable member interposed between said rotatable member and said pivotally mounted element for actuating said indicator element, and a support mounting said shoe independently of and in contact engagement with said pivotally mounted element and rotatable member, whereby frictional force created by contact between said shoe and rotatable member are transmitted to said support.

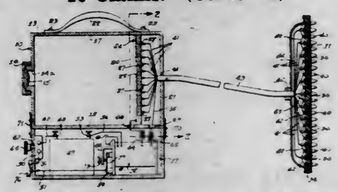
2,327,222

AIDING DEVICE FOR BLIND PERSONS

William O. Sell, Detroit, Mich.

Application March 27, 1941, Serial No. 385,520

10 Claims. (Cl. 35—1)



1. In an aiding device for blind persons, optical means for forming an image, photo-electric means for translating said image into electrical impulses, a dielectric plate providing an electrode support to be positioned adjacent the body, and a plurality of slightly separated electrodes on said support engaging the skin of the person for applying said impulses to the nervous system of the body.

2,327,223

SHEET TRIMMER

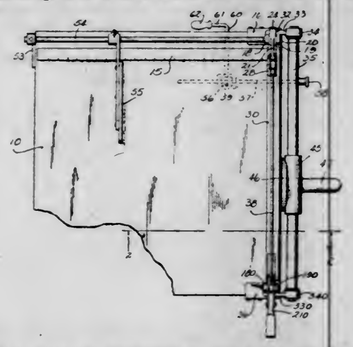
Charles Silver, deceased, late of Wauwatosa, Wis., by Leah Silver, administratrix, Wauwatosa, Wis., assignor to Herbert F. Johnson and Ray Ochs, Milwaukee, Wis.

Application April 8, 1943, Serial No. 482,248

18 Claims. (Cl. 164—77)

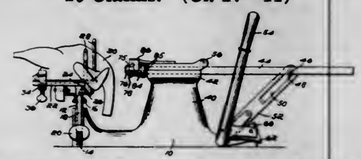
1. A trimmer comprising the combination with a board, of a clamping bar having a slight downward convexity between its ends and normally positioned in spaced relation to the board, and means for simultaneously moving the ends of the bar substantially vertically downwardly into clamping engagement with work resting upon the board, said bar having a work engageable

portion sufficiently yieldable so that after first contacting the work near the center of the bar



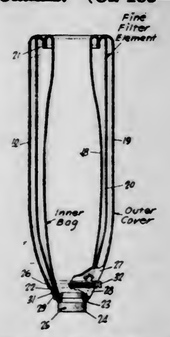
the bar will progressively contact the work toward the ends of the bars.

2,327,224
POULTRY DRESSING MACHINE
Joseph P. Spang, Quincy, Mass., assignor to Cube Steak Machine Co., Boston, Mass., a corporation of Massachusetts
Application August 5, 1941, Serial No. 405,499
10 Claims. (Cl. 17—11)



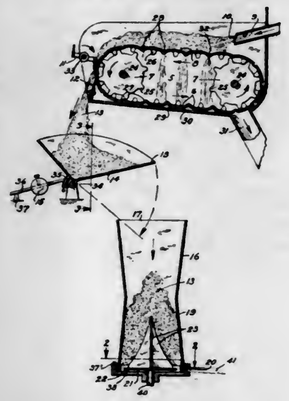
1. A machine for cleaning poultry, which comprises, a support for a bird and a shaft mounted for relative movement longitudinally of the shaft, a plurality of fingers pivotally mounted at the end of said shaft and initially held in closed position, and means engageable with the bird on said support for releasing said fingers.

2,327,225
SUCTION CLEANING APPARATUS
Charles H. Taylor, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 8, 1941, Serial No. 382,297
11 Claims. (Cl. 183—51)



1. An air-filtering device for suction cleaners, cloth bags attached to a collar at one end and said filtering device including inner and outer secured by a clamp at the other end, and a tubular paper filter element held between said inner and outer bags and adapted to be readily removed.

2,327,226
SNOW ICE FEEDER AND DISTRIBUTOR
William H. Taylor, Waukesha County, Wis., assignor to The Vilter Manufacturing Company, Milwaukee, Wis., a corporation of Wisconsin
Application January 5, 1942, Serial No. 425,673
7 Claims. (Cl. 83—63)

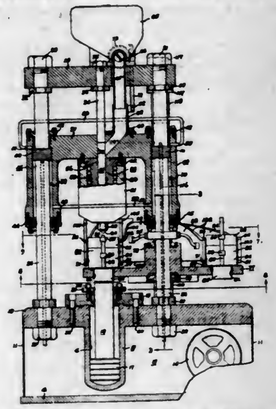


1. In combination, an endless slat conveyor having an upper deck provided with a series of drainage hoppers and a semi-cylindrical delivery end adjoining said deck, means for constantly depositing a stream of relatively wet slush ice upon said deck remote from said delivery end, means coacting with said delivery end to constantly remove dehydrated snow ice therefrom, a casing formed to receive the snow ice from said conveyor, a tiltable weighing bucket disposed beneath said conveyor delivery end and above said casing for automatically delivering successive measured batches of snow ice from the conveyor to the casing, and a rotor in said casing formed to initially disintegrate the snow ice and to thereafter deliver the same from the casing in the form of a uniform spray of finely divided dry snow ice.

2,327,227
INJECTION MOLDING MACHINE
Warren R. Tucker, Dayton, Ohio, assignor to The Hydraulic Development Corp. Inc., Wilmington, Del., a corporation of Delaware
Application February 6, 1941, Serial No. 377,708
35 Claims. (Cl. 18—30)

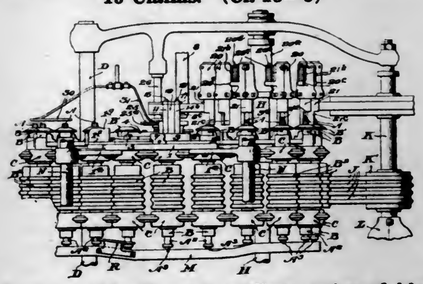
1. An injection press comprising a stationary injection plunger, a movable head carrying an injection cylinder for reciprocation upon said plunger, means for guiding movement of said movable head comprising a rod extending through said head and having a piston thereon, and a chamber in said head cooperating with said rod and forming a cylinder to provide a pressure motor for positioning said cylinder with respect to said plunger, a hydraulically actuated ram positioned below said injection cylinder, and means for successively advancing a plurality of molds into alignment with said injection cylinder, said ram removing said molds from said advancing means and into engagement with said cylinder to thereby advance the same with respect

said plunger to inject material into said molds, said first mentioned hydraulic motors providing



means for resisting movement of said cylinder to provide clamping pressure upon said molds.

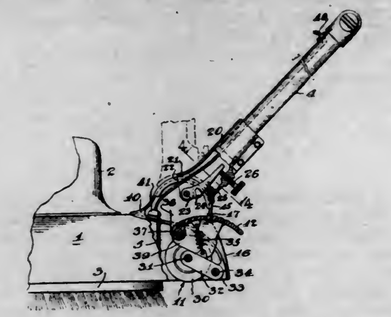
2,327,228
MACHINE FOR MAKING LENSES OR THE LIKE
William Henry Umlandt, Muscatine, Iowa, assignor to Automatic Button Company, Muscatine, Iowa, a corporation of Iowa
Application June 25, 1941, Serial No. 399,714
15 Claims. (Cl. 18—5)



1. In combination, an endless series of blank holding chucks moving in an orbital path, means at one portion of said orbit for holding and heating a rod of blank forming material; means at said portion for opening the said chucks; means at said portion for successively severing lengths from said heated rod to form blanks; means at said portion for automatically feeding blanks into the successive opened chucks, the upper ends of the blanks projecting above said chucks; means at another portion of the orbit for contracting the chucks around the portions of the blanks disposed therein to compress said portions of the heated blanks to a diameter less than that of the projecting ends of the blanks; and means at still another portion of the orbit for shaping the projecting ends of the blanks prior to discharge of the blanks from the chucks.

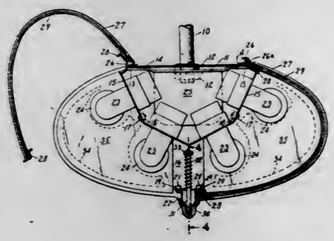
2,327,229
SURFACE TREATING MACHINE
Louis Vavrik, Rossford, and Kenneth C. Atkin, Toledo, Ohio, assignors to The American Floor Surfacing Machine Company, Toledo, Ohio, a corporation of Ohio
Application May 4, 1942, Serial No. 441,684
9 Claims. (Cl. 306—11)

1. In a machine of the class described, a body part having a slot with an undercut wall therein, a handle adapted to have its inner end bear against the outer side of said part over said slot for transverse movements lengthwise of the slot,



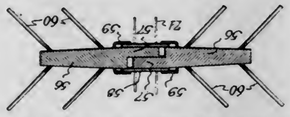
and a lever carried by the handle and operable to clamp said part inwardly of the slot in opposition to the handle to hold the handle in adjusted relation to the part.

2,327,230
LIGHTING FIXTURE
Edward H. Weber, Meriden, Conn., assignor to The Miller Company, Meriden, Conn., a corporation of Connecticut
Application April 11, 1941, Serial No. 388,046
3 Claims. (Cl. 240—78)



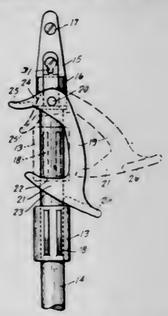
1. A fluorescent lighting fixture adapted for pendent mounting and to provide a substantial upward component of light for indirect lighting, comprising a fixed horizontal body which includes a trough-like member, end plates secured to the trough-like member, a pair of fluorescent lamps supported below the central portion of the trough-like member, a second pair of fluorescent lamps supported opposite the upper side portions of the trough-like member, the end plates extending a substantial distance beyond the upper lamps and below the lower lamps, a centrally disposed reinforcing strip between the end plates, a pair of generally trough shaped diffusing closures extending from one end plate to the other and from the reinforcing strip to the upper, outer edges of the trough-like member so that all light escaping upwardly, laterally or downwardly is diffused, and hinge connections between the body and the top of each closure whereby each closure can be swung upwardly and outwardly to give access to the lamps adjacent the raised closure, the weight of the closures normally maintaining them in the lower or closed position.

2,327,231
SPLIT DOWEL BAR WITH BEARING AND SUPPORT
Clifford H. Westcott, Oak Park, Ill., assignor to James H. Jacobson, Chicago, Ill.
Original application May 20, 1935, Serial No. 22,308. Divided and this application April 6, 1942, Serial No. 437,770
6 Claims. (Cl. 94—18)



6. A load transfer device for use in association with adjoining concrete slabs comprising a pair of opposed and longitudinally aligned dowel-shaped members, each having its rear portion thereof adapted to be anchored to its related slab; the opposed forward portions of each being adapted to span the gap between the adjoining slabs and each engage and form a bearing for the other, and a relatively rigid sleeve member adapted to span the gap and encircle and snugly fit onto the engaging portions of the assembled dowel members and thereby assist in the transfer of vertically applied loads from one dowel member to the other.

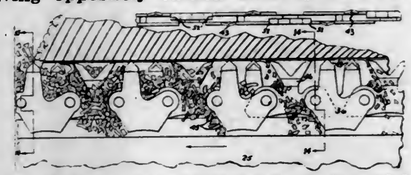
2,327,232
LATCH FOR AWNINGS
Harry C. Wheeler, Middletown, Ohio
Application February 27, 1943, Serial No. 477,481
12 Claims. (Cl. 160—82)



12. In a latch for a device of the type including a guide and a member slidable on said guide, an elongate body having near one end thereof means whereby it may be pivotally mounted on a fixed support adjacent said guide, having near the other end thereof a transverse retaining member for retaining said slidable member and provided with an inclined surface, and having near the first mentioned end thereof a part operable by said slidable member to move said retaining member into retaining position and manually operable to move said retaining member out of retaining position.

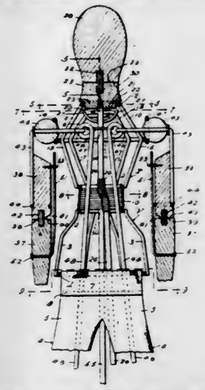
2,327,233
TIMBER SAW
Charles Wolf, Portland, Oreg.
Application April 9, 1940. Serial No. 328,627
3 Claims. (Cl. 143—135)

2. In a chain saw, a raker tooth link having an elongated base constituting a slide having straight line ends and having a concave intermediate portion, said base having pin holes formed therein near the ends thereof, said link having oppositely turned laterally offset raker



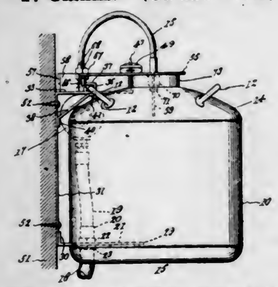
teeth of the same lateral width as is said base and substantially parallel therewith.

2,327,234
PUPPET SHOW
Esther T. Wolff, Chicago, Ill., and Ernest Phillip Wolff, Curacao, Netherland West Indies
Application June 22, 1942, Serial No. 448,050
5 Claims. (Cl. 46—126)



1. A stage for a puppet show, comprising outer and inner beams, platform sections secured to the outer beam and extended across the inner beam, levers fulcrumed intermediate their ends on the inner beam and engaging the lower surfaces of the platform sections, the levers extending under the outer beam, and means adjustable in the levers and engaging the lower edge of the outer beam to tilt the levers and level the platform sections.

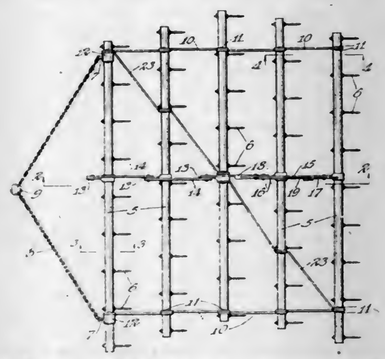
2,327,235
GAS INSTALLATION EQUIPMENT
Peter A. Anderson, Portland, Maine
Application June 30, 1941. Serial No. 400,529
17 Claims. (Cl. 221—73.5)



1. In gas installation equipment for a pair of substantially cylindrical containers having dome shaped tops with valves therein and handles thereon, a frame, means for securing the frame to a support, hooks on the frame for releasably

engaging the handles of the containers and positioned relatively to one another to support the containers in substantially contiguous relation, a substantially triangular bottom plate on the frame for closing the included space between and at the rear portions of said containers and having incurved edges for encountering the containers to cooperate with said hooks in holding the containers substantially upright, a top plate assemblable on the frame and said containers and so constructed and arranged as to close the hooks and shut off access to the valves of the containers, a substantially triangular apron depending from said top plate for closing the included space between and above the dome top portions of the containers, a pigtail swingable above said top plate for movement from one container to the other, said top plate having slots for receiving said pigtail, a service pipe, a regulator connected to the pigtail, a twistable connection between said regulator and service pipe, said connection and regulator being located in the enclosed space between and in rear of said containers, and means for releasably locking said top plate in operative position on said frame, pigtail and containers.

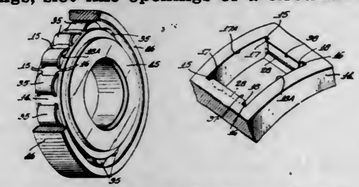
2,327,236
FLEXIBLE ADJUSTABLE LEVER DRAG HARROW
Vincent Antal, Owatonna, Minn.
Application June 1, 1942, Serial No. 445,277
1 Claim. (Cl. 55—103)



A flexible adjustable harrow comprising, a plurality of spaced toothed bars including a forward bar and a rearward bar and intermediate bars, links interconnecting adjacent bars and relative to which the bars are turnable, means interconnecting the bars for turning them simultaneously, and diagonal braces extending between adjacent bars and relative to which the bars are turnable, the adjacent ends of adjacent diagonal braces being contiguous so that said braces extend in substantially a continuous diagonal line from one end of the forward bar to the opposite end of the rearward bar.

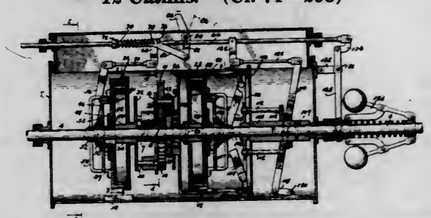
2,327,237
METHOD FOR MAKING RETAINERS FOR ANTIFRICTION BEARINGS
Carl A. Baden, Glenbrook, Conn., assignor to Norma-Hoffman Bearings Corporation, Stamford Conn., a corporation of New York
Original application January 20, 1940, Serial No. 314,779. Divided and this application September 22, 1941, Serial No. 411,856
2 Claims. (Cl. 29—148.4)

1. A method of making roller bearing pockets in a solid ring retainer, which consists in first drilling circular openings radially from one side to the other side of said solid ring spaced circumferentially along the central line of the ring having a diameter equal to the diameter of the roller for which the retainer is intended, then broaching the ring to form the circular opening into an opening having straight sides parallel with the axis of the ring and having its edges spaced substantially the distance of the diameter of said roller, then broaching from one side to the other side of the ring along the sides of said openings, slot-like openings of a circumferential



length larger than the diameter of said roller, and then shaving the material between the sides of the ring axially from said slot-like openings to form opposed roller pockets of substantially the curvature of the roller, substantially the entire curved surfaces of the opposed pockets contacting with the curved surface of the roller when the roller is sprung into said pocket between the straight sides of the opening spaced the diameter of the roller on one of the sides of the ring.

2,327,238
HYDRAULIC TRANSMISSION
Edmund W. Baggott, Brooklyn, N. Y., assignor of one-third to Charles Scotson and one-third to Harold B. Kaempf, both of New York, N. Y.
Application February 26, 1942, Serial No. 432,425
12 Claims. (Cl. 74—293)

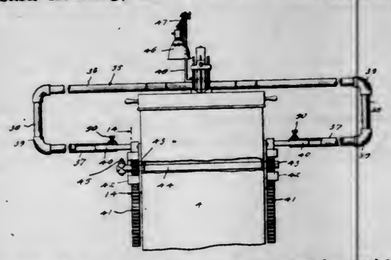


1. In a hydraulic transmission for transmitting power from a driving member to a member to be driven, the combination of two units each comprising a rotor, an enclosing casing and an impeller extending into the space between the rotor and casing, a liquid in the said space in each unit, a gear train connecting the driving member to one of said rotors, the other rotor directly connected to said driving member, means for connecting the casing of the last mentioned rotor to the member to be driven, and means for varying the relative positions of each rotor and its casing to vary the speed of the driven member relatively to the driving member.

2,327,239
JIGSAW
Herbert R. Bartlett. Barron, Wis.
Application December 12. 1941. Serial No. 422,746
4 Claims. (Cl. 143—70)

1. A jig saw comprising a base, a housing mounted thereon, a saw blade extending through the top of the housing, a power unit mounted in

the housing, for the saw blade, a motor in the housing for driving the saw blade, a stabilizing frame extending across and beyond opposite sides of said housing, a hold down foot arranged at



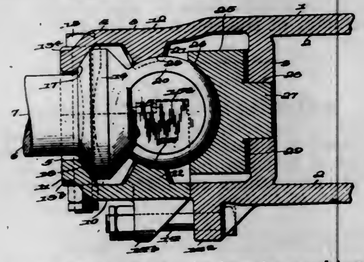
the top of the housing and carried by said stabilizing frame and manually operated means for raising and lowering said stabilizing frame with respect to the housing.

2,327,240

DRAFT RIGGING

Donald S. Barrows and Albert H. Lake, Rochester, N. Y., assignors to The Symington-Gould Corporation, Rochester, N. Y., a corporation of Maryland

Application March 29, 1939, Serial No. 264,832
11 Claims. (Cl. 213—71)



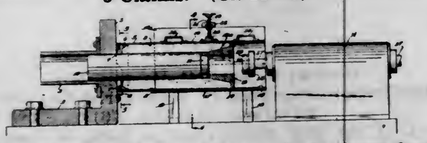
1. In a railway draft rigging, in combination, a yoke having a transverse wall and a hood portion projecting outwardly from said wall, said hood portion having a forwardly opening aperture defined by an inner concave spherical surface and intermediate concave spherical surfaces spaced from said inner surface, a coupler stem projecting through said aperture adapted to move universally with respect to the yoke and provided with lateral extensions in bearing relation with said inner concave surface and a rear convex spherical surface in bearing relation with said intermediate concave surfaces, and a removable bearing block interposed between said coupler stem rear surface and transverse wall.

2,327,241

APPARATUS FOR MOLDING GRANULAR CORK MATERIAL AND OTHER MATERIAL INTO ANNULAR RINGS, COLLARS, AND OTHER HOLLOW SHAPES

George G. Berger, New York, N. Y.

Application March 27, 1941, Serial No. 385,452
5 Claims. (Cl. 18—5)



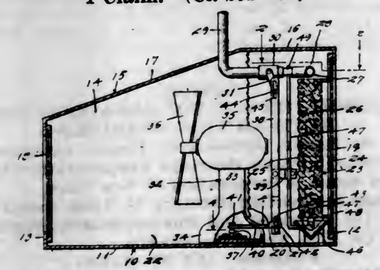
1. Apparatus for molding a body from loose material, comprising a mold having a longitudinal axis and a first open end and a second open end, said ends being opposed and being in alignment along said longitudinal axis, the second open end being located rearwardly of the first open end, a support for said mold, a first mold-member located in said mold rearwardly of the said first open end, said first mold-member having a periphery which fits slidably against the inner wall of the mold, retaining means secured to said mold and limiting the rearward movement of the first mold-member towards the second open end and permitting the forward movement of said first mold-member longitudinally towards said first open end, said first mold-member having a longitudinal bore, a plunger fitting slidably in said bore and movable to-and-fro relative to said first mold-member in a direction parallel to said longitudinal axis, said plunger being forwardly movable into and rearwardly movable wholly out of the bore of said first mold-member, a hopper which is aligned with said mold when said mold is mounted on said support, said hopper being located forwardly of said mold, said hopper having an end-wall which makes a snug fit with the end-wall of the mold at its first open end, said plunger being movable forwardly through said mold into said hopper and being rearwardly movable wholly out of said hopper, the inner wall of said hopper being of the same size and shape as the inner wall of the mold adjacent said first open end, a second mold-member, a front end-wall of said plunger being shaped to abut the rear end-wall of the second mold-member, said plunger being freely rearwardly movable relative to said second mold-member, said second mold-member having a peripheral portion which fits snugly and slidably against the inner wall of the hopper, means adapted to exert a rearward actuating force on said second mold-member to move it rearwardly in unison with the plunger while the first mold-member is held against rearward movement by said retaining means, the second mold-member having a rear shank which is shaped to close the bore of the first mold-member, the second mold-member being rearwardly movable out of the hopper and wholly into the mold into a position in which the shank of the second mold-member closes the bore of the first mold-member, holding means adapted to detachably lock the second mold-member in said position in said mold, said mold and said retaining means and said mold-members being movable together as a sub-unit away from said support and away from said hopper and siad plunger and independently of said hopper and said plunger when the second mold-member is in said position.

2,327,242

AIR CONDITIONER

Clarence A. Bolcom, Ionia, Mich.

Application June 9, 1941, Serial No. 397,286
1 Claim. (Cl. 261—30)



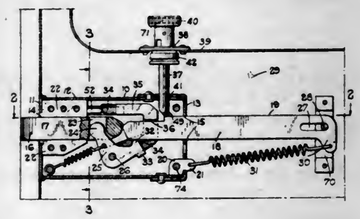
An air conditioner comprising a housing including perforate opposite end walls, an inner perforate wall dividing the interior of the housing into a vaporizing chamber and a fan chamber, a foraminous wall in said vaporizing chamber, means at the upper end of said foraminous wall discharging water thereonto, a collector below said foraminous wall, a fan in said fan chamber for drawing air through said foraminous wall and discharging the moistened air through one of said end walls, a swingable speed regulator for said fan, a valve member connected with said water discharging means, a vertical pitman, means rockably supporting said pitman in said housing, means slidably connecting one end of said pitman with said valve member, a horizontal pitman operating link, means pivotally connecting one end of said link with said regulator and the other end thereof with the other end of said pitman whereby adjustment of said regulator will simultaneously adjust the opening or closing of said valve member, a suction nozzle structure interposed between said valve member and said water discharge means, and a vertically disposed pipe connected with said nozzle and said collector for redischarge of the water entering said collector, said pitman supporting means including complementary clamping means engaging said pipe.

2,327,243

LOCK MECHANISM

John Holt Booth and Jennie Irene Booth, Lapley, England

Application May 29, 1942, Serial No. 444,984
In Great Britain July 7, 1941
18 Claims. (Cl. 292—165)



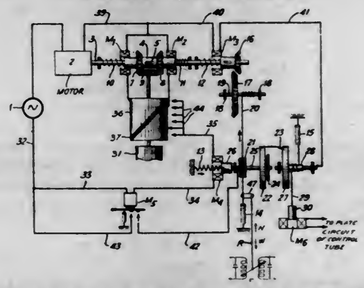
6. A lock having a casing containing a movable lock bar, a loading lever disposed behind said lock bar, said loading lever being mounted for movement in two directions, one in line with the lock bar, and one transversely to the length of the lock bar, a loading spring acting on said loading lever and opposing movement thereof in the direction in line with the lock bar and thus opposing retraction of the lock bar, a primary actuating lever pivoted to the casing and having one arm engaging the lock bar and the other engaged by the loading lever, a light actuating spring acting on said primary actuating lever, a primary operating member for rendering the loading spring ineffective for opposing the retraction of the lock bar, and for moving the lock bar into the retracted position, a secondary operating member for moving the lock bar into the retracted position, means on the primary operating member for locking the secondary operating member, said primary operating member being movable into a plurality of positions, in one of which it locks the secondary operating member, and means for retaining the primary operating member in any of said positions.

2,327,244

AUTOMATIC CONTROL OF TUNING AND BAND WIDTH

Heinz Boucke, Berlin, Germany; vested in the Alien Property Custodian

Application May 24, 1941, Serial No. 394,993
In Germany March 2, 1940
7 Claims. (Cl. 250—20)



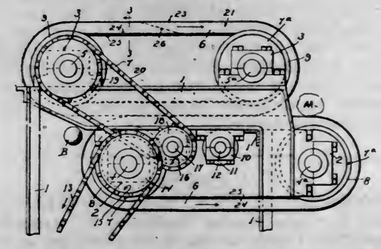
1. In a radio receiver provided with tuning means and means for controlling the band-width of the received signal, automatic control means including a motor for adjusting the tuning means to a plurality of predetermined stations, and means under control of said motor and operated upon cessation of the tuning means for effecting adjustment of the band-width control means in dependence upon the signal strength of the tuned-in predetermined station.

2,327,245

MASS BALLING MACHINE AND BELT

Edward W. Bridge, Philadelphia, Pa.

Application July 25, 1942, Serial No. 452,340
3 Claims. (Cl. 107—11)



1. As a new article of manufacture; an endless mass-balling machine belt comprising an endless flexible body of rubber-like material having its inner face straight across and having its outer face provided with at least one longitudinal groove of semi-circular cross section, the depth of the groove being at least equal to its radius of curvature, there being sharp longitudinal edges provided where the curve of the groove meets the un-curved outer surface of the body.

2,327,246

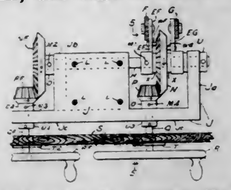
WINDOW

Edwin G. Bunjes, Los Angeles, Calif.

Application January 16, 1940, Serial No. 314,063
7 Claims. (Cl. 268—21)

1. In a closure device having a plurality of movable sections, a combination including: a first means for moving certain of said sections independently of the others; said means comprising an angularly movable member carrying a tappet; and a second means for moving all of said sections simultaneously from certain positions, said sec-

ond means comprising a second angularly movable member carrying a tappet; said members having coincident rotational axes; said second means also comprising a component having a recess therein; one edge of said recess adapted



to engage said tappets for moving their associated members in one direction, and the opposite edge of said recess adapted to engage said tappets for moving their associated members in the opposite direction.

2,327,247

METHOD FOR PRODUCING ASPHALT

Donald E. Carr, Los Angeles, and Harold W. Ritchey, Long Beach, Calif., assignors to Union Oil Company of California, Los Angeles, Calif., a corporation of California

No Drawing. Application June 16, 1939, Serial No. 279,492
6 Claims. (Cl. 196—22)

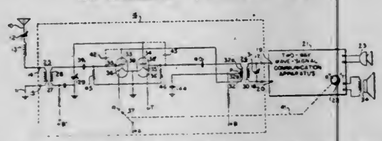
1. A method for producing relatively non-photosensitive asphalt from relatively photosensitive asphalt which comprises mixing said asphalt with a solvent capable of dissolving oil but incapable of dissolving asphaltenes at the temperature employed, separating a solution of oil in said solvent from said asphaltenes, subjecting said separated oil to extraction with a solvent capable of dissolving relatively non-paraffinic oil fractions but not relatively paraffinic oil fractions, separating said relatively non-paraffinic oil fractions from said relatively paraffinic fractions, distilling said relatively paraffinic fractions to remove light and medium lubricating oils and commingling the remaining heavier paraffinic oil fractions with said separated asphaltenes to produce a relatively non-photosensitive asphalt.

2,327,248

WAVE-SIGNAL TRANSLATING CHANNEL

Nelson P. Case, Great Neck, N. Y., assignor to Hazeltine Corporation, a corporation of Delaware

Application May 8, 1942, Serial No. 442,158
10 Claims. (Cl. 178—44)



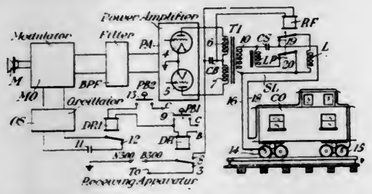
8. A wave-signal translating channel comprising, a pair of terminal circuits for said channel, a pair of vacuum-tube repeater devices each including input and output electrodes coupling said terminal circuits to effect translation of wave signals therebetween in one direction through one of said devices and in an opposite direction through the other of said devices in accordance with selective energization of said repeater devices, a resonant circuit included in said channel and tuned to a selected operating frequency, the input electrodes of one of said devices and the output electrodes of the other of said devices being coupled to said resonant circuit, the impedance values of the input circuit parameters of said one device being so proportioned with relation to the impedance values of the output circuit parameters of said other device in its conductive state that the resonant frequency of said tuned circuit is substantially constant with selective energization of said devices.

2,327,249

TRANSMITTING APPARATUS FOR RAILWAY TRAIN COMMUNICATION SYSTEMS

Austin M. Cravath, San Francisco, Calif., assignor to The Union Switch and Signal Company, Swissvale, Pa., a corporation of Pennsylvania

Application June 25, 1942, Serial No. 448,330
15 Claims. (Cl. 246—8)



1. In train carried transmitting apparatus for a railway train communication system using a sending loop circuit interposed between the transmitting apparatus and two spaced wheels of the train to supply communication current to the rails, the combination comprising, an inductance, a load reactance, and switching means operable at times to connect said inductance and load reactance to said sending loop circuit to develop a voltage for breaking down the resistance of a wheel-to-rail contact of said sending circuit.

2,327,250

METHOD OF TREATING COTTON WADDING AND PRODUCT THEREOF

George A. Cruickshank, Riverside, R. I., assignor to Johnson & Johnson, New Brunswick, N. J., a corporation of New Jersey

No Drawing. Application January 5 1940, Serial No. 312,624
8 Claims. (Cl. 210—203)

5. A filter disk having good handling qualities, normal porosity and absorbency, and high resistance to washing, comprising cellulosic wadding the surface fibers of which are bonded by a bond made from a water solution of a bond of the hot-water soluble cold-water insoluble type containing not less than about 0.1% and not more than about 2% of polyvinyl alcohol.

2,327,251

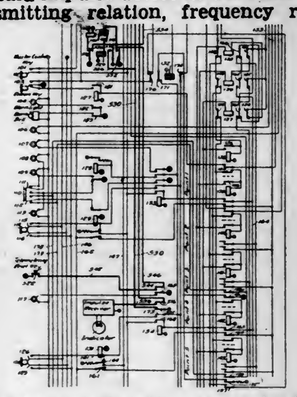
SUPERVISORY CONTROL AND TELEMETERING SYSTEM

Willard A. Derr, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application July 29, 1941, Serial No. 404,452
8 Claims. (Cl. 177—351)

1. In a combined supervisory control and remote metering system, a carrier current channel extending between a control station and a remote station, supervisory control means at the stations, means including said supervisory control means for selectively operating from the control station over the carrier current channel a plurality of point relays at the remote station,

means including said supervisory control means responsive to the operation of a selected point relay at the remote station for operating a corresponding point relay at the control station, an impulse device at the remote station operable at a frequency proportional to a quantity to be indicated at the control station for transmitting telemetering impulses from the remote to the control station over said carrier current channel at frequencies proportional to the said quantity, means responsive to the operation of said selected point relay at the remote station for connecting said impulse device at the remote station in transmitting relation, frequency responsive



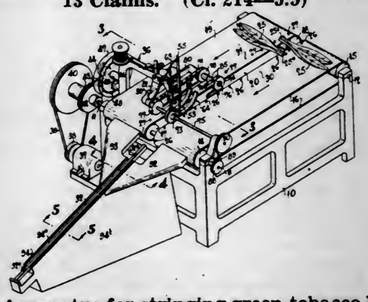
means at the control station responsive to the frequency of the impulses transmitted from the remote station, means responsive to the operation of the said corresponding point relay at the control station for connecting said frequency responsive means to be actuated by the impulses transmitted from the remote station, means at the control station for applying a release impulse to the supervisory control means of longer duration than any of the quantity indicating impulses, and means responsive to the application of such a release impulse only to the supervisory control means for deenergizing said operated point relays at the control and remote stations.

2,327,252

APPARATUS AND METHOD OF STRINGING TOBACCO

William F. Dickerson, Hamptonville, N. C.

Application April 9, 1942, Serial No. 438,259
13 Claims. (Cl. 214—5.5)



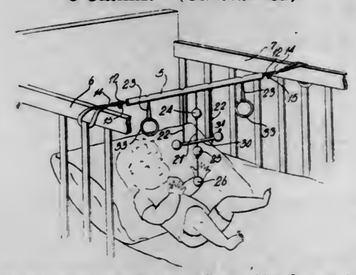
1. Apparatus for stringing green tobacco leaves on a stick preparatory to a curing operation, comprising a sewing machine having looping mechanism for forming a continuous string, means for conveying two rows of tobacco leaves with their butt ends in overlapping staggered relation past the looping mechanism to join the leaves by the formation of the continuous string, means for supporting a stick in the path of movement of the connected leaves and below the line formed by the string, so that when relative vertical movement between the stick and the leaves is effected the leaves on one side of the seam will be disposed on one side of the stick and the leaves on the other side of the seam will fall on the other side of the stick.

2,327,253

INFANT EXERCISER

Vernon G. Eisel, Brooklyn, N. Y., assignor to Childhood Interests, Inc., a corporation of New Jersey

Application May 21, 1942, Serial No. 443,946
8 Claims. (Cl. 272—61)



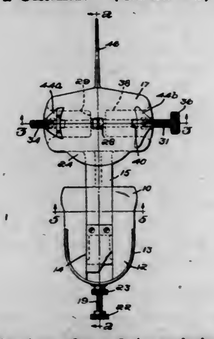
1. An infant exerciser for attachment to the upper portion of a crib, comprising a supporting element adapted to extend part way across the crib and above an infant placed therein, means for attaching the ends of said supporting element to the top opposite side bars of the crib, depending elements of successively increased length from the sides toward the center attached to said supporting element at spaced intervals therealong, and hand grip climbing elements carried by the lower ends of said depending elements, at correspondingly increasingly lower levels.

2,327,254

FLARE INDICATOR

Frederick F. Fisher, Providence, and Charles T. Heilborn, Bristol, R. I.

Application October 17, 1942, Serial No. 462,424
4 Claims. (Cl. 33—3)



1. An indicator for determining foot flare, comprising a heel portion, a slide portion adjustably slidably mounted with respect to said heel portion, a member for receiving the ball of the foot, edge members mounted for transverse adjusting movement thereon, said member being pivotally mounted on said slide portion with the pivot in axial alignment with the heel portion

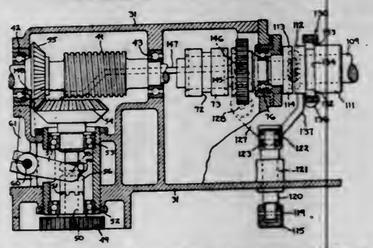
center, and means for moving said movable edge members laterally on said member while maintaining said edge members equidistant from the pivot, said slide portion having a flare indicator in alignment with the centers of the heel portion and the ball receiving member.

2,327,255

CYLINDRICAL GRINDING MACHINE

Carl G. Flygare and Stewart S. Mader, Worcester, Mass., assignors to Norton Company, Worcester, Mass., a corporation of Massachusetts

Application March 7, 1941, Serial No. 382,200
8 Claims. (Cl. 74—27)



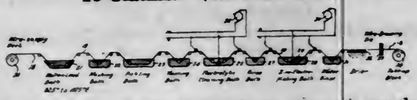
1. In a grinding machine having a base, a longitudinally reciprocable table thereon, means including a reversing lever and clutch to reciprocate said table, a driving mechanism including a start and stop clutch to drive said reversing clutch and table, and means actuated automatically in timed relation with movement of said reversing lever to disengage said start and stop clutch during table reversal for a predetermined period of dwell.

2,327,256

CARBON-STEEL ALTERNATING-CURRENT CONDUCTOR

Frank F. Fowle, Winnetka, Ill., and Frederick M. Crapo, Muncie, Ind.

Original application August 2, 1941, Serial No. 405,232. Divided and this application May 16, 1942, Serial No. 443,312
10 Claims. (Cl. 174—134)



1. A carbon-steel alternating-current conductor which is made of hypoeutectoid steel containing at least 0.20% of carbon, not in excess of 0.30% of manganese, not in excess of 0.10% of silicon, and not in excess of 0.05% of phosphorus, and which has a tensile strength above 120,000 pounds per square inch, has an elongation of the order of 4% to 8%, and when in bare wire of No. 12 BWG size has an effective A.-C. resistance to currents of 5 milliamperes at 1000 cycles per second of the order of 7.2 to 8.3 ohms per thousand feet, measured at 80° F.

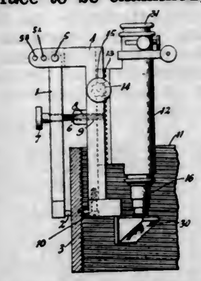
2,327,257

OPTICAL INSPECTION DEVICE

Charles L. Gary, Kenmore, and Kennard W. Harper, East Aurora, N. Y., assignors to Spencer Lens Company, Buffalo, N. Y., a corporation of New York

Application November 30, 1940, Serial No. 367,988
4 Claims. (Cl. 88—14)

1. In a device of the character described for examining the interior surface of an article, a support, said support having a portion adapted to extend into the interior of an article, the interior surface of which is to be examined, a source of illumination and a reflector member adjacent the end of said support adapted to extend into the interior of said article, said light source being adapted to project a slit of light onto the surface to be examined, a microscope



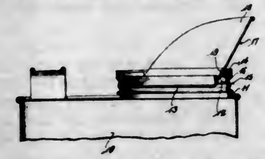
adjustably mounted on said support and in optical alignment with said reflector member, said reflector being adapted to reflect an image of the surface being examined into said microscope, a reticule in alignment with said microscope and means for rotating said reticule for aligning the same with the image of the object being examined.

2,327,258

DETACHABLE POUR SPOUT

Alfred J. Gramp, Atlantic City, N. J.

Application April 23, 1941, Serial No. 389,979
3 Claims. (Cl. 221—23)



1. In a receptacle including a boss having an annular flange defining a central aperture, a sleeve adapted to contact and surround said boss said sleeve having an annular flange adapted to overlie and contact a portion of the flange of the boss, and a pour spout of resilient material including a lip portion and an arcuate flange extending for less than 360°, said flange being adapted to nest between the flanges of said boss and said sleeve to be held thereby.

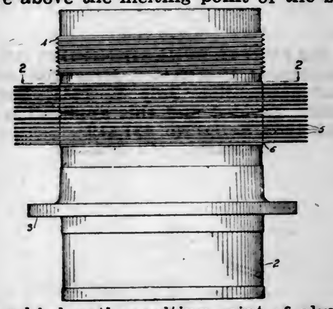
2,327,259

METHOD OF FINNING

Arthur W. Gay, Akron, Ohio, assignor to Edna B. Jones, Akron, Ohio

Application January 29, 1941, Serial No. 376,496
12 Claims. (Cl. 29—156.4)

1. The method of producing a ferrous metal cylinder barrel for an air-cooled internal combustion engine with aluminum cooling fins on the exterior surface thereof, which includes the steps of coating that portion of the exterior surface of a ferrous metal cylinder barrel which is to receive the cooling fins with a metal adapted to bond aluminum to itself and to ferrous metal and having a relatively low melting point as compared with ferrous metal, applying a thin metal layer over said bonding metal characterized by being non-oxidizing when heated to the melting point of the bonding metal and having a melting point above that of aluminum, coating the inner edge portions of arcuate aluminum fin members with said bonding metal, assembling a plurality of fin members in spaced relation along the barrel with the coated edge portions of the fins adjacent the barrel, heating the assembled fins and barrel to a predetermined temperature above the melting point of the bonding



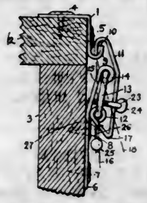
metal and below the melting point of aluminum, and while so heated, moving the inner edge surface of the fins against the wall of the barrel with sufficient pressure to pierce the coatings and bring the aluminum of the fin members into contact with the ferrous metal of the barrel and extrude the bonding metal outwardly between adjacent fins to form a strut therebetween.

2,327,260

TOGGLE CATCH FOR BOXES

Harry D. Greenman, New York, N. Y.

Application April 15, 1942, Serial No. 439,113
4 Claims. (Cl. 292—114)



1. A toggle catch for a box comprising a base plate adapted to be attached by screws at its lower portion to the side of the box, the upper portion of the plate being bent outward and provided with a loop; a link made of heavy wire bent in the form of a rectangular ring rotatively held at one side in the loop; and a latch member having a loop at the lower end engaging the other side of the link, the upper end of the latch member having a hook adapted to engage a keeper on the lid of the box and to partly cover a screw fastening the keeper to the front portion of the lid, the intermediate portion of the latch member being bent downward from the loop, forming an elbow partly covering one of the fastening screws on the base plate and serving as a handle for the latch member, the latch member and the link forming a toggle joint for drawing the lid against the box.

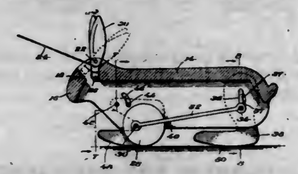
2,327,261

FIGURE TOY

August Gunterhack, Chicago, Ill.

Application September 8, 1942, Serial No. 457,669
3 Claims. (Cl. 46—105)

1. A toy comprising a figure, a rotary floor engaging wheel means supporting one end of the figure, floor engaging legs pivotally connected with the other end of the figure, a crank fixed to said wheel means, an operating connection between said crank and said legs to oscillate the latter and impart a rocking motion to the figure through rotation of said wheel means, second legs loosely connected with the figure at the end



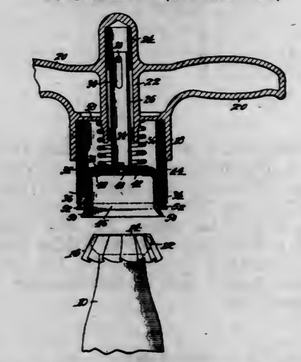
thereof opposite said first-mentioned legs to oscillate through rocking of the figure, said figure being provided with a head having ears pivotally connected therewith and balanced to normally stand upright, and a pull line connected with said ears to draw the figure and pivot said ears back upon the head.

2,327,262

BOTTLE CAPPER

George W. Hall, Leominster, Mass., assignor, by mesne assignments, to Aluminum Company of America, a corporation of Pennsylvania

Application April 7, 1941, Serial No. 387,218
10 Claims. (Cl. 226—85)



1. In a bottle capping device, a cylindrical casing open at one end, a substantially cylindrical deformable element in said casing and mounted for sliding movement therein at said open end, resilient projections on the exterior surface of said element, said projections normally extending radially outwardly beyond the inner surface of said casing at its open end and adapted for engagement with said casing at its open end to compress said element upon such movement, said element being straight sided interiorly for reception of the bottle.

2,327,263

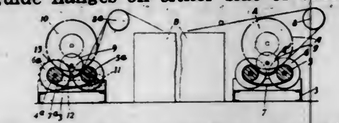
COILING STRIP MATERIAL

Albert Richard Norman Heath and Theodore Charles Tapp, London, England

Application April 7, 1941, Serial No. 387,334
In Great Britain April 30, 1940
3 Claims. (Cl. 242—66)

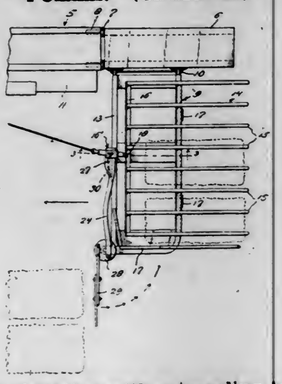
1. Apparatus for coiling a plurality of coils of strip material comprising a pair of horizontal shafts having spaced parallel axes, rollers mounted on said shafts, a slack endless belt connecting each pair of rollers and adapted to form an

arcuate bearing member for the edge of each coil which bears upon the upper surface of said belt, guide flanges on either side of each roller



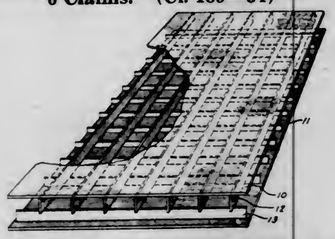
to prevent lateral displacement of the coils, and means for driving the shafts so as to impart rotation to the coils.

2,327,264
BALE CARRIER FOR HAY BALERS
Clifford W. Hendrickson, Kildare, Okla.
Application November 11, 1942, Serial No. 465,277
4 Claims. (Cl. 214—65)



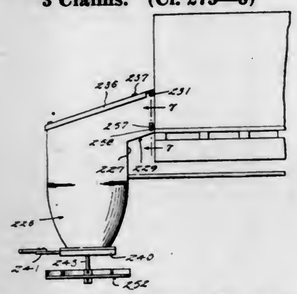
1. In combination with a traveling type baler, including a foldable tail board to receive a bale after being formed by the baler, a carrier frame hinged on the tail board and extending laterally therefrom, a ground wheel for the support of said frame, a dumping rack carried by said frame to have bales placed thereon from the tail board, and a latch means for sustaining the rack in carrying position.

2,327,265
BUILDING CONSTRUCTION PANEL
Richard F. Herr, Warren, Ohio
Application January 7, 1941, Serial No. 373,442
6 Claims. (Cl. 189—34)



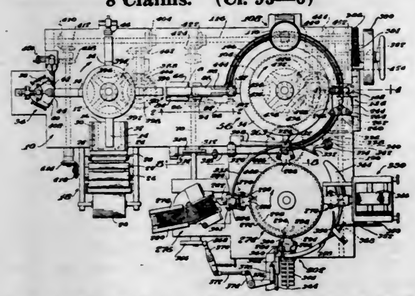
1. As an article of manufacture a metallic panel comprising exterior sheets of metal forming faces of the panel spaced apart and secured together through a dual assembly of spacing strips, each of said assemblies comprising a plurality of vertically disposed spacing strips affixed to one of the exterior sheets of metal and positioned on a different plane and at an angle to the axis of the spacing strips of the other assembly so that the spacing strips affixed to one exterior sheet cross the spacing strips affixed to the other exterior sheet, the said spacing strips affixed to each other at the points where the said strips touch so that metallic contact between the assemblies of spacing strips exists only at the points between the edges of the strips.

2,327,266
MATERIAL SPREADING DEVICE
George O. Hoffstetter, Jerseyville, Ill.
Original application July 7, 1941, Serial No. 401,362. Divided and this application February 18, 1942, Serial No. 431,419
3 Claims. (Cl. 275—8)



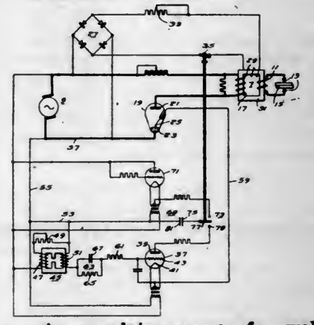
1. A spreader attachment for a truck body comprising in combination a spreader unit, a chute carried by said unit and extending forwardly and upwardly therefrom, a pair of upright angle-shaped supporting members adapted to be fixed to said body, each member having a notch in the upper end of one side and an opening adjacent the lower portion thereof, a horizontal bar fixed to the upper portion of said chute and engageable in said notches, and spring-pressed locking members carried by said chute engageable in said openings for removably locking said unit on said supporting members.

2,327,267
PACKAGING MACHINE
Stanley R. Howard, Milton, Mass., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass., a corporation of Massachusetts
Application July 14, 1939, Serial No. 284,409
8 Claims. (Cl. 93—6)



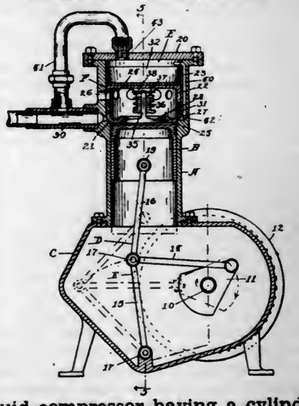
1. A machine for producing a package including a carton and a closed liner, comprising: a conveyor having a plurality of bag-receiving pockets each adapted to receive an empty liner-bag therein and to convey the same through a filling and closing cycle; conveying means operating in timed relation to the bag conveyor for successively positioning a series of open, empty cartons in alignment with a pocket containing a filled and closed bag; and transfer mechanism cooperating with said bag conveyor and carton conveying means, and operating in timed relation to both, for engaging a filled and closed bag and causing the same to move out of said pocket and into the empty carton.

2,327,268
ELECTRIC DISCHARGE APPARATUS
Harold C. Jenks, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 11, 1939, Serial No. 289,557
8 Claims. (Cl. 219—4)



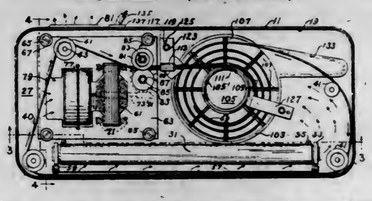
1. For use in supplying power for welding a material from a source of current the combination comprising reactive means having a magnetizable core interposed between said source and said material, valve means for controlling the supply of welding current through said reactive means to said material and means for rendering said valve means conductive to supply welding current to said material for an interval of time such that when current flows through said reactive means is interrupted the decay of flux in said reactive means causes the flow of sufficient current through said material to anneal it.

2,327,269
AIR COMPRESSOR
Sellers E. Jessup, Los Angeles, Calif.
Application May 26, 1941, Serial No. 395,162
5 Claims. (Cl. 230—231)



1. A fluid compressor having a cylinder forming a compression chamber, a piston reciprocable in said compression chamber, said cylinder having a return check valve chamber of increased diameter and provided with an annular valve seat between said compression and valve chambers, and an outlet duct for compressed fluid from said valve seat, a piston return check valve reciprocable in said valve chamber in cooperation with said seat controlling the return of compressed fluid into the compression chamber, said piston return check valve having an intake duct through the wall of said cylinder entering the compression chamber for fluid to be compressed, an intake check valve controlling the fluid entering the compression chamber through said return check valve, said return check valve chamber having a connection with said outlet duct by which compressed fluid is admitted into said valve chamber above the return check valve tending to close said return check valve upon said seat, and a check in said last mentioned connection for preventing the return of compressed fluid admitted into said valve chamber.

2,327,270
DISPLAY DEVICE
Jay M. Johnson, Detroit, Mich.
Application December 12, 1940, Serial No. 369,794
4 Claims. (Cl. 40—32)

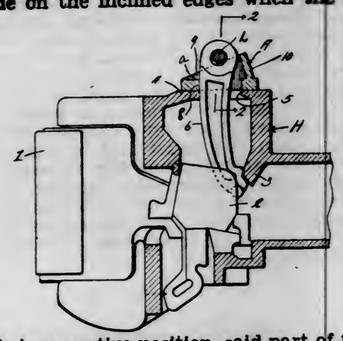


1. In an illuminated moving sign exhibiting device, an endless flexible display strip, a casing of opaque material having an elongated display window opening, motive means in said casing, means driven by said motive means for moving said display strip in said casing past said display window, an elongated lamp in said casing for projecting light through said display strip and window, a blower for drawing air in through the window and discharging air from the casing, and a baffle reflector strip in said casing disposed behind the light source for reflecting light out through the display window and the adjacent portion of the moving display strip while also serving to baffle the cooling air to circulate from the window around the interior of the casing to carry heat from the elements enclosed therein.

2,327,271
SAFETY ATTACHMENT FOR CAR-COUPLER LOCKS
Sylvester L. Joiner, Sweetwater, Tex., assignor of three-fourths to Robert E. Graves, Brownwood, Tex.
Application August 25, 1941, Serial No. 408,268
1 Claim. (Cl. 213—146)

In combination with the coupler head and lift pin of a standard D top operated car coupler and a lifting means for the pin, the opening in the top wall of the coupler being of a length materially in excess of the width or corresponding dimension of the pin, the coupler having an internal part providing a coupling for the inserted end of the pin to allow the pin to have swinging movement along the slot, a member positioned upon the top of the coupler head and having an opening through which the lift pin freely passes, said opening being also of a length materially in excess of the width or corresponding dimension of the lift pin to permit swinging movement

of the pin, said member at opposite sides of the opening therethrough being provided with upstanding flanges, the upper edges of the flanges being inclined downwardly and forwardly, a part of the lifting means for the pin being adapted to ride on the inclined edges when the coupler



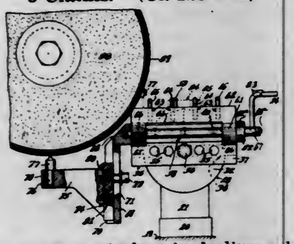
lock is in operative position, said part of the lifting means sliding downwardly on said edges under the weight of the pin, to move the pin inwardly of the coupler head under sufficient stress to hold the lock of the coupler against release as a result of shocks and jars.

2,327,272

DRESSER FOR GRINDERS

Lawrence M. Jones and Halvor E. Anderson, Harvey, Ill.

Application January 27, 1941, Serial No. 376,048
5 Claims. (Cl. 125—11)



1. A dresser for grinders including a base having an upright standard adapted to be held on the work bed of a surface grinder at right angles or parallel to the grinding wheel thereof and having a flat vertical face plate, a flat faced disk against the face plate and pivoted thereto on a horizontal axis, a support fixed to the face plate across the axis thereof, a tool holder slidably mounted thereon parallel to the face plate and perpendicular to the pivot axis and for adjustment to horizontal or oppositely inclined positions, a plurality of pivots carried by the support outwardly of the tool holder and a lever interchangeably engageable on said pivots and with the tool holder to reciprocate the same on the support.

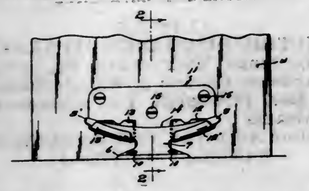
2,327,273

ACCESSORY FASTENING FOR MARINE VESSELS

Bertram F. Kehrer, Seattle, Wash.

Application February 4, 1942, Serial No. 429,528
5 Claims. (Cl. 114—218)

5. As a fitting for a marine vessel, attachment devices for mounting accessory equipment and consisting of the combination of an anchoring member comprised of a standard marine cleat having a base part adapted to be secured upon the vessel and presenting an upstanding neck and paired arms projecting laterally from opposite sides of the neck; and a complementary member detachably associated with the cleat providing a mounting plate arranged to be fixed to the accessory piece and having outwardly projecting integral wing elements functioning to



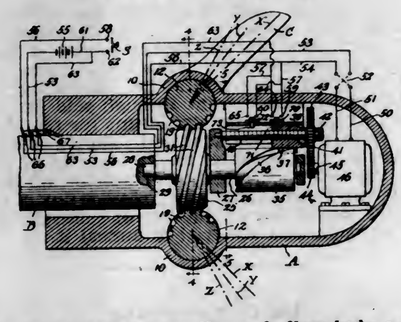
perform a hooking function relative to the arms of the cleat, said wing elements being spaced apart a distance generally corresponding to the span of the neck part of the cleat and being each terminally cupped to a shape snugly fitting a respective arm of the cleat in saddling relation to the underside of the latter.

2,327,274

VARIABLE PITCH AERIAL PROPELLER

Morris Levine, New York, N. Y., assignor of one-half to Sigmund Einstoss, Brooklyn, N. Y.

Application February 27, 1942, Serial No. 432,581
2 Claims. (Cl. 170—163)



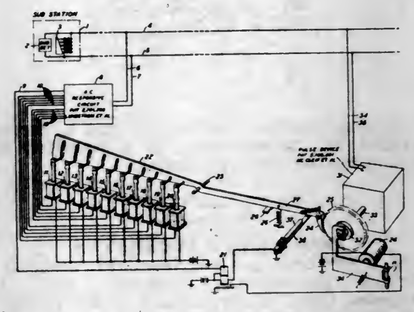
1. In an aerial propeller, a hollow hub, a plurality of blades each having a shank at the inner end thereof provided with worm teeth, means mounting the blade shanks within the hub for turning movement of the blades on thier axes to vary the pitch of the same, a worm wheel mounted within the hub to turn with reference thereto on an axis extending longitudinally of the hub with the teeth of the worm wheel engaging the worm teeth of the blade shanks, a rotary head secured to the worm wheel and having a helical cam groove, an actuator block having a cam lug engaging said cam groove, said block being mounted for guided movement in the path parallel to the axis of the rotary head, a feed screw threadedly engaging the actuator block for moving the same in said path of movement, a reversible electric motor connected with the feed screw for turning the same, a circuit including said motor, and a manually operable reversing switch, a normally opened, manually closable switch for starting the motor, and a switch controlled by the actuator block for maintaining the motor circuit closed for a predetermined period and for automatically breaking the circuit after the actuator block has traveled a predetermined distance so as to effect a predetermined variation in the pitch of the blades.

2,327,275

SIGNALING SYSTEM

Benjamin F. Lewis, Bayside, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application August 28, 1941, Serial No. 408,597
5 Claims. (Cl. 179—16)



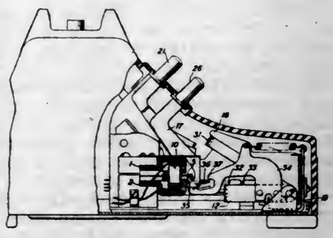
1. In a signaling system a line, a signal transmitter at one end of said line, said transmitter comprising means to send digital signals the elements of each signal being transmitted simultaneously, signal controlled means at the other end of said line comprising means responsive to digital signals, each said signal comprising a train of sequentially arranged impulses, and a translator in said line for changing said first type of signals to corresponding numerical trains of impulses, said translator comprising a plurality of magnets each responsive to a different incoming signal, a pivoted bar, lost motion connections between said magnets and said bar whereby each said magnet may move said bar through a correspondingly different arc, a pawl controlled by said bar and a transmitter for sending trains of sequentially arranged impulses having a ratchet wheel controlled by said pawl.

2,327,276

ALTERNATING CURRENT GENERATOR

Clarence A. Lovell, Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application May 14, 1941, Serial No. 393,405
2 Claims. (Cl. 179—90)



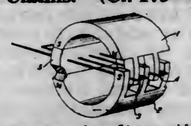
1. An alternating current generator comprising a simple magnetic circuit containing magnetic material of high retentivity, a multiple magnetic circuit containing magnetic material of low retentivity, a plurality of vibratable reeds each having a different natural period of vibration, said reeds being included in said multiple magnetic circuit and an electrical circuit comprising a coil wound about said reeds.

2,327,277

ALTERNATING CURRENT GENERATOR

Clarence A. Lovell, Maplewood, N. J., Rudolph F. Mallina, Hastings on Hudson, N. Y., and David B. Parkinson, Maplewood, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application May 21, 1941, Serial No. 394,460
5 Claims. (Cl. 179—90)



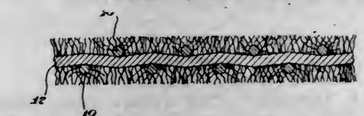
1. An electrodynamic alternating current generator comprising a permanent magnet for supplying a field, an electrical circuit comprising conductors in said field formed of resilient wire into a series of loops each said loop constituting a separate reed having a different given natural period of vibration, and mechanical means for selectively plucking said reeds.

2,327,278

BLANKET

Joseph M. Lurie, Lewiston, Maine, assignor to W. S. Libbey Company, Lewiston, Maine, a corporation of Maine

Application September 24, 1942, Serial No. 459,477
1 Claim. (Cl. 28—80)



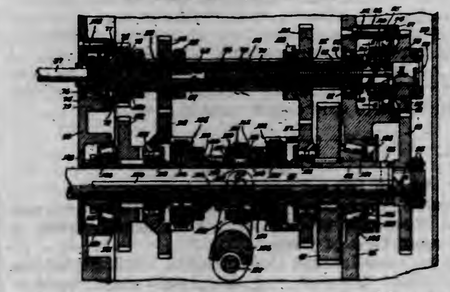
A woven blanket having the weft threads thereof composed of modified cotton having the fibers thereof in a loose condition, said fibers having deposited thereon an acid form of an amphoteric protein whereby to convert them from their normally soft condition to a condition having the wiry, harsh feeling and general workability of China cotton, said wiry cotton weft threads imparting to the blanket the wiry feeling and characteristics of a blanket made of China cotton.

2,327,279

SCREW MACHINE

Judson H. Mansfield, Rockford, Ill., assignor to Greenlee Bros. & Co., Rockford, Ill., a corporation of Illinois

Application June 1, 1942, Serial No. 445,329
24 Claims. (Cl. 10—130)



22. In a screw machine, a reciprocably mounted slide, means for reciprocating said slide, a rotatable spindle mounted for axial sliding movement, means for advancing said spindle, means for retracting said spindle, and means for gov-

erning said spindle advancing and retracting means including a control member having a neutral position wherein both spindle shifting means are inoperative, a position to one side of neutral wherein the spindle advancing means is operative, and a position to the other side of neutral wherein the spindle retracting means is operative, a load and fire device operable to shift said control member from its spindle advancing position through neutral to its spindle retracting position, means actuated by said slide to position said control member in its spindle advancing position and to cock said load and fire device, latch means for holding said control member in its spindle advancing position and said load and fire device in cocked position, a control rod axially shiftable mounted parallel with said spindle, a pair of axially spaced collars on said control rod, a dog carried by said spindle disposed between said collars and positioned to engage one collar and shift said control rod in one direction as the spindle approaches the end of its advancing movement and to engage the other collar and shift said control rod in the opposite direction as the spindle approaches the end of its retracting movement, a rock shaft having a first arm rigid therewith and operatively associated with said control rod to be swung by movement of the rod, means for releasing said latch means including a second arm fixed on said rock shaft, and means for returning said control member from its spindle retracting to its neutral position including a third arm rigid with said rock shaft.

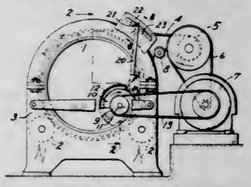
2,327,280

CUTTING MACHINE

James F. McCashen, Bay Village, Ohio, assignor to Rotary Cutters, Inc., Cincinnati, Ohio, a corporation of Ohio

Application April 6, 1942, Serial No. 437,729

6 Claims. (Cl. 83—6)



1. Apparatus of the class described comprising a rotatable cylinder having a longitudinal horizontal axis, comminuting means rotatable about a horizontal axis in said cylinder adjacent to the down coming surface of the latter, the axis of said means being disposed on a plane passing through the axis of said cylinder and inclined at between about 25 degrees and about 60 degrees to a vertical plane passing through the axis of the cylinder, and means in the cylinder for deflecting material from the inner surface of the cylinder onto said comminuting means.

2,327,281

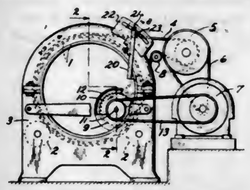
METHOD OF MAKING CHOCOLATE

James F. McCashen, Bay Village, Ohio, assignor to Rotary Cutters, Inc., Cincinnati, Ohio, a corporation of Ohio

Original application December 23, 1938, Serial No. 247,385. Divided and this application April 6, 1942, Serial No. 437,730

5 Claims. (Cl. 99—23)

1. The method of making chocolate which includes the steps of cutting cocoa beans and parts thereof while rapidly moving in the air, permitting liberated vapors to escape from the thus comminuted material oil, retaining oil liberated from said material, and repeating such steps until the comminuted material oil has a viscosity of about 30°, as measured by a standard McMichael torsion wire viscometer.



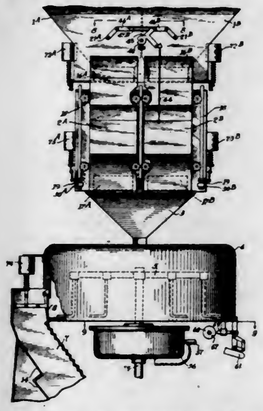
2,327,282

PROCESSING APPARATUS

Lloyd A. McComb, Los Angeles, Calif., assignor to Brinck Engineering Company, Inc., Los Angeles, Calif., a corporation of California

Application July 26, 1941, Serial No. 404,182

8 Claims. (Cl. 34—45)



1. In combination: a processing chamber having an intake and a discharge; a timer movable through successive cycles; means for moving the timer; operating means controlled by the timer for successively opening the intake and the discharge during each of said cycles; a control movable to operative position; means for stopping movement of the timer responsive to movement of the control to operative position; a driving connection connected to the timer for moving moving the control toward operative position proportionally to movement of the timer; and means for preadjusting the driving connection so that the control is moved to operative position by the timer at completion of movement of the latter through a selected number of cycles.

5. In combination: supply hoppers; a processing chamber having an intake from each supply hopper; a valve controlling each intake; a discharge from the processing chamber; a valve controlling the discharge; a timer movable through successive cycles; driving means for the timer; means for operating the valves; and means for adjusting the operating means so as to select any one of the intake valves for operation; the operating means being controlled by the timer for successively opening the selected intake valve and the discharge valve during each of said cycles.

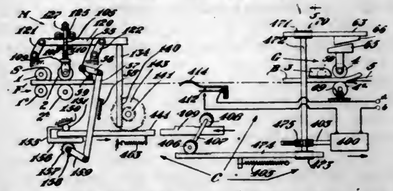
2,327,283

GRADING MACHINE

Arthur G. B. Metcalf, Milton, Mass., assignor to North American Holding Corporation, Syracuse, N. Y., a corporation of New York

Application April 23, 1941, Serial No. 389,854

3 Claims. (Cl. 33—147)



1. In a grading machine wherein a controlled member is caused to assume different positions corresponding to grades, grading means, a grading control mechanism for adjusting said grading means, and electric motor means for moving said grading control mechanism into positions determined by said controlled member.

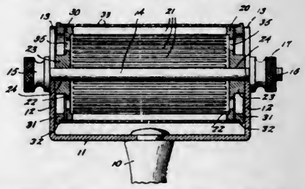
2,327,284

MANUALLY OPERATED DRY SHAVER

Barney R. Nyhagen, Bronx, N. Y.

Application September 8, 1938, Serial No. 228,955

3 Claims. (Cl. 30—43)



1. A manually operable dry shaver including a handle having a bearing yoke at one end provided with a pair of spaced parallel slotted arms, a bolt extending through the slotted portions of the arms, an inner hollow cylindrical cutter element having protruding bosses at its opposite ends clamped against rotation by said bolt between the arms, longitudinally extending radial slots formed in said cutter element defining cutting teeth, and an outer hollow cylindrical cutter element having perforations providing cutting teeth, said outer cutter element surrounding the inner cutter element and mounted thereon to freely turn with reference thereto for cooperative cutting engagement of the teeth of the inner and outer cutter elements.

2,327,285

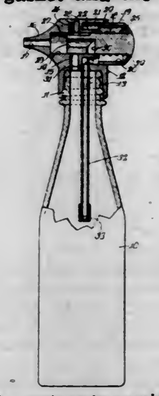
LIQUID DISPENSING DEVICE

Frederick W. Opitz, Chicago, Ill.

Application October 6, 1941, Serial No. 413,774

1 Claim. (Cl. 215—3)

A liquid dispensing device for a bottle and the like comprising a casing to be secured to the neck thereof, there being a horizontal bore in said casing, a reciprocal plunger mounted in said bore, a discharge spout at one end of said casing and communicating with said bore, a passageway extending through said plunger communicating said spout with the inside of said bottle when said plunger is in its depressed position, there being a pressure chamber in said casing adjacent the other end of said plunger, an annular collar surrounding said plunger within said pressure chamber, a gasket mounted between said collar and said plunger, a cap carried by said plunger and reciprocally mounted in said pressure chamber, a tubular member communicating said pressure chamber with the inside of said bottle, and a spring mounted on said plunger having one end engaging said gasket and the other end engaging said cap for returning said plunger and cap to their outermost position and for retaining said gasket in position.



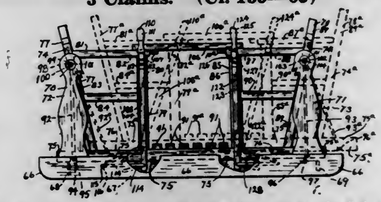
2,327,286

CHAIR GLIDER

Abe Oslick, Philadelphia, Pa.

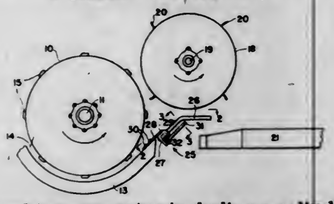
Application November 18, 1939, Serial No. 305,157

3 Claims. (Cl. 155—65)



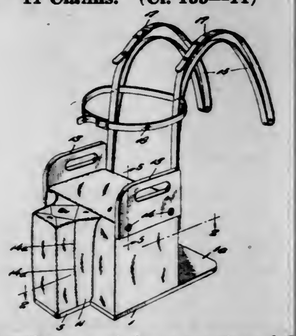
1. In a swinging chair glider mounted to swing from the upper parts of upstanding side supports, and including a chair having a frame which includes beam members in its lower part, and chair arms in its upper part, hanging looped rods having the upper ends of the leg portions thereof pivoted in the upper parts of said upstanding supports, and having the lower portions of said rods pivoted in supporting relation with said beam members, adapting said chair to swing from the upper ends of said side supports, and manually operable means for said glider adapted to enable one sitting in said chair to swing the same back and forth upon said side supports, said means including a bar member having a U-shape with spaced arm portions connected by a cross portion beneath said chair frame, the ends of said arm portions being pivoted in the lower parts of said supports, uprightly positioned side levers pivoted near their upper ends to the upper, side, forward portions of said chair, and pivoted at their lower portions to the said cross portion of said bar member, the said bar member being pivotally anchored in the lower part of said supports, serving to hold the lower ends of said side levers against appreciable horizontal movement, while permitting some vertical movement, so that the back and fore, angular movement, of said side levers, induced by pushing or pulling the upper ends of said side members, by one sitting in said chair, will be communicated to said chair, causing it to swing between its side supports.

2,327,287
THRESHING MECHANISM
Louis A. Paradise, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application March 27, 1940, Serial No. 326,199
1 Claim. (Cl. 130—27)



In threshing apparatus including a cylinder and a concave cooperative therewith, a finger grate disposed behind said concave and comprising an upper row of laterally spaced fingers inclined upwardly and rearwardly, the forward end of each finger being supported on said concave, the rear ends of said fingers curving toward a horizontal position, and a lower row of laterally spaced fingers supported substantially parallel with said upper row and positioned to overlap the spaces between the fingers in said upper row.

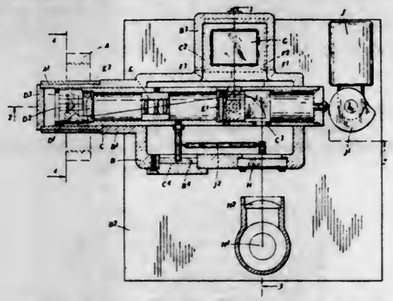
2,327,288
AUXILIARY SEAT FOR AUTOMOBILES
Florence Dean Post, St. Petersburg, Fla.
Application October 2, 1941, Serial No. 413,349
11 Claims. (Cl. 155—11)



1. An auxiliary seat for an automobile or the like comprising a baseboard, an overlying seat, means for supporting said seat from the baseboard, said board having an extension at its front end beyond the relative position of said overlying seat, and a column supported on said front extension of the baseboard and terminating at its upper end in the same plane in which the overlying seat lies, said column being positioned for receiving the legs of the child against its sides, substantially as described.

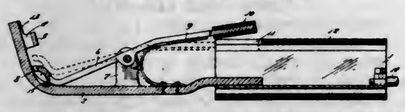
2,327,289
OPTICAL TESTING OR MEASURING APPARATUS
Richard Edmund Reason, Leicester, England, assignor to Kapella Limited, Leicester, England, a company of Great Britain
Application July 24, 1940, Serial No. 347,161
In Great Britain July 22, 1939
10 Claims. (Cl. 88—14)

1. Optical apparatus for measuring or testing the accuracy of plane section profiles of hollow or deeply reentrant objects, comprising a lens system so arranged as to collimate the principal rays in its object and image spaces and having its optical axis substantially parallel to the length of the section profile to be examined, reflecting means disposed between the lens system and the section profile, a generally tubular casing housing the lens system and the reflecting means and having a lateral opening between the reflecting means and the section profile, an illuminating device incorporating the lens system and acting to direct a beam of light bounded, at least on one side, by a plane in a direction substantially parallel to the optical axis of the lens system on to the reflecting means and thence through the lateral opening on to an internal or reentrant surface of the object to define the section profile thereon, and an optical projecting device also incorporating the lens system and acting by means of a beam of light proceeding from the section profile obliquely to the section plane on to the reflecting means and



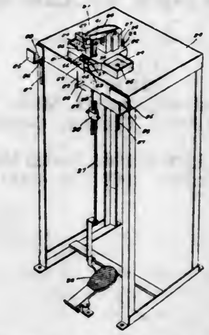
thence to the lens system in a direction substantially parallel to the optical axis thereof to project on to an image plane disposed obliquely to the projected beam of light a rectified image of the section profile free from distortion due to the oblique projection, the reflecting means comprising three reflecting surfaces of which the first receives the illuminating beam from the lens system and deflects it transversely on to the second surface which again deflects it substantially radially through the lateral opening, the reflected bounding plane of the illuminating beam coinciding with the section plane of the profile, whilst the third surface receives the oblique projecting beam from the section profile and deflects it transversely on to the first surface whence it is again deflected longitudinally towards the lens system.

2,327,290
ELECTRODE HOLDER
William Rice, Aldan, Pa.
Application June 29, 1942, Serial No. 449,003
3 Claims. (Cl. 219—8)



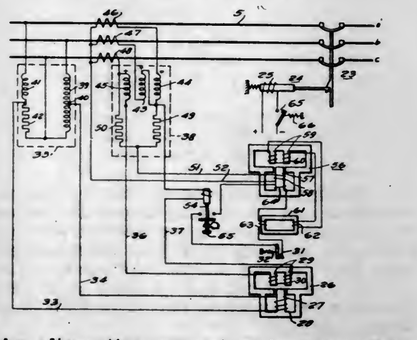
1. An electrode holder, comprising a handle, a bar fixed to the handle and having its forward end curving upwardly and provided with a groove on its inner face and an apertured head inwardly of and merging into said groove, a clamping lever fulcrumed on the bar and having its forward end adapted to clamp an electrode against said bar inwardly of said head, and a spring tending to retain said clamping lever in its unclamped position.

2,327,291
BUCKLE AND TAPE ASSEMBLY MACHINE
Joseph Shaulson, Providence, R. I.
Application December 26, 1940, Serial No. 371,715
3 Claims. (Cl. 223—49)



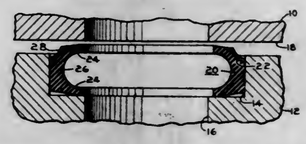
1. In an apparatus for assembling buckles and tape, a base, a pair of spaced nests on said base, means positioned between said nests for releasably retaining a buckle in operative position on each nest, a head pivoted to said base, a pair of spaced punches positioned in said head and reciprocable onto said nests, means for resiliently retaining said head in raised position, and means for reciprocating said head.

2,327,292
PROTECTIVE RELAY SYSTEM
Roy M. Smith, Livingston, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 21, 1940, Serial No. 341,609
7 Claims. (Cl. 175—294)



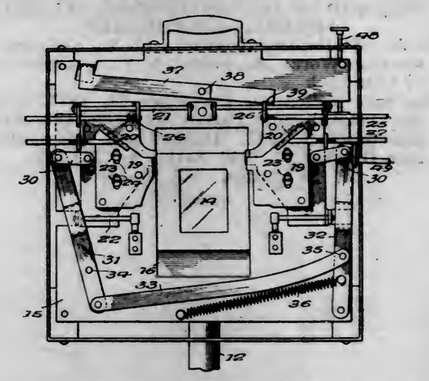
1. An alternating current system comprising a polyphase loop circuit, a circuit adjacent said polyphase loop circuit and effective under certain conditions for inducing a substantial zero phase-sequence quantity in said polyphase loop circuit, switch means for operatively connecting and disconnecting portions of said system, control means for said switch means comprising a directional element responsive only to negative phase-sequence current in said polyphase loop circuit, and auxiliary means responsive to a zero phase-sequence quantity present in said polyphase loop circuit, said control means being effective for operating said switch means only when both said directional means and said auxiliary means are in predetermined conditions.

2,327,293
SEALING MEANS
L. Raymond Twyman, Bloomfield Township, Oakland County, Mich., assignor to Vickers Incorporated, Detroit, Mich., a corporation of Michigan
Application March 8, 1941, Serial No. 382,287
2 Claims. (Cl. 288—24)



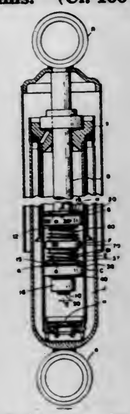
1. A sealing ring for sealing a circular crack between two members confining a fluid and providing an annular recess adjacent the crack, said ring comprising a body of material having the resilient characteristics of rubber and shaped to provide when unstressed before assembly a generally U-shaped cross section including a pair of divergently flared flexible lips forming the legs of the U and joined by a backing portion adapted to seat in the recess, and a confling ring of sheet metal in the shape of a torus truncated to a segment of the minor circle thereof, said metal ring being positioned in the recess and briding the crack by a substantial distance into the recess along the surface of each member whereby the sealing ring is prevented from entering the crack when the latter is opened a substantial distance under the force of fluid pressure.

2,327,294
APPARATUS FOR AND METHOD OF MAKING X-RAY PHOTOGRAPHS
Preston M. Wheeler, Austin, Tex.
Application February 24, 1941, Serial No. 380,348
4 Claims. (Cl. 250—65)



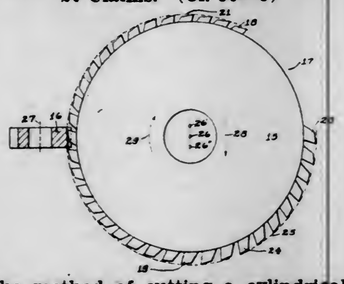
1. In an apparatus for controlling the exposure of an object to X-rays during the radiographing of said object, the combination of a frame having an exposure opening therein through which the entire area to be radiographed may be exposed to the X-rays, two pairs of members impervious to said rays for partially closing said opening to reduce the area of the opening to correspond to the area of said object of greatest density, means for adjusting the members of one pair of members toward each other, means for adjusting the members of the other pair of members longitudinally of said opening and means for moving the members of each pair toward each other transversely of said opening.

2,327,295
DOUBLE-ACTING VELOCITY TYPE SHOCK ABSORBER
Ralph H. Whisler, Jr., Monroe, Mich., assignor to Monroe Auto Equipment Company, Monroe, Mich., a corporation of Michigan
Application November 12, 1941, Serial No. 418,792
17 Claims. (Cl. 188—88)



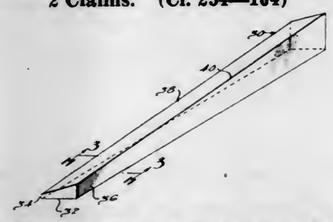
1. A hydraulic shock absorber having a compression cylinder containing a hydraulic medium, two piston sections spaced apart within said cylinder, each having valve controlled passages therethrough for said medium, means for by-passing hydraulic medium through one of said sections to the space between said sections, and means responsive to the velocity of the medium in the cylinder for controlling the flow of said medium through said by-passing means.

2,327,296
METHOD OF CUTTING GEARS, SPLINED SHAFTS, AND THE LIKE
Ernest Wildhaber, Brighton, N. Y., assignor to Gleason Works, Rochester, N. Y., a corporation of New York
Original application December 31, 1937, Serial No. 182,838, now Patent No. 2,267,182, dated December 23, 1941. Divided and this application October 29, 1940, Serial No. 363,328
20 Claims. (Cl. 90—9)



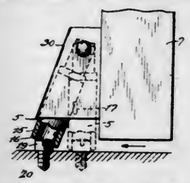
1. The method of cutting a cylindrical gear, splined shaft, or the like which comprises employing a disc milling cutter that has a plurality of radially disposed cutting blades that are arranged part way only around its periphery with a gap between the last and first blades, said blades having opposite side-cutting edges symmetrically disposed with reference to a plane of rotation perpendicular to the axis of the cutter, rotating said cutter in engagement with the work, while producing a relative feed movement between the cutter and the work axially of the work in such timed relation to the cutter rotation that different blades of the cutter cut from one end to the other of a tooth space of the work in a revolution of the cutter, and indexing the work when the gap in the cutter is abreast of the work.

2,327,297
DRIFT
Francis J. Woodruff, Detroit, Mich., assignor of one-half to John Thomas Gilmer, Detroit, Mich.
Application April 7, 1942, Serial No. 438,017
2 Claims. (Cl. 254—104)



1. A key drift comprising an elongated metal member the side edges of which are substantially parallel to each other, said member increasing in thickness from one side edge thereof toward the other side edge thereof, the thicker of said side edges being flat, and one of the side faces being perpendicular to the plane of said thicker side edge, said member also increasing in thickness from one end thereof toward the other end thereof.

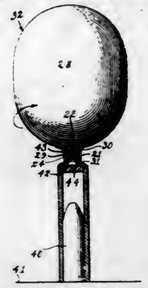
2,327,298
DOOR STOPPING AND HOLDING DEVICE
George G. Wyckoff, Chicago, Ill.
Application November 4, 1940, Serial No. 364,114
8 Claims. (Cl. 292—78)



1. Means for stopping a door in its opening movement and for holding it open at the position it is stopped comprising a projection on the floor, a swinging member carried by the door near the lower part thereof adapted to engage said projection, and means for latching said swinging member upon engaging said projection in a door holding position.

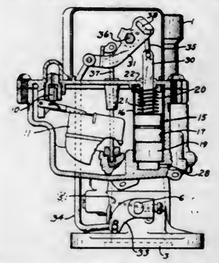
2,327,299
METHOD OF MAKING FLOAT BALLS
Allan D. Yablin, Chicago, Ill.
Application December 27, 1941, Serial No. 424,628
6 Claims. (Cl. 117—66)

6. A method of forming enameled float balls having an interiorly threaded plug projecting therefrom, consisting in threadedly and rotatably supporting the ball vertically and interiorly at the interior threads of the plug with the plug at the bottom of the ball, and the support enlarged therebeneath relative to the plug and spaced from the end thereof, spraying the ball with a coating of porcelain enameling compound, subjecting the same to a heat treatment for causing the compound to fuse and flow evenly over the exterior surface of the ball and plug and between the same and the support, allowing the coating to set, and relatively rotating and separating the



ball and support to part the enamel in spaced relation to the end of the plug and support in conformity with and covering said end of the plug.

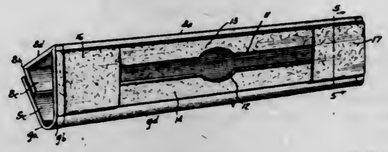
2,327,300
ACCELERATION PUMP
Henry A. Boller, Walled Lake, Mich., assignor to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware
Application July 23, 1940, Serial No. 346,886
2 Claims. (Cl. 261—34)



2. In a carburetor, an induction conduit having a throttle therein, a throttle actuator, an accelerating pump having a piston, connecting means between the throttle and said piston for moving said piston to discharge position as said throttle is closed, said connecting means including a lever having a fixed pivot actuated by movement of said throttle, said lever having a guideway constructed and arranged to assume an inclined position when said throttle is substantially closed, a link member carried by said piston and engaging said guideway to form a lost motion connection between said lever and piston, said lever being shiftable on its pivot upon opening movement of said throttle to move said guideway towards a vertical position, a spring normally moving said piston in its discharge direction as said guideway is shifted to permit movement of the pump connection, and an additional spring loosely arranged between the piston and the upper end of the cylinder initially urging said piston in its discharge direction and proportioned to be fully extended before the piston reaches the end of its downward movement.

2,327,301
DISPLAY DEVICE
David Davis, New York, N. Y.
Application June 23, 1942, Serial No. 448,115
5 Claims. (Cl. 206—75)

1. A case formed of a single blank of material folded along four lines to provide a base section, side walls and a closure adapted to overlie the base, the closure being formed by overlapped portions of the blank, fastening means for connecting the overlapped portions in closure-forming position and an inner base member fixed to the inner surface of said base section and formed for the reception of the article to be deposited in said



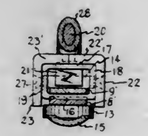
case, said side and closure-forming portions of said blank being reversible relatively to said base section along the lines of said folds to dispose said closure-forming portions beneath said base section for interconnection by said fastening means, said base being shifted for support by said side walls, said inner base member being shifted thereby to a topmost exposed position, for the display of an article superimposed thereon.

2,327,302
SOAP COMPOSITION
Harry Robert Dittmar, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application July 13, 1940, Serial No. 345,411
3 Claims. (Cl. 252—132)

1. Hard water having incorporated therein a precipitate-inhibiting amount of an alkali metal salt of a halogen-substituted polyacrylic acid.

3. A detergent soap normally forming a precipitate in hard water having incorporated therein a precipitate-inhibiting amount of the sodium salt of alpha-chloropolyacrylic acid as a water-softening agent.

2,327,303
INSULATING STRUCTURE
Thomas S. Donnelly, Detroit, Mich.
Application October 13, 1941, Serial No. 414,769
6 Claims. (Cl. 219—8)



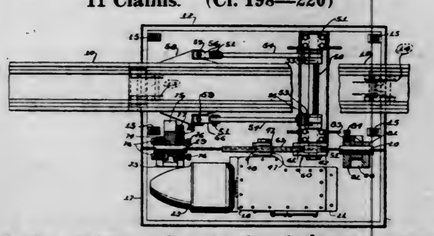
6. In an electrode holder, a jaw rocking stirrup of the class described having oppositely disposed side bars, a top bar and a handle-forming member projecting outwardly from the top bar, means for insulating the stirrup comprising a strip of insulating material bent between its ends to provide angularly extending portions overlying and covering the outer face of the side and top bars of the stirrup, and a tube of insulating material extending over the handle member and embracing the outer face of one of the angularly extending portions of the insulation strip to retain the same in close relation to the outer face of the top bar of the stirrup.

2,327,304
COLOR PHOTOGRAPHY
Garnet Peter Grant, Jr., Silvermine, Conn., assignor to Grant Photo Corporation, New York, N. Y.
Application December 11, 1939, Serial No. 308,540
5 Claims. (Cl. 95—2)



1. The process of making colored prints comprising forming a plurality of color separation exposures on a panchromatic, positive reversal strippable emulsion secured to a support, developing said exposures and converting them into positives, coloring said positives, adhering one of said positives to a backing, stripping the support therefrom, and thereafter adhering another positive to the first in registered relationship therewith and stripping its support therefrom.

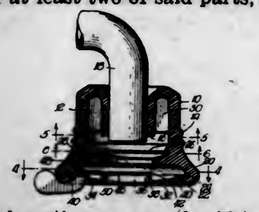
2,327,305
SHAKER CONVEYER
Loy D. Hagenbook, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application June 7, 1941, Serial No. 397,021
11 Claims. (Cl. 198—220)



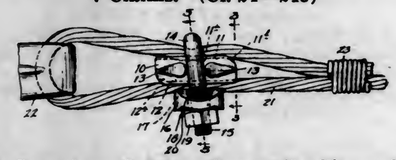
1. In a drive mechanism for shaker conveyers, a base adapted to be held in position on the ground during reciprocation of the conveyer, a rocking member mounted on said base and having drive connection with a trough section of a shaker conveyer trough line, means disposed to one side of said base for rockably driving said rocking member including a second base separate from said first mentioned base and extending therealong, a motor on said second base, means driven by said motor for converting the rotary motion thereof to reciprocating motion including a crank and a rocking shaft rocked thereby, and having operative connection with said rocking member, and a pivotal connection between said second base and said first mentioned base, the axis of which extends longitudinally of said trough section, for holding said second base in position, but permitting it to floatingly engage the ground during operation of the conveyer.

2,327,306
FAUCET STRAINER
Orloff W. Holden, Chicago, Ill.
Application February 15, 1941, Serial No. 379,002
5 Claims. (Cl. 299—145)

5. In a fluid flow device having a hollow body portion, the means for selectively providing a spray-like fluid flow from said body portion and a free fluid flow therefrom including in combination fluid passage means having a restricted flow portion and a non-restricted flow portion, movable multi-part closure means for said non-restricted flow portion having each part covering a portion of said non-restricted flow portion in closed position, interconnecting means for said multi-part closure means including cammed portions on at least two of said parts, and a finger-operated portion on one of said two parts to move said part and move the cammed portions thereby.



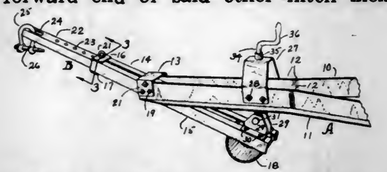
2,327,307
CLAMP FOR GUY WIRES AND THE LIKE
Kenneth C. Jenne, Branford, Conn., assignor to Malleable Iron Fittings Company, Branford, Conn., a corporation of Connecticut
Application July 18, 1942, Serial No. 451,511
7 Claims. (Cl. 24—243)



4. In a clamp for guy wires, or the like, a clamp body member having a longitudinally extending wire clamping upper surface and a longitudinally extending wire clamping lower surface, said upper and lower surfaces each adapted to receive a length of wire to be clamped, pivot bearing means at each longitudinal side of said clamp body member having a common transverse pivot axis intermediate the ends of said member and intermediate its upper and lower clamping surfaces, U-bolt clamping means including an upper clamping part vertically opposed in spaced relation to said upper clamping surface, a pair of side legs respectively at each side of said clamp body member, a lower clamping part vertically opposed in spaced relation to said lower clamping surface loosely engaged with the lower ends of said side legs, and clamping nuts screwed upon the ends of said side legs below said lower clamping part, said side legs being pivotally positioned by said pivot bearing means with respect to said clamp body member for tilting movement about said transverse pivot axis, whereby as longitudinal pull is exerted upon a length of wire clamped against one of said wire clamping surfaces the upper and lower clamping parts of said clamping means are respectively swung in opposite directions longitudinally toward said upper and lower wire clamping surfaces to respectively clamp said longitudinally pulled length of wire and a length of wire clamped against the other wire clamping surface.

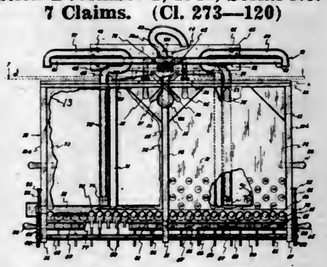
2,327,308
HITCH FOR TRACTOR DRAWN IMPLEMENTS
Howard M. Johnston, Toronto, Ontario, Canada, assignor to Massey-Harris Company Ltd., Toronto, Ontario, Canada, a limited corporation of Canada
Application October 2, 1941, Serial No. 413,279
3 Claims. (Cl. 280—33.44)

1. A hitch device of the class described, comprising a forwardly extending hitch member forming a rigid part of the machine to be drawn, another hitch member hingedly connected intermediate its ends to the forward end of said first hitch member, manually operated means between the rear end of said other hitch member and the first hitch member adapted for changing the relative angle between said hitch members, means on the forward end of said other hitch member



adapted for connection to the draw bar of a tractor, said other hitch member comprising two parts telescoped together, spaced openings in one of said telescoped parts and an opening in the other, a linchpin or bolt adapted to extend through one of said spaced openings and said last opening, whereby the distance between the tractor and implement may be determined.

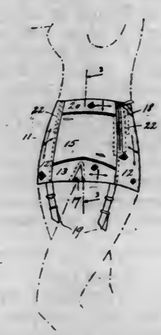
2,327,309
COMBINED GAME AND AMUSEMENT APPARATUS
Peter Kyska, Chicago, Ill.
Application December 1, 1941, Serial No. 421,116
7 Claims. (Cl. 273—120)



1. In a game device, in combination, a frame-like support; a longitudinally inclined table on said support having a transversely rocking movement; an upwardly extending standing; inclined chutes mounted adjacent said standard and having a partially obstructed delivery end opening; a manually tiltable ball track pivoted on said standard; a pair of pawls pivoted on said track and adapted when moved upwardly to release a ball at the delivery opening of said chute to cause it to roll on said track; a runway connected to said frame-like support and adapted to cause a ball delivered thereon to be deposited on the upper end of said table; a plurality of transversely aligned indicia bearing fulcrumed levers having cup-like portions in positions so that the balls rolling upon said bed will fall thereupon to normally tilt said levers to discharge a ball below the playing surface, and a manually rotatable shaft having non-uniform rows of pins thereon and being positionable to cause the pins of one said row to obstruct the tilting movement of said levers.

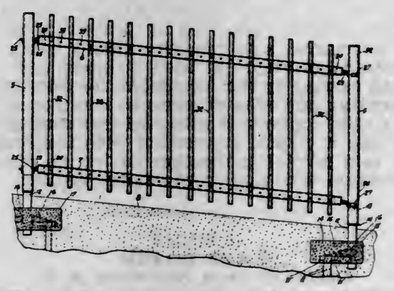
2,327,310
FOUNDATION GARMENT
Florence N. Lewis, New York, N. Y.
Application August 25, 1942, Serial No. 456,297
2 Claims. (Cl. 2—43)

1. A garment of the character described, comprising all-elastic front, rear and side panels sewed together to form a tubular garment, said front panel having superimposed thereon a section of non-elastic material shorter longitudinally than the elastic panel and disposed across approximately the center of said elastic panel, and said rear panel having superimposed thereon a section of non-elastic material shorter longitudinally than the elastic panel and extending from the top down to below the center of said



elastic panel, both said non-elastic sections being sewed at their four sides to the respective front and rear elastic panels, whereby said panels have portions thereof which are stretchable and portions which are not stretchable, an opening partway along one seam of said garment and means for closing such opening, and supporting stays disposed about the top portion.

2,327,311
FENCE STRUCTURE
Robert Lundy, South Bend, Ind.
Application February 24, 1941, Serial No. 380,276
16 Claims. (Cl. 256—22)

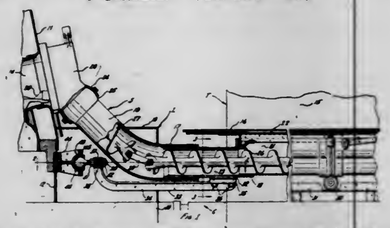


1. A fence construction comprising vertical tubular post members, means projecting from the ground for rigidly supporting said posts in position, tubular rails extending between said posts, means forming universal connections between the end of each rail and the associated posts, and pickets each comprising a pair of cooperating picket elements adapted to be clamped to said rails at predetermined points therealong, said elements having pivotal connection with said rails whereby each picket maintains a true vertical position regardless of the inclination of the rails relative to a horizontal plane.

2,327,312
PROCESS FOR SEPARATING ALKYL PHENOLS
Daniel B. Luten, Jr., and Aldo De Benedictis, Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application July 15, 1941, Serial No. 402,490
2 Claims. (Cl. 260—621)

1. A process for separating a mixture of alkyl phenols comprising the steps of sulfonating said mixture under conditions to favor monosulfonation, adding water and a substantially water-immisicible solvent to the resulting alkyl phenol monosulfonic acids, maintaining the resulting mixture under conditions favorable to hydrolysis until a part of said sulfonic acids has hydrolyzed, then extracting the resulting mixture with said solvent to form a solvent phase containing dissolved alkyl phenols and a residual phase containing alkyl phenol monosulfonic acids, and subsequently hydrolyzing the residual sulfonic acids to regenerate the corresponding phenols.

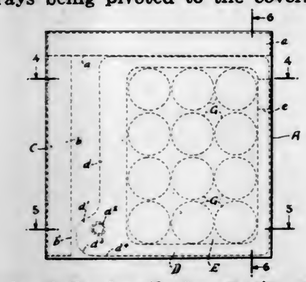
2,327,313
STOKER AND SUPPORT THEREFOR
Eugene Martin, Erie, Pa., assignor to The Standard Stoker Company, Incorporated, a corporation of Delaware
Application January 1, 1942, Serial No. 425,361
7 Claims. (Cl. 198—15)



1. In an intercoupled locomotive and tender, the combination of a fuel transfer conduit extending forwardly from the tender to the locomotive and comprising a rear conduit section movably mounted and supported on the tender and a front conduit section supported at its forward end on the locomotive, said conduit sections being telescopically connected at their adjacent ends, and means carried by the locomotive for additionally supporting said conduit sections, said means having a rigid connection with said rear conduit section and a pivotal connection with the locomotive, said pivotal connection having no physical connection with said front conduit section.

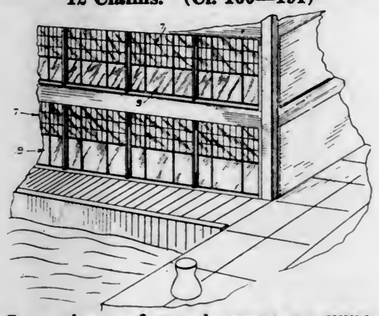
2,327,314
GAME BOARD
George G. Mevi, New York, N. Y.
Application October 28, 1942, Serial No. 463,709
3 Claims. (Cl. 273—136)

1. A game board of the class described, comprising a pair of rectangular shaped covers hinged together in book form, a spacing strip secured to the inside of each cover and extending crosswise at the upper edge thereof, a second spacing strip of the same thickness secured to the inside of each cover and extending lengthwise thereof adjacent the hinge, a playing board divided into four square sections each approximately the size of the covers and hinged together at the four adjacent edges and adapted to be folded in two folds into four leaves between said covers, the two leaves forming one-half of the playing board being secured to said spacing strips, said spacing strips providing between the covers and the game board sections secured thereon a space open at the ends opposite the spacing strips, rectangular shaped trays housed in said spaces, said trays being pivoted to the covers adjacent



the ends of the lengthwise spacing strips, and both trays being adapted to swing outward into lengthwise alignment with the covers when opened to serve as supports for the unfolded game board leaves projecting beyond the covers.

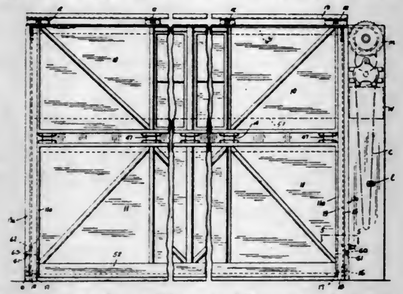
2,327,315
CLOSURE FOR BUILDING CONSTRUCTIONS
Nathan Michelman, Brooklyn, N. Y.
Application December 2, 1941, Serial No. 421,272
12 Claims. (Cl. 160—191)



1. In a closure for a doorway, an upper and a lower door-section, means for moving said lower section in a vertical path to a position in superimposed relation to said upper section and for moving both of said sections as a unit to an extreme open position, torsion spring means connected to said lower section for counter-balancing the movement of said lower section and the movement of the two sections as a unit to said extreme open position, and tension spring means separate from said counterbalancing means for generating lifting effort in the initiation of movement of the upper section toward open position, said separate spring means being effective in a part of the conjoint movement of the two sections to the latter position, to yieldingly retard such conjoint movement.

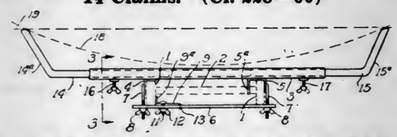
2,327,316
DOOR CONSTRUCTION
Nathan Michelman, Brooklyn, N. Y.
Application August 11, 1942, Serial No. 454,473
14 Claims. (Cl. 160—190)

1. A door comprising an upper section pivotally mounted at its top for upward and outward swinging movement from a vertically disposed closed position to an open position, a lower section hinged at its top to said upper section for upward and inward swinging movement relative to said upper section from a vertically disposed closed position to an open position, means connected to said lower door section for conjointly actuating both of said door sections to open and closed positions, means carried by said lower door section for automatically locking the lower door section in vertically disposed closed position in response to the movement of said lower door sec-



tion to closed position, said upper door section being retained in closed position thereby, said locking means being rendered non-effective in an initial upward vertical movement of said lower door section, and means automatically functioning in the continuing upward movement of said lower door section to swing said lower door section outwardly and simultaneously cant said upper door section for conjoint upward movement of the two door sections to open position.

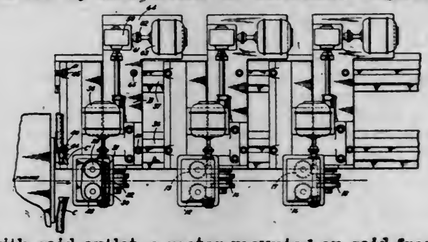
2,327,317
ATTACHMENT FOR LADDERS
Fred D. Randall, Dayton, Ohio
Application October 9, 1941, Serial No. 414,372
14 Claims. (Cl. 228—60)



1. In a supporting attachment for ladders, in combination, a frame detachably securable to a ladder and comprising opposing frame members adapted to extend transversely across the ladder, means for clampingly engaging said members with the ladder from opposite directions, means on said members for engaging opposite sides of the ladder, and a clamping member adjustably associated with one of said frame members for clampingly engaging one of the ladder stiles in a direction opposed to the direction of engagement of said second means, and a pair of arms adjustable relative to said frame laterally of said ladder for supporting the ladder relative to a surface against which said arms are engaged.

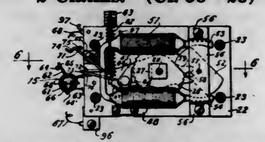
2,327,318
WELDING MILL
William Rodder, Youngstown, and James H. Hopkins, Alliance, Ohio, assignors of one-half to The Aetna Standard Engineering Company, Youngstown, Ohio, a corporation of Ohio, and one-half to S. F. Keener, doing business as Salem Engineering Company, Salem, Ohio
Application May 15, 1940, Serial No. 335,318
3 Claims. (Cl. 78—87)

1. In continuous pipe welding apparatus of the type described, a strip heating furnace having a strip outlet opening, a rail member extending away from said furnace outlet, a frame structure supported on said rail member for sliding adjustment toward or away from said outlet, means for locking said frame in adjusted position on said rail member, a pair of forming rolls carried by said frame in horizontal alignment



with said outlet, a motor mounted on said frame, driving connections from said motor to said forming rolls, and a pair of fixed blow pipes disposed adjacent said furnace outlet and adapted to discharge air against the opposite edges of the strip leaving said furnace before the strip enters said forming rolls.

2,327,319
CLOCK MECHANISM
Henry K. Sandell, Sister Bay, Wis.
Application January 29, 1940, Serial No. 316,114
2 Claims. (Cl. 58—23)

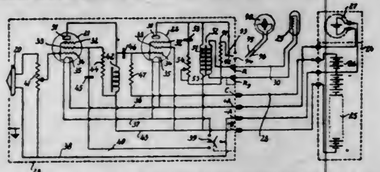


1. For association with an electrically operable clock mechanism, a mercury switch for determining operation thereof supported adjacent said clock mechanism in unbalanced relationship and for rotary movement about an axis of rotation located parallel to and adjacent the longitudinal axis thereof, said mercury switch being biased to rotate on the axis of rotation thereof into circuit closing relationship when free, restraining means whereby said mercury switch is normally held in open circuit or inoperative relationship, and periodically operable release means arranged for actuation by the clock mechanism whereby said restraining means is periodically actuated to permit closing movement of said switch, said release means being arranged to intermediately restore said switch to open circuit relationship in engagement with said restraining means.

2,327,320
AMPLIFYING HEARING AID
Harry B. Shapiro, Cleveland, Ohio, assignor to Sonotone Corporation, Elmsford, N. Y., a corporation of New York
Application November 12, 1941, Serial No. 418,857
6 Claims. (Cl. 179—107)

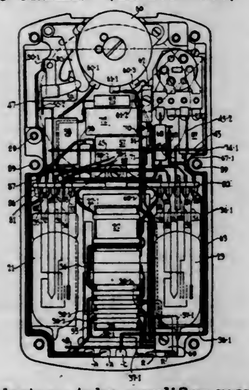
1. In an inconspicuously-wearable hearing aid: a mechano-electric transducer operating as a microphone, such as a crystal microphone; an electro-mechanical transducer operating as a receiver; a source of direct-current voltage; and an electron tube amplifier having only one voltage amplifier stage and only one power amplifier stage interconnected between said microphone, said receiver and said source; a flat small casing

suitable for substantially hidden wear on the body of the user and enclosing said microphone and substantially all the elements of said amplifier so that the microphone shall be actuated by propagated sound; said voltage amplifier stage having a multi-electrode amplifier tube including an anode, and an interstage coupling inductance connected between said anode and said source and having a magnetic core of a cross section of the order of about $\frac{1}{10}$ of one square inch or less; the elements of said inductance and of said voltage amplifier stage being so designed and correlated, and their operating voltages being so set, that D. C. anode currents through said inductance are confined between values of the order of about ten



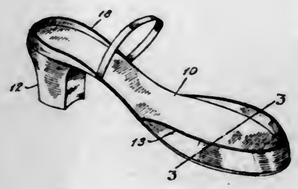
microamperes and two milliamperes at which it operates with peaked frequency response characteristics and acts as a coupling impedance of the order of about one megohm or more over about two octaves or more of the speech frequency range between about 500 and 4000 cycles per second; the elements of said amplifier and of said transducers being so designed and interconnected and their characteristics being so correlated that the frequency response characteristics of at least one of said transducers compensates for the peaked response characteristics of said coupling inductance for securing a receiver output of a magnitude and a frequency response required from an electron tube amplifier hearing aid.

2,327,321
HEARING AID AMPLIFIER
Harry B. Shapiro, Willoughby, Ohio, assignor to Sonotone Corporation, Elmsford, N. Y., a corporation of New York
Application November 12, 1941, Serial No. 418,858
9 Claims. (Cl. 179—107)



1. In an electron tube amplifier member forming part of an inconspicuous wearable hearing aid and designed to be energized from a direct-current energy source for supplying amplified output of a microphone to a receiver: a flat casing small enough for substantially hidden wear on the body of a user and having two walls detachably joined along their edges so as to form a casing enclosure confining a relatively shallow interior space having narrow sides; one of said walls having an inwardly facing mounting surface, and reinforcing elements forming part of said wall and rendering it substantially rigid; a substantially firm mounting member extending along said mounting surface between opposite narrow sides of said enclosure and dividing the enclosure into two enclosure sections; a plurality of metallic terminal members insulatingly secured to and held in position by said mounting member so as to expose terminal portions of said terminal members to said interior space; interconnected elements of an amplifier housed in said casing including at least two multi-electrode amplifier tubes; each tube having a plurality of electrode leads extending from the tube and joined to exposed terminal portions of said mounting member so that said tubes are held thereby in predetermined positions in one of said enclosure sections; a plurality of external connector elements insulatingly secured to a wall portion of said enclosure for completing the operative circuit interconnections from said amplifier to external hearing-aid circuit portions and having inwardly facing exposed terminal portions; a predetermined set of circuit elements of said amplifier being interconnected to the terminal members secured to said mounting member so as to constitute with said tubes an interconnected structural unit forming part of at least two amplifier stages one of which constitutes an input stage and the other of which constitutes an output stage; said set of circuit elements including at least two self-supporting impedance elements each having at least one terminal wire interconnected to terminal portions of said mounting member so as to be held thereby in predetermined positions in the other of said space sections; said structural unit forming said mounting member, said tubes and said set of circuit elements constituting a self-supporting unitary structure, the interconnecting circuit portions of which are sufficiently stiff and so arranged that the relationship of its elements is not disturbed when it is mounted on or removed from its position on said mounting surface.

2,327,322
SHOE CONSTRUCTION
John Harold Slater, New York, N. Y.
Application November 18, 1941, Serial No. 419,535
2 Claims. (Cl. 36—11.5)
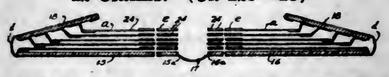


1. In a shoe construction, a sole member of leatherlike material, a self-sustaining frame extending upwardly from said sole member at least in the forepart thereof, said frame consisting of a curved strip having an inward slant and forming a partial incasement for the foot of the wearer, the upper free longitudinal edge of said strip being tensioned and attached to said sole member so as to impart to the sole an upward curvature when the shoe is off the foot whereby said frame will be tensioned about the foot when the wearer's weight is placed on said sole member.

2,327,323
WATER-TREATING AGENT
Wilber O. Teeters, Roselle, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application July 13, 1940, Serial No. 345,417
3 Claims. (Cl. 252—175)

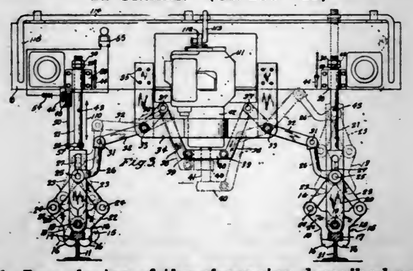
3. Hard water having incorporated therein a precipitate-inhibiting amount of a water-softening agent selected from the group consisting of pyrimidine, uracil, thymine, cytosine, purine, xanthine, quanine and adenine.

2,327,324
DISPLAY ALBUM
Irving Weinger, New York, N. Y., assignor to J. Widder & Co., New York, N. Y., a copartnership comprised of Samuel Widder and William Widder
Application October 10, 1942, Serial No. 461,615
12 Claims. (Cl. 129—15)



10. A book construction, including a shell comprising a backbone and cover sections hinged thereto for relative movement, a flap hinged to an edge of each of the cover sections, and a series of leaves hinged in laterally spaced relation to the inner surface of each flap; the arcuate movement of the flap in the direction towards the cover section to which it is hinged disposing the leaves in superimposed relation upon said cover section with their free edges in alinement with one another; the arcuate movement of the flap in a direction away from the cover section to which it is hinged disposing the leaves in superimposed relation upon said cover section with their free edges in staggered laterally spaced relation to one another.

2,327,325
AUTOMATIC SAFETY RAIL CLAMP
Frederick F. Zavatkay, New Haven, Conn.
Application August 26, 1941, Serial No. 408,324
11 Claims. (Cl. 188—43)



1. In a device of the character described comprising a car mounted to run on rails and including a body, a safety rail clamp mounted adjacent each of the opposite sides of the body, each clamp comprising jaws to grip under the tread flange of a rail to prevent tipping of the car beyond a given limit and mechanism for setting, releasing, raising and lowering the clamps, power means for operating said mechanism, manually operable control means for setting and releasing the brakes of the car, manually operable control means for the power means, and an interlocking connection between the brake control means and the power control means including means to prevent operation of the second manually operable control for setting of the clamps when the brakes are released.

2,327,326
FASTENING DEVICE FOR GROUP WIRING AND THE LIKE
Wilmer H. Churchill, Saugus, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application March 11, 1942, Serial No. 434,213
4 Claims. (Cl. 24—81)



2. A fastener device of the class described comprising a loop adapted to receive and grip an article, said loop having an element struck therefrom in the form of a bridge, said bridge having its opposed ends integrally joined to said loop and a portion intermediate said ends spaced from said loop, an attaching member having a base portion, said base having a finger-shaped element engaging said bridge portion between said bridge and said loop and an element engaging an opposite side of said bridge whereby said elements cooperate to secure said attaching member in applied position to said loop, and said attaching member having a spring arm extending from said base for engaging a supporting part to secure said loop to said part.

2,327,327
ROTARY OPERATIVE FASTENER DEVICE AND INSTALLATION OF THE SAME
Albert C. Maynard, Oakland, Calif., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application June 25, 1941, Serial No. 399,760
6 Claims. (Cl. 24—221)



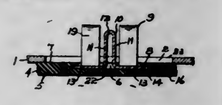
6. In a fastener device of rotary operative type, a stud-engaging unit adapted to be secured to one of the parts to be fastened, said unit comprising a rigid shim plate and a bowed spring plate in superposed relation, hollow bushings extending through said shim plate and spring plate and having shoulders on opposed sides of said parts to hold the same in assembly prior to attaching said unit to one of said parts to be fastened, said shim plate having an aperture and locking surfaces on opposed sides of said aperture, said spring plate having an aperture in registration with said aperture of said shim plate and cam surfaces adjacent said aperture of said spring plate, a rotary member having a shank adapted to project through the apertures in said spring plate and shim plate, spaced crosspins assembled with said shank, one of said pins having its ends engaging said locking surfaces of said shim plate on relative rotation of said parts, and the other of said pins cooperating with said cams of said spring plate to hold the parts in fastened relation.

2,327,328
SNAP FASTENER FOR TRIMMING AND LIKE STRIPS
Howard J. Murphy, Greenwood, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application December 9, 1941, Serial No. 422,254
3 Claims. (Cl. 24—73)



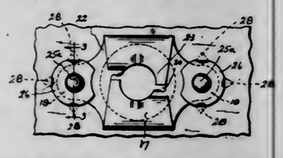
1. A fastener member of the class described formed from a single piece of sheet metal and having a normally bowed apertured base having six yieldable fingers two of which are presented at the aperture to engage a part to be entered through said aperture and yieldable legs extending from said base and cooperating to provide a snap fastener means.

2,327,329
FASTENER AND FASTENER INSTALLATION
Howard J. Murphy, Greenwood, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application November 19, 1940, Serial No. 366,257
8 Claims. (Cl. 189—88)



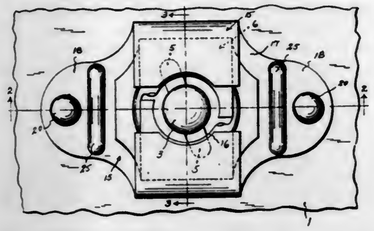
1. A fastener member for securing a part to a support having an opening which comprises a pair of normally spaced head sections, each of which has an attaching element to be embedded in said part whereby said fastener is secured to said part, spring means engaging said head sections and acting to force said head sections outwardly to maintain said attaching elements in said embedded relation to said part, and spaced yieldable legs extending from said head sections and adapted to project through said support and engage behind the same to secure said parts together.

2,327,330
ATTACHING MEANS FOR SEPARABLE FASTENER INSTALLATIONS
Thomas Newbold, Santa Clara, N. Y., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application October 23, 1942, Serial No. 463,026
8 Claims. (Cl. 24—221)



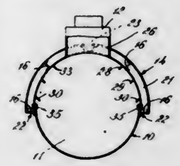
6. In combination with a plywood support, a two-part fastener socket member for attachment to said support and comprising a base portion and an attaching portion, said base portion being formed with an integral rivet engaging in an aperture in said attaching portion, and said attaching portion having a plurality of peripheral prongs, said prongs extending through said support and clenched therein.

2,327,331
SHIFTABLE ROTARY OPERATIVE FASTENER
Lloyd G. Pender, Detroit, Mich., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application October 16, 1942, Serial No. 462,263
9 Claims. (Cl. 24—221)



9. In a rotary operative fastener of the type comprising a rotary stud formed with a radially extending arm and a socket member formed with a base shiftably attached to an apertured support and adapted to interlock with the stud arm upon turning movement of the latter, of an attaching member comprising an apertured plate secured to said support, and presenting opposed guides loosely embracing opposed portions of said socket member permitting lateral shifting of said socket base over the aperture of said attaching plate, said plate being formed with spaced stop means for engaging sides of said base to limit shifting of the socket member in a direction at right angles to said guides.

2,327,332
TANK CONSTRUCTION
James W. Proctor, Summit, N. J., and Walter S. Allen, Flushing, N. Y., assignors to General Chemical Company, New York, N. Y., a corporation of New York
Application September 3, 1941, Serial No. 409,334
3 Claims. (Cl. 220—1)



1. A tank car comprising a horizontally disposed tank adapted to receive a corrosive liquid and made of material corrodible by said liquid and provided on top with a centrally located dome, a hood-like shield extending the length of the tank and substantially covering the outer wall of at least the upper half of the tank, end plates connecting the end edges of said shield with the adjacent circumferences of the ends of the tank, said shield being spaced from such outer wall of said tank and forming, with said end plates, an air chamber between such outer wall of said tank and the inner wall of said shield, contiguous portions of said shield and said dome being associated in liquid-tight relation, elongated openings at the bottom of said chamber on either side of the tank for ingress of atmospheric air, and slots extending from said dome to either end of the tank at the top of said chamber for egress of such air after upward passage through said chamber.

2,327,333
DRYING PROCESS
Edward C. Kirkpatrick, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 20, 1941, Serial No. 398,917
5 Claims. (Cl. 260—555)

2. In removing impurities from crystalline urea, synthesized from ammonia and carbon dioxide, the step which comprises cocurrently passing moist crystalline urea and air through a drier, the temperature of the air entering the drier being such that the crystalline urea reaches a temperature of at least 176° F. before leaving the drier.

2,327,334
FIREARM LOCK
Camille Parker, Montague City, Mass.
Application September 3, 1941, Serial No. 409,410
4 Claims. (Cl. 42—1)

1. A firearm lock comprising a rod for insertion through the barrel of a firearm, a thimble on one end portion of said rod engageable in the firing chamber of the firearm, said thimble having slots extending thereinto from its rear



end, a cross-pin on the rod engaged in the slots for connecting said rod to said thimble, and means for anchoring the rod in the barrel.

DESIGNS

AUGUST 17, 1943

136,158
DESIGN FOR A DISPLAY RACK FOR BELTS OR THE LIKE
William L. Burkhard, Denver, Colo., assignor to The Gates Rubber Company, Denver, Colo., a corporation of Colorado
Application June 14, 1943, Serial No. 110,455
Term of patent 14 years



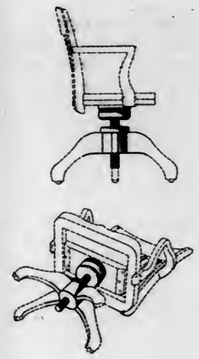
The ornamental design for a display rack for belts or the like, as shown.

136,159
DESIGN FOR A GOLF CLUB HEAD
Thomas P. Duncan, Jr., Newport News, Va.
Application June 9, 1943, Serial No. 110,411
Term of patent 14 years



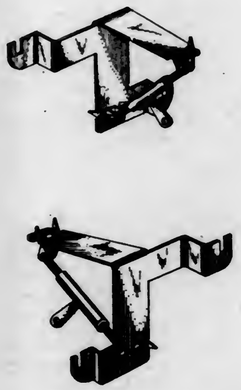
The ornamental design for a golf club head, as shown.

136,160
DESIGN FOR A SWIVEL CHAIR
Charles B. Fletcher and Peter J. Nordby, Marietta, Ohio, assignors to Marietta Chair Company, Marietta, Ohio, a corporation of Ohio
Application October 16, 1942, Serial No. 108,538
Term of patent 14 years



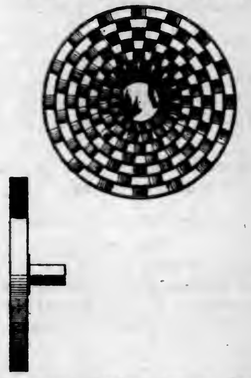
The ornamental design for a swivel chair, as shown and described.

136,161
DESIGN FOR A COMBINED SHADE AND CURTAIN BRACKET
Ilion Ilieff, Detroit, Mich.
Application June 2, 1943, Serial No. 110,344
Term of patent 7 years



The ornamental design for a combined shade and curtain bracket, as shown.

136,162
DESIGN FOR A FAN PROPELLER
Bert Lee, Hollywood, Calif.
Application May 3, 1943, Serial No. 110,102
Term of patent 14 years



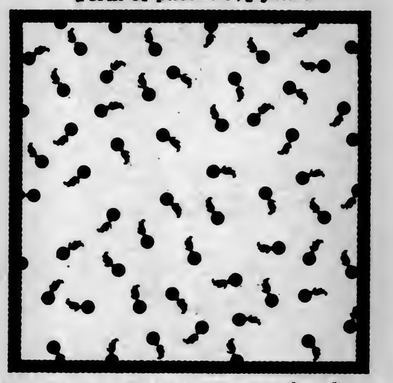
The ornamental design for a fan propeller, as shown.

136,163
DESIGN FOR A DOLL
Bessie E. Marek, Berwyn, Ill.
Application March 24, 1943, Serial No. 109,809
Term of patent 3½ years



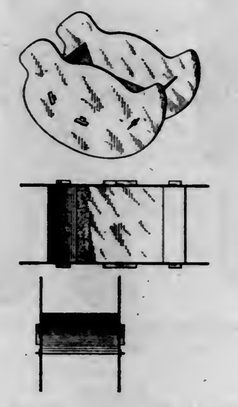
The ornamental design for a doll, substantially as shown.

136,164
DESIGN FOR A BANDANNA
Arthur C. Radebaugh, Arlington, Va.
Application June 2, 1943, Serial No. 110,341
Term of patent 3½ years



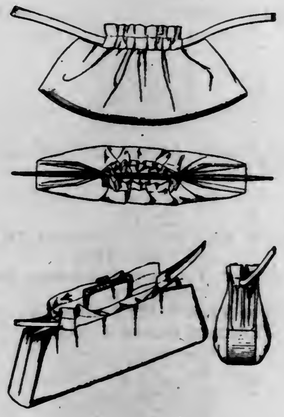
The ornamental design for a bandanna, as shown.

136,165
DESIGN FOR A CHILD'S COLLAPSIBLE ROCKER
Walter R. Reach, Camden, N. J.
Application April 19, 1943, Serial No. 110,002
Term of patent 3½ years



The ornamental design for a child's collapsible rocker, as shown.

136,166
DESIGN FOR A HANDBAG
Julius Resnick, New York, N. Y.
Application April 2, 1943, Serial No. 109,892
Term of patent 7 years



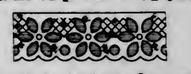
The ornamental design for a handbag, substantially as shown.

136,167
DESIGN FOR A DOLL OR SIMILAR ARTICLE
Joseph Rubin, New York, N. Y.
Application June 2, 1943, Serial No. 110,348
Term of patent 7 years



The ornamental design for a doll or similar article, substantially as shown.

136,168
DESIGN FOR AN EMBROIDERED TRIMMING OR THE LIKE
Hans Tobler, Teaneck Township, Bergen County, N. J.
Application April 9, 1943, Serial No. 109,932
Term of patent 3½ years



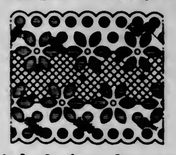
The ornamental design for an embroidered trimming or the like, as shown.

136,169
DESIGN FOR AN EMBROIDERED TRIMMING OR THE LIKE
Hans Tobler, Teaneck Township, Bergen County, N. J.
Application April 9, 1943, Serial No. 109,933
Term of patent 3½ years



The ornamental design for an embroidered trimming or the like, as shown.

136,170
DESIGN FOR AN EMBROIDERED TRIMMING OR THE LIKE
Hans Tobler, Teaneck Township, Bergen County, N. J.
Application April 9, 1943, Serial No. 109,934
Term of patent 3½ years



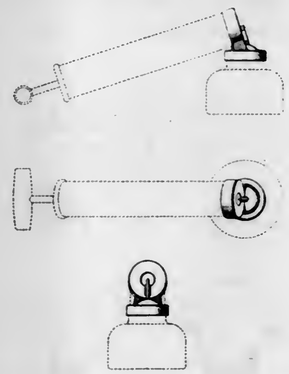
The ornamental design for an embroidered trimming or the like, as shown.

136,171
DESIGN FOR AN EMBROIDERED TRIMMING OR THE LIKE
Hans Tobler, Teaneck Township, Bergen County, N. J.
Application April 9, 1943, Serial No. 109,935
Term of patent 3½ years



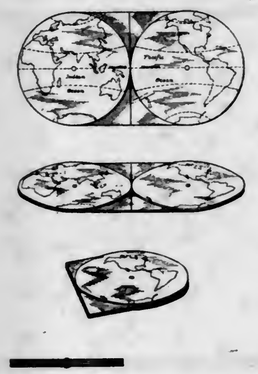
The ornamental design for an embroidered trimming or the like, as shown.

136,172
DESIGN FOR A SPRAY GUN
William Martin Vogel, Montclair, N. J.
Application May 3, 1943, Serial No. 110,101
Term of patent 14 years



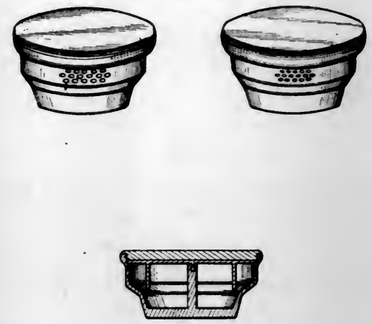
The ornamental design for a spray gun, as shown and described.

136,173
DESIGN FOR A MAP
Paul von Rohl, St. Paul, Minn.
Application June 10, 1943, Serial No. 110,423
Term of patent 14 years



The ornamental design for a map, as shown.

136,174
DESIGN FOR A SHAKER FOR SALT AND PEPPER
Gilford D. Adams, Butterfield, Mo.
Application June 10, 1943, Serial No. 110,421
Term of patent 3½ years



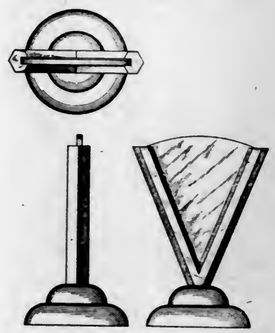
The ornamental design for a shaker for salt and pepper, as shown.

136,175
DESIGN FOR A BUTTON OR SIMILAR ARTICLE
Frank B. Allen, Lower Merion Township, Montgomery County, Pa.
Application January 30, 1942, Serial No. 105,529
Term of patent 3½ years



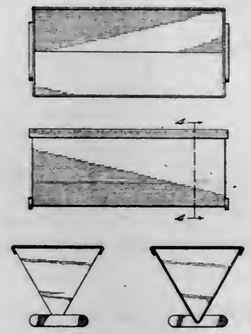
The ornamental design for a button or similar article, as shown and described.

136,176
DESIGN FOR A PICTURE FRAME
William P. Cameron, Washington, D. C., assignor to Edmilton Corporation, Milwaukee, Wis., a corporation of Wisconsin
Application January 30, 1943, Serial No. 109,393
Term of patent 3½ years



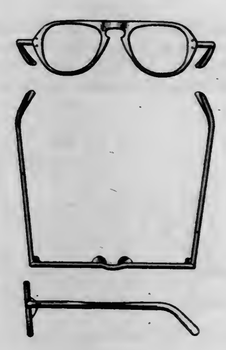
The ornamental design for a picture frame, substantially as shown.

136,177
DESIGN FOR A BAKING PAN
Durries Crane, Chicago, Ill.
Application May 8, 1943, Serial No. 110,155
Term of patent 3½ years



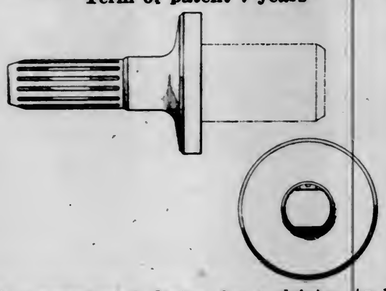
The ornamental design for a baking pan, as shown.

136,178
DESIGN FOR A SPECTACLE FRAME OR THE LIKE
Hugo M. Ditto, Newton, Mass., assignor to Marine Optical Mfg. Co., Boston, Mass., a co-partnership composed of Arthur Ditto, Eugene D. Ditto, and Hugo M. Ditto
Application May 25, 1943, Serial No. 110,283
Term of patent 14 years



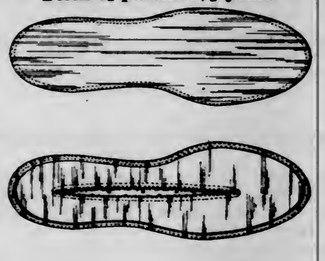
The ornamental design for a spectacle frame, substantially as shown.

136,179
DESIGN FOR A DRIVING TOOL
George M. Graham, Detroit, Mich., assignor to Hinckley-Myers Division of Kent-Moore Organization Inc., Jackson, Mich., a corporation of Michigan
Application April 20, 1943, Serial No. 110,008
Term of patent 7 years



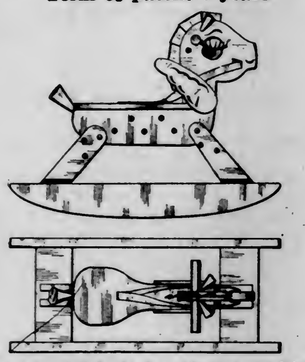
The ornamental design for a driving tool, as shown.

136,180
DESIGN FOR A COMBINED SHOE INSOLE AND COVER
Martine Kane, New York, N. Y.
Application April 24, 1943, Serial No. 110,027
Term of patent 3½ years



The ornamental design for a combined shoe insole and cover, substantially as shown.

136,181
DESIGN FOR A ROCKING HORSE
Henry J. Meyer, Briarcliff Manor, N. Y.
Application June 19, 1943, Serial No. 110,490
Term of patent 7 years



The ornamental design for a rocking horse, substantially as shown.

136,182
DESIGN FOR A BREAD KNIFE OR SIMILAR ARTICLE
Lon J. Oliver, Chillicothe, Ohio
Application March 5, 1943, Serial No. 109,671
Term of patent 14 years



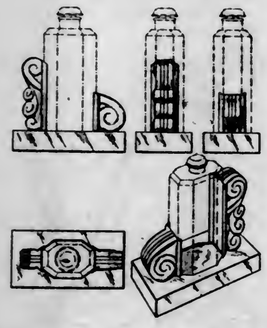
The ornamental design for a bread knife or similar article, as shown.

136,183
DESIGN FOR A FANCIFUL FIGURE OR SIMILAR ARTICLE
Walter G. Taube, Minneapolis, and Oswald R. Black, St. Louis Park, Minn., assignors to Eleanor B. Pillsbury, Wayzata, Minn., trustee
Application January 11, 1943, Serial No. 109,228
Term of patent 3½ years



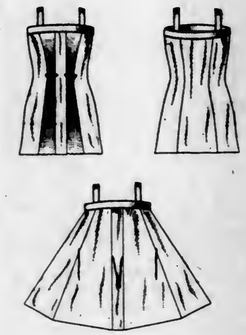
The ornamental design for a fanciful figure or similar article, as shown.

136,184
DESIGN FOR A COMBINED PERFUME BOTTLE AND STAND THEREFOR
Arthur R. Botham, New York, N. Y., assignor to Coty, Inc., a corporation of Delaware
Application April 9, 1943, Serial No. 109,941
Term of patent 7 years



The ornamental design for a combined perfume bottle and stand therefor, substantially as shown and described.

136,185
DESIGN FOR A BATHING GARMENT OR THE LIKE
Marian Worthington Keith, Washington, D. C.
Application June 8, 1943, Serial No. 110,404
Term of patent 14 years



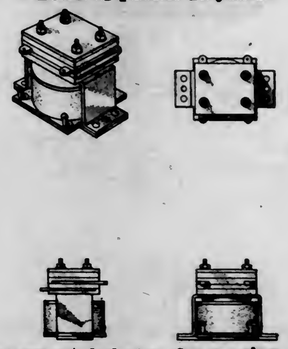
The ornamental design for a bathing garment or the like, as shown and described.

136,186
DESIGN FOR A COMBINED ASH RECEIVER AND CIGARETTE HOLDER
Martin Levine, Chicago, Ill.
Application May 17, 1943, Serial No. 110,225
Term of patent 7 years



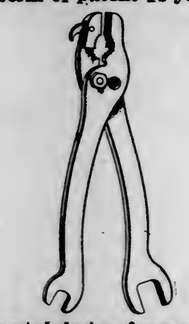
The ornamental design for a combined ash receiver and cigarette holder, as shown.

136,187
DESIGN FOR A RELAY
Lewis E. Massie, Culver City, Calif.
Application May 24, 1943, Serial No. 110,269
Term of patent 14 years



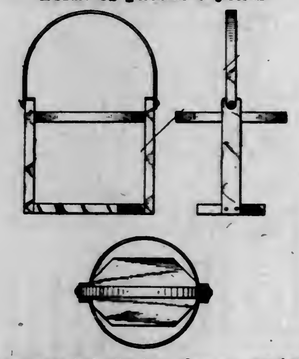
The ornamental design for a relay, as shown.

136,188
DESIGN FOR A COMBINED WRENCH AND PLIERS
William R. Payne, Chesapeake, W. Va.
Application November 24, 1942, Serial No. 108,863
Term of patent 14 years



The ornamental design for a combined wrench and pliers, substantially as shown.

136,189
DESIGN FOR A CONTAINER CARRIER
Louis M. Reams, Richmond, Va.
Application April 12, 1943, Serial No. 109,958
Term of patent 7 years



The ornamental design for a container carrier, as shown.

136,190
DESIGN FOR AN ELECTRICAL CONNECTOR PLUG
Tom Moore Urell, Tioga, Pa.
Application May 27, 1943, Serial No. 110,305
Term of patent 14 years



The ornamental design for an electrical connector plug, as shown.

136,191
DESIGN FOR A DRESS
Bonnie Cashin, New York, N. Y.
Application July 24, 1943, Serial No. 110,748
Term of patent 3½ years



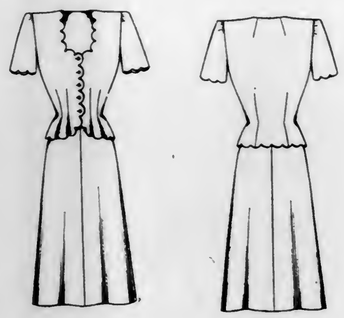
The ornamental design for a dress, substantially as shown.

136,192
DESIGN FOR A DRESS
Bonnie Cashin, New York, N. Y.
Application July 24, 1943, Serial No. 110,751
Term of patent 3½ years



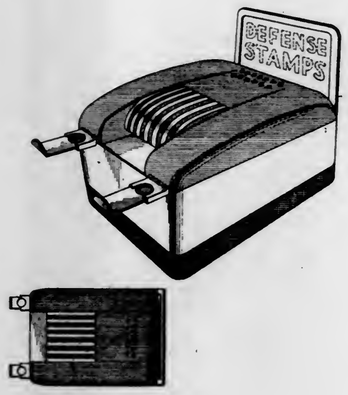
The ornamental design for a dress, substantially as shown.

136,193
DESIGN FOR A DRESS
Julia Smith, New York, N. Y.
Application July 24, 1943, Serial No. 110,752
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

136,194
DESIGN FOR A DEFENSE STAMP VENDING DEVICE OR SIMILAR ARTICLE
Charles A. Byrnes, Chicago, Ill.
Application January 2, 1942, Serial No. 104,976
Term of patent 7 years



The ornamental design for a defense stamp vending device or similar article, as shown and described.

136,195
DESIGN FOR A DRESS
Bonnie Cashin, New York, N. Y.
Application July 24, 1943, Serial No. 110,747
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

136,196
DESIGN FOR A DRESS
Bonnie Cashin, New York, N. Y.
Application July 24, 1943, Serial No. 110,749
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

136,197
DESIGN FOR A DRESS
Bonnie Cashin, New York, N. Y.
Application July 24, 1943, Serial No. 110,750
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

136,198
DESIGN FOR A DRESS
Julia Smith, New York, N. Y.
Application July 24, 1943, Serial No. 110,754
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

136,199
DESIGN FOR A DRESS
Julia Smith, New York, N. Y.
Application July 24, 1943, Serial No. 110,753
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

American Viscose Corporation, Wilmington, Del. Films, sheets, rods, etc. Serial No. 456,761; Aug. 17. Class 50.

Ansehl, Benjamin, Co., The, St. Louis, Mo. Protective hand lotion. Serial No. 460,644; Aug. 17. Class 6.

Bendel, Henri, Inc., New York, N. Y. Perfumes, toilet water, hand and face lotions, etc. Serial No. 459,723; Aug. 17. Class 6.

Bessire & Company, Inc., Indianapolis, Ind., Louisville, Ky., Columbus, Ohio, Atlanta, Ga., Memphis, Tenn., and Richmond, Va. Dairy, bakery and confectioner's brushes. Serial No. 454,389; Aug. 17. Class 29.

Blossman, A. R., Covington, La. Liquefied petroleum gas. Serial No. 453,659; Aug. 17. Class 6.

Brooklyn Eagle, Inc., The, Brooklyn, N. Y. Newspaper. Serial No. 454,328; Aug. 17. Class 38.

Buda Company, The, Harvey, Ill. Engines. Serial Nos. 459,397–8; Aug. 17. Class 23.

Carter, A. B., Inc., Gastonia, N. C. Rayon yarn. Serial No. 461,360; Aug. 17. Class 43.

Casco Bottling Company, Portland, Maine. Nonalcoholic beverages and syrups and extracts. Serial No. 461,537; Aug. 17. Class 45.

Central Paper Company, Inc., Muskegon, Mich. Paper products. Serial No. 459,256; Aug. 17. Class 37.

Chrysler Corporation, Highland Park, Mich. Intermediate article of manufacture. Serial Nos. 457,699–700; Aug. 17. Class 14.

Club Aluminum Products Co., Chicago, Ill. Aluminum cleaner. Serial No. 461,546; Aug. 17. Class 4.

Commercial Metal Products Co., Chicago, Ill. Industrial, commercial, and residential incandescent and fluorescent lighting units. Serial No. 449,169; Aug. 17. Class 21.

Community Herald, Kansas City, Mo. Weekly publication. Serial No. 461,482; Aug. 17. Class 38.

Compañía Mercantil Azucarera San Agustin, Havana, Cuba. Refined sugar, molasses, cane-juice syrup, etc. Serial No. 460,952; Aug. 17. Class 46.

Coty, Inc., New York, N. Y. Face powder, dusting powder, toilet water, etc. Serial No. 461,133; Aug. 17. Class 6.

Coty, Inc., New York, N. Y. Face powder, dusting powder, toilet water, etc. Serial No. 461,135; Aug. 17. Class 6.

Courtaulds, Limited, London, England. Imitation hair. Serial No. 450,726; Aug. 17. Class 1.

Devoe & Raynolds Company, Inc., New York, N. Y. Marine paint. Serial No. 459,747; Aug. 17. Class 16.

Durkee Marine Products Corporation, New York and Grasmere, Staten Island, N. Y. Fly rods, shark hooks, eel spears, etc. Serial No. 459,260; Aug. 17. Class 22.

Eastman Kodak Company, Jersey City, N. J., and Rochester, N. Y. Photographic prints. Serial No. 461,109; Aug. 17. Class 38.

Elway Food Products Corp., New York, N. Y. Roasted malt. Serial No. 460,988; Aug. 17. Class 46.

Florsheim Shoe Company, The, Chicago, Ill. Shoes. Serial No. 459,303; Aug. 17. Class 39.

Fravessi-Lamont, Inc., New York, N. Y. Greeting cards. Serial No. 453,936; Aug. 17. Class 38.

Frazee, John C., doing business as Liberty Perpetual Calendar, Kernville, Calif. Perpetual calendar. Serial No. 459,000; Aug. 17. Class 38.

Grain Candy Bar Manufacturing Company. (See Schoenfeld, Walter.)

Hillsborough Packing Company, Inc., Tampa, Fla. Fresh citrus fruits. Serial No. 455,373; Aug. 17. Class 46.

Hollingshead, R. M., Corp., Camden, N. J. Leather preservative, vitalizer, and cleaner. Serial No. 460,649; Aug. 17. Class 4.

International Association of Lions Clubs, Chicago, Ill. Stationery. Serial No. 435,501; Aug. 17. Class 37.

Iowa Fiber Box Company, Keokuk, Iowa. Paper and fiber boxes. Serial No. 459,689; Aug. 17. Class 2.

Iso-Speedic Company Limited, The, Coventry, Warwickshire, England. Governors and regulators for engines and machines, Speed. Serial No. 461,141; Aug. 17. Class 23.

Kelco Company, San Diego, Calif. Algin product. Serial No. 453,547; Aug. 17. Class 6.

Kenosha Full Fashioned Mills, Inc., Kenosha, Wis. Hosiery. Serial No. 461,319; Aug. 17. Class 39.

Kingan & Co. Incorporated, Indianapolis, Ind. Creamery butter. Serial No. 461,019; Aug. 17. Class 46.

Liberty Perpetual Calendar. (See Frazee, John C.)

Linck, Otto E., doing business as Mistoff Products, Montclair, N. J. Chemically treated cloth. Serial No. 453,245; Aug. 17. Class 4.

McMullen-Leavens Company, New York, N. Y. Men's shirts, men's and women's pajamas, shorts, etc., and women's wearing apparel. Serial No. 461,001; Aug. 17. Class 39.

Mines & Flaster Coat Co., New York, N. Y. Misses' and junior misses' coats, suits, and coat and suit ensembles. Serial No. 461,440; Aug. 17. Class 39.

Mistoff Products. (See Linck, Otto E.)

Mor-Pak Preserving Corporation, San Francisco, Calif. Canned fruits and vegetables. Serial No. 461,080; Aug. 17. 1943. Class 46.

National Filter Corporation, New York, N. Y. Fibrous and cellulosic filtering materials. Serial No. 461,263; Aug. 17. Class 31.

Newman, Nat, Inc., Atlantic City, N. J. Candy. Serial No. 461,349; Aug. 17. Class 46.

Nicoll, R. C., doing business as Valerie Jean Date Shop, Thermal, Calif. Packages containing date cake, date candy, etc. Serial No. 460,345; Aug. 17. Class 46.

Novocol Chemical Mfg. Co. Inc., Brooklyn, N. Y. Anesthetics. Serial No. 461,525; Aug. 17. Class 6.

Ovis Watch Co. (See Stern, Jack.)

Post, E. L., & Co., Inc., New York, N. Y. Babbitt and anti-friction metal. Serial No. 457,685; Aug. 17. Class 14.

Pure Oil Company, The, Chicago, Ill. Lubricating oil. Serial No. 441,631; Aug. 17. Class 15.

Pure Oil Company, The, Chicago, Ill. Lubricating oil. Serial No. 441,639; Aug. 17. Class 15.

R and R Plastics Inc., West Springfield, Mass. Hammers. Serial No. 459,205; Aug. 17. Class 23.

Reid, Murdoch & Co., Chicago, Ill. Grape juice. Serial No. 460,244; Aug. 17. Class 45.

Republic Aviation Corporation, East Farmingdale, N. Y. Airplanes and structural parts thereof. Serial Nos. 460,712–13; Aug. 17. Class 19.

Schoenfeld, Walter, doing business as Grain Candy Bar Manufacturing Company, St Paul, Minn. Candy bars. Serial No. 457,711; Aug. 17. Class 46.

Seaporcel Corporation, Long Island City, N. Y. Porcelain enamel. Serial No. 460,584; Aug. 17. Class 16.

Seven-Up Company, The, St. Louis, Mo. Carbonated, nonalcoholic, noncereal, maltless beverages. Serial No. 461,009; Aug. 21. Class 45.

Society of Chemical Industry in Basle, Basel, Switzerland. Chemical substances and coloring matters. Serial No. 461,120; Aug. 17. Class 6.

Society of Chemical Industry in Basle, Basel, Switzerland. Chemical substances. Serial No. 461,121; Aug. 17. Class 6.

Stearns, Frederick, & Company, Detroit, Mich. Preparation as a vasoconstrictor having local and systemic action. Serial No. 459,276; Aug. 17. Class 6.

Stearns, Frederick, & Company, Detroit, Mich. Vitamin preparation. Serial Nos. 461,068–71; Aug. 17. Class 6.

Sterling Drug Inc., Wilmington, Del. Laxative with carminative. Serial No. 461,470; Aug. 17. Class 6.

Stern, Jack, doing business as Ovis Watch Co., New York, N. Y. Watches. Serial No. 457,018; Aug. 17. Class 27.

Sturtevant, B. F., Company, Boston, Mass. Blowers and radiator type heating units, etc. Serial No. 450,820; Aug. 17. Class 34.

Trabulsi Textile Co., New York, N. Y. Mufflers, scarfs, and men's neckties. Serial No. 461,233; Aug. 17. Class 39.

United States Rubber Company, New York, N. Y. Rubber composition in sheet form. Serial No. 459,034; Aug. 17. Class 21.

Valerie Jean Date Shop. (See Nicoll, R. C.)

Walker Vitamin Products, Inc., Mt. Vernon, N. Y. Vitamins and vitamin combinations. Serial Nos. 460,820–2; Aug. 17. Class 6.

Welch, W. M., Manufacturing Company, Chicago, Ill. Biological specimens which consist of frozen mammals, vertibrates and the like. Serial No. 459,213; Aug. 17. Class 1.

Westinghouse Air Brake Company, Borough of Wilmerding, Pa. Fluid pressure motor and control valve units. Serial No. 456,065; Aug. 17. Class 23.

Winthrop Products Inc., New York, N. Y. Aluminum hydroxide gel preparations. Serial No. 459,713; Aug. 17. Class 6.

Winthrop Products Inc., New York, N. Y. Antimony compound. Serial No. 459,716; Aug. 17. Class 6.

Winthrop Products Inc., New York, N. Y. Pharmaceutical preparation. Serial No. 459,717; Aug. 17. Class 6.

Wisconsin Foundry & Machine Company, Madison, Wis. Road, pit, and quarry equipment. Serial No. 460,663; Aug. 17. Class 23.

Woolen Corporation of America, The, New York, N. Y. Woolen, worsted, and cotton fabric in the piece. Serial No. 459,952; Aug. 17. Class 42.

York Ice Machinery Corporation, York, Pa. Air conditioning apparatuses. Serial No. 444,210; Aug. 17. Class 34.

Zerbo, Mary, New York, N. Y. Nonalcoholic maltless beverage. Serial No. 456,706; Aug. 17. Class 45.

Zion Industries, Inc., Zion, Ill. Candy. Serial No. 461,405. Class 46.

LIST OF REGISTRANTS OF TRADE-MARKS

Adler Co., The. (See Dormer Brothers Company, assignor.)
Aetna Life Insurance Company, Hartford, Conn. Monthly periodical. 174,870; renewed Oct. 23, 1943.
Aetna Life Insurance Company, Hartford, Conn. Monthly periodical. 175,145; renewed Oct. 30, 1943.
Allied Chemical & Dye Corporation, New York, N. Y. Naphthalene, tar distillate hydrocarbon oils. 402,826; Aug. 17; Serial No. 456,483; published June 8, 1943. Class 6.
Allied Chemical & Dye Corporation, New York, N. Y. Paints. 402,827; Aug. 17; Serial No. 456,485; published June 8, 1943. Class 16.
American Products Company, The. (See Mills Brothers Company, The.)
American Viscose Corporation, Wilmington, Del. Yarns, threads and yarn and thread filaments. 402,865; Aug. 17; Serial No. 459,391; published June 8, 1943. Class 43.
Applied Chemical Corporation, New York, N. Y. Impregnating substances, fungicides, solvents, etc. 402,846; Aug. 17; Serial No. 458,579; published June 8, 1943. Class 6.
Baldwin Locomotive Works, The. (See Cramp, William, & Sons Ship & Engine Building Co., assignor.)
Barber, A. H., & Co., Chicago, Ill., and Plymouth and Dodgeville, Wis., assignor, by mesne assignments, to The Borden Company, New York, N. Y. Cheese. 177,383–4; renewed Dec. 18, 1943.
Barnängens Tekniska Fabrikers, Aktiebolag, Stockholm, Sweden. Ink and powders for producing inks. 169,452–3; renewed June 19, 1943.
Bay State Milling Co., Winona, Minn. Wheat flour. 176,489; renewed Nov. 27, 1943.
Bedford Products, Dunkirk, N. Y. Fruit jellies. 402,890; Aug. 17. Class 46.
Bell Company, The, Worcester, Mass. Woolen, worsted piece goods. 177,324; renewed Dec. 18, 1943.
Berendsen Silk Knitting Co., Bangor, Pa., assignor to Joseph C. Bossong, New York, N. Y. Hosiery. 175,796; renewed Nov. 13, 1943.
Blaisdell Pencil Company, Philadelphia, Pa. Lead pencils. 171,004; renewed July 31, 1943.
Blaisdell Pencil Company, Philadelphia, Pa. Lead pencils. 172,299; renewed Aug. 28, 1943.
Blue Swan Mills, Inc., New York, N. Y. Ladies' and children's underwear. 402,822; Aug. 17; Serial No. 455,363; published Nov. 17, 1942. Class 39.
Blum & Bergeron, Houma, La. Dried shrimp. 177,170; renewed Dec. 11, 1943.
Blum & Bergeron, Houma, La. Dried shrimp. 177,341; renewed Dec. 18, 1943.
Bona Allen, Incorporated, Budford, Ga. Horse collars, harness, harness parts. 176,671; renewed Nov. 27, 1943.
Bonat & Bonat, Inc., New York, N. Y. Shampoos and lotions. 402,853; Aug. 17; Serial No. 459,036; published June 8, 1943. Class 6.
Borden Company, The. (See Barber, A. H., & Co., assignor.)
Borden Company, The. (See Marty, Carl, & Company, assignor.)
Bossong, Joseph C. (See Berendsen Silk Knitting Co., assignor.)
Bulkley, Weinberg & Tormey, Incorporated, New York, N. Y. Fabrics in the piece. 402,857; Aug. 17; Serial No. 459,255; published May 18, 1943. Class 42.
Burroughs Wellcome & Co. (U. S. A.) Inc., New York, N. Y. Ascaridole, atropine sulfate, U. S. P., bismuth salicylate cream with camphor. 402,839; Aug. 17; Serial No. 458,008; published June 8, 1943. Class 6.
Butler, J. W., Paper Co., assignor to Butler Paper Corporation, Chicago, Ill. Wrapping paper, manila paper, envelopes, etc. 176,406; renewed Nov. 27, 1943.
Butler Paper Corporation. (See Butler, J. W., Paper Co., assignor.)
C & S Chemical Supply Company. (See Stuard, C. F.)
California Associated Raisin Co., now by change of name Sun-Maid Raisin Growers, assignor to Sun-Maid Raisin Growers of Calif., Fresno, Calif. Raisins and candy. 175,312; renewed Nov. 6, 1943.
Callaway Mills, La Grange, Ga. Industrial wiping towels. 402,867; Aug. 17; Serial No. 459,460; published June 8, 1943. Class 42.
Carl Company, The, Schenectady, N. Y. Cotton piece goods, linen piece goods, and toweling. 177,366; renewed Dec. 18, 1943.
Carmack, Edward S., doing business as Zip Manufacturing Company, Little Rock, Ark. Furniture polish. 402,838; Aug. 17; Serial No. 457,893; published Mar. 9, 1943. Class 16.
Carr, Edward G., Chicago, Ill. Earth cutting and planing machine. 175,823; renewed Nov. 13, 1943.
Central Madeira Corporation, New York, N. Y. Decorative articles made of linen, such as bridge, luncheon and dinner sets, etc. 402,824; Aug. 17; Serial No. 456,364; published June 1, 1943. Class 42.

Chapman & Smith Company, Chicago, Ill. Milk of soya. 402,850; Aug. 17; Serial No. 458,803; published June 8, 1943. Class 46.
Chapman & Smith Company, Chicago, Ill. Milk of soya. 402,851; Aug. 17; Serial No. 458,908; published June 8, 1943. Class 46.
Chase Bag Company, The, New York, N. Y. Cotton picker, cloth bags, and sacks. 402,840; Aug. 17; Serial No. 458,033; published June 8, 1943. Class 2.
Chicago Beverage Co., Chicago, Ill. Soft drinks and sirups. 177,575; renewed Dec. 18, 1943.
Chicago Flexible Shaft Company, Chicago, Ill. Electric furnaces. 402,855; Aug. 17; Serial No. 459,106; published June 8, 1943. Class 21.
Citrus Products Company. (See McCarthy, Margaret B., assignor.)
Connecticut Chemical and Disinfectant Co., The, New Haven, Conn. Insecticides. 402,876; Aug. 17. Class 6.
Continental Diamond Fibre Company. (See Diamond State Fibre Company, assignor.)
Corn Products Refining Company, New York, N. Y. Sirup. 177,330–1; renewed Dec. 18, 1943.
Cornell, Charles A., doing business as The Technical Rubber Company, Johnstown, Ohio. Tire patches. 402,859; Aug. 17; Serial No. 459,300; published June 8, 1943. Class 35.
Cramp, William, & Sons Ship & Engine Building Co., The, Philadelphia, assignor, by mesne assignments, to The Baldwin Locomotive Works, Eddystone, Pa. Gears and gear blanks. 174,975; renewed Oct. 20, 1943.
Curtis, A. L., Atlanta, Ga. Internal and injective remedies. 177,357; renewed Dec. 18, 1943.
Diamond State Fibre Company, Elsmere, Del., and Bridgeport, Pa., assignor to Continental Diamond Fibre Company, Newark, Del. Gear blanks and gear wheels. 177,543; renewed Dec. 18, 1943.
Dodge, F. W., Corporation. (See Scribner's, Charles, Sons, assignor.)
Donley Brothers Company, The, Cleveland, Ohio. Fireplace dampers and operating means therefor, fireplace baskets and grates, etc. 175,033; renewed Oct. 30, 1943.
Donley Brothers Company, The, Cleveland, Ohio. Metal building specialties. 169,590; renewed June 26, 1943.
Donley Brothers Company, The, Cleveland, Ohio. Hardware. 177,408; renewed Dec. 18, 1943.
Dormer Brothers Company, The, assignor to The Adler Co., Cincinnati, Ohio. Hosiery. 177,574; renewed Dec. 18, 1943.
Economou, N. P., doing business as Riverview Food Products Co., Los Angeles, Calif. Canned fish. 402,884; Aug. 17. Class 46.
Edgewood Farms, Inc., Ridgefield, N. J. Grass seeds. 402,875; Aug. 17. Class 1.
Elk Sales Co. (See Gutman Bros.)
Endless Belt Corporation, Pisgah Forest, N. C. Linen, cotton and other fabric endless belts. 402,886; Aug. 17. Class 35.
Evershed & Vignoles Limited, London, England. Electrical apparatus. 402,817; Aug. 17; Serial No. 451,531; published June 8, 1943. Class 26.
Exeter Orchards Ass'n Inc., Exeter, Calif. Fresh citrus fruits. 402,870; Aug. 17; Serial No. 459,594; published June 8, 1943. Class 46.
Fenton, A. G., doing business as The Fenton Wholesale Co., Rochester, N. Y. Flavoring extracts and coloring material for food purposes, spices, etc. 177,577; renewed Dec. 18, 1943.
Fenton Wholesale Co., The. (See Fenton, A. G.)
Fisher Scientific Company, Pittsburgh, Pa. Senior titrimeter, infra-rediator, etc. 402,841; Aug. 17; Serial No. 458,150; published June 8, 1943. Class 26.
Flexible Steel Lacing Company, Chicago, Ill. Guards for electric lamps. 174,428; renewed Oct. 16, 1943.
Florasynth Laboratories, New York and Unionport, to Florasynth Laboratories Inc., New York, N. Y. Flavoring extract for foods. 177,204; renewed Dec. 11, 1943.
Fowler, Chappell V. (See Fowler, Meynell E., assignor.)
Fowler, Meynell E., assignor to Chappell V. Fowler, Chicago, Ill. Eggs. 176,862; renewed Dec. 4, 1943.
Fusion Engineering. (See Williams, H. R.)
General Aniline & Film Corporation, New York and Binghamton, N. Y. Sensitized photographic film. 402,828; Aug. 17; Serial No. 456,556; published June 8, 1943. Class 26.
General Shoe Corporation, Nashville, Tenn. Shoe and boot polish. 402,866; Aug. 17; Serial No. 459,414; published June 8, 1943. Class 4.
Globe Novelty House, New York, N. Y. Men's ornamental jewelry. 402,862; Aug. 17; Serial No. 459,337; published June 8, 1943. Class 28.
Gold Buckle Association, East Highlands, Calif. Oranges, lemons, and grapefruit. 177,083–5; renewed Dec. 11, 1943.

Gold Buckle Association, East Highlands, Calif. Oranges, lemons, and grapefruit. 177,086; renewed Dec. 11, 1943.
Gold Buckle Association, East Highlands, Calif. Oranges, lemons, and grapefruit. 177,558; renewed Dec. 18, 1943.
Goodbar, Octavia Walton, doing business as Octavia Walton, Boston, Mass., to Octavia Walton Goodbar, doing business as Octavia Walton, New York, N. Y. Greeting cards, sheets, and folders. 177,414; renewed Dec. 18, 1943.
Gorham Manufacturing Company, Providence, R. I. Smokers' articles. 177,429; renewed Dec. 18, 1943.
Gutman Bros., doing business as Elk Sales Co., New York, N. Y. Candy. 402,814; Aug. 7; Serial No. 447,184; published Jan. 12, 1943. Class 46.
Hanson-Van Winkle-Munning Company. (See Munning, A. P., & Co., assignor.)
Hercules Knitting Co., Milwaukee, Wis. Clothing. 177,410; renewed Dec. 18, 1943.
Hescheles, I. M., Inc., New York, N. Y. Portable file cabinet. 402,847; Aug. 17; Serial No. 458,611; published June 8, 1943. Class 32.
Highland Milling Company, Highland, Ill., assignor to Hopkinsville Milling Company, Hopkinsville, Ky. Wheat flour. 177,572; renewed Dec. 18, 1943.
Hoffmann, William, Chicago, Ill., assignor to John Morrell & Co., Ottumwa, Iowa. Tonic and food for feathered pets. 170,898; renewed July 24, 1943.
Hopkinsville Milling Company. (See Highland Milling Company, assignor.)
House of Byer, The, Malden, to House of Byer, Inc., The, Cambridge, Mass. Waists and hosiery. 171,325; renewed Aug. 7, 1943.
Hoz-Re-Dye Company, Los Angeles, Calif. Dye in pill or tablet form. 402,880; Aug. 17. Class 6.
Huff, Barnes &Ople, Inc., Pittsburgh, Pa. Semi-greaseproof parchment. 402,820–1; Aug. 17; Serial Nos. 454,891–2; published June 8, 1943. Class 37.
International Worsted Mills, Methuen, Mass., and New York, N. Y., assignor, by mesne assignments, to Selden Worsted Mills, Methuen, Mass. Textile fabrics. 177,482; renewed Dec. 18, 1943.
Interwoven Stocking Company, New Brunwick, N. J. Hosiery. 402,887; Aug. 17. Class 39.
Johnson, S. C., & Son, assignor to S. C. Johnson & Son, Inc., Racine, Wis., Polishing brushes. 176,053; renewed Nov. 13, 1943.
Johnson, S. C., & Son, assignor to S. C. Johnson & Son, Inc., Racine, Wis. Prepared wax. 176,405; renewed Nov. 27, 1943.
Johnson, S. C., & Son, Inc., Racine, Wis. Electric floor polishing machines. 402,849; Aug. 17; Serial No. 458,784; published June 8, 1943. Class 21.
Kane Import Corporation, New York, N. Y. Bamboo, bristles, cassia, etc. 402,813; Aug. 17; Serial No. 446,970; published June 8, 1943. Class 1.
Katz, Frank M., Inc., New York, N. Y. China dinner sets. 402,885; Aug. 17. Class 30.
Kellom, Charles F., doing business as Chas. F. Kellom & Co., Philadelphia, assignor to Chas. F. Kellom & Co., Inc., Holmesburg, Philadelphia, Pa. Crude oil, gasoline, and kerosene. 172,366; renewed Aug. 28, 1943.
Kellom, Chas. F., & Co., Inc. (See Kellom, Charles F., assignor.)
Knopf, Alfred A., New York, N. Y. Printed books. 177,307; renewed Dec. 18, 1943.
Levine, H., & Company, Cleveland, Ohio. War ration book holders or covers. 402,873; Aug. 17; Serial No. 459,757; published June 8, 1943. Class 3.
Liquid Carbonic Corporation, The, Chicago, Ill. Welding torches, cutting torches, brazing torches, etc. 402,889; Aug. 17. Class 34.
Los Angeles Soap Company, Los Angeles, Calif. Granulated soap. 402,888; Aug. 17. Class 4.
Ludlow Manufacturing & Sales Co. (See Smith & Dove Manufacturing Co., assignor.)
Magnavox Company, The, Fort Wayne, Ind. Radio and radio-phonograph sets, audio frequency amplifiers, etc. 402,829; Aug. 17; Serial No. 456,656; published June 8, 1943. Class 21.
Maine Potato Growers, Inc., Presque Isle, Maine. Potatoes in their natural state. 402,848; Aug. 17; Serial No. 458,735; published June 8, 1943. Class 46.
Majonnier, Frederick E., Walla Walla, Wash. Fresh tomatoes. 168,105; renewed May 15, 1943.
Marshall Field & Company, Chicago, Ill. Woven cotton edging. 169,880; renewed July 3, 1943.
Martin, L., Co. Inc., The, New York, N. Y. Carbon black. 402,852; Aug. 17; Serial No. 459,009; published June 8, 1943. Class 21.
Marty, Carl, & Company, Chicago, Ill., assignor to The Borden Company, New York, N. Y. Cheese. 177,381; renewed Dec. 18, 1943.
McCarthy, Margaret B., assignor to Citrus Products Company, assignor to Citrus Products Company, Chicago, Ill. Soft drink. 177,127; renewed Dec. 11, 1943.
Mills Brothers Company, The, doing business as The American Products Company, assignor, by mesne assignments, to The Zanol Products Company, Cincinnati, Ohio. Toilet preparations. 177,472; renewed Dec. 18, 1943.

Mills Brothers Company, The, doing business as The American Products Company, assignor, by mesne assignments, to The Zanol Products Company, Cincinnati, Ohio. Perfume, toilet water, talcum powder, etc. 177,473; renewed Dec. 18, 1943.
Mitchell-Bradford Chemical Company, Bridgeport, Conn. Compounds for use in aqueous solutions. 402,869; Aug. 17; Serial No. 459,571; published June 8, 1943. Class 6.
Modern Maid Food Products, Brooklyn, N. Y. Breading mix. 402,877; Aug. 17. Class 46.
Morrell, John, & Co. (See Hoffmann, William, assignor.)
Morris, Harry, Chicago, Ill. Compacts. 402,871; Aug. 17; Serial No. 459,629; published June 8, 1943. Class 2.
Munning, A. P., & Co., assignor to Hanson-Van Winkle-Munning Company, Matawan, N. J. Emery and artificial abrasives, soap, cleaners, etc. 171,294; renewed Aug. 7, 1943.
Munning, A. P., & Co., assignor to Hanson-Van Winkle-Munning Company, Matawan, N. J. Lime polishing composition. 171,747; renewed Aug. 14, 1943.
Mupu Citrus Association, Santa Paula, Calif. Fresh citrous fruits. 177,440; renewed Dec. 18, 1943.
Mupu Citrus Association, Santa Paula, Calif. Fresh citrous fruits. 177,444; renewed Dec. 18, 1943.
Murdock, Victoria, Estate, doing business as The Wichita Eagle, Wichita, Kans. Daily newspaper. 177,314; renewed Dec. 18, 1943.
National Package Drugs, Inc., St. Louis, Mo. Oil of citronella, sweet oil, vitamin B_1 tablets, etc. 402,843; Aug. 17; 458,336; published June 8, 1943. Class 6.
Nissen, George P., Cedar Rapids, Iowa. Tumbling devices. 402,868; Aug. 17; Serial No. 459,495; published June 8, 1943. Class 22.
Nitroloid Company. (See Trickey, Fred L.)
Northern Jobbing Company, Chicago, Ill., to Northern Jobbing Company, St. Paul, Minn., successor. Food products. 177,098; renewed Dec. 11, 1943.
Nyal Company, Detroit, Mich. Antacid. 402,823; Aug. 17; Serial No. 455,669; published June 8, 1943. Class 6.
Olympic Club, The, San Francisco, Calif. Periodicals. 177,338; renewed Dec. 18, 1943.
Pacific Mills, Lawrence and Boston, Mass. Sheets and pillowcases. 402,863; Aug. 17; Serial No. 459,375; published May 25, 1943. Class 42.
Palisade Manufacturing Company, The, Yonkers, N. Y., assignor, by mesne assignments, to The Procter & Gamble Company, Cincinnati, Ohio. Soap. 173,886; renewed Oct. 2, 1943.
Papyrus Company, The, Kenilworth, N. J. Crape paper. 177,499; renewed Dec. 18, 1943.
Paramount Paint & Varnish Co., assignor to Paramount Paint & Varnish Co., Inc., Philadelphia, Pa. Ready-mixed paints. 170,047; renewed July 10, 1943.
Paramount Paint & Varnish Co., assignor to Paramount Paint & Varnish Co., Inc., Philadelphia, Pa. White paint enamel. 170,048; renewed July 10, 1943.
Pennsylvania Salt Manufacturing Company, assignor to The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Lye. 177,222; renewed Dec. 11, 1943.
Petrogalar Laboratories, Inc., Chicago, Ill. Rectal ointments. 402,874; Aug. 17; Serial No. 459,762; published June 8, 1943. Class 6.
Pinus Medicine Company, Monticello, Ill. Internal remedies. 402,858; Aug. 17; Serial No. 459,270; published June 8, 1943. Class 6.
Price Bros., Inc., Frederick, Md. Magnetic controls for producing mechanical movements. 402,834; Aug. 17; Serial No. 457,368; published June 8, 1943. Class 21.
Procter & Gamble Company, The. (See Palisade Manufacturing Company, The, assignor.)
Protectite Company, The, Houston, Tex. Preparation used as a leather dressing and preservative, etc. 402,872; Aug. 17; Serial No. 459,634; published June 8, 1943. Class 4.
Randolph Underwear Co. Incorporated, Randleman, N. C. Women's dress slips. 402,832; Aug. 17; Serial No. 457,010; published Feb. 23, 1943. Class 39.
Reade Manufacturing Company, Inc., Jersey City, N. J. Washing compounds. 402,835; Aug. 17; Serial No. 457,530; published June 8, 1943. Class 4.
Reeves Brothers, Inc., New York, N. Y. Shirting of twill cloth. 402,816; Aug. 17; Serial No. 449,918; published May 26, 1942. Class 42.
Reliable Stores Corporation, Baltimore, Md. Chairs, tables, sofas, desks, etc. 402,883; Aug. 17. Class 32.
Reliance Electric & Engineering Company, The, Cleveland, Ohio. Dynamo-electric adjustable speed drive. 402,818; Aug. 17; Serial No. 451,857; published June 8, 1943. Class 21.
Retail Clerks International Protective Association, La Fayette, Ind. Tie clasps, ornamental coin knives, buttons, etc. 402,815; Aug. 17; Serial No. 449,587; published June 8, 1943. Class 28.
Riverside & Dan River Cotton Mills, Inc., Danville, Va., and New York, N. Y. Fabrics. 402,819; Aug. 17; Serial No. 454,311; published Oct. 13, 1942. Class 42.
Riverside & Dan River Cotton Mills, Inc., Danville, Va. Cotton piece goods. 402,878; Aug. 17. Class 42.
Riverview Food Products Co. (See Economou, N. P.)

Rockwood Pottery Company, The, assignor, by mesne assignments, to Sperti, Inc., Cincinnati, Ohio. Pottery ware. 155,517–19; renewed May 30, 1942.
Roderick, Anthony A., Hartford, Conn. Preparation made of roasted cereals. 402,831; Aug. 17; Serial No. 456,947; published June 8, 1943. Class 46.
Roth Tobacco Company, Cape Girardeau, Mo. Twist and plug tobacco. 177,451; renewed Dec. 18, 1943.
Roth Tobacco Company, Cape Girardeau, Mo. Twist and plug tobacco. 177,453; renewed Dec. 18, 1943.
Schering & Glatz, Inc., New York, N. Y. Bile salts compositions. 402,860; Aug. 17; Serial No. 459,317; published June 8, 1943. Class 6.
Scherl & Roth, Inc., Cleveland, Ohio. Cornets, trumpets, trombones, etc. 402,882; Aug. 17. Class 36.
Scribner's, Charles, Sons, assignor, by mesne assignments, to F. W. Dodge Corporation, New York, N. Y. Monthly publication. 173,713; renewed Oct. 2, 1943.
Selden Worsted Mills. (See International Worsted Mills, assignor.)
Sewall Paint and Glass Company, assignor to Sewall Paint & Varnish Company, Kansas City, Mo. Paint. 177,545; renewed Dec. 18, 1943.
Sewall Paint & Varnish Company. (See Sewall Paint and Glass Company, assignor.)
Sheaffer, W. A., Pen Company, Fort Madison, Iowa. Package consisting of V-mail stationery, writing fluid, and leads. 402,854; Aug. 17; Serial No. 459,089; published June 8, 1943. Class 50.
Showa Shoyu Brewing Co. (See Tadano, George Y.)
Smith & Dove Manufacturing Co., Andover, assignor, by mesne assignments, to Ludlow Manufacturing & Sales Co., Boston, Mass. Cotton thread. 173,308; renewed Sept. 18, 1943.
Smith, R. Blackwell, doing business as The Tonsone Co., Petersburg, Va. Preparation for use in treating tonsilitis and sore throat and for a laxative. 177,323; renewed Dec. 18, 1943.
Southern Friction Materials Company, Charlotte, N. C. Cotton piece goods. 402,837; Aug. 17; Serial No. 457,618; published June 1, 1943. Class 42.
Sperti, Inc. (See Rockwood Pottery Company, The, assignor.)
Stanley Works, The, New Britain, Conn. Tools. 177,405; renewed Dec. 18, 1943.
Stern & Stern Textile Importers Inc., New York, N. Y. Piece goods. 402,825; Aug. 17; Serial No. 456,477; published May 11, 1943. Class 42.
Stuard, C. F., doing business as C & S Chemical Supply Company, Chickasha, Okla. Solvent used in cleaning boilers, corroded pipes, engine jackets, etc. 402,836; Aug. 17; Serial No. 451,583; published June 8, 1943. Class 6.
Stuart Oxygen Co., San Francisco, Calif. Medical oxygen, nitrous oxide, hi-pure nitrous oxide, etc. 402,844–5; Aug. 17; Serial Nos. 458,413–14; published June 8, 1943. Class 6.
Sun-Maid Raisin Growers. (See California Associated Raisin Co.)
Sun-Maid Raisin Growers of California. (See California Associated Raisin Co., assignor.)
Tadano, George Y., doing business as Showa Shoyu Brewing Co., Glendale, Ariz. Soya bean sauce. 402,861; Aug. 17; Serial No. 459,319; published June 8, 1943. Class 46.
Technical Rubber Company, The. (See Cornell, Charles A.)
Tonsone Co., The. (See Smith, R. Blackwell.)
Trickey, Fred L., doing business as Nitroloid Company, Berlin, Wis. Thinner for resinous and cellulose cements. 402,833; Aug. 17; Serial No. 457,056; published June 8, 1943. Class 6.
United Hosiery Mills Corporation, Chattanooga, Tenn. Hosiery. 177,563; renewed Dec. 18, 1943.
United Piece Dye Works, The, Lodi, N. J. Dyed, printed, and finished textile fabrics. 177,466; renewed Dec. 18, 1943.
U. S. Sanitary Specialties Corporation, Chicago, Ill. Soap. 177,559; renewed Dec. 18, 1943.
U. S. Sanitary Specialties Corporation, Chicago, Ill. Scrubbing compound. 177,560; renewed Dec. 18, 1943.
Vaughan & Bushnell Manufacturing Company, Chicago, Ill. Handled hammers, hatchets, etc. 172,023; renewed Aug. 21, 1943.
Vita-Zyme Laboratories, Inc., Chicago, Ill. Emzymes. 402,830; Aug. 17; Serial No. 456,836; published June 8, 1943. Class 48.
Vitro Manufacturing Company, The, Pittsburgh, Pa. Ceramic glazes and enamels. 169,820; renewed July 3, 1943.
Vogt, F. G., & Sons, Inc., Philadelphia, Pa. Lard. 175,791; renewed Nov. 13, 1943.
Walton, Octavia. (See Goodbar, Octavia Walton.)
Ward Baking Company, New York, N. Y. Bread. 177,502; renewed Dec. 18, 1943.
Washington, G., Coffee Refining Company, Morris Plains, N. J. Coffee. 402,864; Aug. 17; Serial No. 459,385; published June 8, 1943. Class 46.
Wawak Company Inc., Chicago, Ill. Piece goods. 402,879; Aug. 17. Class 42.
Western Hosiery Company, Chicago, Ill. Gloves and mittens. 175,810; renewed Nov. 13, 1943.
White Rock Mineral Spring Company, Waukesha, Wis., assignor to White Rock Mineral Springs Company, New York, N. Y. Natural and artificial mineral water, ginger ale, phosphate, etc. 23,873; re-renewed Nov. 28, 1943.
Wichita Eagle, The. (See Murdock, Victoria, Estate.)
Williams, H. R., doing business as Fusion Engineering, Cleveland, Ohio. Alloys for silver brazing and soldering. 402,856; Aug. 17; Serial No. 459,182; published June 8, 1943. Class 14.
Wirk Garment Corporation, Chicago, Ill. One-piece outer garments for men and women. 402,881; Aug. 17. Class 39.
Wood Treating Chemicals Co., St. Louis, Mo. Wood preservatives. 402,842; Aug. 17; Serial No. 458,311; published June 8, 1943. Class 6.
Zanol Products Company, The. (See Mills Brothers Company, The, assignor.)
Zip Manufacturing Company. (See Carmack, Edward S.)

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Bamboo, bristles, cassia, etc. Kane Import Corporation. 402,813; Aug. 17; Serial No. 446,970; published June 8, 1943.
Seeds, Grass. Edgewood Farms, Inc. 402,875; Aug. 17.

CLASS 2

Compacts. H. Morris. 402,871; Aug. 17; Serial No. 459,629; published June 8, 1943.
Pickers, cloth bags, and sacks, Cotton. Chase Bag Company. 402,840; Aug. 17; Serial No. 458,033; published June 8, 1943.

CLASS 3

Collars, harness, harness parts, Horse. Boss Allen, Incorporated. 176,671; renewed Nov. 27, 1943.
Holders or covers, War ration book. H. Levine & Company. 402,873; Aug. 17; Serial No. 459,757; published June 8, 1943.

CLASS 4

Abrasives, soap, cleaners, etc., Emery and artificial. A. P. Munning & Co. 171,294; renewed Aug. 7, 1943.
Lime polishing composition. A. P. Munning & Co. 171,747; renewed Aug. 14, 1943.
Polish, Shoe and boot. General Shoe Corporation. 402,866; Aug. 17; Serial No. 459,414; published June 8, 1943.
Preparation used as a leather dressing and preservative, etc. Protectite Company. 402,872; Aug. 17; Serial No. 459,634; published June 8, 1943.
Scrubbing compound. U. S. Sanitary Specialties Corporation. 177,560; renewed Dec. 18, 1943.
Soap. Palisade Manufacturing Company. 173,886; renewed Oct. 2, 1943.
Soap. U. S. Sanitary Specialties Corporation. 177,559; renewed Dec. 18, 1943.
Soap, Granulated. Los Angeles Soap Company. 402,888; Aug. 17.
Washing compounds. Reade Manufacturing Company. 402,835; Aug. 17; Serial No. 457,530; published June 8, 1943.

CLASS 6

Antacid. Nyal Company. 402,823; Aug. 17; Serial No. 455,669; published June 8, 1943.
Ascaridole, atropine sulfate, U. S. P., bismuth salicylate cream with camphor. Burroughs Wellcome & Co. (U. S. A.) Inc. 402,839; Aug. 17; Serial No. 458,008; published June 8, 1943.
Compounds for use in aqueous solutions. Mitchell-Bradford Chemical Company. 402,869; Aug. 17; Serial No. 459,571; published June 8, 1943.
Dye in pill or tablet form. Hoz-Re-Dye Company. 402,880; Aug. 17.
Insecticides. Connecticut Chemical and Disinfectant Co. 402,876; Aug. 17.
Internal remedies. Pinus Medicine Company. 402,858; Aug. 17; Serial No. 459,270; published June 8, 1943.
Lye. Pennsylvania Salt Manufacturing Company. 177,222; renewed Dec. 11, 1943.
Naphthalene, tar distillate hydrocarbon oils. Allied Chemical & Dye Corporation. 402,826; Aug. 17; Serial No. 456,483; published June 8, 1943.
Oil of citronella, sweet oil, vitamin B_1 tablets, etc. National Package Drugs, Inc. 402,843; Aug. 17; Serial No. 458,336; published June 8, 1943.
Ointments, Rectal. Petrogalar Laboratories, Inc. 402,874; Aug. 17; Serial No. 459,762; published June 8, 1943.

Oxygen, nitrous oxide, hi-pure nitrous oxide, etc., Medical. Stuart Oxygen Co. 402,844–5; Aug. 17; Serial Nos. 458,413–14; published June 8, 1943.
Perfume, toilet water, talcum powder, etc. Mills Brothers Company. 177,473; renewed Dec. 18, 1943.
Preparation for use in treating tonsilitis and sore throat and for a laxative. R. B. Smith. 177,323; renewed Dec. 18, 1943.
Preservatives, Wood. Wood Treating Chemicals Co. 402,842; Aug. 17; Serial No. 458,311; published June 8, 1943.
Remedies, Internal and injective. A. L. Curtis. 177,357; renewed Dec. 18, 1943.
Salts compositions, Bile. Schering & Glatz, Inc. 402,860; Aug. 17; Serial No. 459,317; published June 8, 1943.
Shampoos and lotions. Bonat & Bonat, Inc. 402,853; Aug. 17; Serial No. 459,036; published June 8, 1943.
Solvent used in cleaning boilers, corroded pipes, engine jackets, etc. C. F. Stuard. 402,836; Aug. 17; Serial No. 451,583; published June 8, 1943.
Substances, fungicides, solvents, etc., Impregnating. Applied Chemical Corporation. 402,846; Aug. 17; Serial No. 458,579; published June 8, 1943.
Thinner for resinous and cellulose cements. F. L. Trickey. 402,833; Aug. 17; Serial No. 457,056; published June 8, 1943.
Toilet preparations. Mills Brothers Company. 177,472; renewed Dec. 18, 1943.

CLASS 8

Smokers' articles. Gorham Manufacturing Company. 177,429; renewed Dec. 18, 1943.

CLASS 11

Ink and powders for producing inks. Barnängens Tekniska Fabrikers Aktiebolag. 169,452–3; renewed June 19, 1943.

CLASS 12

Metal building specialties. Donley Brothers Company. 169,590; renewed June 26, 1943.

CLASS 13

Hardware. Donley Brothers Company. 177,408; renewed Dec. 18, 1943.

CLASS 14

Alloys for silver brazing and soldering. H. R. Williams. 402,856; Aug. 17; Serial No. 459,182; published June 8, 1943.

CLASS 15

Oil, gasoline, and kerosene. Crude. C. F. Kellom. 172,366; renewed Aug. 28, 1943.

CLASS 16

Enamel, White paint. Paramount Paint & Varnish Co. 170,048; renewed July 10, 1943.
Glazes and enamels, Ceramic. Vitro Manufacturing Company. 169,820; renewed July 3, 1943.
Paint. Sewall Paint and Glass Company. 177,545; renewed Dec. 18, 1943.
Paints. Allied Chemical & Dye Corporation. 402,827; Aug. 17; Serial No. 456,485; published June 8, 1943.
Paints, Ready-mixed. Paramount Paint & Varnish Co. 170,047; renewed July 10, 1943.
Polish, Furniture. E. S. Carmack. 402,838; Aug. 17; Serial No. 457,893; published Mar. 8, 1943.
Wax, Prepared. S. C. Johnson & Son, Inc. 176,405; renewed Nov. 27, 1943.

CLASS 17

Tobacco, Twist and plug. Roth Tobacco Company. 177,451; renewed Dec. 18, 1943.
Tobacco, Twist and plug. Roth Tobacco Company. 177,453; renewed Dec. 18, 1943.

CLASS 21

Carbon black. L. Martin Co. Inc. 402,852; Aug. 17; Serial No. 459,009; published June 8, 1943.
Dynamo-electric adjustable speed drive. Reliance Electric & Engineering Company. 402,818; Aug. 17; Serial No. 451,857; published June 8, 1943.
Electric furnaces. Chicago Flexible Shaft Company. 402,855; Aug. 17; Serial No. 459,106; published June 8, 1943.
Electrical floor polishing machines. S. C. Johnson & Son, Inc. 402,849; Aug. 17; Serial No. 458,784; published June 8, 1943.
Guards for electric lamps. Flexible Steel Lacing Company. 174,428; renewed Oct. 16, 1943.
Magnetic controls for producing mechanical movements. Price Bros., Inc. 402,834; Aug. 17; Serial No. 457,368; published June 8, 1943.
Radio and radio-phonograph sets, audio frequency amplifiers, etc. Magnavox Company. 402,829; Aug. 17; Serial No. 456,656; published June 8, 1943.

CLASS 22

Tumbling devices. G. P. Nissen. 402,868; Aug. 17; Serial No. 459,495; published June 8, 1943.

CLASS 23

Blanks and gear wheels, Gear. Diamond State Fibre Company. 177,543; renewed Dec. 18, 1943.
Cutting and planning machine, Earth. E. G. Carr. 175,823; renewed Nov. 13, 1943.
Gears and gear blanks. William Cram & Sons Ship & Engine Building Co. 174,975; renewed Oct. 30, 1943.
Handled hammers, hatchets, etc. Vaughn & Bushnell Manufacturing Company. 172,023; renewed Aug. 21, 1943.
Tools. Stanley Works. 177,405; renewed Dec. 18, 1943.

CLASS 26

Electrical apparatus. Evershed & Vignoles Limited. 402,817; Aug. 17; Serial No. 451,531; published June 8, 1943.
Film, Sensitized photographic. General Aniline & Film Corporation. 402,828; Aug. 17; Serial No. 456,556; published June 8, 1943.
Titrimeter, infra-rediator, etc., Senior. Fisher Scientific Company. 402,841; Aug. 17; Serial No. 458,150; published June 8, 1943.

CLASS 28

Clasps, ornamental coin knives, buttons, etc., Tie. Retail Clerks International Protective Association. 402,815; Aug. 17; Serial No. 449,587; published June 8, 1943.
Jewelry, Men's ornamental. Globe Novelty House. 402,862; Aug. 17; Serial No. 459,337; published June 8, 1943.

CLASS 29

Brushes, Polishing. S. C. Johnson & Son. 176,053; renewed Nov. 13, 1943.

CLASS 30

Dinner sets, China. Frank M. Katz, Inc. 402,885; Aug. 17.
Pottery ware. Rockwood Pottery Company. 155,517–9; renewed May 30, 1942.

CLASS 32

Cabinet, Portable file. I. M. Hescheles. 402,847; Aug. 17; Serial No. 458,611; published June 8, 1943.
Chairs, tables, sofas, desks, etc. Reliable Stores Corporation. 402,883; Aug. 17.

CLASS 34

Dampers, and operating means therefor, fireplace baskets and grates, etc., Fireplace. Donley Brothers Company. 175,033; renewed Oct. 30, 1943.
Torches, cutting torches, brazing torches, etc., Welding. Liquid Carbonic Corporation. 402,889; Aug. 17.

CLASS 35

Belts, Linen, cotton and other fabric endless. Endless Belt Corporation. 402,886; Aug. 17.
Tire patches. C. A. Cornell. 402,859; Aug. 17; Serial No. 459,300; published June 8, 1943.

CLASS 36

Cornets, trumpets, trombones, etc. Scherl & Roth, Inc. 402,882; Aug. 17.

CLASS 37

Paper, Crape. Papyrus Company. 177,499; renewed Dec. 18, 1943.
Paper, manila paper, envelopes, etc., Wrapping. J. W. Butler Paper Co. 176,406; renewed Nov. 27, 1943.
Parchment, Semi-grease-proof. Huff, Barnes & Opie, Inc. 402,820–1; Aug. 17; Serial Nos. 454,891–2; published June 8, 1943.
Pencils, Lead. Blaisdell Pencil Company. 171,004; renewed July 31, 1943.
Pencils, Lead. Blaisdell Pencil Company. 172,299; renewed Aug. 28, 1943.

CLASS 38

Books, Printed. A. A. Knopf. 177,307; renewed Dec. 18, 1943.
Cards, sheets, and folders, Greeting. O. C. Goodbar. 177,414; renewed Dec. 18, 1943.
Newspaper, Daily. Victoria Murdock Estate. 177,314; renewed Dec. 18, 1943.
Periodical, Monthly. Aetna Life Insurance Company. 174,870; renewed Oct. 23, 1943.
Periodical, Monthly. Aetna Life Insurance Company. 175,145; renewed Oct. 30, 1943.
Periodicals. Olympic Club. 177,338; renewed Dec. 18, 1943.
Publication, Monthly. Charles Scribner's Sons. 173,713; renewed Oct. 2, 1943.

CLASS 39

Clothing. Hercules Knitting Co. 177,410; renewed Dec. 18, 1943.
Garments for men and women, One-piece outer. Wirk Garment Corporation. 402,881; Aug. 17.
Gloves and mittens. Western Hosiery Company. 175,810; renewed Nov. 13, 1943.

Hosiery. Berendsen Silk Knitting Co. 175,796; renewed Nov. 13, 1943.
Hosiery. United Hosiery Mills Corporation. 177,563; renewed Dec. 18, 1943.
Hosiery. Dormer Brothers Company. 177,574; renewed Dec. 18, 1943.
Hosiery. Interwoven Stocking Company. 402,887; Aug. 17.
Slips, Women's dress. Randolph Underwear Co. Incorporated. 402,832; Aug. 17; Serial No. 457,010; published Feb. 23, 1943.
Underwear, Ladies' and children's. Blue Swan Mills, Inc. 402,822; Aug. 17; Serial No. 455,363; published Nov. 17, 1942.
Waists and hosiery. House of Byer. 171,325; renewed Aug. 7, 1943.

CLASS 40

Cotton edging, Woven. Marshall Field & Company. 169,880; renewed July 3, 1943.

CLASS 42

Decorative articles made of linen such as bridge, luncheon, and dinner sets, etc. Central Madeira Corporation. 402,824; Aug. 17; Serial No. 456,364; published June 1, 1943.
Fabrics. Riverside & Dan River Cotton Mills, Inc. 402,819; Aug. 17; Serial No. 454,311; published Oct. 13, 1942.
Fabrics, Dyed, printed, and finished textile. United Piece Dye Works. 177,466; renewed Dec. 18, 1943.
Fabrics in the piece. Bulkley, Weinberg & Tormey, Incorporated. 402,857; Aug. 17; Serial No. 459,255; published May 18, 1943.
Fabrics, Textile. International Worsted Mills. 177,482; renewed Dec. 18, 1943.
Piece goods. Stern & Stern Textile Importers Inc. 402,825; Aug. 17; Serial No. 456,477; published May 11, 1943.
Piece goods. Wawak Company Inc. 402,879; Aug. 17.
Piece goods, Cotton. Southern Friction Materials Company. 402,837; Aug. 17; Serial No. 457,618; published June 1, 1943.
Piece Goods, Cotton. Riverside & Dan River Cotton Mills, Inc. 402,878; Aug. 17.
Piece goods, linen piece goods, and toweling, Cotton. Carl Company. 177,366; renewed Dec. 18, 1943.
Piece goods, Woolen, worsted. Bell Company. 177,324; renewed Dec. 18, 1943.
Sheets and pillowcases. Pacific Mills. 402,863; Aug. 17; Serial No. 459,375; published May 25, 1943.
Shirting of twill cloth. Reeves Brothers, Inc. 402,816; Aug. 17; Serial No. 449,918; published May 26, 1942.
Towels, Industrial wiping. Callaway Mills. 402,867; Aug. 17; Serial No. 459,460; published June 8, 1943.

CLASS 43

Thread, Cotton. Smith & Dove Manufacturing Co. 173,308; renewed Sept. 18, 1943.
Yarns, threads, and yarn and thread filaments. American Viscose Corporation. 402,865; Aug. 17; Serial No. 459,391; published June 8, 1943.

CLASS 45

Drink, Soft. M. B. McCarthy. 177,127; renewed Dec. 11, 1943.
Drinks and sirups, Soft. Chicago Beverage Co. 177,575; renewed Dec. 18, 1943.
Mineral water, ginger ale, phosphate, etc., Natural and artificial. White Rock Mineral Spring Company. 23,873; re-renewed Nov. 28, 1943.

CLASS 46

Bread. Ward Baking Company. 177,502; renewed Dec. 18, 1943.
Candy. Gutman Bros. 402,814; Aug. 17; Serial No. 447,184; published Jan. 12, 1943.
Canned fish. N. P. Economou. 402,884; Aug. 17.
Cheese. A. H. Barber & Co. 177,383–4; renewed Dec. 18, 1943.
Cheese. Carl Marty & Company. 177,381; renewed Dec. 18, 1943.
Coffee. G. Washington Coffee Refining Company. 402,864; Aug. 17; Serial No. 459,385; published June 8, 1943.
Eggs. M. E. Fowler. 176,862; renewed Dec. 4, 1943.
Extract for foods, Flavoring. Florasynth Laboratories. 177,204; renewed Dec. 11, 1943.
Extracts and coloring material for food purposes, spices, etc., Flavoring. A. G. Fenton. 177,577; renewed Dec. 18, 1943.
Flour, Wheat. Bay State Milling Co. 176,489; renewed Nov. 27, 1943.
Flour, Wheat. Highland Milling Company. 177,572; renewed Dec. 18, 1943.
Food products. Northern Jobbing Company. 177,098; renewed Dec. 11, 1943.
Fresh tomatoes. F. E. Majonnier. 168,105; renewed May 15, 1943.
Fruits, Fresh citrous. Mupu Citrus Association. 177,440; renewed Dec. 18, 1943.
Fruits, Fresh citrous. Mupu Citrus Association. 177,444; renewed Dec. 18, 1943.
Fruits, Fresh citrus. Exeter Orchards Ass'n. Inc. 402,870; Aug. 17; Serial No. 459,594; published June 8, 1943.
Jellies, Fruit. Bedford Products. 402,890; Aug. 17.
Lard. F. G. Vogt & Sons, Inc. 175,791; renewed Nov. 13, 1943.
Milk of soya. Chapman & Smith Company. 402,850; Aug. 17; Serial No. 458,803; published June 8, 1943.
Milk of soya. Chapman & Smith Company. 402,851; Aug. 17; Serial No. 458,908; published June 8, 1943.
Mix, Breading. Modern Maid Food Products. 402,877; Aug. 17.
Oranges, lemons, and grapefruit. Gold Buckle Association. 177,083–5; renewed Dec. 11, 1943.
Oranges, lemons, and graperfuit. Gold Buckle Association. 177,086; renewed Dec. 11, 1943.
Oranges, lemons and grapefruit. Gold Buckle Association. 177,558; renewed Dec. 18, 1943.
Potatoes in their natural state. Maine Potato Growers, Inc. 402,848; Aug. 17; Serial No. 458,735; published June 8, 1943.
Preparation made of roasted cereals. A. A. Roderick. 402,831; Aug. 17; Serial No. 456,947; published June 8, 1943.
Raisins and candy. California Associated Raisin Co. 175,312; renewed Nov. 6, 1943.
Sauce, Soya bean. G. Y. Tadano. 402,861; Aug. 17; Serial No. 459,319; published June 8, 1943.
Shrimp, Dried. Blum & Bergeron. 177,170; renewed Dec. 11, 1943.
Shrimp, Dried. Blum & Bergeron. 177,341; renewed Dec. 18, 1943.
Sirup. Corn Products Refining Company. 177,330–1; renewed Dec. 18, 1943.
Tonic and food for feathered pets. W. Hoffmann. 170,898; renewed July 24, 1943.

CLASS 48

Enzymes. Vita-Zyme Laboratories, Inc. 402,830; Aug. 17; Serial No. 456,836; published June 8, 1943.

CLASS 50

Package consisting of V-mail stationery, writing fluid, and pens. W. A. Scheaffer Pen Company. 402,854; Aug. 17; Serial No. 459,089; published June 8, 1943.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 17TH DAY OF AUGUST, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Gebhard, Louis A., and R. B. Meyer, Washington, D. C. Antenna system. Re. 22,365; Aug. 17.
Lowry, Jesse R., Des Moines, Iowa. Valve for milking machines. Re. 22,366; Aug. 17.
Meyer, Raymond B. (See Gebhard, L. A., and Meyer.)
Wiggins, John H., Chicago, Ill. Gauging apparatus for liquid containers. Re. 22,367; Aug. 17.

LIST OF DESIGN PATENTEES

Adams, Gilford D., Butterfield, Mo. Shaker for salt and pepper. 136,174; Aug. 17.
Allen, Frank B., Lower Merion Township, Montgomery County, Pa. Button or similar article. 136,175; Aug. 17.
Black, Oswald R. (See Taube, W. G., and Black.)
Botham, Arthur R., New York, N. Y., assignor to Coty, Inc. Combined perfume bottle and stand therefor. 136,184; Aug. 17.
Burkhard, William L., assignor to The Gates Rubber Company, Denver, Colo. Display rack for belts or the like. 136,158; Aug. 17.
Byrnes, Charles A., Chicago, Ill. Defense stamp vending device or similar article. 136,194; Aug. 17.
Cameron, William P., Washington, D. C., assignor to Edmilton Corporation, Milwaukee, Wis. Picture frame. 136,176; Aug. 17.
Cashin, Bonnie, New York, N. Y. Dress. 136,191; Aug. 17.
Cashin, Bonnie, New York, N. Y. Dress. 136,192; Aug. 17.
Cashin, Bonnie, New York, N. Y. Dress. 136,195; Aug. 17.
Cashin, Bonnie, New York, N. Y. Dress. 136,196; Aug. 17.
Cashin, Bonnie, New York, N. Y. Dress. 136,197; Aug. 17.
Coty, Inc. (See Botham, Arthur R., assignor.)
Crane, Durries. Chicago, Ill. Baking pan. 136,177; Aug. 17.
Ditto, Hugo M., Newton, assignor to Marine Optical Mfg. Co., Boston, Mass. Spectacle frame or the like. 136,178; Aug. 17.
Duncan, Thomas P., Jr., Newport News, Va. Golf club head. 136,159; Aug. 17.
Edmilton Corporation. (See Cameron, William P., assignor.)
Fletcher, Charles B., and P. J. Nordby, assignors to Marietta Chair Company, Marietta, Ohio. Swivel chair. 136,160; Aug. 17.
Gates Rubber Company, The. (See Burkhard, William L., assignor.)
Graham, George M., Detroit, assignor to Hinckley-Myers Division of Kent-Moore Organization Inc., Jackson, Mich. Driving tool. 136,179; Aug. 17.
Hinckley-Myers Division of Kent-Moore Organization Inc. (See Graham, George M., assignor.)
Ilieff, Ilion, Detroit, Mich. Combined shade and curtain bracket. 136,161; Aug. 17.
Kane, Martine, New York, N. Y. Combined shoe insole and cover. 136,180; Aug. 17.
Keith, Marian W., Washington, D. C. Bathing garment or the like. 136,185; Aug. 17.
Lee, Bert, Hollywood, Calif. Fan propeller. 136,162; Aug. 17.
Levine, Martin, Chicago, Ill. Combined ash receiver and cigarette holder. 136,186; Aug. 17.
Marek, Bessie E., Berwyn, Ill. Doll. 136,163; Aug. 17.
Maretta Chair Company. (See Fletcher, C. B., and Nordby, assignors.)
Marine Optical Mfg. Co. (See Ditton, Hugo M., assignor.)
Massie, Lewis E., Culver City, Calif. Relay. 136,187; Aug. 17.
Meyer, Henry J., Briarcliff Manor, N. Y. Rocking horse. 136,181; Aug. 17.
Nordby, Peter J. (See Fletcher, C. B., and Nordby.)
Oliver, Lon J., Chillicothe, Ohio. Bread knife or similar article. 136,182; Aug. 17.
Payne, William R., Chesapeake, W. Va. Combined wrench and pliers. 136,188; Aug. 17.
Pillsbury, Eleanor B., trustee. (See Taube, W. G., and Black, assignors.)
Radebaugh, Arthur C., Arlington, Va. Bandanna. 136,164; Aug. 17.
Reach, Walter R., Camden, N. J. Child's collapsible rocker. 136,165; Aug. 17.
Reams, Louis M., Richmond, Va. Container carrier. 136,189; Aug. 17.
Resnick, Julius, New York, N. Y. Handbag. 136,166; Aug. 17.
Rubin, Joseph, New York, N. Y. Doll or similar article. 136,167; Aug. 17.
Smith, Julia, New York, N. Y. Dress. 136,193; Aug. 17.
Smith, Julia, New York, N. Y. Dress. 136,198; Aug. 17.
Smith, Julia, New York, N. Y. Dress. 136,199; Aug. 17.
Taube, Walter G., Minneapolis, and O. R. Black, St. Louis Park, assignors to E. B. Pillsbury, Wayzata, Minn., trustee. Fanciful figure or similar article. 136,183; Aug. 17.
Tobler, Hans, Teaneck Township, Bergen County, N. J. Embroidered trimming or the like. 136,168; Aug. 17.
Tobler, Hans, Teaneck Township, Bergen County, N. J. Embroidered trimming or the like. 136,169; Aug. 17.
Tobler, Hans, Teaneck Township, Bergen County, N. J. Embroidered trimming or the like. 136,170; Aug. 17.
Tobler, Hans, Teaneck Township, Bergen County, N. J. Embroidered trimming or the like. 136,171; Aug. 17.
Urell, Tom M., Tioga, Pa. Electrical connector plug. 136,190; Aug. 17.
Vogel, William M., Montclair, N. J. Spray gun. 136,172; Aug. 17.
Von Rohl, Paul, St. Paul, Minn. Map. 136,173; Aug. 17.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 17TH DAY OF AUGUST, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Aaberg, Harris A., Benson, Minn., and J. W. Heward, Three Oaks, Mich. Extracting device. 2,326,741; Aug. 17.
Abbotts Dairies, Inc. (See Speirs, Richard J., assignor.)
Abraham, Leonard G., Madison, P. G. Edwards, Verona, and R. D. Fracassi, Chatham, N. J., assignors to Bell Telephone Laboratories, Inc., New York, N. Y. Electric wave system. 2,326,742; Aug. 17.
Ace Carton Corporation. (See Scott, Edward C., assignor.)
Adams, Paul L., assignor to Carr, Adams & Collier Company, Dubuque, Iowa. Window. 2,326,743; Aug. 17.
Adams, Ross C. (See Hurrey, R. C., and Adams.)
Adelson, David E., Berkeley, and H. Dannenberg, assignors to Shell Development Company, San Francisco, Calif. Polymerizing unsaturated resinophoric compounds by action of ultraviolet light in conjunction with beta substituted naphthalene derivatives. 2,326,736; Aug. 17.
Adkison, James H. (See Lyons, O. W., and Adkison.)
Advance Solvents and Chemicals Corporation. (See Mack, Gerry, assignor.)
Aetna Standard Engineering Company, The, et al. (See Rodder, W., and Hopkins, assignors.)
Ahearn, Richard L. (See Donelson, W. W., and Ahearn.)
Ahnström, Erik G., Staket, Sweden. Darning machine. 2,326,744; Aug. 17.
Aikman, Burton S., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid pressure control mechanism. 2,326,911; Aug. 17.
Aktiengesellschaft Brown, Boveri & Cie. (See Jonas, Julius, assignor.)
Alien Property Custodian. (See Allstädt, Erich.)
Alien Property Custodian. (See Barenyi, B., and Wilfert.)
Alien Property Custodian. (See Becker, Albert, assignor.)
Alien Property Custodian. (See Bergmann, Armin, assignor.)
Alien Property Custodian. (See Bieler, Hermann.)
Alien Property Custodian. (See Bortini, Franco.)
Alien Property Custodian. (See Boucke, Heinz.)
Alien Property Custodian. (See Conrad, Victor.)
Alien Property Custodian. (See Endres, Gunther.)
Alien Property Custodian. (See Fiedler, H., Heimig, and Liesegang.)
Alien Property Custodian. (See Heitner, Joseph.)
Alien Property Custodian. (See Holsten, Kurl-Georg.)
Alien Property Custodian. (See Huber, Fritz.)
Alien Property Custodian. (See Köber, F., Sauer, and Vierling.)
Alien Property Custodian. (See Komenda, Erwin.)
Alien Property Custodian. (See Marais, René, assignor.)
Alien Property Custodian. (See Nebel, Max, assignor.)
Alien Property Custodian. (See Pier, M., and Free, assignors.)
Alien Property Custodian. (See Pier, M., Fuener, and Free.)
Alien Property Custodian. (See Poelman, Armand J. J.)
Alien Property Custodian. (See Räntsch, Kurt.)
Alien Property Custodian. (See Roelen, Otto.)
Alien Property Custodian. (See Ruiz, Rafael G.)
Alien Property Custodian. (See Schmidt, Fritz.)
Alien Property Custodian. (See Stahlecker, Wilhelm.)
Alien Property Custodian. (See Steiner, Otto.)
Alien Property Custodian. (See Thinius, K.)
Aluminum Company of America. (See Hall, George W., assignor.)
Allen, Horace D., Columbia, S. C., assignor to United States Gypsum Company, Chicago, Ill. Taping tool. 2,327,150; Aug. 17.
Allen, Roy O., Athens, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Fluid actuated tool. 2,326,735; Aug. 17.
Allied Chemical & Dye Corporation. (See Flett, L. H., assignor.)
Allison, Wilson M., Knocksbegowna, Swinburne, Orange Free State, Union of South Africa. Compression ratio control. 2,326,912; Aug. 17.
Allstädt, Erich, Frankfurt-on-the-Main, Germany; vested in the Alien Property Custodian. Internal combustion engine. 2,326,913; Aug. 17.
Amann, Philip F. (See Kane, J. H., Finlay, and Amann.)
American Armament Corporation. (See Joyce, Bryan P., assignor.)
American Can Company. (See Eidson, Robert W., assignor.)
American Can Company. (See Nordquist, Ronald E. J., assignor.)
American Can Company. (See Shmurak, Benjamin, assignor.)
American Can Company. (See Wobbe, Delbert E., assignor.)
American Dairy Cattle Club. (See Hill, L. O., and Short, assignors.)
American Floor Surfacing Machine Company, The. (See Vavrik, L., and Atkin, assignors.)
American Optical Company. (See Neumueller, Julius F., assignor.)
American Steel and Wire Company, The. (See De Lamatter, William W., assignor.)
American Steel Foundries. (See Cottrell, Robert B., assignor.)
American Steel Foundries. (See Tack, Carl E., assignor.)
American Stove Company. (See Kosky, J. G., Brodbeck, and Kahler, assignors.)
American Stove Company. (See Lotter, William, assignor.)
American Turbotor Corporation. (See Bejeuhr, Walter, assignor.)
Andersen, Leif, assignor to The Pullman Company, Chicago, Ill. Basin unit. 2,326,914; Aug. 17.
Anderson, Arthur A., Rose Township, Ramsey County, assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Automatic adhesive tape dispenser. 2,326,915; Aug. 17.
Anderson, Arthur A., Rose Township, Ramsey County, assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Automatic adhesive tape dispenser. 2,326,916; Aug. 17.
Anderson, Arthur A., Rose Township, Ramsey County, assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Adhesive tape dispenser. 2,326,917; Aug. 17.
Anderson, Halvor E. (See Jones, Lawrence M.)
Anderson, Peter A., Portland, Maine. Gas installation equipment. 2,327,235; Aug. 17.
Andrews, Anthony, Melrose Park, Ill. Lawn mower attachment. 2,326,739; Aug. 17.
Andrews, Edward F., Chicago, Ill. Radio receiver. 2,326,737; Aug. 17.
Andrews, Edward F., Chicago, Ill. Radio receiver. 2,326,738; Aug. 17.
Anemostat Corporation of America. (See Honerkamp, F., and Kurth, assignors.)
Antal, Vincent, Owatonna, Minn. Flexible adjustable lever drag harrow. 2,327,236; Aug. 17.
Aro Equipment Corporation, The. (See Satterlee, Howard A., assignor.)
Artzt, Maurice, Haddonfield, N. J., assignor to Radio Corporation of America. Broadcast facsimile transmission. 2,326,740; Aug. 17.
Atkin, Kenneth C. (See Vavrik, L., and Atkin.)
Atkinson, William B. (See Brown, A. L., and Atkinson.)
Atlantic Register Company. (See Potter, Charles W., assignor.)
Austin, Paul R., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Manufacture of staple fibers. 2,327,087; Aug. 17.
Automatic Button Company. (See Umlandt, William H., assignor.)
Ayers, Alan N., Devon, Conn., assignor to General Electric Company. Control device. 2,327,159; Aug. 17.
Babcock, Lloyd L., Compton, and J. O. Bishop, Torrance, Calif. Barrel lifting means. 2,327,005; Aug. 17.
Bacon, Osborne C., Pennsgrove, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Treatment of textile fiber. 2,327,160; Aug. 17.
Baden, Carl A., Glenbrook, assignor to Norma-Hoffman Bearings Corporation, Stamford, Conn. Making retainers for antifriction bearings. 2,327,237; Aug. 17.
Badenhausen, John P., Philadelphia, Pa. Marine boiler. 2,327,161; Aug. 17.
Baggott, Edmund W., Brooklyn, assignor of one-third to C. Scotson, and one-third to H. B. Kaempf, New York, N. Y. Hydraulic transmission. 2,327,238; Aug. 17.
Bakewell, Harding F., San Marino, Calif. Fluid supply regulator. 2,327,006; Aug. 17.
Baldwin, Alfred W., and M. A. T. Rogers, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited. New water-repellent agent and making same. 2,327,162; Aug. 17.
Balk, David, assignor to Superba Manufacturing Co., Inc., New York, N. Y. Bias cutting machine. 2,326,745; Aug. 17.
Balk, David, and J. Katz, Bronx, and F. P. Majoros, Brooklyn, assignors to Superba Manufacturing Co., Inc., New York, N. Y. Bias cutting machinery. 2,326,746; Aug. 17.
Balzano, Oreste, assignor to The Greist Manufacturing Company, New Haven, Conn. Presser foot. 2,326,818; Aug. 17.

Barényi, Béla, Vaihingen-Rohr a. d. F., and K. Wilfert, Sindelfingen, Germany; vested in the Alien Property Custodian. Vehicle running gear. 2,326,918; Aug. 17.
Barnes, Byron H., San Marino, and B. S. Minor, Whittier, assignors to B. H. Barnes and Harriet C. Barnes, both of San Marino, Calif. Apparatus for installing protectors on drill pipe. 2,327,088; Aug. 17.
Barnes, Harriet C., et al. (See Barnes, B. H., and Minor, assignors.)
Barrett, Edward L., La Grange, Ill. Radio antenna. 2,327,163; Aug. 17.
Barrows, Donald S., and A. H. Lake, assignors to The Symington-Gould Corporation, Rochester, N. Y. Draft rigging. 2,327,240; Aug. 17.
Bartlett, Herbert R., Barron, Wis. Jig saw. 2,327,239; Aug. 17.
Bausch & Lomb Optical Company. (See Fair, Drury H., assignor.)
Beasley, John R., et al. (See Bynum, Pink T., assignor.)
Becker, Albert, Villingen, Schwarzwald, Germany; vested in the Alien Property Custodian. Collecting folder for filing diaphragm disks. 2,326,919; Aug. 17.
Bedingfield, Sterling P. (See Kinney, Howard D., assignor.)
Bejeuhr, Walter, Bronx, assignor to American Turbotor Corporation, New York, N. Y. Rotary device for positive fluid action. 2,327,089; Aug. 17.
Bell Aircraft Corporation. (See Woodson, Omer L., assignor.)
Bell Telephone Laboratories, Incorporated. (See Abraham, L. G., Edwards, and Fracassi, assignors.)
Bell Telephone Laboratories, Incorporated. (See Bullington, Robert K., assignor.)
Bell Telephone Laboratories, Incorporated. (See Cory, Samuel I., assignor.)
Bell Telephone Laboratories, Incorporated. (See Edwards, Paul G., assignor.)
Bell Telephone Laboratories, Incorporated. (See Lewis, Benjamin F., assignor.)
Bell Telephone Laboratories, Incorporated. (See Lovell, Clarence A., assignor.)
Bell Telephone Laboratories, Incorporated. (See Lovell, C. A., Mallina, and Parkinson, assignors.)
Bell Telephone Laboratories, Incorporated. (See Mallinckrodt, Charles O., assignor.)
Bell Telephone Laboratories, Incorporated. (See Martins, Arthur S., assignor.)
Bell Telephone Laboratories, Incorporated. (See Mueller, George E., assignor.)
Bellac, Felix J., New York, N. Y. Lacquer. 2,326,992; Aug. 17.
Benner, Miles C. (See Lochhead, John L.)
Bent, Franklin A., Berkeley, and F. G. Byrne, Oakland, assignors to Shell Development Company, San Francisco, Calif. Plasticized resins and preparation thereof. 2,327,007; Aug. 17.
Beretish, William H., assignor to Stewart-Warner Corporation, Chicago, Ill. Hydraulic motor head lift. 2,327,008; Aug. 17.
Berg, Martin, Brooklyn, N. Y. Pocket tool. 2,327,090; Aug. 17.
Berger, George G. New York, N. Y. Apparatus for molding granular cork material and other material into annular rings, collars, and other hollow shapes. 2,327,241; Aug. 17.
Bergmann, Armin, Pinneberg, Germany; vested in the Alien Property Custodian. Apparatus for the manufacture of artificial sausage skins. 2,326,920; Aug. 17.
Berlin, Donovan R., Eggertsville, N. Y., assignor to Curtiss-Wright Corporation. Airplane. 2,326,819; Aug. 17.
Besserdich, William A., Clintonville, Wis. Valve gear. 2,326,747; Aug. 17.
Bicknell, J. Stuart, et al. (See Hubacker, Earl F., assignor.)
Bicknell, Mark H., et al. (See Hubacker, Earl F., assignor.)
Bieler, Hermann, Kothen, Anhalt, Germany; vested in the Alien Property Custodian. Cutter guiding means. 2,326,922; Aug. 17.
Billing, Wyly M., assignor to Hercules Powder Company, Wilmington, Del. Producing rosin esters. 2,327,009; Aug. 17.
Bishop, James O. (See Babcock, L. L., and Bishop.)
Bjork, Carl O., Wilmington, Calif. Drinking attachment for beverage cans. 2,327,010; Aug. 17.
Blackhawk Mfg. Co. (See Diercksmeier, R. L., and Pfauser, assignors.)
Blaw-Knox Company. (See Fanning, Fred H., assignor.)
Bliss, Elmer J., Chilmark, Mass. Shoe fitting device. 2,326,820; Aug. 17.
Blount, Harry, Baltimore, and C. V. Lundeen, Towson, Md., assignors to Western Electric Company, Incorporated, New York, N. Y. Metal forming apparatus. 2,327,091; Aug. 17.
Bokovoy, Samuel A., Audubon, N. J., assignor to Radio Corporation of America. Mounting piezoelectric crystals. 2,326,923; Aug. 17.
Bolcom, Clarence A., Ionia, Mich. Air conditioner. 2,327,242; Aug. 17.
Boller, Henry A., Walled Lake, Mich., assignor to Carter Carburetor Corporation, St. Louis, Mo. Acceleration pump. 2,327,300; Aug. 17.
Boiser, Clark M., Cedar Falls, Iowa. Oil filter. 2,327,011; Aug. 17.
Bone, Herbert L., Forest Hills, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway braking apparatus. 2,326,924; Aug. 17.
Book, Charles R., assignor to Eyelet Specialty Company, Waterbury, Conn. Socket. 2,327,164; Aug. 17.
Booth, Jennie I. (See Booth, John H., and J. I.)
Booth, John H., and J. I., Lapley, England. Lock mechanism. 2,327,243; Aug. 17.
Borglin, Joseph N., assignor to Hercules Powder Company, Wilmington, Del. Polymerizing rosin and rosin esters. 2,327,165; Aug. 17.
Bortini, Franco, Pavia, Italy; vested in the Alien Property Custodian. System and device for measuring the quantity of air sent out in one or more breaths. 2,326,925; Aug. 17.
Bose, John R. (See Jacobus, D. D., and Bose.)
Botkin, John W., Nocona, Tex., assignor to Halliburton Oil Well Cementing Company, Duncan, Okla. Apparatus for cementing wells. 2,327,092; Aug. 17.
Boucke, Heinz, Berlin, Germany; vested in the Alien Property Custodian. Automatic control of tuning and band width. 2,327,244; Aug. 17.
Bousquet, L'Roche G., Baldwin, and M. J. Brooks, assignors to General Chemical Company, New York, N. Y. Production of titanium sulphate. 2,327,166; Aug. 17.
Bowlus, Fred D. (See Pomeroy, Richard, assignor.)
Boyle, William R., Finham, assignor of one-third to The Glacier Metal Company Limited, Alperton, Middlesex, and one-third to The Rover Company Limited, Chesford Grange, near Kenilworth, Warwickshire, England. Hydraulic power transmission system. 2,326,821; Aug. 17.
Bratek, Frank B., and A. S. Hartanov, assignors to Industrial Patents Corporation, Chicago, Ill. Carcass saw. 2,327,167; Aug. 17.
Brend, William R., assignor to Lock Joint Pipe Company, East Orange, N. J. Pipe lining apparatus. 2,326,822; Aug. 17.
Brend, William R., assignor to Lock Joint Pipe Company, East Orange, N. J. Pipe lining apparatus. 2,326,823; Aug. 17.
Breuner, Wallace E. (See Robinson, Bestor.)
Bridge, Edward W., Philadelphia, Pa. Mass balling machine and belt. 2,327,245; Aug. 17.
Briggs, Howland F., assignor to Consolidated Packaging Machinery Corporation, Buffalo, N. Y. Compensator for automatic scales. 2,327,093; Aug. 17.
Briggs, Thomas H. and W. H., assignors to Burman & Sons Limited, Birmingham, England. Screw thread mechanism. 2,327,013; Aug. 17.
Briggs, Walter H. (See Briggs, Thomas H. and W. H.)
Bright, John G., Artarmon, near Sydney, New South Wales, Australia. Apparatus for cleaning ships' bottoms. 2,327,012; Aug. 17.
Brinck Engineering Company. (See McComb, Lloyd A., assignor.)
British Oxygen Company, Limited, The. (See Schuftan, Paul M., assignor.)
Brodbeck, Almer H. (See Kosky, J. G., Brodbeck, and Kahler.)
Brooks, Maxwell J. (See Bousquet, L'R. G., and Brooks.)
Brown and Sharpe Manufacturing Company. (See Hirsch, George B., assignor.)
Brown, Arthur L., Forest Hills, and W. B. Atkinson, Pittsburgh, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Polymerized insulating compound. 2,326,748; Aug. 17.
Brown, Arthur L., Forest Hills, and W. B. Atkinson, Pittsburgh, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Polymerized insulating compound. 2,326,749; Aug. 17.
Brown Instrument Company, The. (See Harrison, Thomas R., assignor.)
Browne, Kenneth A., Fairlawn, and F. P. Sollinger, Paterson, N. J., assignors to Wright Aeronautical Corporation. Oil seal. 2,326,824; Aug. 17.
Browning, Raymond E., Verdun, assignor to F. A. Peacock, Montreal, Quebec, Canada. Crusher. 2,326,750; Aug. 17.
Bruce, S. S., et al., trustee. (See Morgan, Thomas H., assignor.)
Buckendale, Lawrence R., assignor to The Timken-Detroit Axle Company, Detroit, Mich. Multispeed drive axle. 2,326,751; Aug. 17.
Buckendale, Lawrence R., assignor to The Timken-Detroit Axle Company, Detroit, Mich. Multispeed drive axle. 2,326,752; Aug. 17.
Buckendale, Lawrence R., assignor to The Timken-Detroit Axle Company, Detroit, Mich. Multispeed drive axle. 2,326,753; Aug. 17.
Buckendale, Lawrence R., assignor to The Timken-Detroit Axle Company, Detroit, Mich. Multispeed drive axle. 2,326,754; Aug. 17.
Buckendale, Lawrence R., assignor to The Timken-Detroit Axle Company, Detroit, Mich. Multispeed drive axle. 2,326,755; Aug. 17.
Bucknam, Worthy C., Mechanic Falls, Maine, assignor to Union Carbide and Carbon Corporation. Altitude-controlled regulator. 2,326,825; Aug. 17.
Bucknell, Anita R. (See Bucknell, William H., assignor.)
Bucknell, Anita R. (See Bucknell, W. H. and A. R.)

Bucknell, William H., assignor of one-half to A. R. Bucknell, Norwalk, Conn. Concealment device. 2,327,168; Aug. 17.

Bucknell, William H., assignor of one-half to A. R. Bucknell, Norwalk, Conn. Concealment device. 2,327,169; Aug. 17.

Buckwalter, Tracy V., assignor to The Timken Roller Bearing Company, Canton, Ohio. Truck. 2,326,993; Aug. 17.

Budd Wheel Company. (See Eksergian, Carolus L., assignor.)

Buller, John P., Ringwood, Okla. Temperature control switch. 2,327,014; Aug. 17.

Bullington, Robert K., Forest Hills, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Transmission system regulation. 2,326,826; Aug. 17.

Bunjes, Edwin G., Los Angeles, Calif. Window. 2,327,246; Aug. 17.

Bureau, Arthur A., Chicago, and Stanley Price, La Grange, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Fiberboard carrying tray. 2,326,926; Aug. 17.

Burgess-Norton Mfg. Co. (See Dohrenwend, Clayton O., assignor.)

Burman & Sons Limited. (See Briggs, Thomas H. and W. H., assignors.)

Bush, A. G. (See Criner, Harry J., assignor.)

Butenandt, Adolf, Berlin-Dahlem, H. H. Inhoffen, Berlin-Wilmersdorf, and H. Dannenbaum, Falkenhain-Finkenkrug, near Berlin, Germany, assignors to Schering Corporation, Bloomfield, N. J. Ketones of the cyclopentano-polyhydrophenanthrene series and producing the same. 2,326,756; Aug. 17.

Byers Machine Company. (See Ferguson, Berlin S., assignor.)

Bynum, Pink T., assignor of three-sixteenths to J. R. Beasley, and one-eighth to I. B. O'Neil, Beeville, Tex. Coring apparatus. 2,326,827; Aug. 17.

Byrne, Francis G. (See Bent, F. A., and Byrne.)

Calico Printers' Association Limited. (See Lantz, L. A., and Roman, assignors.)

Calvert, William C., Gary, Ind., assignor to Wingfoot Corporation, Wilmington, Del. Making rubber hydrochloride sheets and wrapping articles therein. 2,327,170; Aug. 17.

Camp, William M., Glen Ridge, assignor to The Clark Thread Company, Newark, N. J. Plastic traveler. 2,326,828; Aug. 17.

Camp, William M., Glen Ridge, assignor to The Clark Thread Company, Newark, N. J. Plastic traveler. 2,326,829; Aug. 17.

Camp, William M., Glen Ridge, assignor to The Clark Thread Company, Newark, N. J. Plastic traveler. 2,326,830; Aug. 17.

Camp, William M., Glen Ridge, assignor to The Clark Thread Company, Newark, N. J. Plastic traveler. 2,326,831; Aug. 17.

Camp, William M., Glen Ridge, assignor to The Clark Thread Company, Newark, N. J. Plastic traveler. 2,326,832; Aug. 17.

Camp, William M., Glen Ridge, assignor to The Clark Thread Company, Newark, N. J. Plastic traveler. 2,326,833; Aug. 17.

Camp, William M., Glen Ridge, assignor to The Clark Thread Company, Newark, N. J. Plastic traveler. 2,326,834; Aug. 17.

Carborundum Company. (See Roble, Norman P., assignor.)

Carlson, Bert G., Erieside, assignor to Jack & Heintz, Inc., Bedford, Ohio. Aircraft control device. 2,327,171; Aug. 17.

Carlson, George W., assignor to Robert H. McClintic, Pittsburgh, Pa. Pneumatic actuating mechanism for electrically operated typewriters. 2,327,172; Aug. 17.

Carlson, Harry, Darrington, Wash. Apparatus for loading logs. 2,327,015; Aug. 17.

Carnegie-Illinois Steel Corporation. (See Gude, Harry E., assignor.)

Carney, Samuel C., Bartlesville, Okla., assignor to Phillips Petroleum Company. Pelleting carbon black. 2,327,016; Aug. 17.

Carr, Adams & Collier Company. (See Adams, Paul L., assignor.)

Carr, Donald E., Los Angeles, and H. W. Ritchey, Long Beach, assignors to Union Oil Company of California, Los Angeles, Calif. Producing asphalt. 2,327,247; Aug. 17.

Carson, Richard M., and R. R. Saeks, assignors to Carson-Saeks, Inc., Dayton, Ohio. Parting material. 2,327,173; Aug. 17.

Carson-Saeks, Inc. (See Carson, R. M., and Saeks, assignors.)

Carter Carburetor Corporation. (See Boller, Henry A., assignor.)

Carter, Leslie F., Leonia, N. J., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Artificial horizon. 2,326,835; Aug. 17.

Case, Nelson P., Great Neck, N. Y., assignor to Hazeltine Corporation. Wave-signal translating channel. 2,327,248; Aug. 17.

Casiple, Joe, Providence, R. I. Propeller sailboat machine. 2,326,757; Aug. 17.

Cass, Oliver W., Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of halogenated olefines. 2,327,174; Aug. 17.

Catucci, Pliny, Kearny, N. J. Phonograph needle and record protector. 2,327,094; Aug. 17.

Celanese Corporation of America. (See Dreyfus, Henry, assignor.)

Chamberlain, Leonard C., assignor to The Dow Chemical Company, Midland, Mich. Treatment of wells producing mineral fluid. 2,327,017; Aug. 17.

Chaplin, Charles J. (See Chaplin, Merle P. and C. J.)

Chaplin Corporation. (See Chaplin, Merle P. and C. J., assignors.)

Chaplin, Merle P. and C. J., assignors to Chaplin Corporation, Portland, Maine. Method of and apparatus for producing pulp articles. 2,326,758; Aug. 17.

Chemical Development, Inc. (See Fowler, G. B., and Pattilloch, assignors.)

Chicago Flexible Shaft Company. (See Delmonte, Jack, assignor.)

Childhood Interests, Inc. (See Eisel, Vernon G., assignor.)

Chruma, Stephen, Kansas City, Kans. Sandblast carving. 2,327,019; Aug. 17.

Churchill, Wilmer H., Saugus, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Fastening device for group wiring and the like. 2,327,326; Aug. 17.

Cincinnati Grinders Incorporated. (See Dall, A. H., Ernst, and Einstein, assignors.)

Cincinnati Milling Machine Co. (See Hassman, Fred A., assignor.)

Clare, Carl P., Arlington Heights, assignor to C. P. Clare and Company, Chicago, Ill. Electric snap switch. 2,326,760; Aug. 17.

Clare, C. P., and Company. (See Clare, Carl P., assignor.)

Clark, Clyde W., Dearborn, Mich. Hardness tester adjustment means. 2,326,759; Aug. 17.

Clark, Gilbert R., Staten Island, N. Y., assignor to Radio Corporation of America. Picture receiving system. 2,326,836; Aug. 17.

Clark Thread Company, The. (See Camp, William M., assignor.)

Clausen, Sigurd, Brooklyn, N. Y., assignor to International Cigar Machinery Company. Cigar bunch shaper. 2,327,020; Aug. 17.

Cleary, James F., Kansas City, Mo. Box. 2,327,095; Aug. 17.

Coleman, Timothy J., Buffalo, N. Y., assignor to National Carbon Company, Inc. Cleaning composition and its use. 2,326,837; Aug. 17.

Collier, Freeman E., assignor to Foley Manufacturing Company, Minneapolis, Minn. Flour sifter. 2,326,761; Aug. 17.

Collier, Freeman E., assignor to Foley Manufacturing Company, Minneapolis, Minn. Sifter. 2,326,762; Aug. 17.

Composite Rubber Products Corporation. (See Hosking, Oakley W., assignor.)

Conn, Arthur L., assignor to Standard Oil Company, Chicago, Ill. Catalyst control in hydrocarbon conversion. 2,327,175; Aug. 17.

Conrad, Victor, Berlin-Wilmersdorf, Germany; vested in the Alien Property Custodian. Improving the grinding, mixing, and refining of rubber materials, synthetics, and plastics. 2,326,927; Aug. 17.

Consolidated Packaging Machinery Corporation. (See Briggs, Howland F., assignor.)

Container Corporation of America. (See Kner, Albert B., assignor.)

Continental Motors Corporation. (See Preston, Charles I., assignor.)

Corry Metal Corporation. (See Stowe, Rolland M., assignor.)

Cory, Samuel I., Towaco, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Driving clutch and control means therefor. 2,327,176; Aug. 17.

Cottrell, Robert B., assignor to American Steel Foundries, Chicago, Ill. Journal box and connection. 2,327,151; Aug. 17.

Courson, George F., Cleveland, assignor to The Hinde & Dauch Paper Company, Sandusky, Ohio. Carton. 2,326,928; Aug. 17.

Cowles, Irving, Detroit, Mich., assignor to Irving Cowles and Rudolph W. Lotz, Chicago, Ill., successor co-trustees to Union Bank of Chicago, Illinois. Metallic conduit and coupling therefor. 2,326,929; Aug. 17.

Cowles, Irving, et al., co-trustees. (See Cowles, Irving, assignor.)

Crafts, Walter, Niagara Falls, N. Y., assignor to Electro Metallurgical Company. Deep-hardening silicon steels. 2,326,838; Aug. 17.

Crandell, Dean D., assignor to National Gypsum Company, Buffalo, N. Y. Acoustic material. 2,326,763; Aug. 17.

Crane, Carl J., Shreveport, La. Navigation trainer. 2,326,764; Aug. 17.

Crapo, Frederick M. (See Fowle, F. F., and Crapo.)

Cravath, Austin M., San Francisco, Calif., assignor to The Union Switch and Signal Company, Swissvale, Pa. Transmitting apparatus for railway train communication systems. 2,327,249; Aug. 17.

Criner, Harry J., assignor of one-half to A. G. Bush, Davenport, Iowa. Machine for cutting bread. 2,327,018; Aug. 17.

Crompton & Knowles Loom Works. (See Irons, George A., assignor.)

Crompton & Knowles Loom Works. (See Jennings, Victor H., assignor.)

Crompton & Knowles Loom Works. (See Turner, Richard G., assignor.)

Cross, David, Mount Gilead, Ohio, assignor to The Hydraulic Development Corporation, Inc., Wilmington, Del. Device for shaping sheet metal. 2,327,177; Aug. 17.

Crowder, Alfred G., assignor to E. D. Worrell, Seattle, Wash. Time-controlled circuit selector. 2,326,930; Aug. 17.

Crown Cork & Seal Company. (See Gladfelter, W. I., and Hauger, assignors.)

Cruickshank, George A., Riverside, R. I., assignor to Johnson & Johnson, New Brunswick, N. J. Method of treating cotton wadding and product thereof. 2,327,250; Aug. 17.

Crystal Plastic Corporation. (See Dann, H. C., assignor.)

Cube Steak Machine Co. (See Spang, Joseph P., assignor.)

Cullen, Arthur E., Clayton, assignor to R. C. Can Company, St. Louis, Mo. Cylindrical powder container. 2,326,839; Aug. 17.

Curtiss-Wright Corporation. (See Berlin, Donovan R., assignor.)

Curtiss- Wright Corporation. (See Hathorn, Charles E., assignor.)

Curtiss-Wright Corporation. (See Trimbach, Clem G., assignor.)

Cushman, Everett B., Roscoe, assignor to Sturgess Inc., Glendale, Calif. Cable tension regulator. 2,327,021; Aug. 17.

Cutler-Hammer, Inc. (See Meuer, George J., assignor.)

Cyr, Benjamin, assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Sensitive relay mechanism. 2,327,178; Aug. 17.

Dall, Albert H., H. Ernst, and S. Einstein, assignors to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Surface finishing machinery. 2,327,022; Aug. 17.

Dalton, Thomas B., and R. H. Weisner, Orange, N. J., assignors to Reynolds Metals Company, Richmond, Va. Apparatus for forming bags. 2,326,931; Aug. 17.

Dann, Herbert C., assignor to Crystal Plastic Corporation, New York, N. Y. Toilet accessory. 2,327,096; Aug. 17.

Dannenbaum, Hans. (See Butenandt, A., Inhoffen, and Dannenbaum.)

Dannenberg, Hans. (See Adelson, D. E., and Dannenberg.)

Danner, Harry S., Cranford, N. J. Side wall drilling and sampling tool. 2,327,023; Aug. 17.

Davidson, George D., Jr., Wadesboro, and T. J. Norman, Jr., assignors to The Herald Press, Charlotte, N. C. Package wrapper and method. 2,327,024; Aug. 17.

Davis, David, New York, N. Y. Display device. 2,327,301; Aug. 17.

Davis, Ernest W., River Forest, assignor to Stewart-Warner Corporation, Chicago, Ill. Resistance unit. 2,327,025; Aug. 17.

Davison, James W. (See Renfrew, A., and Davison.)

Day, Roger O., Westfield, N. J., assignor to The Linde Air Products Company. Heat treating method. 2,326,840; Aug. 17.

Deane, Henry N., and J. A. Dell, assignors to Simplex Time Recorder Co., Gardner, Mass. Tape time recorder with differentiated records. 2,326,765; Aug. 17.

De Benedictis, Aldo. (See Luten, D. B., Jr., and De Benedictis.)

Deere & Company. (See Paradise, Louis A., assignor.)

De Lamatter, William W., Cleveland, Ohio, assignor to The American Steel and Wire Company of New Jersey. Treating twister gears for wire fabric-making machines. 2,327,097; Aug. 17.

Delareuelle, A. H., United States Marine Corps, and H. Price, United States Navy. Radio beam training device. 2,326,766; Aug. 17.

Dell, James A. (See Deane, H. N., and Dell.)

Delmonte, Jack, Glendale, Calif., assignor to Chicago Flexible Shaft Company, Chicago, Ill. Lubricated bearing for motors and the like. 2,327,098; Aug. 17.

Dentay, E. G., et al. (See Eddy, Arnold, assignor.)

Derr, Willard A., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Supervisory control and telemetering system. 2,327,251; Aug. 17.

Despard, Victor R., assignor to Pass & Seymour, Inc., Syracuse, N. Y. Outlet box clamp. 2,326,841; Aug. 17.

Deubel, Justin A., Milwaukee, and W. R. Miller, Whitefish Bay, assignors to Perfex Corporation, Milwaukee, Wis. Control system. 2,326,767; Aug. 17.

Deuring, William G., Cleveland, Ohio. Garage door hanger. 2,327,026; Aug. 17.

Diamond, Hyman. (See von Fuchs, G. H., and Diamond.)

Dichter, Jakob, Berlin-Schoneberg, Germany, assignor to Kimble Glass Company, Vineland, N. J. Apparatus for sorting ampoules. 2,327,179; Aug. 17.

Dickerson, William F., Hamptonville, N. C. Apparatus and stringing tobacco. 2,327,252; Aug. 17.

Diercksmeier, Roy L., Chicago, Ill., and E. M. Pfauser, Elm Grove, assignors to Blackhawk Mfg. Co., Milwaukee, Wis. Tripod jack. 2,327,180; Aug. 17.

Dittmar, Harry R., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Soap composition. 2,327,302; Aug. 17.

Ditto, Incorporated. (See Guth, Adalbert B., assignor.)

Dohrenwend, Clayton O., Blue Island, assignor to Burgess-Norton Mfg. Co., Geneva, Ill. Machine for stripping rubber from tread links or the like. 2,327,027; Aug. 17.

Dohrenwend, Clayton O., Blue Island, assignor to Burgess-Norton Mfg. Co., Geneva, Ill. Stripping rubber from tread links or the like. 2,327,028; Aug. 17.

Donelson, William W., Boston, Mass., and R. L. Ahearn, White Plains, N. Y., assignor to Western Waterproofing Company, Inc., Boston, Mass. Flooring. 2,327,029; Aug. 17.

Donnelly, Thomas S., Detroit, Mich. Insulating structure. 2,327,303; Aug. 17.

Dow Chemical Company, The. (See Chamberlain, Leonard C., assignor.)

Dow Chemical Company, The. (See Heath, Sheldon B., assignor.)

Dow Chemical Company, The. (See Lyons, O. W., and Adkison, assignors.)

Dow Chemical Company, The. (See Newhams, W. C., and Nelson, assignors.)

Dow Chemical Company, The. (See Reimers, Hans A., assignor.)

Downy Products Company. (See Loeffler, Clarence R., assignor.)

Drader, Joseph C., assignor to Michigan Tool Company, Detroit, Mich. Hob. 2,326,932; Aug. 17.

Dreyfus, Henry, London, England, assignor to Celanese Corporation of America. Treatment of artificial materials. 2,326,842; Aug. 17.

Duffield, William A., Windsor, Ontario, assignor to Windfields, Limited, Montreal, Quebec, Canada. Automatic speed change gearing. 2,326,994; Aug. 17.

Dunbar, Ralph E., East Cleveland, assignor to Electric Vacuum Cleaner Company, Inc., Cleveland, Ohio. Vacuum cleaner. 2,327,181; Aug. 17.

Du Pont, E. I., de Nemours & Company. (See Austin, Paul R., assignor.)

Du Pont, E. I., de Nemours & Company. (See Bacon, Osborne C., assignor.)

Du Pont, E. I., de Nemours & Company. (See Cass, Oliver W., assignor.)

Du Pont, E. I., de Nemours & Company. (See Dittmar, Harry R., assignor.)

Du Pont, E. I., de Nemours & Co. (See Guy, Hubert G., assignor.)

Du Pont, E. I., de Nemours & Company. (See Kepfer, Raymond J., assignor.)

Du Pont, E. I., de Nemours & Company. (See Kirpatrick, Edward C., assignor.)

Du Pont, E. I., de Nemours & Company. (See Loder, Donald J., assignor.)

Du Pont, E. I., de Nemours & Company. (See Martin, Elmore L., assignor.)

Du Pont, E. I., de Nemours & Co. (See Pikl, Josef, assignor.)

Du Pont, E. I., de Nemours & Company. (See Salzberg, Paul L., assignor.)

Du Pont, E. I., de Nemours & Company. (See Teeters, Wilber O., assignor.)

Du Pont, E. I., de Nemours & Company. (See Walker, Joseph F., assignor.)

Eastman, Du Bois, Port Arthur, Tex., assignor, by mesne assignments, to The Texas Company, New York, N. Y. Conversion of hydrocarbons. 2,327,099; Aug. 17.

Eastman Kodak Company, et al. (See Wadman, W. V., and Hurd, assignors.)

Eddy, Arnold, Stamford, Conn., assignor of twenty per cent to E. G. Dentay, Toronto, Ontario, Canada, and fifty per cent to M. S. Striker, New York, N. Y. Pick-counting device. 2,326,768; Aug. 17.

Eddy, Arnold, Middletown, Conn., assignor of twenty per cent to E. G. Dentay, Toronto, Ontario, Canada, and fifty per cent to M. S. Striker, New York, N. Y. Device for counting the number of picks in a fabric. 2,326,769; Aug. 17.

Edwards, Paul G. (See Abraham, L. G., Edwards, and Fracassi.)

Edwards, Paul G., Verona, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Transmission system regulation. 2,326,770; Aug. 17.

Eidson, Robert W., Seattle, Wash., assignor to American Can Company, New York, N. Y. Container. 2,326,771; Aug. 17.

Einstein, Sol. (See Dall, A. H. Ernst, and Einstein.)

Einstoss, Sigmund. (See Levine, Morris, assignor.)

Eisel, Vernon G., Brooklyn, N. Y., assignor to Childhood Interests, Inc. Infant exerciser. 2,327,253; Aug. 17.

Eksergian, Carolus L., Detroit, Mich., assignor to Budd Wheel Company, Philadelphia, Pa. Brake. 2,326,995; Aug. 17.

Electric Vacuum Cleaner Company, Inc. (See Dunbar, Ralph E., assignor.)
Electrical Testing Laboratories. (See Rowland, Howard, assignor.)
Electro Metallurgical Company. (See Crafts, Walter, assignor.)
Ely, Paul C., Lorain, Ohio, assignor to National Tube Company. Apparatus for the continuous galvanizing of pipe and the like. 2,326,843; Aug. 17.
Ely, Paul C., McKeesport, Pa., assignor to National Tube Company. Method of continuously galvanizing pipe and the like. 2,326,844; Aug. 17.
Endres, Günther, Hamburg, Germany; vested in the Alien Property Custodian. Increasing the solubility of halogenated phenols in soap solutions. 2,326,933; Aug. 17.
Erbardt, Oscar P., West Haven, assignor to The A. C. Gilbert Company, New Haven, Conn. Toy clamshell bucket. 2,326,982; Aug. 17.
Ernst, Hans. (See Dall, A. H., Ernst, and Einstein.)
Esty, Alfred H., assignor of one-fourth to W. H. Oellerich, and one-fourth to C. Grunsky, Santa Cruz, Calif. Two-position work holding device. 2,327,030; Aug. 17.
Etzler, Harry R., Mount Clemens, Mich. Insect catcher. 2,326,845; Aug. 17.
Evans, Theodore W. (See Marple, K. E., Shokal, and Evans.)
Eylet Specialty Company. (See Book, Charles R., assignor.)
Fabreeka Products Company. (See Gray, D. W., and Rogers, assignors.)
Fair, Drury H., Evanston, Ill., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Ophthalmic mounting. 2,326,846; Aug. 17.
Fanning, Fred H., assignor to Blaw-Knox Company, Pittsburgh, Pa. Surface material working. 2,326,847; Aug. 17.
Fanning, Fred H., assignor to Blaw-Knox Company, Pittsburgh, Pa. Surface working method. 2,326,848; Aug. 17.
Fantur, Charles L., East Cleveland, Ohio, assignor to General Electric Company. Stem and mount construction. 2,327,031; Aug. 17.
Ferguson, Berlin S., assignor to Byers Machine Company, Ravenna, Ohio. Crowd and retract mechanism. 2,326,935; Aug. 17.
Ferranti Electric Inc. (See Prince, J., and Whitehead, assignors.)
Fiedler, Herbert, K. Heimig, and H. Liesegang, Leipzig, Germany; vested in the Alien Property Custodian. Producing cholersterol conversion products containing sulphur. 2,326,936; Aug. 17.
Finlay, Alexander. (See Kane, J. H., Finlay, and Amann.)
Fisher, Carl D., Bentonville, Ark. Two-way safety razor. 2,327,032; Aug. 17.
Fisher, Frederick F., Providence, and C. T. Heilborn, Bristol, R. I. Flare indicator. 2,327,254; Aug. 17.
Flaws, John, Jr., East Cleveland, Ohio, assignor to General Electric Company. Filament mounting machine. 2,327,033; Aug. 17.
Flaxman, Marcellus T., Wilmington, assignor to Union Oil Company of California, Los Angeles, Calif. Spray oil and emulsion. 2,327,152; Aug. 17.
Flett, Lawrence H., Hamburg, N. Y., assignor to Allied Chemical & Dye Corporation. Dry-cleaning composition. 2,326,772; Aug. 17.
Flett, Lawrence H., Hamburg, N. Y., assignor to Allied Chemical & Dye Corporation. Dry-cleaning composition. 2,327,182; Aug. 17.
Flett, Lawrence H., Hamburg, N. Y., assignor to Allied Chemical & Dye Corporation. Dry-cleaning compositions. 2,327,183; Aug. 17.
Floyd, Oscar H., Chicago, Ill. Ultra violet ray applicator. 2,326,773; Aug. 17.
Flygare, Carl G., and S. S. Mader, assignors to Norton Company, Worcester, Mass. Cylindrical grinding machine. 2,327,255; Aug. 17.
Foley Manufacturing Company. (See Collier, Freeman E., assignor.)
Fowler, George B., and D. K. Pattilloch, Springfield, Mass.; said Pattilloch assignor to Chemical Development, Inc., Chicago, Ill. Paper sizing material. 2,326,849; Aug. 17.
Fowle, Frank F., Winnetka, Ill., and F. M. Crapo, Muncie, Ind. Carbon-steel alternating-current conductor. 2,327,256; Aug. 17.
Fowler, John, & Co. (Leeds) Limited. (See Sanders, Arthur P., assignor.)
Fracassi, Renato D. (See Abraham, L. G., Edwards, and Fracassi.)
Free, Gerhard. (See Pier, M., and Free.)
Free, Gerhard. (See Pier, M., Fuener, and Free.)
Freedman, Benjamin H., Asbury Park, N. J. Safety razor. 2,326,774; Aug. 17.
Frei, Josef L., Chicago, Ill. Steel chair cushion. 2,326,937; Aug. 17.
Frentzel, Wallmuth R., assignor to University National Bank, Seattle, Wash., as trustee. Cleaner's form for sizing garments. 2,326,775; Aug. 17.
Frey, Francis C., Los Angeles, Calif. Film drier. 2,327,100; Aug. 17.
Fuener, Wilhelm. (See Pier, M., Fuener, and Free.)
Fuge, Harry B., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Food-mixer support. 2,326,996; Aug. 17.
Fuller, Everett W., Woodbury, and L. A. Hamilton, Wenonah, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Stabilized mineral oil composition. 2,326,938; Aug. 17.
Fuller, W. P., & Co. (See O'Leary, Lawrence A., assignor.)
Fulper Pottery Company. (See Stangl, Johann M., assignor.)
Fulton, William B., Gate City, Va. Ore furnace. 2,327,101; Aug. 17.
Gary, Charles L., Kenmore, and K. W. Harper, East Aurora, assignors to Spencer Lens Company, Buffalo, N. Y. Optical inspection device. 2,327,257; Aug. 17.
Gay, Arthur W., assignor to E. B. Jones, Akron, Ohio. Method of finning. 2,327,259; Aug. 17.
Geer, William C., Ithaca, N. Y. Apparatus for preventing the accumulation of ice. 2,327,034; Aug. 17.
Gellman, Benjamin, Chicago, Ill. Shoe. 2,326,776; Aug. 17.
General Aniline & Film Corporation. (See Lessler, Lew W., assignor.)
General Chemical Company. (See Bousquet, L'R. G., and Brooks, assignors.)
General Chemical Company. (See Proctor, J. W., and Allen, assignors.)
General Electric Company. (See Ayers, Alan N., assignor.)
General Electric Company. (See Fantur, Charles L., assignor.)
General Electric Company. (See Flaws, John, Jr., assignor.)
General Electric Company. (See Halvorson, Cromwell A. B., assignor.)
General Electric Company. (See Patnode, Winton I., assignor.)
Gerner, Niels, Euclid, Ohio. Combined ash tray and safety means. 2,327,036; Aug. 17.
Gilbert, A. C., Company, The. (See Erhardt, Oscar P., assignor.)
Gilmer, John T. (See Woodruff, Francis J., assignor.)
Gilmore, George J., Chicago, Ill. Buckle. 2,327,102; Aug. 17.
Glacier Metal Company, The, et al. (See Boyle, William R., assignor.)
Gladfelter, Wiltie I., and C. C. H. Hauger, Philadelphia, Pa., assignors to Crown Cork & Seal Company, Inc., Baltimore, Md. Printing machine. 2,326,850; Aug. 17.
Gleason Works. (See Wildhaber, Ernest, assignor.)
Globe Oil and Refining Company. (See Perdew, William E., assignor.)
Goodloe, Alfred M., Montclair, assignor to Metal Textile Corporation, West Orange, N. J. Filter body. 2,327,184; Aug. 17.
Goodman Manufacturing Company. (See Hagenbook, Loy D., assignor.)
Goodman Manufacturing Company. (See Holstein, John H., assignor.)
Goodrich, B. F., Company, The. (See Hunter, Willson H., assignor.)
Goodrich, B. F., Company, The. (See Krotz, Alvin S., assignor.)
Goodrich, B. F., Company, The. (See Mathes, Roger A., assignor.)
Goodrich, B. F., Company, The. (See Ofensend, Chase F., assignor.)
Grafsland, Paul T. (See Grafsland, Sigurd A., assignor.)
Grafsland, Sigurd A., assignor of one-half to P. T. Grafsland, Minneapolis, Minn. Repair and sales record card. 2,326,939; Aug. 17.
Gramp, Alfred J., Atlantic City, N. J. Detachable pour spout. 2,327,258; Aug. 17.
Granger, Paul H., Los Angeles, Calif. Oil well tool. 2,326,940; Aug. 17.
Grant, Garnet P., Jr., Silvermine, Conn., assignor to Grant Photo Corporation, New York, N. Y. Color photography. 2,327,304; Aug. 17.
Grant Photo Corporation. (See Grant, Garnet P., Jr., assignor.)
Graves, Robert E. (See Joiner, Sylvester L., assignor.)
Gray, David W., Everett, and W. B. Rogers, Jr., Dedham, assignors to Fabreeka Products Company, Inc., Boston, Mass. Buffer stem sleeve. 2,327,035; Aug. 17.
Gray, Russell J., Meadville, Minn. Dispensing device. 2,326,851; Aug. 17.
Greenlee Bros. & Co. (See Mansfield, Judson H., assignor.)
Greenman, Harry D., New York, N. Y. Toggle catch for boxes. 2,327,260; Aug. 17.
Greist Manufacturing Company, The. (See Balzano, Oreste, assignor.)
Grettie, Donald P., assignor to Industrial Patents Corporation, Chicago, Ill. Extracting glue and gelatin. 2,327,185; Aug. 17.
Grotelite Company, The. (See Wacker, George W., assignor.)
Grunsky, Charles, et al. (See Esty, Alfred H., assignor.)
Gude, Harry E., Gary, Ind., assignor to Carnegie-Illinois Steel Corporation. Processing strip metal. 2,327,103; Aug. 17.
Gudebrod, Charles B., Wayne, Pa. Power transmission belt. 2,327,104; Aug. 17.

Gunterhack, August, Chicago, Ill. Figure toy. 2,327,261; Aug. 17.
Guth, Adalbert B., Oak Park, assignor to Ditto, Incorporated, Chicago, Ill. Roller for printing. 2,326,777; Aug. 17.
Guy, Hubert G., Newark, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Pest control. 2,327,105; Aug. 17.
Hans, Otto R., North Beverly, Mass., assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J. Thread supply device for shoe sewing machines. 2,326,852; Aug. 17.
Haeckler, Edward W., McKeesport, and Walter Moyle, Duquesne, Pa. Gripping member for billet surfacing machines and the like. 2,326,778; Aug. 17.
Haensel, Vladimir. (See Ipatieff, V. N., and Haensel.)
Hagenbook, Loy D., assignor to Goodman Manufacturing Company, Chicago, Ill. Shaker conveyer. 2,327,305; Aug. 17.
Hale, Charles B. (See Van Tuyl, T., and Hale.)
Hall, George W., Leominster, Mass., assignor, by mesne assignments, to Aluminum Company of America. Bottle capper. 2,327,262; Aug. 17.
Hallden, Karl W., Thomaston, Conn. Flying cutting device. 2,327,106; Aug. 17.
Halliburton Oil Well Cementing Company. (See Botkin, John W., assignor.)
Halvorson, Cromwell A. B., Lynn, Mass., assignor to General Electric Company. Luminaire. 2,327,186; Aug. 17.
Hamann, William, Irondequoit, N. Y., assignor to United Shoe Machinery Corporation, Flemington, N. J. Edge setting machine. 2,326,892; Aug. 17.
Hamilton, Lyle A. (See Fuller, E. W., and Hamilton.)
Hanchett, Harold, et al. (See Hubacker, Earl F., assignor.)
Hanlon Waters, Inc. (See McGay, John B., assignor.)
Harper, Kennard W. (See Gary, C. L., and Harper.)
Harrison, Thomas R., Wyncote, assignor to The Brown Instrument Company, Philadelphia, Pa. Measuring and control apparatus. 2,326,853; Aug. 17.
Harshaw Chemical Company, The. (See Lind, R., Harshaw, and Long, assignors.)
Harshaw, William J. (See Lind, R., Harshaw, and Long.)
Hartanov, Andrew S. (See Bratek, F. B., and Hartanov.)
Hartman, Elmer C., assignor to Taylor Instrument Companies, Rochester, N. Y. Thermometer. 2,327,037; Aug. 17.
Haseltine, Stacy M., LaGrange, assignor to W. H. Miner, Inc., Chicago, Ill. Car construction. 2,327,038; Aug. 17.
Hassler, John E., Portland, Oreg. Sawing wood. 2,326,854; Aug. 17.
Hassman, Fred A., assignor to The Cincinnati Milling Machine Co., Cincinnati, Ohio. Milling machine. 2,327,107; Aug. 17.
Hathorn, Charles E., Kenmore, N. Y., assignor to Curtiss-Wright Corporation. Rivet. 2,326,855; Aug. 17.
Hauger, Carl C. H. (See Gladfelter, W. I., and Hauger.)
Hazeltine Corporation. (See Case, Nelson P., assignor.)
Heaney, Donald, Essex Junction, Vt. Casement window. 2,326,856; Aug. 17.
Heath, A. R. N., and T. C. Tapp, London, England. Coiling strip material. 2,327,263; Aug. 17.
Heath, Sheldon B., assignor to The Dow Chemical Company, Midland, Mich. Spray evaporator. 2,327,039; Aug. 17.
Hendrickson, Clifford W., Kildare, Okla. Bale carrier for hay bailers. 2,327,264; Aug. 17.
Heilborn, Charles T. (See Fisher, F. F., and Heilborn.)
Heimig, Karl. (See Fiedler, H., Heimig, and Liesegang.)
Heitner, Joseph, Budapest, Hungary; vested in the Alien Property Custodian. Joints for demountable steel structures. 2,326,941; Aug. 17.
Hennessy, James J., Montclair, N. J. Railway journal lubricator structure. 2,327,040; Aug. 17.
Herald Press, The. (See Davidson, G. D., Jr., and Norman, assignors.)
Hercules Powder Company. (See Billing, Wyly M., assignor.)
Hercules Powder Company. (See Borglin, Joseph N., assignor.)
Hercules Powder Company. (See Schantz, Jacob M., assignor.)
Hercules Powder Company. (See Wiggam, David R., assignor.)
Hercules Powder Company. (See Wiggam, D. R., and Koch, assignors.)
Herr, Richard F., Warren, Ohio. Building construction panel. 2,327,265; Aug. 17.
Hetherington, Robert, & Son, Inc. (See Hetherington, Robert, assignor.)
Hetherington, Robert, Sharon Hill, Pa., assignor to Robert Hetherington & Son, Inc., Wilmington, Del. Plunger type electrical switch. 2,326,942; Aug. 17.
Heward, Joe W. (See Aaberg, H. A., and Heward.)
Heyer, Don, Hollywood, Calif. Film holder. 2,327,108; Aug. 17.
Hill, Earl S., assignor to Stanolind Oil & Gas Company, Tulsa, Okla. Recovery of distillate hydrocarbons from well fluids. 2,327,187; Aug. 17.
Hill, Edward G., assignor to Hill Engineering Corporation, Richmond, Va. Clutch control mechanism. 2,326,943; Aug. 17.
Hill Engineering Corporation. (See Hill, Edward G., assignor.)
Hill, Lyle O., and L. W. Short, assignors to The American Dairy Cattle Club, Chicago, Ill. Heat exchange material. 2,327,041; Aug. 17.
Hinde & Dauch Paper Company, The. (See Courson, George F., assignor.)
Hinkle, George A., New York, N. Y. Artificial leg. 2,327,042; Aug. 17.
Hirsch, George B., Providence, R. I., assignor to Brown and Sharpe Manufacturing Company. Machine tool. 2,327,109; Aug. 17.
Hirsch, John, Alexandria, La. Shoe. 2,327,043; Aug. 17.
Hlavin, William S. (See Sigmund, F. J., and Hlavin.)
Hochman, Louis, New York, N. Y. Bandage. 2,326,997; Aug. 17.
Hoffstetter, George O., Jerseyville, Ill. Material spreading device. 2,327,266; Aug. 17.
Holand, Donald C., and V. E. Lee, Grand Forks, N. Dak. Tester trainer. 2,326,944; Aug. 17.
Holden, Orloff W., Chicago, Ill. Faucet strainer. 2,327,306; Aug. 17.
Holstein, John H., assignor to Goodman Manufacturing Company, Chicago, Ill. Self-loading device for shaker conveyers. 2,326,857; Aug. 17.
Holsten, Karl-Georg, Berlin, Germany; vested in the Alien Property Custodian. Direction-finding system. 2,326,945; Aug. 17.
Honerkamp, Friedrich, and F. J. Kurth, New York, N. Y., assignors to Anemostat Corporation of America. Air outlet device. 2,326,858; Aug. 17.
Hoover, Harter S., Rocky River, Ohio. Indoor game. 2,326,859; Aug. 17.
Hopkins, James H. (See Rodder, W., and Hopkins.)
Horn, Harry J., assignor to Motor Wheel Corporation, Lansing, Mich. Wheel. 2,327,044; Aug. 17.
Hosking, Oakley W., Monroe, N. Y., assignor to Composite Rubber Products Corporation, Bridgeport, Conn. Tire valve. 2,326,998; Aug. 17.
Houdry, Eugene J., Ardmore, Pa., assignor to Houdry Process Corporation, Wilmington, Del. High grade motor fuel from straight run and similar hydrocarbons. 2,326,779; Aug. 17.
Houdry Process Corporation. (See Houdry, Eugene J., assignor.)
Howard, Stanley R., Milton, assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Packaging machine. 2,327,267; Aug. 17.
Howard, William C., Jr., Detroit, Mich. Mechanical compensator. 2,326,780; Aug. 17.
Hubacker, Earl F., Highland Park, assignor to a partnership consisting of J. S. and M. H. Bicknell, H. Hanchett, and W. J. Olson, Clare, Mich. Traffic signal. 2,326,781; Aug. 17.
Huber, Fritz, Mannheim, Germany; vested in the Alien Property Custodian. Steering mechanism for vehicles and tractors. 2,326,946; Aug. 17.
Huber, Paul P. (See Wolferz, A. H., and Huber.)
Huff, Lyman C., assignor to Universal Oil Products Company, Chicago, Ill. Catalytic reactor. 2,327,045; Aug. 17.
Hunter, David U., Cranford, and V. T. Moore, Glen Rock, N. J., and J. Modrovsky, New York, N. Y., assignors to Wright Aeronautical Corporation. Angle drive transmission. 2,326,860; Aug. 17.
Hunter, Willson H., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Inflation apparatus. 2,327,046; Aug. 17.
Hurd, Loren C. (See Wadman, W. V., and Hurd.)
Hurrey, Ross C., New York, N. Y., and R. T. Adams, Battle Creek, Mich.; said Hurrey assignor, by mesne assignments, to International Paper Company, New York, N. Y. Shipping container. 2,326,947; Aug. 17.
Huthsing, Charles K., Grosse Pointe, Mich. Fire extinguisher construction. 2,326,861; Aug. 17.
Hydraulic Development Corporation, Inc., The. (See Cross, Davis, assignor.)
Hydraulic Development Corp, Inc., The. (See Tucker, Warren R., assignor.)
Imperato, Vincent, Garfield, N. J. Power transmission apparatus. 2,326,948; Aug. 17.
Imperial Chemical Industries Limited. (See Baldwin, A. W., and Rogers, assignors.)
Imperial Chemical Industries Limited. (See Renfrew, A., and Davison, assignors.)
Industrial Patents Corporation. (See Bratek, F. B., and Hartanov, assignors.)
Industrial Patents Corporation. (See Grettie, Donald P., assignor.)
Ingersoll-Rand Company. (See Allen, Roy O., assignor.)
Inhoffen, Hans H. (See Butenandt, A., Inhoffen, and Dannenbaum.)
International Cigar Machinery Company. (See Clausen, Sigurd, assignor.)
International Paper Company. (See Hurrey, R. C., and Adams, assignors.)
Ipatieff, Vladimir N., and H. Pines, assignors to Universal Oil Products Company, Chicago, Ill. Treatment of paraffins. 2,327,188; Aug. 17.
Ipatieff, Vladimir N., and V. Haensel, assignors to Universal Oil Products Company, Chicago, Ill. Treatment of hydrocarbons. 2,327,189; Aug. 17.

Irons, George A., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Thread cutter and clamp for looms. 2,326,862; Aug. 17.
Jack & Heintz, Inc. (See Carlson, Bert G., assignor.)
Jacobson, James H. (See Westcott, Clifford H., assignor.)
Jacobus, David D., Bernardsville, N. J., and J. R. Bose, Woodhaven, N. Y., assignors to Keuffel & Esser Company, Hoboken, N. J. Photosensitive material. 2,326,782; Aug. 17.
Jenks, Harold C., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electric discharge apparatus. 2,327,268; Aug. 17.
Jenne, Kenneth C., assignor to Malleable Iron Fittings Company, Branford, Conn. Clamp for guy wires and the like. 2,327,307; Aug. 17.
Jennings, Victor H., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Thread cutter for looms. 2,326,863; Aug. 17.
Jessup, Sellers E., Los Angeles, Calif. Air compressor. 2,327,269; Aug. 17.
Johnson, Herbert F., et al. (See Silver, Charles, assignor.)
Johnson, Jay M., Detroit, Mich. Display device. 2,327,270; Aug. 17.
Johnson & Johnson. (See Cruickshank, George A., assignor.)
Johnston, Howard M., assignor to Massey-Harris Company Ltd., Toronto, Ontario, Canada. Hitch for tractor drawn implements. 2,327,308; Aug. 17.
Joiner, Sylvester L., Sweetwater, assignor of three-fourths to R. E. Graves, Brownwood, Tex. Safety attachment for car-coupler locks. 2,327,271; Aug. 17.
Jonas, Julius, Zurich, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Protective arrangement for high voltage systems. 2,327,190; Aug. 17.
Jones, Edna B. (See Gay, Arthur W., assignor.)
Jones, Lawrence M., and H. E. Anderson, Harvey, Ill. Dresser for grinders. 2,327,272; Aug. 17.
Jones, William F., Jr., and A. Meller, Birmingham, Ala. Billet notcher. 2,327,110; Aug. 17.
Joyce, Bryan P., East Orange, N. J., assignor to American Armament Corporation, New York, N. Y. Gun-firing mechanism. 2,327,047; Aug. 17.
Joyce, James C., Eagle Rock, Calif. Terminal block. 2,327,048; Aug. 17.
Justrite Manufacturing Company. (See Packer, Charles S., assignor.)
Kaempf, Harold B., et al. (See Baggott, Edmund W., assignor.)
Kahler, Edwin. (See Kosky, J. G., Brodbeck, and Kahler.)
Kahn, Julius. (See Kramer, S., and Kahn.)
Kane, Jasper H., Brooklyn, A. Finlay, Sea Cliff, and P. F. Amann, Brooklyn, N. Y., assignors of one-half to Chas. Pfizer & Co., Inc., and one-half to Merck & Co. Inc., Rahway, N. J. Production of fumaric acid. 2,327,191; Aug. 17.
Kapella Limited. (See Reason, Richard E., assignor.)
Katz, Julius. (See Balk, D., Katz, and Majoros.)
Kautz, Frederick, Philadelphia, Pa. Combined framing structure and bracket support. 2,326,783; Aug. 17.
Keene, Arthur E., Mill Creek, Ind. Soap containing safety razor. 2,327,192; Aug. 17.
Keener, S. F., et al. (See Rodder, W., and Hopkins, assignors.)
Keeshen, Minnetta, Denver, Colo. Adjustable shelf unit. 2,326,864; Aug. 17.
Kehrer, Bertram F., Seattle, Wash. Accessory fastening for marine vessels. 2,327,273; Aug. 17.
Kennedy, Harry E., Berkeley, Calif., assignor to The Linde Air Products Company. Electric welding. 2,326,865; Aug. 17.
Kepfer, Raymond J., Lakewood, Ohio, assignor to E. I. du Pont de Nemours & Co., Wilmington, Del. Formed tetrasodium pyrophosphate composition and making same. 2,326,949; Aug. 17.
Kepfer, Raymond J., Lakewood, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Chemical process and product. 2,326,950; Aug. 17.
Keuffel & Esser Company. (See Jacobus, D. D., and Bose, assignors.)
Kimble Glass Company. (See Dichter, Jakob, assignor.)
Kimmell, Garman O., Oklahoma City, Okla. Apparatus for removing samples from flowing streams. 2,327,111; Aug. 17.
Kincaid, Frank M., Jr., Mountain Lakes, N. J., assignor to Wright Aeronautical Corporation. Clamp joint. 2,326,866; Aug. 17.
Kinney, Howard D., El Dorado, Ark., assignor to S. P. Bedingfield, Bossier City, La. Valve structure for combined formation testing tools and pressure recorders. 2,326,867; Aug. 17.
Kinny Manufacturing Company, et al. (See Livingston, Donald B., assignor.)
Kirpatrick, Edward C., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Drying process. 2,327,333; Aug. 17.
Klauer, Walter E., Dubuque, Iowa. Snow removing mechanism. 2,327,193; Aug. 17.
Kner, Albert B., assignor to Container Corporation of America, Chicago, Ill. Carton. 2,327,049; Aug. 17.
Köber, Fritz, H. Sauer, and O. Vierling, Dresden, Germany; vested in the Alien Property Custodian. Optical system for taking stereoscopic photographs. 2,326,951; Aug. 17.
Koch, William. (See Wiggan, D. R., and Koch.)
Komenda, Erwin, Stuttgart-Korntal, Germany; vested in the Alien Property Custodian. Vehicle body and making same. 2,326,952; Aug. 17.
Kopas, Joseph S., Cleveland, Ohio. Testing device. 2,327,194; Aug. 17.
Kosky, John G., A. H. Brodbeck, and E. H. Kahler, assignors to American Stove Company, St. Louis, Mo. Combined fuel filter and regulator and cutoff device. 2,327,195; Aug. 17.
Kotler, Paul, Irvington, N. J. Leveling device for shuffleboard tables. 2,327,050; Aug. 17.
Kramer, Samuel, and J. Kahn, New York, assignors to Pioneer Watch Case Co., Inc., Mount Vernon, N. Y. Watchcase. 2,327,112; Aug. 17.
Krotz, Alvin S., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Resilient bushing and making the same. 2,327,113; Aug. 17.
Kupiec, Harry P. (See Overbeke, J. W., and Kupiec.)
Kurth, Franz J. (See Honerkamp, F., and Kurth.)
Kyska, Peter, Chicago, Ill. Combined game and amusement apparatus. 2,327,309; Aug. 17.
Lake, Albert H. (See Barrows, D. S., and Lake.)
Lane, Arthur W., Freeport, assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Erecting device for gyro-verticals. 2,326,784; Aug. 17.
Lane-Wells Company. (See Spencer, Lloyd, assignor.)
Langston, Samuel M., Co. (See Sieg, Karl, assignor.)
Lantz, Louis A., and W. Roman, assignors to The Calico Printers' Association Limited, Manchester, England. Dehusking carob beans. 2,326,868; Aug. 17.
Le Blanc, Frank, St. Albans, Vt. Combined siphon and circulator for steam boilers. 2,326,869; Aug. 17.
Lee, Virgil E. (See Holand, D. C., and Lee.)
Leitz, E., Inc. (See Müller, Ralph H., assignor.)
Lessler, Lew W., Johnson City, assignor, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y. Roll holding camera construction. 2,326,870; Aug. 17.
Le Tourneau, R. G., Inc. (See Le Tourneau, Robert G., assignor.)
Le Tourneau, Robert G., Peoria, Ill., assignor to R. G. Le Tourneau, Inc., Stockton, Calif. Feeding device for billet heating furnaces. 2,326,953; Aug. 17.
Levine, Morris, New York, assignor of one-half to S. Einstoss, Brooklyn, N. Y. Variable pitch aerial propeller. 2,327,274; Aug. 17.
Lewis, Benjamin F., Bayside, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Signaling system. 2,327,275; Aug. 17.
Lewis, Florence N., New York, N. Y. Foundation garment. 2,327,310; Aug. 17.
Libby, W. S., Company. (See Lurie, Joseph M., assignor.)
Liddon, William M. (See Randol, Glenn T., assignor.)
Liesegang, Helmut. (See Fiedler, H., Kelmig, and Liesegang.)
Lichter, Stephen, Milwaukee, Wis. Shirt protector. 2,327,196; Aug. 17.
Lincoln, Roland L., Dedham, assignor to B. F. Sturtevant Company, Hyde Park, Boston, Mass. Cinder collector. 2,327,197; Aug. 17.
Lind, Rudolph, Euclid, W. J. Harshaw, Shaker Heights, and K. E. Long, South Euclid, assignors to The Harshaw Chemical Company, Elyria, Ohio. Nickel plating. 2,326,999; Aug. 17.
Linde Air Products Company, The. (See Day, Roger O., assignor.)
Linde Air Products Company, The. (See Kennedy, Harry E., assignor.)
Linde Air Products Company, The. (See Walters, Robert M., assignor.)
Lingel, Frederick J., assignor to The Triplett Electrical Instrument Co., Bluffton, Ohio. Electrical measuring instrument. 2,327,114; Aug. 17.
Lingle, William H., Flint, Mich. Agricultural implement. 2,327,198; Aug. 17.
Linscott, Chester E., Ridgewood, and J. McGavack, Leonia, N. J., assignors to United States Rubber Company, New York, N. Y. Treating latex. 2,327,115; Aug. 17.
Livingston, Donald B., Beverly, assignor of one-half to Kinney Manufacturing Company, Jamaica Plain, and one-half to R. C. Perrin, Gloucester, Mass. Winch structure. 2,326,785; Aug. 17.
Lochhead, John L., and M. C. Benner, Springfield, Mass. Discharger for pyrotechnic cartridges. 2,326,786; Aug. 17.
Lock Joint Pipe Company. (See Brend, William R., assignor.)
Loder, Donald J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Polyamides. 2,327,116; Aug. 17.
Loeffler, Clarence R., Newark, assignor to Downy Products Company, Orange, N. J. Nonmetallic fibrous abrasive wad and producing same. 2,327,199; Aug. 17.
Loewy Engineering Company Limited, The. (See Lorant, Hugo, assignor.)
Long, Kenneth E. (See Lind, R., Harshaw, and Long.)

Lorant, Hugo, New York, N. Y., assignor to The Loewy Engineering Company, Limited, London, England. Hydraulic forging press. 2,327,117; Aug. 17.
Lorig, Alvin I., Washington, D. C. Detachable bifocals. 2,326,787; Aug. 17.
Lotter, William, Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo. Oven light. 2,327,200; Aug. 17.
Lotz, Rudolph W., et al., co-trustees. (See Cowles, Irving.)
Lovell, Clarence A., Maplewood, N. J., R. F. Mallina, Hastings on Hudson, N. Y., and D. B. Parkinson, Maplewood, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Alternating current generator. 2,327,277; Aug. 17.
Lovell, Clarence A., Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Alternating current generator. 2,327,276; Aug. 17.
Lund, Frank M., assignor of fifty per cent to H. M. Pushker, Chicago, Ill. Trimming board. 2,327,000; Aug. 17.
Lundeen, Carl V. (See Blount, H., and Lundeen.)
Lundy, Robert, South Bend, Ind. Fence structure. 2,327,311; Aug. 17.
Lurie, Joseph M., assignor to W. S. Libbey Company, Lewiston, Maine. Blanket. 2,327,278; Aug. 17.
Luten, Daniel B., Jr., and A. De Benedictis, Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif. Separating alkyl phenols. 2,327,312; Aug. 17.
Lyon, George A., Allenhurst, N. J. Wheel structure. 2,326,788; Aug. 17.
Lyons, Orlin W., Tulsa, Okla., and J. H. Adkison, Midland, Tex., assignors to The Dow Chemical Company, Midland, Mich. Apparatus for treating wells. 2,327,051; Aug. 17.
MacAnlis, James W., Ellwood City, Pa., assignor to National Tube Company. Marker for cylindrical work. 2,326,954; Aug. 17.
Mack, Edward L., Douglaston, N. Y., and E. H. Morse, Nutley, N. J., assignors to Reynolds Research Corporation, Richmond, Va. Coated foil. 2,326,955; Aug. 17.
Mack, Gerry, Jackson Heights, N. Y., assignor to Advance Solvents and Chemical Corporation. Process and material for thickening latex and like materials. 2,326,956; Aug. 17.
MacKnight, John D., Mount Vernon, assignor, by mesne assignments, to The Texas Company, New York, N. Y. Submersible barge. 2,327,118; Aug. 17.
Macy, R. H., & Co. Inc. (See Young, George W., assignor.)
Mader, Stewart S. (See Flygare, C. G., and Mader.)
Maguire, Cedric F., St. Petersburg, Fla. Bathroom ventilator. 2,326,957; Aug. 17.
Majoros, Frank P. (See Balk, D., Katz, and Majoros.)
Malleable Iron Fittings Company. (See Jenne, Kenneth C., assignor.)
Mallina, Rudolph F. (See Lovell, C. A., Mallina, and Parkinson.)
Mallinckrodt, Charles O., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Gain control. 2,326,871; Aug. 17.
Mansfield, Judson H., assignor to Greenlee Bros. & Co., Rockford, Ill. Screw machine. 2,327,279; Aug. 17.
Marais, René, Paris, France; vested in the Alien Property Custodian. Pump for injection engines. 2,326,958; Aug. 17.
Margolin, Meyer, Elgin, Ill. Heel pad. 2,326,790; Aug. 17.
Marine, Richard E., Pittsburgh, Pa. Automobile body construction. 2,326,789; Aug. 17.
Marple, Kenneth E., E. C. Shokal, and T. W. Evans, Oakland, assignors to Shell Development Company, San Francisco, Calif. Production of hydroxy ethers. 2,327,053; Aug. 17.
Marsden, William R., Brooklyn, N. Y. Apparatus for forming cast-in-place concrete piles. 2,326,872; Aug. 17.
Martin, Elmore L., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Making amino acids. 2,327,119; Aug. 17.
Martin, Eugene, Erie, Pa., assignor to The Standard Stoker Company, Incorporated. Stoker and support therefor. 2,327,313; Aug. 17.
Martin, Glenn L., Company, The. (See Overbeke, J. W., and Kupiec, assignors.)
Martins, Arthur S., Glendale, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 2,327,201; Aug. 17.
Massey-Harris Company Ltd. (See Johnston, Howard M., assignor.)
Mathes, Roger A., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Vulcanization of rubber. 2,327,052; Aug. 17.
Mayer, Alvin L., Cincinnati, Ohio. Shutter control mechanism for photographic printers. 2,326,959; Aug. 17.
Maynard, Albert C., Oakland, Calif., assignor to United-Carr Fastener Corporation, Cambridge, Mass. Rotary operative fastener device and installation of the same. 2,327,327; Aug. 17.
Mays, Wilburt W., Middletown, Pa. Fluid actuated circuit closer. 2,327,054; Aug. 17.
McCashen, James F., Bay Village, assignor to Rotary Cutters, Inc., Cincinnati, Ohio. Cutting machine. 2,327,280; Aug. 17.
McCashen, James F., Bay Village, assignor to Rotary Cutters, Inc., Cincinnati, Ohio. Making chocolate. 2,327,281; Aug. 17.
McClintic, Robert H. (See Carlson, George W., assignor.)
McCollum, Henry J. De N., Chicago, Ill. Aircraft heating apparatus. 2,327,202; Aug. 17.
McComb, Lloyd A., assignor to Brinck Engineering Company, Inc., Los Angeles, Calif. Processing apparatus. 2,327,282; Aug. 17.
McCoon, Paul L., Los Angeles, Calif., assignor to Trijex Corporation. Cigarette case. 2,327,120; Aug. 17.
McCune, Joseph C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Brake mechanism. 2,326,960; Aug. 17.
McCune, Joseph C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Brake mechanism. 2,326,961; Aug. 17.
McGavack, John. (See Linscott, C. E., and McGavack.)
McGay, John B., assignor to Hanlon Waters, Inc., Tulsa, Okla. Time cycle controller. 2,327,121; Aug. 17.
McKenzie, Olin G., Miami, Fla. Dental instrument. 2,327,203; Aug. 17.
McLemore, Price C., Montgomery, Ala. Cultivation of plants. 2,327,204; Aug. 17.
McMahon, Michael, South Gate, assignor of one-half to F. W. McRae, Los Angeles, Calif. Automatic shutoff valve. 2,327,055; Aug. 17.
McRae, Fred W. (See McMahon, Michael, assignor.)
Meade, Harold W., Covington, Ind. Internal combustion engine control. 2,326,791; Aug. 17.
Meek, John B., Cleveland, Ohio. Removing corn from ears. 2,326,873; Aug. 17.
Mehlman, Joseph, Los Angeles, Calif. Ink roll construction. 2,327,122; Aug. 17.
Meier, Fred, Chicago, Ill. Bit for lifting tongs. 2,326,962; Aug. 17.
Meller, August. (See Jones, W. F., Jr., and Meller.)
Merck & Co., et al. (See Kane, J. H., Finlay, and Amann, assignors.)
Merck & Co., et al. (See Waksman, Selman A., assignor.)
Metal Textile Corporation. (See Goodloe, Alfred M., assignor.)
Metcalf, Arthur G. B., Milton, Mass., assignor to North American Holding Corporation, Syracuse, N. Y. Grading machine. 2,327,283; Aug. 17.
Meuer, George J., assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Electric snap switch. 2,326,874; Aug. 17.
Mevi, George G., New York, N. Y. Game board. 2,327,314; Aug. 17.
Michelman, Nathan, Brooklyn, N. Y. Closure for building constructions. 2,327,315; Aug. 17.
Michelman, Nathan, Brooklyn, N. Y. Door construction. 2,327,316; Aug. 17.
Michigan Tool Company. (See Drader, Joseph C., assignor.)
Midland Steel Products Company, The. (See Rylander, Andrew E., assignor.)
Mierley, George M., Upper Darby, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Locomotive gear casing sealing device. 2,327,205; Aug. 17.
Miles, Alfred M., Spartansburg, S. C. Traffic signal. 2,326,875; Aug. 17.
Miller Company, The. (See Weber, Edward H., assignor.)
Miller, Fred J., San Francisco, Calif. Releasable sinker for use with fishing tackle. 2,326,876; Aug. 17.
Miller, Samuel C., New York, N. Y. Mounting for neon tubes and the like. 2,326,792; Aug. 17.
Miller, Wayland R. (See Deubel, J. A., and Miller.)
Miner, W. H., Inc. (See Haseltine, Stacy B., assignor.)
Minerals Separation North American Corporation. (See Tartaron, Francis X., assignor.)
Minneapolis-Honeywell Regulator Company. (See Cyr, Benjamin, assignor.)
Minneapolis-Honeywell Regulator Company. (See Newton, Alwin B., assignor.)
Minnesota Mining & Manufacturing Company. (See Anderson, Arthur A., assignor.)
Minor, Bert S. (See Barnes, B. H., and Minor.)
Mishawaka Rubber and Woolen Manufacturing Company. (See Schott, John F., assignor.)
Modrovsky, Joseph. (See Moore, D. U., Moore, and Modrovsky.)
Molins, Desmond W., and F. F. Ruau, assignors to Molins Machine Company Limited, London, England. Method and apparatus for feeding cut tobacco. 2,326,793; Aug. 17.
Molins Machine Company Limited. (See Molins, D. W., and Ruau, assignors.)
Monroe Auto Equipment Company. (See Whisler, Ralph H., Jr., assignor.)
Monsanto Chemical Company. (See Tomlin, Andrew, assignor.)
Moore, Vincent T. (See Hunter, D. U., Moore, and Modrovsky.)
Morgan, Thomas H., Kittanning, assignor to S. S. Bruce and H. C. Oliver, Pittsburgh, and T. H. Morgan, Kittanning, Pa., trustees. Vibratory drive apparatus. 2,327,206; Aug. 17.
Morgan, T. H., et al., trustees. (See Morgan, Thomas H., assignor.)

Morse, Charles W., Anaconda, Mont. Automatic sampler and liquid feeding device. 2,327,123; Aug. 17.
Morse, Charles W., Anaconda, Mont. Liquid feeding device. 2,327,124; Aug. 17.
Morse, Earle H. (See Mack, E. L., and Morse.)
Morton, Charles D., assignor to Morton Manufacturing Company, Chicago, Ill. Tread plate. 2,326,963; Aug. 17.
Morton Manufacturing Company. (See Morton, Charles D., assignor.)
Motor Wheel Corporation. (See Horn, Harry J., assignor.)
Moyle, Walter. (See Haeckler, E. W., and Moyle.)
Mueller, George E., Red Bank, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron discharge apparatus. 2,326,877; Aug. 17.
Müller, Ralph H., New York, N. Y., assignor to E. Leitz, Inc. Photoelectric photometer. 2,326,878; Aug. 17.
Murphy, Howard J., Greenwood, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Snap fastener for trimming and like strips. 2,327,328; Aug. 17.
Murphy, Howard J., Greenwood, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Fastener and fastener installation. 2,327,329; Aug. 17.
National Carbon Company. (See Coleman, Timothy J., assignor.)
National Gypsum Company. (See Crandell, Dean D., assignor.)
National Tube Company. (See Ely, Paul C., assignor.)
National Tube Company. (See MacAnlis, James W., assignor.)
Nebel, Max., Chemnitz, Germany; vested in the Alien Property Custodian. Needle. 2,326,964; Aug. 17.
Nelson, Charles E. (See Newhams, W. C., and Nelson.)
Nelson, Kenneth H., Des Moines, Iowa. Combined flagstaff and flag storage compartment. 2,327,056; Aug. 17.
Neuhausen, Sebastian P., Lombard, Ill. Brush. 2,326,879; Aug. 17.
Neumueller, Julius F., Dudley, assignor to American Optical Company, Southbridge, Mass. Means for testing eyes. 2,326,965; Aug. 17.
Neversag Products, Inc. (See Stadtler, Paul, assignor.)
Newbold, Thomas, Santa Clara, N. Y., assignor to United-Carr Fastener Corporation, Cambridge, Mass. Attaching means for separable fastener installations. 2,327,330; Aug. 17.
Newcomer, Ennis G., and J. Takiff, Los Angeles, Calif.; said Takiff assignor to said Newcomer. Slacks and the like. 2,327,207; Aug. 17.
Newhams, William C., and C. E. Nelson, assignors to The Dow Chemical Company, Midland, Mich. Recovery of magnesium from halide fluxes. 2,327,153; Aug. 17.
Newton, Alwin B., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Control device. 2,327,208; Aug. 17.
No-Mercury Felt Corporation. (See Sartakoff, Jack D., assignor.)
Nordquist, Ronald E. J., Maplewood, N. J., assignor to American Can Company, New York, N. Y. Transfer valve. 2,326,794; Aug. 17.
Norma-Hoffman Bearings Corporation. (See Baden, Carl A., assignor.)
Norman, Theron J., Jr. (See Davidson, G. D., Jr., and Norman.)
Norrman, Ernst, Delavan, Wis. Distance measuring device. 2,326,880; Aug. 17.
North American Holding Corporation. (See Metcalf, Arthur G. B., assignor.)
Norton Company. (See Flygare, C. G., and Mader, assignors.)
Nyhagen, Barney R., Bronx, N. Y. Manually operated dry shaver. 2,327,284; Aug. 17.
Ochs, Ray, et al. (See Silver, Charles, assignor.)
Oellerich, Walter H., et al. (See Esty, Alfred H., assignor.)
Ofensend, Chase F., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tire tread. 2,327,057; Aug. 17.
Ohio Cultivator Company, The. (See Russell, Stanley, assignor.)
O'Keefe, Edward J., Seattle, Wash. Instrument for establishing points for drawings. 2,327,058; Aug. 17.
O'Leary, Lawrence A., San Mateo, assignor to W. P. Fuller & Co., San Francisco, Calif. Seam sealing compound. 2,326,966; Aug. 17.
Oliver, H. C., et al., trustees. (See Morgan, Thomas H., assignor.)
Olson, W. James, et al. (See Hubacker, Earl F., assignor.)
O'Neil, Ignatius B., et al. (See Bynum, Pink T., assignor.)
Opitz, Frederick W., Chicago, Ill. Liquid dispensing device. 2,327,285; Aug. 17.
Osborne, Fred H., Snyder, assignor to The Rudolph Wurlitzer Company, North Tonawanda, N. Y. Coin control device. 2,327,154; Aug. 17.
Oslick, Abe, Philadelphia, Pa. Chair glider. 2,327,286; Aug. 17.
Osplack, Joseph J., assignor to Vinco Corporation, Detroit, Mich. Method and apparatus for dressing involute grinding wheel profiles. 2,326,795; Aug. 17.
Otte, Otho M., Tarentum, Pa. Alloy steel article and producing the same. 2,327,209; Aug. 17.
Overbeke, John W., Annesile, and H. P. Kupiec, assignors to The Glenn L. Martin Company, Baltimore, Md. Valve. 2,327,210; Aug. 17.
Packer, Charles S., assignor to Justrite Manufacturing Company, Chicago, Ill. Pouring lip for fluid containers. 2,326,881; Aug. 17.
Pal, George J., Beverly Hills, Calif. Motion picture. 2,327,059; Aug. 17.
Panish, Erwin J., Bridgeport, Conn. Control station. 2,326,796; Aug. 17.
Paradise, Louis A., assignor to Deere & Company, Moline, Ill. Threshing mechanism. 2,327,287; Aug. 17.
Parker, Camille, Montague City, Mass. Firearm lock. 2,327,334; Aug. 17.
Parker Rust Proof Company. (See Thompson, John S., assignor.)
Parkinson, David B. (See Lovell, C. A., Mallina, and Parkinson.)
Pash, Robert, Roselle, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Annular article. 2,327,211; Aug. 17.
Pass & Seymour, Inc. (See Despard, Victor R., assignor.)
Patnode, Winton I., Schenectady, N. Y., assignor to General Electric Company. Electrical insulation. 2,327,212; Aug. 17.
Pattilloch, Donald K. (See Fowler, G. B., and Pattilloch.)
Peacock, Frederick A. (See Browning, R. E., assignor.)
Pender, Lloyd G., Detroit, Mich., assignor to United-Carr Fastener Corporation, Cambridge, Mass. Shiftable rotary operative fastener. 2,327,331; Aug. 17.
Perdew, William E., Kechi Township, Sedgwick County, assignor, by mesne assignments, to Globe Oil and Refining Company, Wichita, Kans. Treating petroleum oils. 2,326,882; Aug. 17.
Perfex Corporation. (See Deubel, J. A., and Miller, assignors.)
Perrin, Randolph C., et al. (See Livingston, Donald B.)
Peterson, John B., Bethesda, Md. Mercurial barometer. 2,326,797; Aug. 17.
Pfannmuller, Julius, North Plainfield, N. J., assignor to Wallerstein Company, Inc., New York, N. Y. Method of treating hides, skins, and pelts. 2,326,798; Aug. 17.
Pfauser, Edward M. (See Diercksmeier, R. L., and Pfauser.)
Pfizer, Chas., & Co., et al. (See Kane, J. H., Finlay, and Amann, assignors.)
Pfizer, Chas., & Co., et al. (See Waksman, Selman A., assignor.)
Pheaps, Clyde H., assignor to Weaver Manufacturing Company, Springfield, Ill. Gas analyzer. 2,326,884; Aug. 17.
Phillips Petroleum Company. (See Carney, Samuel C., assignor.)
Pier, Mathias, Heidelberg, and G. Free, Ludwigshafen-on-the-Rhine, Germany; vested in the Alien Property Custodian. Conversion of combustible carbonaceous materials. 2,326,799; Aug. 17.
Pier, Mathias, Heidelberg, W. V. Fuener, and G. Free, Ludwigshafen-on-the-Rhine, Germany; vested in the Alien Property Custodian. Carrying out reactions with carbonaceous substances. 2,326,800; Aug. 17.
Pierce, Erold F., Paterson, and F. J. Weigand, Ridgewood, N. J., assignors to Wright Aeronautical Corporation. Valve timing device. 2,326,882; Aug. 17.
Pikl, Josef, Pitman, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Chemical compounds and preparing the same. 2,327,213; Aug. 17.
Pines, Herman. (See Ipatieff, V. N., and Pines.)
Pioneer Watch Case Co.. (See Kramer, S., and Kahn, assignors.)
Pneumatic Scale Corporation, Limited. (See Howard, Stanley R., assignor.)
Poelman, Armand J. J., Paris, France; vested in the Alien Property Custodian. Manufacture of air filters. 2,326,967; Aug. 17.
Poliak, Arthur, New York, N. Y., and T. A. Willingham, Charleston, S. C., assignors to West Virginia Pulp and Paper Company, New York, N. Y. Odormeter. 2,327,060; Aug. 17.
Pollard, Willard L., Evanston, Ill. Speed ratio control apparatus. 2,326,214; Aug. 17.
Pollingher, Isidor N., Boston, Mass. Fan. 2,327,061; Aug. 17.
Pollock, Ralph C., Long Beach, assignor to Union Oil Company of California, Los Angeles, Calif. Process for treating wax. 2,327,155; Aug. 17.
Pomeroy, Richard, Harbor City, assignor of one-half to F. D. Bowlus, Whittier, Calif. Preventing corrosion. 2,326,968; Aug. 17.
Post, Florence D., St. Petersburg, Fla. Auxiliary seat for automobiles. 2,327,288; Aug. 17.
Potter, Charles W., assignor to Atlantic Register Company, Waltham, Mass. Spot carbon form sheet pack. 2,327,215; Aug. 17.
Pray, George E., and S. Riccobono, Washington, D. C. High frequency tubes and circuits. 2,326,801; Aug. 17.
Preston, Charles I., Muskegon, assignor to Continental Motors Corporation, Detroit, Mich. Aircraft engine mounting. 2,327,062; Aug. 17.

Price, Harry. (See Delareuelle, A. H., and Price.)
Price, Stanley. (See Dureau, A. A., and Price.)
Prince, John, and M. Whitehead, Hollinwood, England, assignors to Ferranti Electric Inc. Induction type electricity integrating meter. 2,326,885; Aug. 17.
Proctor, James W., Summit, N. J., and W. S. Allen, Flushing, assignors to General Chemical Company, New York, N. Y. Tank construction. 2,327,332; Aug. 17.
Pullman Company, The. (See Andersen, Leif, assignor.)
Pushker, Harvey M. (See Lund, Frank M., assignor.)
Quinlan, Amos L., La Grange Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Winding machine. 2,326,969; Aug. 17.
Quinn, Edward, Malden, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Shoe sewing machine. 2,327,125; Aug. 17.
R. C. Can Company. (See Cullen, Arthur E., assignor.)
Radio Corporation of America. (See Artzt, Maurice, assignor.)
Radio Corporation of America. (See Bokovoy, Samuel A., assignor.)
Radio Corporation of America. (See Clark, Gilbert R., assignor.)
Radio Corporation of America. (See Spencer, James A., assignor.)
Radio Corporation of America. (See Wendt, Karl R., assignor.)
Raetsch, Bruno A., Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Article handling device. 2,327,126; Aug. 17.
Randall, Fred D., Dayton, Ohio. Attachment for ladders. 2,327,317; Aug. 17.
Randol, Glenn T., St. Louis, Mo., assignor of forty per cent to W. M. Liddon, Nashville, Tenn. Change speed transmission and control mechanism therefor. 2,327,063; Aug. 17.
Räntsch, Kurt, Jena, Germany; vested in the Alien Property Custodian. Illuminating system, particularly for projection purposes. 2,326,970; Aug. 17.
Rappl, Anton, assignor to Trico Products Corporation, Buffalo, N. Y. Window operator. 2,327,064; Aug. 17.
Rath, Frank E., Bellevue, Pa. Stain and corrosion resistant tin surface and method of producing the same. 2,327,127; Aug. 17.
Rathbun, Merrill L., Salamanca, N. Y. Closure. 2,326,886; Aug. 17.
Ray, Eugene J., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Edge setting machine. 2,326,893; Aug. 17.
Ray, Eugene J., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Tool holding means for edge setting machines. 2,326,894; Aug. 17.
Reason, Richard E., assignor to Kapella Limited, Leicester, England. Optical testing or measuring apparatus. 2,327,289; Aug. 17.
Reiber, Harry P., Williamsport, Pa., assignor of forty per cent to A. H. White, New York, N. Y. Governor. 2,327,216; Aug. 17.
Reiber, Harry P., Williamsport, Pa., and J. B. Reiber, Ann Arbor, Mich., assignors of forty per cent to A. H. White, New York, N. Y. Variable pitch propeller control mechanism. 2,327,217; Aug. 17.
Reiber, Jack B. (See Reiber, Harry P. and J. B.)
Reimers, Hans A., assignor to The Dow Chemical Company, Midland, Mich. Welding flux for magnesium base alloys. 2,327,065; Aug. 17.
Renfrew, Archibald, and J. W. Davison, Norton-on-Tees, England, assignors to Imperial Chemical Industries Limited. Production of pastes from polymerized vinyl chloride. 2,327,128; Aug. 17.
Ray, Stephen, assignor to Zylo Ware Corporation, Long Island City, N. Y. Spectacle hinge. 2,326,971; Aug. 17.
Reynolds Metals Company. (See Dalton, T. B., and Weisner, assignor.)
Reynolds Research Corporation. (See Mack, E. L., and Morse, assignors.)
Rice, William, Aldan, Pa. Electrode holder. 2,327,290; Aug. 17.
Riccobono, Sebastian. (See Pray, G. E., and Riccobono.)
Richards, Alfred E., and M. Roberts, Leicester, England, assignors to United Shoe Machinery Corporation, Boston, Mass. Nailing machine. 2,326,887; Aug. 17.
Ritchey, Harold W. (See Carr, D. E., and Ritchey.)
Roberts, Maurice. (See Richards, A. E., and Roberts.)
Roble, Norman P., assignor to The Carborundum Company, Niagara Falls, N. Y. Abrasive article and manufacturing the same. 2,327,218; Aug. 17.
Robinson, Bestor, U. S. Army, and W. E. Breuner, Oakland, Calif. 2,326,802; Aug. 17.
Rodder, William, Youngstown, and J. H. Hopkins, Alliance, assignors of one-half to The Aetna Standard Engineering Company, Youngstown, and one-half to S. F. Keener, doing business as Salem Engineering Company, Salem, Ohio. Welding mill. 2,327,318; Aug. 17.
Roelen, Otto, Oberhausen-Holten, Germany; vested in the Alien Property Custodian. Production of oxygenated carbon compounds. 2,327,066; Aug. 17.
Rogers, Maurice A. T. (See Baldwin, A. W., and Rogers.)
Rogers, William B., Jr. (See Gray, D. W., and Rogers.)
Röhm and Haas Company, et al. (See Wadman, W. V., and Hurd, assignors.)
Roman, Wadim. (See Lantz, Louis A., and Roman.)
Ronan, George J. (See Ronan, Lerned F., assignor.)
Ronan, Lerned F., East Aurora, assignor of one-half to G. J. Ronan, Buffalo, N. Y. Making metal cutting saws. 2,327,129; Aug. 17.
Rosin, Maurice, Albany, N. Y. Combined day and night coach. 2,316,972; Aug. 17.
Rotary Cutters, Inc. (See McCashen, James F., assignor.)
Rover Company, The, et al. (See Boyle, William R., assignor.)
Rowland, Howard, Chicago, Ill., assignor to Electrical Testing Laboratories, New York, N. Y. Lighting fixture. 2,327,219; Aug. 17.
Ruau, Felix F. (See Molins, D. W., and Ruau.)
Ruddies, George F., Chicago, Ill. Spark plug. 2,327,220; Aug. 17.
Ruiz, Rafael G., Canlubang, Laguna, Philippine Islands; vested in the Alien Property Custodian. Submarine depth torpedo. 2,326,973; Aug. 17.
Russell, Charles H., McKeesport, Pa. Furnace door. 2,327,130; Aug. 17.
Russell, Stanley, Racine, Wis., assignor to The Ohio Cultivator Company., Bellevue, Ohio. Combine baler. 2,327,067; Aug. 17.
Rylander, Andrew E., Detroit, Mich., assignor to The Midland Steel Products Company, Cleveland, Ohio. Assembly apparatus. 2,327,068; Aug. 17.
Saeks, Reuben R. (See Carson, R. M., and Saeks.)
Salem Engineering Company. (See Rodder, W., and Hopkins.)
Salzberg, Paul L., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Polyamides. 2,327,131; Aug. 17.
Samiran, David, Dayton, Ohio. Positive displacement pump for metering. 2,326,803; Aug. 17.
Sandell, Henry K., Sister Bay, Wis. Clock mechanism. 2,327,319; Aug. 17.
Sanders, Arthur F., assignor of one-half to John Fowler & Co. (Leeds) Limited, Leeds, England. Control of fuel injection engines. 2,326,888; Aug. 17.
Sartakoff, Jack D., Douglaston, Long Island, N. Y., assignor to No-Mercury Felt Corporation. Method of testing the feltability of hatters' fur. 2,326,974; Aug. 17.
Satterlee, Howard A., assignor to The Aro Equipment Corporation, Bryan, Ohio. Fuel pressure switch. 2,327,069; Aug. 17.
Sauer, Hans. (See Köber, F., Sauer, and Vierling.)
Schantz, Jacob M., assignor to Hercules Powder Company, Wilmington, Del. Resinous material. 2,327,132; Aug. 17.
Schell, Joe C., Powell, Mo. Combination cooker and gas exhaust. 2,326,975; Aug. 17.
Schering Corporation. (See Butenandt, A., Inhoffen, and Dannenbaum, assignors.)
Schlage Lock Company. (See Schlage, Walter R., assignor.)
Schlage, Walter R., Burlingame, assignor to Schlage Lock Company, San Francisco, Calif. Face plate. 2,327,070; Aug. 17.
Schlage, Walter, Burlingame, assignor to Schlage Lock Company, San Francisco, Calif. Door lock. 2,327,071; Aug. 17.
Schmidt, Fritz, Hamburg-Harburg, Germany; vested in the Alien Property Custodian. Elastic coupling. 2,326,976; Aug. 17.
Schneider, Louis J., assignor to Schneider Metal Manufacturing Company, Chicago, Ill. Sign construction. 2,326,977; Aug. 17.
Schneider Metal Manufacturing Company. (See Schneider, Louis J., assignor.)
Schott, John F., assignor to Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind. Pore surfaced foam rubber and method. 2,327,001; Aug. 17.
Schuftan, Paul M., Richmond Hill, assignor to The British Oxygen Company, Limited, London, England. Separation of superheated vapors. 2,327,133; Aug. 17.
Schuftan, Paul M., Richmond Hill, England, assignor to The British Oxygen Company Limited, London, England. Extraction of hydrocarbons from gas mixtures which, besides hydrocarbons, contain carbon dioxide. 2,327,134; Aug. 17.
Schulz, Carl G. (See Schulz, Kurt W., and C. G.)
Schulz, Kurt W. and C. G., Joliet, Ill. Apparatus for making insulating material. 2,326,889; Aug. 17.
Schwartz, Morris A., Los Angeles, Calif. Check valve injector for steam generating irons. 2,326,890; Aug. 17.
Schweisthal, Frederick G., assignor to Stewart-Warner Corporation, Chicago, Ill. Indicator. 2,327,221; Aug. 17.
Science Laboratories, Inc. (See Sperti, George, assignor.)
Scotson, Charles, et al. (See Baggott, Edmund W., assignor.)
Scott, David C., Providence, R. I., assignor to Henry L. Scott Company. Holding means for test specimen. 2,327,139; Aug. 17.
Scott, Edward C., Chicago, assignor to Ace Carton Corporation, Cicero, Ill. Carton construction. 2,327,156; Aug. 17.
Scott, Henry L., Company. (See Scott, David C., assignor.)
Scott, Rumsey W., Fairfield, Conn. Freight transfer mechanism. 2,327,135; Aug. 17.

Sell, William O., Detroit, Mich. Aiding device for blind persons. 2,327,222; Aug. 17.
Servel, Inc. (See Thomas, Albert R., assignor.)
Shapiro, Harry B., Astoria, Long Island, assignor to Sonotone Corporation, Elmsford, N. Y. Hearing air microphone. 2,327,136; Aug. 17.
Shapiro, Harry B., Cleveland, Ohio, assignor to Sonotone Corporation, Elmsford, N. Y. Hearing aid microphone. 2,327,137; Aug. 17.
Shapiro, Harry B., Cleveland, Ohio, assignor to Sonotone Corporation, Elmsford, N. Y. Amplifying hearing aid. 2,327,320; Aug. 17.
Shapiro, Harry B., Willoughby, Ohio, assignor to Sonotone Corporation, Elmsford, N. Y. Hearing aid amplifier. 2,327,321; Aug. 17.
Shatkin, Aaron, Matawan, N. J. Joint construction. 2,327,138; Aug 17.
Shaulson, Joseph, Providence, R. I. Buckle and tape assembly machine. 2,327,291; Aug. 17.
Shell Development Company. (See Adelson, D. E., and Dannenberg, assignors.)
Shell Development Company. (See Bent, F. A., and Byrne, assignors.)
Shell Development Company. (See Luten, D. B., Jr., and De Benedictis, assignors.)
Shell Development Company. (See Marple, K. E., Shokal, and Evans, assignors.)
Shell Development Company. (See von Fuchs, G. H., and Diamond, assignors.)
Shmurak, Benjamin, assignor to American Can Company, New York, N. Y. Welding apparatus. 2,326,805; Aug. 17.
Shmurak, Benjamin, assignor to American Can Company, New York, N. Y. Attaching keys to can ends. 2,326,806; Aug. 17.
Shokal, Edward C. (See Marple, K. E., Shokal, and Evans.)
Short, Leland W. (See Hill, L. O., and Short.)
Sieg, Karl, Philadelphia, Pa., assignor to S. M. Langston Co. Tube cutoff mechanism. 2,326,978; Aug. 17.
Sigmund, Frank J., and W. S. Hlavin, Cleveland, Ohio. Control mechanism. 2,326,804; Aug. 17.
Silen, Erick, Kelso, Wash. Violin piano. 2,327,072; Aug. 17.
Silver, Charles, deceased, by L. Silver, Wauwatosa, administratrix, assignor to H. F. Johnson, and R. Ochs, Milwaukee, Wis. Sheet trimmer. 2,327,223; Aug. 17.
Silver, Leah, administratrix. (See Silver, Charles.)
Simplex Time Recorder Co. (See Deane, H. N., and Dell, assignors.)
Singer Manufacturing Company. The. (See Fuge, Harry B., assignor.)
Slater, John H., New York, N. Y. Shoe construction. 2,327,322; Aug. 17.
Smith, Edwin W., Beverly, Mass., assignor to United Shoe Machinery Company, Flemington, N. J. Edge setting machine. 2,326,891; Aug. 17.
Smith, Edwin W., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Burnishing machine. 2,326,895; Aug. 17.
Smith, Howard, Company. (See Wilson, Hillsman D., assignor.)
Smith, Ralph, Jr., Trail, British Columbia, Canada. Soldering iron holder and circuit control. 2.327,073; Aug. 17.
Smith, Roy M., Livingston, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Protective relay system. 2,327,292; Aug. 17.
Snyder, Floyd C., Akron, Ohio. Chuck. 2,327,074; Aug. 17.
Socony-Vacuum Oil Company. (See Fuller, E. W., and Hamilton, assignors.)
Sollinger, Ferdinand P. (See Browne, K. A., and Sollinger.)
Sontone Corporation. (See Shapiro, Harry B., assignor.)
Spang, Joseph P., Quincy, assignor to Cube Steak Machine Co., Boston, Mass. Poultry dressing machine. 2,327,224; Aug. 17.
Speirs, Richard J., Cameron, Wis., assignor to Abbotts Dairies, Inc., Philadelphia, Pa. Chilling and packing cream. 2,327,140; Aug. 17.
Spencer, James A., Teaneck, N. J., assignor to Radio Corporation of America. Signal storage in telegraph printer systems. 2,327,075; Aug. 17.
Spencer Lens Company. (See Gary, C. L., and Harper, assignors.)
Spencer, Lloyd, assignor to Lane-Wells Company, Los Angeles, Calif. Gun perforator. 2,327,141; Aug. 17.
Sperry Gyroscope Company. (See Carter, Leslie F., assignor.)
Sperry Gyroscope Company. (See Lane, Arthur W., assignor.)
Sperti, George, Covington, Ky., assignor to Science Laboratories, Inc., Norwood, Ohio. Sterilization or treatment apparatus. 2,327,142; Aug. 17.
Sprague, Howard M. (See Sprague, Roy E. and H. M.)
Sprague, Roy E. and H. M., Joliet, Ill. Manufacture of insulating material. 2,326,896; Aug. 17.
Stadtler, Paul, assignor to Neversag Products, Inc., Flushing, N. Y. Upholstering furniture. 2,327,143; Aug. 17.
Stahlecker, Wilhelm, Stuttgart-Bad Cannstatt, Germany; vested in the Alien Property Custodian. Guiding arrangement for top rolls. 2,326,979; Aug. 17.
Stam, Orville, assignor to Stam-O-Lite, Inc., Chicago, Ill. Light control device. 2,327,144; Aug. 17.
Stam-O-Lite, Inc. (See Stam, Orville, assignor.)
Standard Oil Company. (See Conn, Arthur L., assignor.)
Standard Stoker Company, The. (See Martin, Eugene, assignor.)
Stangl, Johann M., assignor to Fulper Pottery Company, Flemington, N. J. Glazed pottery. 2,327,076; Aug. 17.
Stanolind Oil & Gas Company. (See Hill, Earl S., assignor.)
Steiner, Otto, Berlin-Spandau, Germany; vested in the Alien Property Custodian. Cinematograph camera provided with a magazine. 2,326,980; Aug. 17.
Stenberg, Ida C., Minneapolis, Minn. Heat shield. 2,326,981; Aug. 17.
Stewart-Warner Corporation. (See Beretish, William H., assignor.)
Stewart-Warner Corporation. (See Davis, Ernest W., assignor.)
Stewart-Warner Corporation. (See Schweisthal, Frederick G., assignor.)
Stowe, Rolland M., assignor to Corry Metal Corporation, Corry, Pa. Metal sash structure. 2,326,897; Aug. 17.
Striker, Michael S., et al. (See Eddy, Arnold, assignor.)
Sturgess Inc. (See Cushman, Everett B., assignor.)
Sturtevant, B. F., Company. (See Lincoln, Roland L., assignor.)
Summers, Albert E., Riverside, and J. H. Tomlin, La Grange, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Assembling apparatus. 2,326,982; Aug. 17.
Superba Manufacturing Co. (See Balk, David, assignor.)
Superba Manufacturing Co. (See Balk, D., Katz, and Majoros, assignors.)
Symington-Gould Corporation, The. (See Barrows, D. S., and Lake, assignors.)
Sway, Henry, Cincinnati, Ohio. Scaffolding and apparatus therefor. 2,326,983; Aug. 17.
Tack, Carl E., assignor to American Steel Foundries, Chicago, Ill. Brake arrangement. 2,327,157; Aug. 17.
Takiff, Jack. (See Newcomer, E. G., and Takiff.)
Tapp, Theodore C. (See Heath, Albert R. N.)
Tartaron, Francis X., Mulberry, Fla., assignor, by mesne assignments, to Minerals Separation North American Corporation, New York, N. Y. Concentration of kyanite. 2,326,807; Aug. 17.
Taylor, Charles H., Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Suction cleaning apparatus. 2,327,225; Aug. 17.
Taylor Instrument Companies. (See Hartman, Elmer C., assignor.)
Taylor, William H., Waukesha County, assignor to The Vilter Manufacturing Company, Milwaukee, Wis. Snow ice feeder and distributor. 2,327,226; Aug. 17.
Teeters, Wilber O., Roselle, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Water-treating agents. 2,327,323; Aug. 17.
Teetor, Herman, Hagerstown, Ind. Beverage serving device. 2,327,077; Aug. 17.
Teetor, Herman, Hagerstown, Ind. Beverage set. 2,327,078; Aug. 17.
Terr, Joseph, Chicago, Ill. Electric lighting fixture and the like. 2,326,898; Aug. 17.
Texas Company, The. (See Eastman, Du Bois, assignor.)
Texas Company, The. (See MacKnight, John D., assignor.)
Thinius, Kurt, Eilenburg, Germany; vested in the Alien Property Custodian. Manufacture of foils and tubes. 2,326,899; Aug. 17.
Thomas, Albert R., Evansville, Ind., assignor to Servel, Inc., New York, N. Y. Refrigeration. 2,326,900; Aug. 17.
Thomas, David T. (See Worthington, George Y., III, and Thomas.)
Thomason, Hugh de W., Tulsa, Okla. Pump. 2,326,902; Aug. 17.
Thompson, John S., assignor to Parker Rust Proof Company, Detroit, Mich. Coated article and making the same. 2,327,002; Aug. 17.
Thompson, Theodore F., Des Moines, Iowa. Hot air engine. 2,326,901; Aug. 17.
Timken-Detroit Axle Company, The. (See Buckendale, Lawrence R., assignor.)
Timken Roller Bearing Company, The. (See Buckwalter, Tracy V., assignor.)
Tinnerman, George A., assignor to Tinnerman Products, Inc., Cleveland, Ohio. Instrument mounting and fastener therefor. 2,326,903; Aug. 17.
Tinnerman Products, Inc. (See Tinnerman, George A., assignor.)
Tomlin, Andrew, Hudson, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Thiuram sulphides. 2,326,984; Aug. 17.
Tomlin, James H. (See Summers, A. E., and Tomlin.)
Trico Products Corporation. (See Rappl, Anton, assignor.)
Trijex Corporation. (See McCoon, Paul L., assignor.)
Trimbach, Clem G., Eggertsville, N. Y., assignor to Curtiss-Wright Corporation. Aircraft gun mount. 2,326,904; Aug. 17.
Triplett Electrical Instrument Co., The. (See Lingel, Frederick J., assignor.)

Tucker, Warren R., Dayton, Ohio, assignor to The Hydraulic Development Corp., Inc., Wilmington, Del. Injection molding machine. 2,327,227; Aug. 17.
Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Pneumatic thread holder for looms. 2,326,905; Aug. 17.
Turner, Robert S., Oklahoma City, Okla. Bus seat securing means. 2,327,003; Aug. 17.
Turski, Michael A., Buffalo, N. Y. Heated shoe press pad. 2,326,985; Aug. 17.
Twyman, L. Raymond, Bloomfield Township, Oakland County, assignor to Vickers Incorporated, Detroit, Mich. Sealing means. 2,327,293; Aug. 17.
Umlandt, William H., assignor to Automatic Button Company, Muscatine, Iowa. Machine for making lenses or the like. 2,327,228; Aug. 17.
Union Bank of Chicago. (See Cowles, Irving, assignor.)
Union Carbide and Carbon Corporation. (See Bucknam, Worthy C., assignor.)
Union Oil Company of California. (See Carr, D. E., and Ritchey, assignors.)
Union Oil Company of California. (See Flaxman, Marcellus T., assignor.)
Union Oil Company of California. (See Pollock, Ralph C., assignor.)
Union Switch & Signal Company, The. (See Bone, Herbert L., assignor.)
Union Switch and Signal Company, The. (See Cravath, Austin M., assignor.)
Union Switch & Signal Company, The. (See Witmer, Harold G., assignor.)
Union Switch & Signal Company, The. (See Young, Henry S., assignor.)
United-Carr Fastener Corporation. (See Churchill, Wilmer H., assignor.)
United-Carr Fastener Corporation. (See Maynard, Albert C., assignor.)
United-Carr Fastener Corporation. (See Murphy, Howard J., assignor.)
United-Carr Fastener Corporation. (See Newbold, Thomas, assignor.)
United-Carr Fastener Corporation. (See Pender, Lloyd G., assignor.)
United Shoe Machinery Corporation. (See Haas, Otto R., assignor.)
United Shoe Machinery Corporation. (See Hamann, William, assignor.)
United Shoe Machinery Corporation. (See Quinn, Edward, assignor.)
United Shoe Machinery Corporation. (See Ray, Eugene J., assignor.)
United Shoe Machinery Corporation. (See Richards, A. E., and Roberts, assignors.)
United Shoe Machinery Corporation. (See Smith, Edwin W., assignor.)
United Shoe Machinery Corporation. (See Watts, Raymond W., assignor.)
United States Gypsum Company. (See Allen, Horace D., assignor.)
United States Rubber Company. (See Linscott, C. E., and McGavack, assignors.)
Universal Oil Products Company. (See Ipatieff, V. N., and Haensel, assignors.)
Universal Oil Products Company. (See Ipatieff, V. N., and Pines, assignors.)
Universal Products Company. (See Huff, Lyman C., assignor.)
University National Bank, trustee. (See Frentzel, Wallmuth R., assignor.)
Van Gieson, Victor M., Albuquerque, N. Mex. Airship. 2,327,145; Aug. 17.
Van Tuyl, Thomas, and C. B. Hale, Chicago, Ill. Vehicle brake signal. 2,326,808; Aug. 17.
Vavrik, Louis, Rossford, and K. C. Atkin, assignors to The American Floor Surfacing Machine Company, Toledo, Ohio. Surface treating machine. 2,327,229; Aug. 17.
Vickers Incorporated. (See Twyman, L. Raymond, assignor.)
Vierling, Otto. (See Köber, F., Sauer, and Vierling.)
Vilter Manufacturing Company, The. (See Taylor, William H., assignor.)
Vinco Corporation. (See Osplack, Joseph J., assignor.)
von Fuchs, George H., and Hyman Diamond, Alton, Ill., assignors to Shell Development Company, San Francisco, Calif. Preparing lubricating oils. 2,327,158; Aug. 17.
Wacker, George W., Cincinnati, Ohio, assignor to The Grotelite Company, Bellevue, Ky. Extrusion molding. 2,327,079; Aug. 17.
Wadman, Walter V., Rochester, N. Y., and L. C. Hurd, Jenkintown, Pa., assignors of one-half to Eastman Kodak Company, Rochester, N. Y., and one-half to Röhm and Haas Company, Philadelphia, Pa. Liquid hardener solutions. 2,327,004; Aug. 17.
Waksman, Selman A., Highland Park, assignor of one-half to Merck & Co. Inc., Rahway, N. J., and one-half to Chas. Pfizer & Co., Inc., Brooklyn, N. Y. Production of fumaric acid. 2,326,986; Aug. 17.
Walker, Joseph F., Lewiston, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Polymerization of conjugated dienes. 2,327,080; Aug. 17.
Walker, Joseph F., Lewiston, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Polymerization of styrene. 2,327,082; Aug. 17.
Wallerstein Company. (See Pfannmuller, Julius, assignor.)
Walters, Robert M., Baltimore, Md., assignor to The Linde Air Products Company. Severing and removing rails and the like. 2,326,906; Aug. 17.
Walters, Roscoe E., Oklahoma City, Okla. Air purger. 2,327,081; Aug. 17.
Watts, Raymond W., Cape Girardeau, Mo., assignor to United Shoe Machinery Corporation, Flemington, N. J. Shoe sewing machine. 2,327,146; Aug. 17.
Weaver Manufacturing Company. (See Phelps, Clyde H., assignor.)
Weber, Edward H., assignor to The Miller Company, Meriden, Conn. Lighting fixture. 2,327,230; Aug. 17.
Weigand, Francis J. (See Pierce, E. F., and Weigand.)
Weinger, Irving, assignor to J. Widder & Co., New York, N. Y. Display album. 2,327,324; Aug. 17.
Weinheimer, Carl M., Kenmore, N. Y. Life preserver. 2,326,987; Aug. 17.
Weisner, Ralph H. (See Dalton, T. B., and Weisner.)
Wendt, Karl R., Audubon, N. J., assignor to Radio Corporation of America. Television system. 2,326,907; Aug. 16.
Westcott, Clifford H., Oak Park, assignor to J. H. Jacobson, Chicago, Ill. Split dowel bar with bearing and support. 2,327,231; Aug. 17.
Western Electric Company. (See Blount, H., and Lundeen, assignors.)
Western Electric Company. (See Bureau, A. A., and Price, assignors.)
Western Electric Company. (See Pash, Robert, assignor.)
Western Electric Company. (See Quinlan, Amos L., assignor.)
Western Electric Company. (See Raetsch, Bruno A., assignor.)
Western Electric Company. (See Summers, A. E., and Tomlin, assignors.)
Western Waterproofing Company. (See Donelson, W. W., and Ahearn, assignors.)
Westinghouse Air Brake Company, The. (See Aikman, Burton S., assignor.)
Westinghouse Air Brake Company, The. (See McCune, Joseph C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Brown, A. L., and Atkinson, assignors.)
Westinghouse Electric & Manufacturing Co. (See Derr, Willard A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Jenks, Harold C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Mierley, George M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Smith, Roy M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Taylor, Charles H., assignor.)
Weston Electrical Instrument Corporation. (See Wolferz, A. H., and Huber.)
West Virginia Pulp and Paper Company. (See Pollak, A., and Willingham, assignors.)
Wheeler, Harry C., Middletown, Ohio. Latch for awnings. 2,327,232; Aug. 17.
Wheeler, Preston M., Austin, Tex. Apparatus for and method of making X-ray photographs. 2,327,294; Aug. 17.
Whisler, Ralph H., Jr., assignor to Monroe Auto Equipment Company, Monroe, Mich. Double-acting velocity type shock absorber. 2,327,295; Aug. 17.
White, Arthur H. (See Reiber, Harry P., assignor.)
White, Arthur H. (See Reiber, Harry P. and J. B., assignors.)
White Cap Company. (See White, Philip O., assignor.)
White, Philip O., assignor to White Cap Company, Chicago, Ill. Closure and package. 2,326,809; Aug. 17.
Whitehead, Maurice. (See Prince, J., and Whitehead.)
Widder, J., & Co. (See Weinger, Irving, assignor.)
Wiggam, David R., West Grove, Pa., assignor to Hercules Powder Company, Wilmington, Del. Composition of matter. 2,326,810; Aug. 17.
Wiggam, David R., West Grove, Pa., and W. Koch, assignors to Hercules Powder Company, Wilmington, Del. Brush comprising plastic mass. 2,326,811; Aug. 17.
Wiggam, David R., West Grove, Pa., and W. Koch, assignors to Hercules Powder Company, Wilmington, Del. Injection molding powder. 2,326,812; Aug. 17.
Wiggins, John H., Chicago, Ill. Side wall seal for floating tank roofs. 2,327,083; Aug. 17.
Wiggins, John H., Chicago, Ill. Breather type storage apparatus for gases and volatile liquids. 2,327,084; Aug. 17.
Wiggins, John H., Chicago, Ill. Breather type tank. 2,327,085; Aug. 17.
Wildhaber, Ernest, Brighton, assignor to Gleason Works, Rochester, N. Y. Method of cutting gears, splined shafts, and the like. 2,327,296; Aug. 17.
Wilfert, Karl. (See Barenyi, B., and Wilfert.)
Williams, Edward B., Jr., Greenville, Tex. Drill bit. 2,326,908; Aug. 17.
Willingham, Thomas A. (See Pollak, A., and Willingham.)

Wilson, Harry, Fort Benning, Ga. Multiple launching of parachute borne equipment containers from aircraft. 2,326,813; Aug. 17.

Wilson, Hillsman D., assignor to Howard Smith Company, Houston, Tex. Gate valve. 2,326,988; Aug. 17.

Windfields, Limited. (See Duffield, William A., assignor.)

Wingfoot Corporation. (See Calvert, William C., assignor.)

Witmer, Harold G., Edgewood, assignor to The Union Switch & Signal Company, Swissvale, Pa. Circuit controlling instrument. 2,326,989; Aug. 17.

Wobbe, Delbert E., River Forest, Ill., assignor to American Can Company, New York, N. Y. Preparing black plate for can manufacture. 2,326,814; Aug. 17.

Wobbe, Delbert E., River Forest, Ill., assignor to American Can Company, New York, N. Y. Making can bodies. 2,326,815; Aug. 17.

Wolf, Charles, Portland, Oreg. Timber saw. 2,327,233; Aug. 17.

Wolfers, Alfred H., and P. P. Huber, Hillside, N. J., assignor to Weston Electrical Instrument Corporation, Newark, N. J. Ammeter. 2,326,909; Aug. 17.

Wolff, Ernest P. (See Wolff, Esther T. and E. P.)

Wolff, Esther T., Chicago, Ill., and E. P. Wolff, Curacao, Netherlands, West Indies. Puppet show. 2,327,234; Aug. 17.

Woodberry, John H., Metuchen, N. J. Cartridge feeder and orienter. 2,326,816; Aug. 17.

Woodruff, Francis J., assignor of one-half to J. T. Gilmer, Detroit, Mich. Drift. 2,327,297; Aug. 17.

Woodson, Omer L., Eggertsville, assignor to Bell Aircraft Corporation, Buffalo, N. Y. Hydraulic tube beader. 2,326,990; Aug. 17.

Worrell, Ella D. (See Crowder, Alfred G., assignor.)

Worthington, George Y., III, Washington, D. C., and D. T. Thomas, Takoma Park, Md. Anchoring device for awnings. 2,327,147; Aug. 17.

Wright Aeronautical Corporation. (See Browne, K. A., and Sollinger, assignors.)

Wright Aeronautical Corporation. (See Hunter, D. U., Moore, Modrovsky, assignors.)

Wright Aeronautical Corporation. (See Kincaid, Frank M., Jr., assignor.)

Wright Aeronautical Corporation. (See Pierce, E. F., and Weigand, assignors.)

Wurlitzer, Rudolph, Company, The. (See Osborne, Fred H., assignor.)

Wyckoff, George G., Chicago, Ill. Door stopping and holding device. 2,327,298; Aug. 17.

Yablin, Allan D., Chicago, Ill. Making float balls. 2,327,299; Aug. 17.

Yates, George, Glendale, Calif. Sheet metal clamp. 2,327,148; Aug. 17.

Young, George W., Flushing, assignor to R. H. Macy & Co. Inc., New York, N. Y. Chair. 2,326,910; Aug. 17.

Young, Henry S., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway traffic controlling apparatus. 2,326,991; Aug. 17.

Young Berg, Carl E., Los Angeles, Calif. Automatic miniature enlarger. 2,327,086; Aug. 17.

Zalkind, Philip, New York, N. Y. Collapsible insulating casing. 2,326,817; Aug. 17.

Zavatkay, Frederick F., New Haven, Conn. Automatic safety rail clamp. 2,327,325; Aug. 17.

Zettergren, Fritz, New Haven, Conn. Wire drawing block. 2,327,149; Aug. 17.

Zylo Ware Corporation. (See Rey, Stephen, assignor.)

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 17TH DAY OF AUGUST, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Antenna system. L. A. Gebhard and R. B. Meyer. Re. 22,365; Aug. 17.

Gauging apparatus for liquid containers. J. H. Wiggins. Re. 22,367; Aug. 17.

Valve for milking machines. J. R. Lowry. Re. 22,366; Aug. 17.

LIST OF DESIGN INVENTIONS

Ash receiver and cigarette holder, Combined. M. Levine. 136,186; Aug. 17.

Bandanna. A. C. Radebaugh. 136,164; Aug. 17.

Bottle and stand therefor, Combined perfume. A. R. Botham. 136,184; Aug. 17.

Bracket, Combined shade and curtain. I. Ilieff. 136,161; Aug. 17.

Button or similar article. F. B. Allen. 136,175; Aug. 17.

Carrier, Container. L. M. Reams. 136,189; Aug. 17.

Chair, Swivel. C. B. Fletcher and P. J. Nordby. 136,160; Aug. 17.

Doll. B. E. Marek. 136,163; Aug. 17.

Doll or similar article. J. Rubin. 136,167; Aug. 17.

Dress. B. Cashin. 136,191–2; Aug. 17.

Dress. B. Cashin. 136,195–7; Aug. 17.

Dress. J. Smith. 136,193; Aug. 17.

Dress. J. Smith. 136,198–9; Aug. 17.

Figure or similar article, Fanciful. W. G. Taube. 136,183; Aug. 17.

Frame or the like, Spectacle. H. M. Ditto. 136,178; Aug. 17.

Frame, Picture. W. P. Cameron. 136,176; Aug. 17.

Garment or the like, Bathing. M. W. Keith. 136,185; Aug. 17.

Golf club head. T. P. Duncan, Jr. 136,159; Aug. 17.

Gun, Spray. W. M. Vogel. 136,172; Aug. 17.

Handbag. J. Resnick. 136,166; Aug. 17.

Horse, Rocking. H. J. Meyer. 136,181; Aug. 17.

Insole and cover, Combined shoe. M. Kane. 136,180; Aug. 17.

Knife or similar article, Bread. L. J. Oliver. 136,182; Aug. 17.

Map. P. von Rohl. 136,173; Aug. 17.

Pan, Baking. D. Crane. 136,177; Aug. 17.

Plug, Electrical connector. T. M. Urell. 136,190; Aug. 17.

Propeller, Fan. B. Lee. 136,162; Aug. 17.

Rack for belts or the like, Display. W. L. Burkhard. 136,158; Aug. 17.

Relay. L. E. Massie. 136,187; Aug. 17.

Rocker, Child's collapsible. W. R. Reach. 136,165; Aug. 17.

Shaker for salt and pepper. G. D. Adams. 136,174; Aug. 17.

Stamp vending device or similar article, Defense. C. A. Byrnes. 136,194; Aug. 17.

Tool, Driving. G. M. Graham. 136,179; Aug. 17.

Trimming or the like, Embroidered. H. Tobler. 136,168–71; Aug. 17.

Wrench and pliers, Combined. W. R. Payne. 136,188; Aug. 17.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 17TH DAY OF AUGUST, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrasive article and manufacturing the same. N. P. Robie. 2,327,218; Aug. 17.
Acceleration pump. H. A. Boller. 2,327,300; Aug. 17.
Accessory fastening for marine vessels. B. F. Kehrer. 2,327,273; Aug. 17.
Acoustic material. D. D. Crandell. 2,326,763; Aug. 17.
Acid, Production of fumaric. S. A. Waksman. 2,326,986; Aug. 17.
Acids, Making amino. E. L. Martin. 2,327,119; Aug. 17.
Adhesive tape dispenser. A. A. Anderson. 2,326,917; Aug. 17.
Aerial propeller, Variable pitch. M. Levine. 2,327,274; Aug. 17.
Agent and making same, New water-repellent. A. W. Baldwin and M. A. T. Rogers. 2,327,162; Aug. 17.
Agricultural implement. W. H. Lingle. 2,327,198; Aug. 17.
Aiding device for blind persons. W. O. Sell. 2,327,222; Aug. 17.
Air compressor. S. E. Jessup. 2,327,269; Aug. 17.
Air conditioner. C. A. Bolcom. 2,327,242; Aug. 17.
Air outlet device. F. Honerkamp and F. J. Kurth. 2,326,858; Aug. 17.
Air purger. R. E. Walters. 2,327,081; Aug. 17.
Aircraft control device. B. G. Carlson. 2,327,171; Aug. 17.
Aircraft engine mounting. C. I. Preston. 2,327,062; Aug. 17.
Aircraft gun mount. C. G. Trimbach. 2,326,904; Aug. 17.
Aircraft heating apparatus. H. J. De N. McCollum. 2,327,202; Aug. 17.
Airplane. D. R. Berlin. 2,326,819; Aug. 17.
Airship. V. M. Van Gieson. 2,327,145; Aug. 17.
Alloy steel particle and producing the same. O. M. Otte. 2,327,209; Aug. 17.
Alternating current generator. C. A. Lovell. 2,327,276; Aug. 17.
Alternating current generator. C. A. Lovell, R. F. Mallina, and D. B. Parkinson. 2,327,277; Aug. 17.
Altitude-controlled regulator. W. C. Bucknam. 2,326,825; Aug. 17.
Ammeter. A. H. Wolferz and P. P. Huber. 2,326,909; Aug. 17.
Amplifier, Hearing aid. H. B. Shapiro. 2,327,321; Aug. 17.
Amplifying hearing aid. H. B. Shapiro. 2,327,320; Aug. 17.
Anchoring device for awnings. G. Y. Worthington, III, and D. T. Thomas. 2,327,147; Aug. 17.
Angle drive transmission. D. U. Hunter, V. T. Moore, and J. Modrovsky. 2,326,860; Aug. 17.
Annular article. R. Pash. 2,327,211; Aug. 17.
Antenna, Radio. E. L. Barrett. 2,327,163; Aug. 17.
Apparatus and method of stringing tobacco. W. F. Dickerson. 2,327,252; Aug. 17.
Apparatus for and method of making X-ray photographs. P. M. Wheeler. 2,327,294; Aug. 17.
Apparatus for cementing wells. J. W. Botkin. 2,327,092; Aug. 17.
Apparatus for cleaning ships' bottoms. J. G. Bright. 2,327,012; Aug. 17.
Apparatus for forming bags. T. B. Dalton and R. H. Weisner. 2,326,931; Aug. 17.
Apparatus for forming cast-in-place concrete piles. W. R. Marsden. 2,326,872; Aug. 17.
Apparatus for installing protectors on drill pipe. B. H. Barnes and B. S. Minor. 2,327,088; Aug. 17.
Apparatus for loading logs. H. Carlson. 2,327,015; Aug. 17.
Apparatus for making insulating material. K. W. and C. G. Schulz. 2,326,889; Aug. 17.
Apparatus for molding granular cork material and other material into annular rings, collars, and other hollow shapes. G. G. Berger. 2,327,241; Aug. 17.
Apparatus for preventing the accumulation of ice. W. C. Geer. 2,327,034; Aug. 17.
Apparatus for removing samples from flowing streams. G. O. Kimmell. 2,327,111; Aug. 17.
Apparatus for sorting samples. J. Dichter. 2,327,179; Aug. 17.
Apparatus for the continuous galvanizing of pipe and the like. P. C. Ely. 2,326,843; Aug. 17.
Apparatus for the manufacture of artificial sausage skins. A. Bergmann. 2,326,920; Aug. 17.
Apparatus for treating wells. O. W. Lyons and J. H. Adkison. 2,327,051; Aug. 17.
Applicator, Ultra violet ray. O. H. Floyd. 2,326,773; Aug. 17.
Article handling device. B. A. Raetsch. 2,327,126; Aug. 17.
Artificial horizon. L. F. Carter. 2,326,835; Aug. 17.
Ash tray and safety means, Combined. N. Gerner. 2,327,036; Aug. 17.
Asphalt, Producing. D. E. Carr and H. W. Ritchey. 2,327,247; Aug. 17.
Assembling apparatus. A. E. Summers and J. H. Tomlin. 2,326,982; Aug. 17.
Assembly apparatus. A. E. Rylander. 2,327,068; Aug. 17.
Attaching means for separable fastener installations. T. Newbold. 2,327,330; Aug. 17.
Attachment for ladders. F. D. Randall. 2,327,317; Aug. 17.
Automatic adhesive tape dispenser. A. A. Anderson. 2,326,915–16; Aug. 17.
Automatic control of tuning and band width. H. Boucke. 2,327,244; Aug. 17.
Automatic miniature enlarger. C. E. Young Berg. 2,327,086; Aug. 17.
Automatic safety rail clamp. F. F. Zavatkay. 2,327,325; Aug. 17.
Automatic shutoff valve. M. McMahon. 2,327,055; Aug. 17.
Automobile body construction. R. E. Marine. 2,326,789; Aug. 17.
Axle, Multispeed drive. L. R. Buckendale. 2,326,751–5; Aug. 17.
Baler, Combine. S. Russell. 2,327,067; Aug. 17.
Balling machine and belt, Mass. E. W. Bridge. 2,327,245; Aug. 17.
Balls, Making float. A. D. Yablin. 2,327,299; Aug. 17.
Bandage. L. Hochman. 2,326,997; Aug. 17.
Barge, Submersible. J. D. MacKnight. 2,327,118; Aug. 17.
Barometer, Mercurial. J. B. Peterson. 2,326,797; Aug. 17.
Barrel lifting means. L. L. Babcock and J. O. Bishop. 2,327,005; Aug. 17.
Basin unit. L. Andersen. 2,326,914; Aug. 17.
Beans, De-husking carob. L. A. Lantz and W. Roman. 2,326,868; Aug. 17.
Bearing for motors and the like, Lubricated. J. Delmonte. 2,327,098; Aug. 17.
Beverage serving device. H. Teetor. 2,327,077; Aug. 17.
Beverage set. H. Teetor. 2,327,078; Aug. 17.
Bias cutting machine. D. Balk. 2,326,745; Aug. 17.
Bias cutting machinery. D. Balk, J. Katz, and F. P. Majoros. 2,326,746; Aug. 17.
Bifocals, Detachable. A. I. Lorig. 2,326,787; Aug. 17.
Billet notcher. W. F. Jones, Jr., and A. Meller. 2,327,110; Aug. 17.
Bit: *See*—
  Drill bit.
Bit for lifting tongs. F. Meier. 2,326,962; Aug. 17.
Black plate for can manufacturing, Preparing. D. E. Wobbe. 2,326,814; Aug. 17.
Blanket. J. M. Iurie. 2,327,278; Aug. 17.
Block: *See*—
  Terminal block.
  Wire drawing block.
Board: *See*—
  Game board.
  Trimming board.
Body, Filter. A. M. Goodloe. 2,327,184; Aug. 17.
Boiler, Marine. J. P. Badenhausen. 2,327,161; Aug. 17.
Box. J. F. Cleary. 2,327,095; Aug. 17.
Box and connection, Journal. R. B. Cottrell. 2,327,151; Aug. 17.
Brake. C. L. Eksergian. 2,326,995; Aug. 17.
Brake arrangement. C. E. Tack. 2,327,157; Aug. 17.
Brake mechanism. J. C. McCune. 2,326,960–1; Aug. 17.
Breather type tank. J. H. Wiggins. 2,327,085; Aug. 17.
Broadcast facsimile transmission. M. Artzt. 2,326,740; Aug. 17.
Brush. S. P. Neuhausen. 2,326,879; Aug. 17.
Brush comprising plastic mass. D. R. Wiggam and W. Koch. 2,326,811; Aug. 17.
Buckle. G. J. Gilmore. 2,327,102; Aug. 17.
Buckle and tape assembly machine. J. Shaulson. 2,327,291; Aug. 17.
Building construction panel. R. F. Herr. 2,327,265; Aug. 17.
Burnishing machine. E. W. Smith. 2,326,895; Aug. 17.
Bus seat securing means. R. S. Turner. 2,327,003; Aug. 17.
Cable tension regulator. E. B. Cushman. 2,327,021; Aug. 17.
Cam bodies, Making. D. E. Wobbe. 2,326,815; Aug. 17.

Camera construction, Roll holding. L. W. Lessler. 2,326,870; Aug. 17.
Capper, Bottle. G. W. Hall. 2,327,262; Aug. 17.
Car construction. S. B. Haseltine. 2,327,038; Aug. 17.
Carbon compounds, Production of oxygenated. O. Roelen. 2,327,066; Aug. 17.
Carbon-steel alternating-current conductor. F. F. Fowle. and F. M. Crapo. 2,327,256; Aug. 17.
Carbonaceous materials, Conversion of combustible. M. Pier and G. Free. 2,326,799; Aug. 17.
Carbonaceous substances, Carrying out reactions with. M. Pier, W. V. Fuener, and G. Free 2,326,800; Aug. 17.
Card, Repair and sales record. S. A. Grafsland. 2,326,939; Aug. 17.
Carrier for hay balers, Bale. C. W. Hendrickson. 2,327,264; Aug. 17.
Carton. G. F. Courson. 2,326,928; Aug. 17.
Carton. A. B. Kner. 2,327,049; Aug. 17.
Carton construction. E. C. Scott. 2,327,156; Aug. 17.
Case: *See*—
  Cigarette case.
Casement window. D. Heaney. 2,326,856; Aug. 17.
Catalyst control in hydrocarbon conversion. A. L. Conn. 2,327,175; Aug. 17.
Chair. G. W. Young. 2,326,910; Aug. 17.
Change gearing, Automatic speed. W. A. Duffield. 2,326,994; Aug. 17.
Change speed transmission and control mechanism therefor. G. T. Randol. 2,327,063; Aug. 17.
Chemical compounds and preparing the same. J. Pikl. 2,327,213; Aug. 17.
Chemical process and product. R. J. Kepfer. 2,326,950; Aug. 17.
Chocolate, Making. J. F. McCashen. 2,327,281; Aug. 17.
Cholersterol conversion products containing sulphur, Producing. H. Fiedler, K. Heimig, and H. Liesegang. 2,326,936; Aug. 17.
Chuck. F. C. Snyder. 2,327,074; Aug. 17.
Cigarette case. P. L. McCoon. 2,327,120; Aug. 17.
Cinder collector. R. L. Lincoln. 2,327,197; Aug. 17.
Cinematograph camera provided with a magazine. O. Steiner. 2,326,980; Aug. 17.
Circuit closer, Fluid actuated. W. W. Mays. 2,327,054; Aug. 17.
Circuit controlling instrument. H. G. Witmer. 2,326,989; Aug. 17.
Circuit selector, Time-controlled. A. G. Crowder. 2,326,930; Aug. 17.
Clamp: *See*—
  Automatic safety rail clamp.
  Outlet box clamp.
  sheet metal clamp.
Clamp for guy wires and the like. K. C. Jenne. 2,327,307; Aug. 17.
Clamp joint. F. M. Kincaid, Jr. 2,326,866; Aug. 17.
Cleaner: *See*—
  Vacuum cleaner.
Cleaning composition and its use. T. J. Coleman. 2,326,837; Aug. 17.
Clock mechanism. H. K. Sandell. 2,327,319; Aug. 17.
Closure. M. L. Rathbun. 2,326,886; Aug. 17.
Closure and package. P. O'C. White. 2,326,809; Aug. 17.
Closure for building constructions. N. Michelman. 2,327,315; Aug. 17.
Clutch and control means therefor, Driving. S. I. Cory. 2,327,176; Aug. 17.
Clutch control mechanism. E. G. Hill. 2,326,943; Aug. 17.
Coach, Combined day and night. M. Rosin. 2,326,972; Aug. 17.
Coated article and making the same. J. S. Thompson. 2,327,002; Aug. 17.
Coin controlled device. F. H. Osborne. 2,327,154; Aug. 17.
Compensator for automatic scales. H. F. Briggs. 2,327,093; Aug. 17.
Composition of matter. D. R. Wiggam. 2,326,810; Aug. 17.
Concealment device. W. H. Bucknell. 2,327,168–9; Aug. 17.
Concentration of kyanite. F. X. Tartaron. 2,326,807; Aug. 17.
Conduit and coupling therefor, Metallic. I. Cowles. 2,326,929; Aug. 17.
Container: *See*—
  Cylindrical powder container.
  Shipping container.
Container. R. W. Eidson. 2,326,771; Aug. 17.
Control device. A. N. Ayers. 2,327,159; Aug. 17.
Control device. A. B. Newton. 2,327,208; Aug. 17.
Control mechanism. F. J. Sigmund and W. S. Hlavin. 2,326,804; Aug. 17.
Control of fuel injection engines. A. F. Sanders. 2,326,888; Aug. 17.
Control station. E. J. Panish. 2,326,796; Aug. 17.
Control system. J. A. Deubel and W. R. Miller. 2,326,767; Aug. 17.
Controller, Time cycle. J. B. McGay. 2,327,121; Aug. 17.
Cooker and gas exhaust, Combination. J. C. Schell. 2,326,975; Aug. 17.
Coring apparatus. P. T. Bynum. 2,326,827; Aug. 17.
Corrosion, Preventing. R. Pomeroy. 2,326,968; Aug. 17.
Cotton wadding and product thereof, Treating. G. A. Cruickshank. 2,327,250; Aug. 17.
Coupling: *See*—
  Elastic coupling.
Cream, Chilling and packing. R. J. Speirs. 2,327,140; Aug. 17.
Crowd and retract mechanism. B. S. Ferguson. 2,326,935; Aug. 17.
Crusher. R. E. Browning. 2,326,750; Aug. 17.
Cushion, Steel chair. J. L. Frei. 2,326,937; Aug. 17.
Cutter and clamp for looms, Thread. G. A. Irons. 2,326,862; Aug. 17.
Cutter for looms, Thread. V. H. Jennings. 2,326,863; Aug. 17.
Cutter guiding means. H. Bieler. 2,326,922; Aug. 17.
Cutting machine. J. F. McCashen. 2,327,280; Aug. 17.
Cylindrical grinding machine. C. G. Flygare and S. S. Mader. 2,327,255; Aug. 17.
Cylindrical powder container. A. E. Cullen. 2,326,839; Aug. 17.
Darning machine. E. G. Ahnström. 2,326,744; Aug. 17.
Dental instrument. O. G. McKenzie. 2,327,203; Aug. 17.
Device for counting the number of picks in a fabric. A. Eddy. 2,326,769; Aug. 17.
Device for removing corn from ears. J. B. Meek. 2,326,873; Aug. 17.
Device for shaping sheet metal. D. Cross. 2,327,177; Aug. 17.
Direction-finding system. K.-G. Holsten. 2,326,945; Aug. 17.
Discharger for pyrotechnic cartridges. J. L. Lochhead. and M. C. Benner. 2,326,786; Aug. 17.
Dispenser: *See*—
  Adhesive tape dispenser.
  Automatic adhesive tape dispenser.
Dispensing device. R. J. Gray. 2,326,851; Aug. 17.
Display album. I. Weinger. 2,327,324; Aug. 17.
Display device. J. M. Johnson. 2,327,270; Aug. 17.
Display device. D. Davis. 2,327,301; Aug. 17.
Distance measuring device. E. Norrman. 2,326,880; Aug. 17.
Door: *See*—
  Furnace door.
Door construction. N. Michelman. 2,327,316; Aug. 17.
Door lock. W. Schlage. 2,327,071; Aug. 17.
Door stopping and holding device. G. G. Wyckoff 2,327,298; Aug. 17.
Dowel bar with bearing and support, Split. C. H. Westcott. 2,327,231; Aug. 17.
Draft rigging. D. S. Barrows and A. H. Lake. 2,327,240; Aug. 17.
Dresser for grinders. L. M. Jones and H. E. Anderson. 2,327,272; Aug. 17.
Drier: *See*—
  Film drier.
Drift. F. J. Woodruff. 2,327,297; Aug. 17.
Drill bit. E. B. Williams. 2,326,908; Aug. 17.
Drinking attachment for beverage cans. C. O. Bjork. 2,327,010; Aug. 17.
Dry-cleaning composition. L. H. Flett. 2,326,772; Aug. 17.
Dry-cleaning composition. L. H. Flett. 2,327,182–3; Aug. 17.
Drying process. E. C. Kirpatrick. 2,327,333; Aug. 17.
Edge setting machine. W. Hamann. 2,326,892; Aug. 17.
Edge setting machine. E. J. Ray. 2,326,893; Aug. 17.
Edge setting machine. E. W. Smith. 2,326,891; Aug. 17.
Elastic coupling. F. Schmidt. 2,326,976; Aug. 17.
Electric discharge apparatus. H. C. Jenks. 2,327,268; Aug. 17.
Electric lighting fixture and the like. J. Terr. 2,326,898; Aug. 17.
Electric snap switch. C. P. Clare. 2,326,760; Aug. 17.
Electric snap switch. G. J. Meuer. 2,326,874; Aug. 17.
Electric wave system. L. G. Abraham, P. G. Edwards, and R. D. Fracassi. 2,326,742; Aug. 17.
Electric welding. H. E. Kennedy. 2,326,865; Aug. 17.
Electrical measuring instrument. F. J. Lingel. 2,327,114; Aug. 17.
Electrode holder. W. Rice. 2,327,290; Aug. 17.
Electron discharge apparatus. G. E. Mueller. 2,326,877; Aug. 17.
Engine control, Internal combustion. H. W. Meade. 2,326,791; Aug. 17.
Erecting device for gyro-verticals. A. W. Lane. 2,326,784; Aug. 17.
Esters, Producing rosin. W. M. Billing. 2,327,009; Aug. 17.
Ethers, Production of hydroxy. K. E. Marple, E. C. Shokal, and T. W. Evans. 2,327,053; Aug. 17.
Evaporator, Spray. S. B. Heath. 2,327,039; Aug. 17.
Extracting device. H. A. Aaberg and J. W. Heward. 2,326,741; Aug. 17.
Extrusion molding. G. W. Wacker. 2,327,079; Aug. 17.

Fan. I. N. Pollingher. 2,327,061; Aug. 17.
Fastener: *See*—
Shiftable rotary operative fastener.
Fastener and fastener installation. H. J. Murphy. 2,327,329; Aug. 17.
Fastener device and installation of the same, Rotary operative. A. C. Maynard. 2,327,327; Aug. 17.
Fastener for trimming and like strips, Snap. H. J. Murphy. 2,327,328; Aug. 17.
Fastening device for group wiring and the like. W. H. Churchill. 2,327,326; Aug. 17.
Feeder and orienter, Cartridge. J. H. Woodberry. 2,326,816; Aug. 17.
Feeding device for billet heating devices. R. G. Le Tourneau. 2,326,953; Aug. 17.
Fence structure. R. Lundy. 2,327,311; Aug. 17.
Fiberboard carrying tray. A. A. Bureau and S. Price. 2,326,926; Aug. 17.
Fibers, Manufacture of staple. P. R. Austin. 2,327,087; Aug. 17.
Fibrous abrasive wad and producing same, Nonmetallic. C. R. Loeffler. 2,327,199; Aug. 17.
Filament mounting machine. J. Flaws, Jr. 2,327,033; Aug. 17.
Film holder. D. Heyer. 2,327,108; Aug. 17.
Film drier. F. C. Frey. 2,327,100; Aug. 17.
Filter: *See*—
Oil filter.
Filter and regulator and cutoff device, Combined fuel. J. G. Kosky, A. H. Brodbeck, and E. H. Kahler. 2,327,195; Aug. 17.
Filters, Manufacture of air. A. J. J. Poelman. 2,326,967; Aug. 17.
Finning. A. W. Gay. 2,327,259; Aug. 17.
Fire extinguisher construction. C. K. Huthsing. 2,326,861; Aug. 17.
Firearm lock. C. Parker. 2,327,334; Aug. 17.
Flagstaff and flag storage compartment, Combined. K. H. Nelson. 2,327,056; Aug. 17.
Flare indicator. F. F. Fisher and C. T. Heilborn. 2,327,254; Aug. 17.
Flooring. W. W. Donelson and R. L. Ahearn. 2,327,029; Aug. 17.
Fluid actuated tool. R. O. Allen. 2,326,735; Aug. 17.
Fluid pressure control mechanism. B. S. Aikman. 2,326,911; Aug. 17.
Fluid supply regulator. H. F. Bakewell. 2,327,006; Aug. 17.
Flying cutting device. K. W. Hallden. 2,327,106; Aug. 17.
Foil, Coated. E. L. Mack and E. H. Morse. 2,326,955; Aug. 17.
Foils and tubes, Manufacture of. K. Thinius. 2,326,899; Aug. 17.
Folder for filing diaphragm disks, Collecting. A. Becker. 2,326,919; Aug. 17.
Food-mixer support. H. B. Fuge. 2,326,996; Aug. 17.
Form for sizing garments, Cleaner's. W. R. Frentzel. 2,326,775; Aug. 17.
Framing structure and bracket support, Combined. F. Kautz. 2,326,783; Aug. 17.
Freight transfer mechanism. R. W. Scott. 2,327,135; Aug. 17.
Fuel from straight run and similar hydrocarbons, High grade motor. E. J. Houdry. 2,326,779; Aug. 17.
Fuel pressure switch. H. A. Satterlee. 2,327,069; Aug. 17.
Fumaric acid, Production of. J. H. Kane, A. Finlay, and P. F. Amann. 2,327,191; Aug. 17.
Furnace: *See*—
Ore furnace.
Furnace door. C. H. Russell. 2,327,130; Aug. 17.
Gain control. C. O. Mallinckrodt. 2,326,871; Aug. 17.
Galvanizing pipe and the like, Continuously. P. C. Ely. 2,326,844; Aug. 17.
Game and amusement apparatus, Combined. P. Kyska. 2,327,309; Aug. 17.
Game board. G. G. Mevi. 2,327,314; Aug. 17.
Game, Indoor. H. S. Hoover. 2,326,859; Aug. 17.
Garage door hanger. W. G. Deuring. 2,327,026; Aug. 17.
Garment, Foundation. F. N. Lewis. 2,327,310; Aug. 17.
Gas analyzer. C. H. Phelps. 2,326,884; Aug. 17.
Gas installation equipment. P. A. Anderson. 2,327,235; Aug. 17.
Gate valve. H. D. Wilson. 2,326,988; Aug. 17.
Gear: *See*—
Valve gear. Vehicle running gear.
Gear casing sealing device, Locomotive. G. M. Mierley. 2,327,205; Aug. 17.
Gears for wire fabric-making machines, Treating twister. W. W. De Lamatter. 2,327,097; Aug. 17.
Generator: *See*—
Alternating current generator.
Glider, Chair. A. Oslick. 2,327,286; Aug. 17.
Glue and gelatin, Extracting. D. P. Grettie. 2,327,185; Aug. 17.
Governor. H. P. Reiber. 2,327,216; Aug. 17.
Grading machine. A. G. B. Metcalf. 2,327,283; Aug. 17.
Gripping member for billet surfacing machines and the like. E. W. Haeckler and W. Moyle. 2,326,778; Aug. 17.
Guiding arrangement for top rolls. W. Stahlecker. 2,326,979; Aug. 17.
Gun-firing mechanism. B. P. Joyce. 2,327,047; Aug. 17.
Gun perforator. L. Spencer. 2,327,141; Aug. 17.
Halogenated olefins, Preparation of. O. W. Cass. 2,327,174; Aug. 17.
Hanger: *See*—
Garage door hanger.
Heat exchange material. L. O. Hill and L. W. Short. 2,326,041; Aug. 17.
Heat shield. I. C. Stenberg. 2,326,981; Aug. 17.
Heat-treating method. R. O. Day. 2,326,840; Aug. 17.
Heated shoe press pad. M. A. Turski. 2,326,985; Aug. 17.
Heel pad. M. Margolin. 2,326,790; Aug. 17.
Hides, skins and pelts, Treating. J. Pfannmuller. 2,326,798; Aug. 17.
Hitch for tractor drawn implements. H. M. Johnston. 2,327,308; Aug. 17.
Hob. J. C. Drader. 2,326,932; Aug. 17.
Holder: *See*—
Electric holder. Film holder.
Holder and circuit control, Soldering iron. R. Smith, Jr. 2,327,073; Aug. 17.
Holding means for test specimen. D. C. Scott. 2,327,139; Aug. 17.
Hot air engine. T. F. Thompson. 2,326,901; Aug. 17.
Hydraulic forging press. H. Lorant. 2,327,117; Aug. 17.
Hydraulic motor head lift. W. H. Beretish. 2,327,008; Aug. 17.
Hydraulic power transmission system. W. R. Boyle. 2,326,821; Aug. 17.
Hydraulic transmission. E. W. Baggott. 2,327,238; Aug. 17.
Hydraulic tube beader. O. L. Woodson. 2,326,990; Aug. 17.
Hydrocarbons, Conversion of. D. Eastman. 2,327,099; Aug. 17.
Hydrocarbons from gas mixtures which, besides hydrocarbons, contain carbon dioxide, Extraction of. P. M. Schuftan. 2,327,134; Aug. 17.
Hydrocarbons from well fluids, Recovery of distillate. E. S. Hill. 2,327,187; Aug. 17.
Hydrocarbons, Treatment of. V. N. Ipatieff and V. Haensel. 2,327,189; Aug. 17.
Ice feeder and distributor, Snow. W. H. Taylor. 2,327,226; Aug. 17.
Illuminating system, particularly for projection purposes. K. Rantsch. 2,326,970; Aug. 17.
Indicator: *See*—
Flare indicator.
Indicator. F. G. Schweisthal. 2,327,221; Aug. 17.
Induction type electricity integrating meter. J. Prince and M. Whitehead. 2,326,885; Aug. 17.
Infant exerciser. V. G. Eisel. 2,327,253; Aug. 17.
Inflation apparatus. W. H. Hunter. 2,327,046; Aug. 17.
Injection molding machine. W. R. Tucker. 2,327,227; Aug. 17.
Injector for steam generating irons. M. A. Schwartz. 2,326,890; Aug. 17.
Ink roll construction. J. Mehlman. 2,327,122; Aug. 17.
Insect catcher. H. R. Etzler. 2,326,845; Aug. 17.
Instrument for establishing points for drawings. E. J. O'Keefe. 2,327,058; Aug. 17.
Instrument mounting and fastener therefor. G. A. Tinnerman. 2,326,903; Aug. 17.
Insulating casing, Collapsible. P. Zalkind. 2,326,817; Aug. 17.
Insulating structure. T. S. Donnelly. 2,327,303; Aug. 17.
Internal combustion engine. E. Allstadt. 2,326,913; Aug. 17.
Jack: *See*—
Tripod jack.
Jig saw. H. R. Bartlett. 2,327,239; Aug. 17.
Joint: *See*—
Clamp joint.
Joint construction. A. Shatkin. 2,327,138; Aug. 17.
Joint for demountable steel structures. J. Heitner. 2,326,941; Aug. 17.
Ketones of the cyclopentano-polyhydro-phenanthrene series and a method of producing the same. A. Butenandt, H. H. Inhoffen, and H. Dannenbaum. 2,326,756; Aug. 17.
Keys to can ends, Attaching. B. Shmurak. 2,326,806; Aug. 17.
Lacquer. F. J. Bellac. 2,326,992; Aug. 17.
Latch for awnings. H. C. Wheeler. 2,327,232; Aug. 17.
Latex, Treating. C. E. Linscott and J. McGavack. 2,327,115; Aug. 17.
Leg, Artificial. G. A. Hinkle. 2,327,042; Aug. 17.
Leveling device for shuffleboard tables. P. Kotler. 2,327,050; Aug. 17.
Lever drag harrow. Flexible adjustable. V. Antal. 2,327,236; Aug. 17.
Lighting fixture. H. Rowland. 2,327,219; Aug. 17.
Lighting fixture. E. H. Weber. 2,327,230; Aug. 17.
Life preserver. C. M. Weinheimer. 2,326,987; Aug. 17.
Light: *See*—
Oven light.
Light control device. O. Stam. 2,327,144; Aug. 17.
Liquid dispensing device. F. W. Opitz. 2,327,285; Aug. 17.
Liquid feeding device. C. W. Morse. 2,327,124; Aug. 17.

Lock: *See*—
Door lock. Firearm lock.
Lock mechanism. J. H. Booth and J. I. Booth, 2,327,243; Aug. 17.
Lubricating oils, Preparing. G. H. von Fuchs and H. Diamond. 2,327,158; Aug. 17.
Luminaire. C. A. B. Halvorson. 2,327,186; Aug. 17.
Machine for cutting bread. H. J. Criner. 2,327,018; Aug. 17.
Machine for making lenses or the like. W. H. Umlandt. 2,327,228; Aug. 17.
Machine for stripping rubber from tread links or the like. C. O. Dohrenwend. 2,327,027; Aug. 17.
Machine tool. G. B. Hirsch. 2,327,109; Aug. 17.
Magnesium from halide fluxes, Recovery of. W. C. Newhams and C. E. Nelson. 2,327,153; Aug. 17.
Marker for cylindrical work. J. W. MacAnlis. 2,326,954; Aug. 17.
Material, Manufacture of insulating. R. E. and H. M. Sprague. 2,326,896; Aug. 17.
Material spreading device. G. O. Hoffstetter. 2,327,266; Aug. 17.
Materials, Treatment of artificial. H. Dreyfus. 2,326,842; Aug. 17.
Measuring and control apparatus. T. R. Harrison. 2,326,853; Aug. 17.
Mechanical compensator. W. C. Howard, Jr. 2,326,780; Aug. 17.
Metal forming apparatus. H. Blount and C. V. Lundeen. 2,327,091; Aug. 17.
Metal sash structure. R. M. Stowe. 2,326,897; Aug. 17.
Method and apparatus for dressing involute grinding wheel profiles. J. J. Osplack. 2,326,795; Aug. 17.
Method and apparatus for feeding cut tobacco. D. W. Molins and F. F. Ruau. 2,326,793; Aug. 17.
Method of and apparatus for producing pulp articles. M. P. and C. J. Chaplin. 2,326,758; Aug. 17.
Method of cutting gears, splined shafts and the like. E. Wildhaber. 2,327,296; Aug. 17.
Microphone, Hearing aid. H. B. Shapiro. 2,327,136–7; Aug. 17.
Mill: *See*—
Welding mill.
Milling machine. F. A. Hassman. 2,327,107; Aug. 17.
Molding powder, Injection. D. R. Wiggam and W. Koch. 2,326,812; Aug. 17.
Mounting: *See*—
Aircraft engine mounting. Ophthalmic mounting.
Mounting for neon tubes and the like. S. C. Miller. 2,326,792; Aug. 17.
Mower attachment, Lawn. A. Andrews. 2,326,739; Aug. 17.
Nailing machine. A. E. Richards and M. Roberts. 2,326,887; Aug. 17.
Needle. M. Nebel. 2,326,964; Aug. 17.
Nickel plating. R. Lind, W. J. Harshaw, and K. E. Long. 2,326,999; Aug. 17.
Odormeter. A. Pollak and T. A. Willingham. 2,327,060; Aug. 17.
Oil and demulsion, Spray. M. T. Flaxman. 2,327,152; Aug. 17.
Oil composition, Stabilized mineral. E. W. Fuller and L. A. Hamilton. 2,326,938; Aug. 17.
Oil filter. C. M. Bolser. 2,327,011; Aug. 17.
Oil seal. K. A. Browne and F. P. Sollinger. 2,326,824; Aug. 17.
Oil well tool. P. H. Granger. 2,326,940; Aug. 17.
Oils, Treating petroleum. W. E. Perdew. 2,326,882; Aug. 17.
Ophthalmic mounting. D. H. Fair. 2,326,846; Aug. 17.
Optical inspection device. C. L. Gary and K. W. Harper. 2,327,257; Aug. 17.
Optical system for taking stereoscopic photographs. F. Köber, H. Sauer, and O. Vierling. 2,326,951; Aug. 17.
Optical testing or measuring apparatus. R. E. Reason. 2,327,289; Aug. 17.
Ore furnace. W. B. Fulton. 2,327,101; Aug. 17.
Outlet box clamp. V. R. Despard. 2,326,841; Aug. 17.
Oven light. W. Lotter. 2,327,200; Aug. 17.
Package wrapper and method. G. D. Davidson, Jr., and T. J. Norman, Jr. 2,327,024; Aug. 17.
Packaging machine. S. R. Howard. 2,327,267; Aug. 17.
Pad: *See*—
Heated shoe press pad. Heel pad.
Paper sizing material. G. B. Fowler and D. K. Pattilloch. 2,326,849; Aug. 17.
Parachute borne equipment containers from aircraft, Multiple launching of. H. Wilson. 2,326,813; Aug. 17.
Paraffin, Treatment of. V. N. Ipatieff and H. Pines. 2,327,188; Aug. 17.
Parting material. R. M. Carson and R. R. Saeks. 2,327,173; Aug. 17.
Pastes from polymerized vinyl chloride, Production of. A. Renfrew and J. W. Davidson. 2,327,128; Aug. 17.
Pelleting carbon black. S. C. Carney. 2,327,016; Aug. 17.
Pest control. H. G. Guy. 2,327,105; Aug. 17.
Phenols, Separating alkyl. D. B. Luten, Jr., and A. De Benedicitis. 2,327,312; Aug. 17.
Phonograph needle and record protector. P. Catucci. 2,327,094; Aug. 17.
Photoelectric photometer. R. H. Muller. 2,326,878; Aug. 17.
Photography, Color. G. P. Grant, Jr. 2,327,304; Aug. 17.
Photosensitive material. D. D. Jacobus and J. R. Bose. 2,326,782; Aug. 17.
Piano, Violin. E. Silen. 2,327,072; Aug. 17.
Pick-counting device. A. Eddy. 2,326,768; Aug. 17.
Picture, Motion. G. J. Pal. 2,327,059; Aug. 17.
Picture receiving system. G. R. Clark. 2,326,836; Aug. 17.
Piezoelectric crystals, Mounting. S. A. Bokovoy. 2,326,923; Aug. 17.
Pipe lining apparatus. W. R. Brend. 2,326,822–3; Aug. 17.
Pitch propeller control mechanism, Variable. H. P. and J. B. Relber. 2,327,217; Aug. 17.
Plants, Cultivation of. P. C. McLemore. 2,327,204; Aug. 17.
Plastic traveler. W. M. Camp. 2,326,828–30; Aug. 17.
Plate, Face. W. R. Schlage. 2,327,070; Aug. 17.
Plate, Tread. C. D. Morton. 2,326,963; Aug. 17.
Plug: *See*—
Spark plug.
Plunger type electrical switch. R. Hetherington. 2,326,942; Aug. 17.
Pneumatic actuating mechanism for electrically operated typewriters. G. W. Carlson. 2,327,172; Aug. 17.
Pocket tool. M. Berg. 2,327,090; Aug. 17.
Polyamide. P. L. Salzberg. 2,327,131; Aug. 17.
Polyamides. D. J. Loder. 2,327,116; Aug. 17.
Polymerization of conjugated dienes. J. F. Walker. 2,327,080; Aug. 17.
Polymerized insulating compound. A. L. Brown and W. B. Atkinson. 2,326,748–9; Aug. 17.
Pore surfaced foam rubber and method. J. F. Schott. 2,327,001; Aug. 17.
Positive displacement pump for metering. D. Samiran. 2,326,803; Aug. 17.
Pottery, Glazed. J. M. Stangl. 2,327,076; Aug. 17.
Poultry dressing machine. J. P. Spang. 2,327,224; Aug. 17.
Pour spout, Detachable. A. J. Gramp. 2,327,258; Aug. 17.
Pouring lip for fluid containers. C. S. Packer. 2,326,881; Aug. 17.
Power transmission apparatus. V. Imperato. 2,326,948 Aug. 17.
Power transmission belt. C. B. Gudebrod. 2,327,104; Aug. 17.
Press: *See*—
Hydraulic forging press.
Presser foot. O. Balzano. 2,326,818; Aug. 17.
Printing machine. W. I. Gladfelter and C. C. H. Hauger. 2,326,850; Aug. 17.
Process and material for thickening latex and like materials. G. Mack. 2,326,956; Aug. 17.
Processing apparatus. L. A. McComb. 2,327,282; Aug. 17.
Propeller sailboat machine. J. Casiple. 2,326,757; Aug. 17.
Protective arrangement for high voltage systems. J. Jonas. 2,327,190; Aug. 17.
Protector: *See*—
Shirt protector.
Pump: *See*—
Acceleration pump.
Pump. H. De W. Thompson. 2,326,902; Aug. 17.
Pump for injection engines. R. Marais. 2,326,958; Aug. 17.
Puppet show. E. T. and E. P. Wolff. 2,327,234; Aug. 17.
Radio beam training device. A. H. Delareuelle and H. Price. 2,326,766; Aug. 17.
Railway braking apparatus. H. L. Bone. 2,326,924; Aug. 17.
Railway journal lubricator structure. J. J. Hennessy. 2,327,040; Aug. 17.
Railway traffic controlling apparatus. H. S. Young. 2,326,991; Aug. 17.
Ratio control, Compression. W. M. Allison. 2,326,912; Aug. 17.
Razor, Safety. B. H. Freedman. 2,326,774; Aug. 17.
Razor, Two-way safety. C. D. Fisher. 2,327,032; Aug. 17.
Reactor, Catalytic. L. C. Huff. 2,327,045; Aug. 17.
Receiver, Radio. E. F. Andrews. 2,326,737–8; Aug. 17.
Recorder with differentiated records, Tape time. H. N. Deane and J. A. Dell. 2,326,765; Aug. 17.
Refrigeration. A. R. Thomas. 2,326,900; Aug. 17.
Regulator: *See*—
Altitude-controlled regulator. Cable tension regulator. Fluid supply regulator.
Relay system, Protective. R. M. Smith. 2,327,292; Aug. 17.
Resilient bushing and making the same. A. S. Krotz. 2,327,113; Aug. 17.
Resinophoric compounds by action of ultraviolet light in conjunction with beta substituted naphthalene derivatives, Polymerizing unsaturated. D. E. Adelson and H. Dannenberg. 2,326,736; Aug. 17.
Resinous material. J. M. Schantz. 2,327,132; Aug. 17.
Resins and preparation thereof, Plasticized. F. A. Bent and F. G. Byrne. 2,327,007; Aug. 17.
Resistance unit. E. W. Davis 2,327,025; Aug. 17.
Retainers for antifriction bearings, Making. C. A. Baden. 2,327,237; Aug. 17.
Rivet. C. E. Hathorn. 2,326,855; Aug. 17.
Roller for printing. A. B. Guth. 2,326,777; Aug. 17.

Rosin and rosin esters, Polymerizing. J. N. Borglin. 2,327,165; Aug. 17.
Rotary device for positive fluid action. W. Bejeuhr. 2,327,089; Aug. 17.
Rubber from tread links or the like, Stripping. C. O. Dorrenwend. 2,327,028; Aug. 17.
Rubber hydrochloride sheets and wrapping articles therein, Making. W. C. Calvert. 2,327,170; Aug. 17.
Rubber materials, synthetics and plastics, Improving the grinding, mixing and refining of. V. Conrad. 2,326,927; Aug. 17.
Rubber, Vulcanization of. R. A. Mathes. 2,327,052; Aug. 17.
Safety attachment for car-coupler locks. S. L. Joiner. 2,327,271; Aug. 17.
Sampler and liquid feeding device, Automatic. C. W. Morse. 2,327,123; Aug. 17.
Sandblast carving. S. Chruma. 2,327,019; Aug. 17.
Saw, Carcass. F. B. Bratek and A. S. Hartanov. 2,327,167; Aug. 17.
Saw, Timber. C. Wolf. 2,327,233; Aug. 17.
Saws, Making metal cutting. L. F. Ronan. 2,327,129; Aug. 17.
Scaffolding and apparatus therefor. H. Sway. 2,326,983; Aug. 17.
Screw machine. J. H. Mansfield. 2,327,279; Aug. 17.
Screw thread mechanism. T. H. and W. H. Briggs. 2,327,013; Aug. 17.
Seal for floating tank roofs, Side wall. J. H. Wiggins. 2,327,083; Aug. 17.
Sealing means. L. R. Twyman. 2,327,293; Aug. 17.
Seam sealing compound. L. A. O'Leary. 2,326,966; Aug. 17.
Seat for automobiles, Auxiliary. F. D. Post. 2,327,288; Aug. 17.
Self-loading device for shaker conveyers. J. H. Holstein. 2,326,857; Aug. 17.
Sensitive relay mechanism. B. Cyr. 2,327,178; Aug. 17.
Severing and removing rails and the like. R. M. Walters. 2,326,906; Aug. 17.
Shaker conveyer. L. D. Hagenbook. 2,327,305; Aug. 17.
Shaper, Cigar bunch. S. Clausen. 2,327,020; Aug. 17.
Shaver, Manually operated dry. B. R. Nyhagen. 2,327,284; Aug. 17.
Sheet metal clamp. G. Yates. 2,327,148; Aug. 17.
Sheet pack, Spot carbon form. C. W. Potter. 2,327,215; Aug. 17.
Shelf unit, Adjustable. M. Keeshen. 2,326,864; Aug. 17.
Shiftable rotary operative fastener. L. G. Pender. 2,327,331; Aug. 17.
Shipping container. R. C. Hurrey and R. T. Adams. 2,326,947; Aug. 17.
Shirt protector. S. Lighter. 2,327,196; Aug. 17.
Shock absorber, Double-acting velocity type. R. H. Whisler, Jr. 2,327,295; Aug. 17.
Shoe. B. Gellman. 2,326,776; Aug. 17.
Shoe. J. Hirsch. 2,327,043; Aug. 17.
Shoe construction. J. H. Slater. 2,327,322; Aug. 17.
Shoe fitting device. E. J. Bliss. 2,326,820; Aug. 17.
Shoe sewing machine. E. Quinn. 2,327,125; Aug. 17.
Shoe sewing machine. R. W. Watts. 2,327,146; Aug. 17.
Shutter control mechanism for photographic printers. A. L. Mayer. 2,326,959; Aug. 17.
Side wall drilling and sampling tool. H. S. Danner. 2,327,023; Aug. 17.
Sifter. F. E. Collier. 2,326,762; Aug. 17.
Sifter, Flour. F. E. Collier. 2,326,761; Aug. 17.
Sign construction. L. J. Schneider. 2,326,977; Aug. 17.
Signal: *See*—
Traffic signal. Vehicle brake signal.
Signal storage in telegraph printer systems. J. A. Spencer. 2,327,075; Aug. 17.
Signaling system. B. F. Lewis. 2,327,275; Aug. 17.
Sinker for use with fishing tackle, Releasable. F. J. Miller. 2,326,876; Aug. 17.
Siphon and circulator for steam boilers, Combined. F. Le Blanc. 2,326,869; Aug. 17.
Ski. B. Robinson and W. E. Breuner. 2,326,802; Aug. 17.
Slacks and the like. E. G. Newcomer and J. Takiff. 2,327,207; Aug. 17.
Sleeve, Buffer stem. D. W. Gray and W. B. Rogers, Jr. 2,327,035; Aug. 17.
Snow removing mechanism. W. E. Klauer. 2,327,193; Aug. 17.
Soap composition. H. R. Dittmar. 2,327,302; Aug. 17.
Soap-containing safety razor. A. E. Keene. 2,327,192; Aug. 17.
Socket. C. R. Book. 2,327,164; Aug. 17.
Solubility of halogenated phenols in soap solutions, Increasing the. G. Endres. 2,326,933; Aug. 17.
Solutions, Liquid hardener. W. V. Wadman and L. C. Hurd. 2,327,004; Aug. 17.
Spark plug. G. F. Ruddies. 2,327,220; Aug. 17.
Spectacle hinge. S. Rey. 2,326,971; Aug. 17.
Speed ratio control apparatus. W. L. Pollard. 2,326,214; Aug. 17.
Steels, Deep-hardening silicon. W. Crafts. 2,326,838; Aug. 17.
Stem and mount construction. C. L. Fantur. 2,327,031; Aug. 17.
Steering mechanism for vehicles and tractors. F. Huber. 2,326,946; Aug. 17.
Sterilization or treatment apparatus. G. Sperti. 2,327,142; Aug. 17.
Stoker and support therefor. E. Martin. 2,327,313; Aug. 17.
Storage apparatus for gases and volatile liquids, Breather type. J. H. Wiggins. 2,327,084; Aug. 17.
Strainer, Faucet. O. W. Holden. 2,327,306; Aug. 17.
Strip metal, Processing. H. E. Gude. 2,327,103; Aug. 17.
Strip material, Coiling. A. R. N. Heath and T. C. Tapp. 2,327,263; Aug. 17.
Styrene, Polymerization of. J. F. Walker. 2,327,082; Aug. 17.
Suction cleaning apparatus. C. H. Taylor. 2,327,225; Aug. 17.
Superheated vapors, Separation of. P. M. Schuftan. 2,327,133; Aug. 17.
Supervisory control and telemetering system. W. A. Derr. 2,327,251; Aug. 17.
Support: *See*—
Food-mixer support.
Surface finishing machinery. A. H. Dall, H. Ernst, and S. Einstein. 2,327,022; Aug. 17.
Surface material working. F. H. Fanning. 2,326,847; Aug. 17.
Surface treating machine. L. Vavrik and K. C. Atkin. 2,327,229; Aug. 17.
Surface working method. F. H. Fanning. 2,326,848; Aug. 17.
Switch: *See*—
Electric snap switch. Temperature control switch.
Fuel pressure switch.
Plunger type electrical switch.
System and device for measuring the quantity of air sent out in one or more breaths. F. Bortini. 2,326,925; Aug. 17.
Tank: *See*—
Breather type tank.
Tank construction. J. W. Proctor and W. S. Allen. 2,327,332; Aug. 17.
Taping tool. H. D. Allen. 2,327,150; Aug. 17.
Telephone system. A. S. Martins. 2,327,201; Aug. 17.
Television system. K. R. Wendt. 2,326,907; Aug. 17.
Temperature control switch. J. P. Buller. 2,327,014; Aug. 17.
Terminal block. T. C. Joyce. 2,327,048; Aug. 17.
Tester adjustment means, Hardness. C. W. Clark. 2,326,759; Aug. 17.
Tester trainer. D. C. Holand and V. E. Lee. 2,326,944; Aug. 17.
Testing device. J. S. Kopas. 2,327,194; Aug. 17.
Testing the feltability of hatters' fur. J. D. Sartakoff. 2,326,974; Aug. 17.
Testing eyes. J. F. Neumueller. 2,326,965; Aug. 17.
Tetrasodium pyrophosphate composition and making same. R. J. Kepfer. 2,326,949; Aug. 17.
Textile fiber, Treatment of. O. C. Bacon. 2,327,160; Aug. 17.
Thermometer. E. C. Hartman. 2,327,037; Aug. 17.
Thiuram sulphides. A. Tomlin. 2,326,984; Aug. 17.
Thread holder for looms, Pneumatic. R. G. Turner. 2,326,905; Aug. 17.
Thread supply device for shoe sewing machines. O. R. Haas. 2,326,852; Aug. 17.
Threshing mechanism. L. A. Paradise. 2,327,287; Aug. 17.
Tin surfaces and producing the same, Stain and corrosion resistant. F. E. Rath. 2,327,127; Aug. 17.
Tire tread. C. F. Ofensend. 2,327,057; Aug. 17.
Tire valve. O. W. Hosking. 2,326,998; Aug. 17.
Titanium sulphate, Production of. L'R. G. Bousquet and M. J. Brooks. 2,327,166; Aug. 17.
Toggle catch for boxes. H. D. Greenman. 2,327,260; Aug. 17.
Toilet accessory. H. C. Dann. 2,327,096; Aug. 17.
Tool: *See*—
Fluid actuated tool. Side wall drilling and sampling tool.
Machine tool.
Oil well tool. Taping tool.
Pocket tool.
Tool holding means for edge setting machines. E. J. Ray. 2,326,894; Aug. 17.
Torpedo, Submarine depth. R. G. Ruiz. 2,326,973; Aug. 17.
Toy clamshell bucket. O. P. Erhardt. 2,326,934; Aug. 17.
Toy, Figure. A. Gunterhack. 2,327,261; Aug. 17.
Traffic signal. A. McK. Miles. 2,326,875; Aug. 17.
Traffic signal. E. F. Hubacker. 2,326,781; Aug. 17.
Trainer, Navigation. C. J. Crane. 2,326,764; Aug. 17.
Transfer valve. R. E. J. Nordquist. 2,326,794; Aug. 17.
Translating channel, Wave-signal. N. P. Case. 2,327,248; Aug. 17.
Transmission system regulation. P. G. Edwards. 2,326,770; Aug. 17.
Transmission system regulation. R. K. Bullington. 2,326,826; Aug. 17.
Transmitting apparatus for railway train communication systems. A. M. Cravath. 2,327,249; Aug. 17.
Trimmer, Sheet. C. Silver. 2,327,223; Aug. 17.
Trimming board. F. M. Lund. 2,327,000; Aug. 17.
Tripod jack. R. L. Diercksmeier and E. M. Pfauser. 2,327,180; Aug. 17.

Truck. T. V. Buckwalter. 2,326,993; Aug. 17.
Tube cutoff mechanism. K. Sieg. 2,326,978; Aug. 17.
Tubes and circuits, High frequency. G. E. Pray and S. Riccobono. 2,326,801; Aug. 17.
Upholstering furniture. P. Stadtler. 2,327,143; Aug. 17.
Vacuum cleaner. R. E. Dunbar. 2,327,181; Aug. 17.
Valve: *See*—
Automatic shutoff valve. Tire valve.
Gate valve. Transfer valve.
Valve. J. W. Overbeke and H. P. Kupiec. 2,327,210; Aug. 17.
Valve gear. W. A. Besserdich. 2,326,747; Aug. 17.
Valve timing device. E. F. Pierce and F. J. Weigand. 2,326,883; Aug. 17.
Valve structure for combined formation testing tools and pressure recorders. H. D. Kinney. 2,326,867; Aug. 17.
Vehicle body and making same. E. Komenda. 2,326,952; Aug. 17.
Vehicle brake signal. T. Van Tuyl and C. B. Hale. 2,326,808; Aug. 17.
Vehicle running gear. B. Barényi and K. Wilfert. 2,326,918; Aug. 17.
Ventilator, Bathroom. C. F. Maguire. 2,326,957; Aug. 17.
Vibratory drive apparatus. T. H. Morgan. 2,327,206; Aug. 17.
Watchcase. S. Kramer and J. Kahn. 2,327,112; Aug. 17.
Water-treating agents. W. O. Teeters. 2,327,323; Aug. 17.
Wax, Treating. R. C. Pollock. 2,327,155; Aug. 17.
Welding apparatus. B. Shmurak. 2,326,805; Aug. 17.
Welding flux for magnesium base alloys. H. A. Reimers. 2,327,065; Aug. 17.
Welding mill. W. Rodder and J. H. Hopkins. 2,327,318; Aug. 17.
Wells producing mineral fluid, Treatment of. L. C. Chamberlain. 2,327,017; Aug. 17.
Wheel structure. G. A. Lyon. 2,326,788; Aug. 17.
Wheel. H. J. Horn. 2,327,044; Aug. 17.
Winch structure. D. B. Livingston. 2,326,785; Aug. 17.
Winding machine. A. L. Quinlan. 2,326,969; Aug. 17.
Window. P. L. Adams. 2,326,743; Aug. 17.
Window. E. G. Bunjes. 2,327,246; Aug. 17.
Window operator. A. Rappl. 2,327,064; Aug. 17.
Wire drawing block. F. Zettergren. 2,327,149; Aug. 17.
Wood, Sawing. J. E. Hassler. 2,326,854; Aug. 17.
Work holding device, Two-position. A. H. Esty. 2,327,030; Aug. 17.

CLASSIFICATION OF PATENTS

ISSUED AUGUST 17, 1943

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

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Notice of Cancellation

U. S. PATENT OFFICE, *Richmond, Va., July 28, 1943.*

Louis Hobart Pierce, his assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Cluett, Peabody & Co., Inc., Troy, N. Y., to effect the cancellation of trade-mark registration of Louis Hobart Pierce, Pierce Park, Lebanon, Pa., No. 203,391, dated September 15, 1925, and the notice of such proceeding sent by registered mail to the said Louis Hobart Pierce at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said Louis Hobart Pierce, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

Notice—Attorney's Address

Many letters are being returned to this office for lack of street address. The attorney's full post-office address should be given in every power of attorney. The prompt delivery of communications will thereby be facilitated.

Rule 72

RULE 72. After the completion of the application the Office will not return the specification for any purpose whatever. If applicants have not preserved copies of the paper which they wish to amend, the Office will furnish them on the usual terms.

The drawing may be withdrawn only for such corrections as cannot be made by the Office; but a drawing cannot be withdrawn unless a photographic copy has been filed and accepted by the Examiner as a part of the application. Permissible changes in the construction shown in any drawing may be made only by the Office and after an approved photographic copy has been filed. Sketches filed to show proposed changes in construction must be in permanent ink. (See Rule 30.) Substitute drawings will not be admitted in any case unless required by the Office.

Drawings

Attention is called to paragraphs *g* and *i* of Rule 52 of the Rules of Practice of the Patent Office, and inventors and attorneys are directed to omit from the space outside of the marginal line of the drawings any marks of identification, inasmuch as the space referred to is reserved for the use of the Patent Office. Such identifying marks should be placed upon the back of the drawings.

Suggestion for the Use of Coupons

The execution of orders for printed copies of U. S. patents, trade-marks, etc., will be considerably expedited if coupons are used. Such coupons may be purchased at the Patent Office in lots of 20 at $2.00 and 100 at $10.00.

Coupon orders do not have to be accompanied by letters of transmittal. They require nothing but the filling in of the patent number, the name of the inventor, the date of issue, and the name and address of the party desiring the service.

Reservation Clauses Not Permitted

RULE. 44. A reservation for a future application of subject-matter disclosed but not claimed in a pending application will not be permitted in the pending application.

Notice Regarding Payment of Fees

All fees must be paid in advance. Payment of money required for Office fees *must* be made in specie, Treasury notes, national-bank notes, post-office money orders, or certified checks. Money orders and checks must be made payable to the "Commissioner of Patents." Money sent by mail to the Patent Office will be at the risk of the sender. (See Rule 194.)

Certified checks, bank drafts, express and foreign money orders must be immediately negotiable in this country and for the full amount of the fee required by the Patent Office. No allowance can be made by this Office for any charge for their collection or exchange. Postage stamps will not be accepted. Failure to comply with the above instructions will cause delay.

Condition of Applications Under Examination at Close of Business August 7, 1943

(Total number of applications awaiting action, excluding Trade-Mark Division, 40,128; Trade-Mark Division, 1028. Oldest new case, Oct. 2, 1942; oldest amended, Oct. 12, 1942.)
(The dates given are 1943 except where † indicates 1941)

Divisions, Examiners, and Subjects of Inventions	Oldest new application and oldest action by applicant awaiting office action		No. of applications awaiting action
	New	Amended	
1. TUCKER, M. W., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Domestic Cooking Vessels; Sewerage.	Apr. 16	May 4	263
2. HERRMANN, D., Fishing and Trapping; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Textile Wringers; Butchering.	Apr. 14	Apr. 5	273
3. WOLFFE, S., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	†Nov. 12	†Nov. 7	979
4. BISHOP, WALTER C., Conveyors; Hoists; Handling Apparatus; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds; Pneumatic Dispatch; Store Service; Mining, Quarrying and Ice Harvesting.	Mar. 22	†Dec. 14	444
5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Clasps.	Jan. 28	Jan. 28	483
6. GENIESSE, E. W., Carbon Chemistry (part)	Jan. 5	Jan. 21	996
7. JARBOE, C. G., Optics; Photography	Feb. 22	Feb. 20	766
8. ADAMS, F. L., Furniture; Kitchen and Table Articles; Racks and Cabinets	Feb. 12	Feb. 15	532
9. BENSON, R. B., Pumps and Fans; Fluid and Fluid-Current Motors	Jan. 19	Jan. 9	763
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	Jan. 13	Jan. 14	342
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Stop Mechanisms	Jan. 29	Jan. 20	364
13. DONNELLY, A. E., Metal Working (part); Gear Cutting, Milling and Planing; Needle and Pin Making	Feb. 8	Feb. 18	604
14. HANLIN, GEORGE, Metal Working (part); Farriery; Wire Fabrics	Mar. 23	Mar. 22	523
15. HENKIN, BENJ., Glass, Plastic Block and Earthenware Apparatus; Plastics	Jan. 14	Feb. 8	782
16. SPENCER, C. J., Telegraphy; Telephony	†Dec. 30	Jan. 1	594
17. HABECKER, LEON B., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet or Web Feeding; Type Setting.	†Oct. 31	†Oct. 20	694
18. KURZ, J. A., Motors, Expansible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal Combustion Engines.	†Dec. 26	†Dec. 21	608
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	†Nov. 25	†Nov. 28	522
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Undertaking; Bread, Pastry, and Confection Making; Laminated Fabrics (part).	Feb. 20	Feb. 9	486
21. THOMPSON, T. J., Textiles	Feb. 27	Mar. 3	288
22. RINGLE, D., Aeronautics; Firearms; Ordnance and Explosive Devices	†Nov. 3	†Nov. 3	1782
23. BARROWS, B., Cash Registers; Calculators (part)	Jan. 28	Feb. 4	167
24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines	Apr. 19	Apr. 24	438
25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminuters.	Feb. 3	Jan. 12	570
26. YOUNG, R. R., Electricity—Generation and Motive Power	†Dec. 12	†Dec. 22	781
27. CLARK, W. N., Brush, Broom, and Mop Making; Brushing, Scrubbing and General Cleaning; Textiles, Fluid Treating Apparatus; Ironing; Washing Apparatus.	Jan. 20	Jan. 5	551
28. SOLYOM, H. L., Internal-Combustion Engines (part); Cylinders and Pistons	†Nov. 25	†Oct. 23	643
29. SHKLARIN, J. B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Package and Article Carriers; Woodworking; Tools; Metal Working, Assembling.	Mar. 6	Mar. 30	427
30. McCANN, LEO P., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	May 3	Apr. 20	289
31. DUNCOMBE, C. S., Hydrocarbons; Mineral Oils	Feb. 8	Feb. 22	1330
32. LESH, K., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; Earth Boring.	Jan. 19	Jan. 22	639
33. HULL, J. S., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements	Mar. 2	Mar. 8	646
34. SAPERSTEIN, S., Electricity—Meters and Transmission to Vehicles; Railways; Track Sanders; Signals and Indicators.	Mar. 4	Feb. 24	430
35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles	Feb. 27	Mar. 2	493
36. McFADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring	Apr. 20	May 8	305
37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Mar. 4	Feb. 25	459
38. KRAFFT, C. F., Coating Processes; Coating or Plastic Compositions (part)	Feb. 1	Feb. 1	610
39. WHITNEY, F. I., Fluid-Pressure Regulators; Valves; Water Distribution	Apr. 23	Apr. 3	393
40. DRUMMOND, E. J., Receptacles	May 7	May 1	473
41. HERTZ, M., Coin Handling; Recorders; Deposit Receptacles; Counters and Calculators (part); Typewriting Machines; Check-Controlled Apparatus.	Feb. 15	Feb. 24	392
42. MARANS, H., Electric Signaling	Apr. 24	Apr. 21	360
43. FEDERICO, P. J., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Fluid Treatment of Textiles; Azo Compounds.	†Dec. 2	†Dec. 2	814
44. HARVEY, L. P., Refrigeration	Feb. 6	†Dec. 2	264
45. HILL, H. D., Shafting and Flexible Shaft Couplings; Wheels and Axles; Resilient Tires and Wheels; Lubrication; Bearings and Guides; Motors; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding; Land Vehicles (part).	Feb. 11	Feb. 22	715
46. BLEECKER, V. E., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers; Heating Systems; Coating Apparatus.	Apr. 2	Mar. 26	366
47. KANOF, WM. J., Clutches and Power Stops; Brakes; Boring and Drilling; Land Vehicles (part)	Jan. 9	Feb. 4	993
48. ROEPKE, O. B., Electricity, General Applications; Igniters	†Dec. 26	Jan. 6	772
49. SHEFFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Purification.	Feb. 12	Feb. 1	583
50. LEVIN, SAMUEL, Resins; Rubber; Carbohydrates and Derivatives	Jan. 20	Jan. 20	1333
51. BACKUS, C. D., Radiant Energy	Jan. 1	Jan. 13	1124
52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Pipes and Tubular Conduits.	Mar. 8	Feb. 4	664
53. PECK, M. K., Label Pasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas and Canes; Curtains, Shades and Screens; Cutlery.	Feb. 24	Mar. 9	172
54. STRACHAN, O. W., Electric Lamp and Discharge Devices (part)	†Nov. 2	†Dec. 15	531
55. BOWEN, S. T., Artificial Body Members; Dentistry; Surgery	†Nov. 17	†Nov. 7	762
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Laminated Fabrics (part); Paper Making	Feb. 9	Feb. 12	729
57. NICOLSON, G. D., Toys; Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	†Oct. 2	†Nov. 6	467
58. DOWELL, E. F., Abrading; Bottles and Jars; Stone Working	Feb. 15	Feb. 5	552
59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds; Compositions (part).	†Oct. 5	†Oct. 12	1200
60. GLASS, R. L., Electricity, Heating and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Marine Propulsion; Consumable Electrode Lamp and Discharge Devices.	†Dec. 8	†Dec. 3	524
61. YUNG KWAI, B., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery; Laminated Electrical Insulation, Belt, Hose, Tire and Ball Making; Boats and Buoys.	†Dec. 7	Jan. 14	470
62. PUGH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors	Jan. 28	Feb. 26	452
63. WINKELSTEIN, A. H., Preserving; Poisons; Fermentation; Foods and Beverages; Proteins; Oils and Fats.	†Dec. 3	†Dec. 7	1050
64. NASH, P. M., Acetylene; Gas Mixers; Compositions (part); Distillation; Fuel	Mar. 13	Mar. 13	1070
65. McDERMOTT, F. P., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave Transmission; Telephony, Repeaters and Relays.	†Dec. 21	†Dec. 18	727
Trade Marks: RICHMOND, F. A	June 17	July 1	1028
Designs: KALUPY, H. H	July 2	July 21	314

DECISIONS IN PATENT AND TRADE-MARK CASES

Supreme Court of the United States

FREEMAN *v.* BEE MACHINE COMPANY, INC.

No. 707. Decided June 1, 1943

1. CERTIORARI.

Certiorari granted because of the importance of the problem presented by the case and the contrariety of views which had developed concerning it.

2. FEDERAL DISTRICT COURTS—JURISDICTION—AMENDMENT OF DECLARATION.

In an action at law brought by respondent, a Massachusetts corporation, against petitioner, a resident of Ohio, in the Superior Court of Massachusetts for breach of a patent license agreement, and caused by petitioner to be removed to the federal district court in Massachusetts *Held* that said federal district court has jurisdiction to allow an amendment of respondent's declaration by adding a complaint for treble damages under § 4 of the Clayton Act.

3. SAME—SAME—SAME.

"If the federal court has jurisdiction of the removed cause and if the amendment to the complaint could have been made had the suit originated in the federal court, the fact that the federal court acquired jurisdiction by removal does not deprive it of power to allow the amendment."

4. SAME—SAME—SAME.

"It is said, however, that the amendment in question may not be made since the cause of action authorized by § 4 of the Clayton Act may be brought only in a district court in the district 'in which the defendant resides or is found or has an agent.' 15 U. S. C. § 5. That requirement relates to venue. But venue involves no more and no less than a personal privilege which 'may be lost by failure to assert it seasonably, by formal submission in a cause, or by submission through conduct.' *Neirbo Co.* v. *Bethlehem Shipbuilding Corp.* 308 U. S. 165, 168."

5. SAME—SAME—SAME.

"Petitioner was personally served in the state court action. After the removal of the cause he entered a general appearance and defended on the merits. He also filed a counterclaim in the action. He thus invoked the jurisdiction of the federal court and submitted to it. *Merchants Heat & L. Co.* v. *Clow & Sons*, 204 U. S. 286. He was accordingly 'found' in the district so as to give the district court power to allow the complaint in that suit to be amended by adding a cause of action under § 4 of the Clayton Act."

6. SAME—SAME—SAME.

"The Rules of Civil Procedure are applicable to removed cases and 'govern all procedure after removal.' Rule 81(*c*). They permit joinder of claims (rule 18) and contain the procedure for amendment of pleadings. Rule 15. And, as we have noted, Congress has directed the district court after a case has been removed to 'proceed therein as if the suit had been originally commenced in said district court.' Judicial Code § 38, 28 U. S. C. § 81. There can be no doubt but that the court had the power under that statute and under the rules to permit the joinder of the cause of action under the Clayton Act. If petitioner was subject to the jurisdiction of the court for purposes of the law suit, including an amendment of the complaint, he certainly was 'found' there for the purpose of adding a cause of action under § 4 of the Clayton Act."

ON WRIT of certiorari to the United States Circuit Court of Appeals for the First Circuit. Affirmed.

Mr. Justice FRANKFURTER dissenting with opinion in which Mr. Justice ROBERTS, Mr. Justice REED, and Mr. Justice JACKSON join.

Mr. Marston Allen (*Mr. Nathan Heard* with him on the brief) for Freeman.

Mr. Cedric W. Porter (*Mr. James W. Sullivan* and *Mr. George P. Dike* and *Messrs. Dike, Calver & Porter* with him on the brief) for Bee Machine Company, Inc.

Mr. Justice DOUGLAS delivered the opinion of the Court.

It was held in *Lambert Run Coal Co.* v. *Baltimore & Ohio R. Co.*, 258 U. S. 377, 382, that where a state court lacks jurisdiction of the subject matter or of the parties, the federal district court acquires none on a removal of the case. And see *General Inv. Co.* v. *Lake Shore & M. S. Ry. Co.*, 260 U. S. 261, 288; *Venner* v. *Michigan Central R. Co.*, 271 U. S. 127, 131; *Minnesota* v. *United States*, 305 U. S. 382, 389. That is true even where the federal court would have jurisdiction if the suit were brought there. *Lambert Run Coal Co.* v. *Baltimore & Ohio R. Co.*, supra. As stated by Mr. Justice Brandeis in that case, "The jurisdiction of the federal court on removal is, in a limited sense, a derivative jurisdiction." 258 U. S. p. 382. The question in this case is whether the rule of those decisions is applicable to a situation involving the following facts:

[1] Petitioner is a resident of Ohio; respondent is a Massachusetts corporation. Respondent brought an action at law against petitioner in the Superior Court of Massachusetts for breach of a contract. Petitioner was personally served when he happened to be in Boston. Petitioner appeared specially and caused the action to be removed to the federal district court in Massachusetts, petitioner being a non-resident of Massachusetts and there being diversity of citizenship and the requisite jurisdictional amount. Judicial Code § 28, 28 U. S. C. § 71. Petitioner thereupon entered a general appearance[1]—he answered, interposing several defenses including res judicata; he also filed a counter-claim. He then moved for a summary judgment. Shortly before that motion came on to be heard respondent moved to amend its declaration by adding a complaint for treble damages under § 4 of the Clayton Act.[2] 38 Stat. 731, 15 U. S. C. § 15. The district court granted petitioner's motion

[1] See *Western Loan & S. Co.* v. *Butte & B. Mining Co.*, 210 U. S. 368, 372; *American Surety Co.* v. *Baldwin*, 287 U. S. 156, 165.

[2] That section provides: "Any person who shall be injured in his business or property by reason of anything forbidden in the antitrust laws may sue therefor in any district court of the United States in the district in which the defendant resides or is found or has an agent, without respect to the amount in controversy, and shall recover threefold the damages by him sustained, and the cost of suit, including a reasonable attorney's fee." That section derived from § 7 of the Sherman Act. See *Eastman Kodak Co.* v. *Southern Photo Materials Co.*, 273 U. S. 359, 371–374.

for summary judgment. 41 F. Supp. 461. But it denied respondent's motion to amend, being of the view that it had no jurisdiction to allow the amendment. 42 F. Supp. 938. In reaching that result the district court expressed doubts that the venue requirements of § 4 of the Clayton Act were satisfied. But it expressly declined to rest on that basis and placed its decision solely on the Lambert Co. line of cases. On appeal the circuit court of appeals sustained the ruling of the district court on the motion for summary judgment but disagreed with its view on the motion to amend. 131 F.(2d) 190. The case is here on a petition for a writ of certiorari which we granted because of the importance of the problem and the contrariety of views which had developed concerning it.[3]

[2] [3] The Lambert Co. case and those which preceded[4] and followed it merely held that defects in the jurisdiction of the state court either as respects the subject matter or the parties[5] were not cured by removal but could thereafter be challenged in the federal court. We see no reason in precedent or policy for extending that rule so as to bar amendments to the complaint, otherwise proper, merely because they could not have been made if the action had remained in the state court.[6] If the federal court has jurisdiction of the removed cause and if the amendment to the complaint could have been made had the suit originated in the federal court, the fact that the federal court acquired jurisdiction by removal does not deprive it of power to allow the amendment. Though this suit as instituted involved only questions of local law, it could have been brought in the federal court by reason of diversity of citizenship.[7] The rule of *Erie Railroad Co.* v. *Tompkins*, 304 U. S. 64, is of course, applicable to diversity causes removed to the federal courts as well as to such actions originating there. But if the federal court has jurisdiction of the removed cause (*Mexican Nat. R. Co.* v. *Davidson*, 157 U. S. 201), the action is not more closely contained than the one which originates in the federal court. The jurisdiction exercised on removal is original not appellate. *Virginia* v. *Rives*, 100 U. S. 313, 320. The forms and modes of proceeding are governed by federal law. *Thompson* v. *Railroad Companies*, 6 Wall. 134; *Hurt* v. *Hollingsworth*, 100 U. S. 100; *West* v. *Smith*, 101 U. S. 263; *King* v. *Worthington*, 104 U. S. 44; *Ex parte Fisk*, 113 U. S. 713; *Northern Pacific R.* v. *Paine*, 119 U. S. 561; *Twist* v. *Prairie Oil & Gas Co.*, 274 U. S. 684; *Rorick* v. *Devon Syndicate, Ltd.*, 307 U. S. 299. Congress has indeed provided that in a suit which has been removed the district court shall

"proceed therein as if the suit had been originally commenced in said district court, and the same proceedings had been taken in such suit in said district court as shall have been had therein in said state court prior to its removal." Judicial Code § 38, 28 U. S. C. § 81.

While that section does not cure jurisdictional defects present in the state court action, it preserves to the federal district courts the full arsenal of authority with which they have been endowed. Included in that authority is the power to permit a recasting of pleadings or amendments to complaints in accordance with the federal rules. *West* v. *Smith*, supra; *Twist* v. *Prairie Oil & Gas Co.*, supra, p. 687.

[4] It is said, however, that the amendment in question may not be made since the cause of action authorized by § 4 of the Clayton Act may be brought only in a district court in the distict

"in which the defendant resides or is found or has an agent." 15 U. S. C. § 5.

That requirement relates to venue. But venue involves no more and no less than a personal privilege which

"may be lost by failure to assert it seasonably, by formal submission in a cause, or by submission through conduct." *Neirbo Co.* v. *Bethlehem Shipbuilding Corp.*, 308 U. S. 165, 168.

On the face of the present record it would seem that any objection to venue has been waived. There is no indication in the record before us that any such objection was "seasonably asserted." *Commercial Ins. Co.* v. *Consolidated Stone Co.*, 278 U. S. 177, 179; *Interior Construction Co.* v. *Gibney*, 160 U. S. 217. As we have noted, the district court did not place its ruling on the grounds of venue. Nor is there any indication in the record that petitioner raised the venue point in the district court. But even if we assume that he did, it is not clear that the objection has been preserved here.[8]

[5] But we need not rest on that narrow ground. Petitioner was personally served in the state court action. After the removal of the cause he entered a general appearance and defended on the merits. He also filed a counterclaim in the action. He thus invoked the jurisdiction of the federal court and submitted to it. *Merchants Heat & L. Co.* v. *Clow & Sons*, 204 U. S. 286. He was accordingly "found" in the district so as to give the district court power to allow the complaint in that suit to be amended by adding a cause of action under § 4 of the

[3] See *Norma Electric Corp.* v. *Polaroid Corp.*, 2 F. R. D. 454; *Carroll* v. *Warner Bros. Pictures, Inc.*, 20 F. Supp. 405; *Howe* v. *Atwood*, 47 F. Supp. 979, 984. Cf. *Newberry* v. *Central of Georgia Ry. Co.*, 276 F. 337, 338.

[4] See *Goldey* v. *Morning News*, 156 U. S. 518; *De Lima* v. *Bidwell*, 182 U. S. 1, 174; *Courtney* v. *Pradt*, 196 U. S. 89, 92; *American Well Works Co.* v. *Layne & Bowler Co.*, 241 U. S. 257, 258.

[5] *Wabash Western Ry.* v. *Brow*, 164 U. S. 271; *Hassler, Inc.*, v. *Shaw*, 271 U. S. 195; *Employers Reinsurance Corp.* v. *Bryant*, 299 U. S. 374.

[6] It is clear that the Massachusetts state court did not have jurisdiction over the cause of action under the Anti Trust laws. See 15 U. S. C. § 15, supra, note 2; *Blumenstock Bros.* v. *Curtis Pub. Co.*, 252 U. S. 436, 440.

[7] Suits based on diversity of citizenship may be brought "only in the district of the residence of either the plaintiff or the defendant." Judicial Code § 51, 28 U. S. C. § 112. Congress has not made the same requirement on removal. Thus an action between citizens of different states begun in a court of a state of which neither is a citizen may be removed to the federal court of the district in which the suit is pending. *Lee* v. *Chesapeake & Ohio Ry. Co.*, 260 U. S. 653. See *Neirbo Co.* v. *Bethlehem Shipbuilding Corp.*, 308 U. S. 165, 168. Indeed, the defendant must be a non-resident of the state in which suit is brought before he can remove to the federal court on the ground of diversity of citizenship. *Patch* v. *Wabash R. Co.*, 207 U. S. 277.

[8] The "only question" presented by the petition for a writ of certiorari was "whether a plaintiff may amend his complaint in a removed action so as to state a new and independent cause of action against the defendant which would be outside the state court's jurisdiction." That obviously is not a presentation of a question of venue of a federal district court under § 4 of the Clayton Act; and it can hardly be expanded into one by an incidental discussion of venue in the brief.

Clayton Act. This venue provision was designed, as stated by Judge Learned Hand in *Thornburn* v. *Gates*, 225 F. 613, 615,

"to remove the existing limitations upon the venue of actions between diverse citizens and to permit the plaintiff to sue the defendant wherever he could catch him."

But "found" in the venue sense does not necessarily mean physical presence. We noted in *Nierbo Co.* v. *Bethlehem Shipbuilding Corp.*, supra, pp. 170–171, that a corporation may be "found" in a particular district for venue purposes merely because it had consented to be sued there. The fact that it was present "only in a metaphorical sense" (308 U. S. p. 170) was not deemed significant. In the present case it is not important that at the time of this amendment petitioner had returned to Ohio and was not physically present in Massachusetts. He was conducting litigation in Massachusetts. He was there for all purposes of that litigation. Having invoked the jurisdiction of the federal court and submitted to it he may not claim that he was present only for the limited objectives of his answer and counterclaim. He was present, so to speak, for all phases of the suit. That presence satisfies the venue provision of § 4 of the Clayton Act for the purpose of this amendment.

[6] The Rules of Civil Procedure are applicable to removed cases and "govern all procedure after removal." Rule 81(*c*). They permit joinder of claims (rule 18) and contain the procedure for amendment of pleadings. Rule 15. And, as we have noted, Congress has directed the district court after a case has been removed to "proceed therein as if the suit had been originally commenced in said district court." Judicial Code § 38, 28 U. S. C. § 81. There can be no doubt but that the court had the power under that statute and under the rules to permit the joinder of the cause of action under the Clayton Act. If petitioner was subject to the jurisdiction of the court for purposes of the law suit, including an amendment of the complaint, he certainly was "found" there for the purpose of adding a cause of action under § 4 of the Clayton Act. Process is of course a different matter. But under the Rules of Civil Procedure service of an amended complaint may be made upon the attorney[10] (rule 5)—the procedure which apparently followed here.

Affirmed.

MR. JUSTICE FRANKFURTER, (dissenting):

Congress has power, of course, to authorize a suit arising under federal law to be brought in any of the federal district courts. *Robertson* v. *Labor Board*, 268 U. S. 619, 622. But from the beginning of the federal judicial system, Congress has provided that civil suits can be brought only in the district where the defendant is an inhabitant, except that where federal jurisdiction is based solely upon diversity of the parties' citizenship, suit may be brought in the district of the residence of either the plaintiff or the defendant. Section 51 of the Judicial Code, 28 U. S. C. § 112, derived from § 11 of the Judiciary Act of 1789, 1 Stat. 73, 79. Only in a very few classes of cases has Congress given a strictly limited right to sue elsewhere. In § 4 of the Clayton Act of October 15, 1914, 38 Stat. 731, 15 U. S. C. § 15, the legislation immediately before us, suits are authorized to be brought

"in any district court of the United States in the district in which the defendant resides or is found or has an agent. . . ."

Similar provisions, permitting suit where the defendant is "found," appear in the act of March 3, 1911, § 43, 36 Stat. 1087, 1100, 28 U. S. C. § 104 (suits for penalties and forfeitures), the act of March 4, 1909, § 35, 35 Stat. 1075, 1084, 17 U. S. C. § 35 (suits for copyright infringement), the act of February 5, 1917, § 25, 39 Stat. 874, 893, 8 U. S. C. § 164 (suits under the immigration laws), the act of May 27, 1933, tit. I, § 22, 48 Stat. 74, 86, 15 U. S. C. § 77*v* (suits under the Securities Act of 1933), and the act of June 6, 1934, § 27, 48 Stat. 881, 902, 15 U. S. C. § 78*aa*, (suits under the Securities Exchange Act of 1934). In holding that the petitioner was "found" in the district of Massachusetts merely because he exercised his statutory right to remove a suit to the federal district court in Massachusetts, the Court, I cannot but conclude, is disregarding the venue requirements of the Clayton Act.

The respondent, a Massachusetts corporation, brought an action for breach of contract in the Superior Court of Essex County, Massachusetts, against the petitioner, a resident of Ohio, by serving him personally while at a hotel in Boston. Since there was the requisite diversity of citizenship and jurisdictional amount, the petitioner removed the cause to the federal district court in Massachusetts, filed an answer and a counterclaim for damages, and moved for summary judgment under rule 56(*b*) of the Federal Rules of Civil Procedure. On the day before the hearing on this motion, the respondent moved to amend its complaint by adding a cause of action for treble damages under § 4 of the Clayton Act. The district court granted the petitioner's motion for summary judgment and denied the respondent leave to amend its complaint. The reasons for the court's action appear in its opinion:

"This court has jurisdiction under the anti-trust laws over a nonresident only if he is found in the district or has an agent therein. 15 U. S. C. § 15. The defendant while in the commonwealth was served with process in a common law action of contract. The plaintiff [respondent] obviously seeks to take advantage of this fact in order to obtain jurisdiction over the person in a suit involving a new and entirely different subject-matter, namely, the enforcement of rights arising under federal statutes. . . . It follows from the foregoing that if the plaintiff is allowed to add the cause of action alleged in its motion, the amended complaint would be subject to successful attack on jurisdictional grounds. . . . The motion is, therefore, denied without prejudice to plaintiff's right to seek redress by suit brought originally in the federal court." 42 F. Supp. 938, 939.

As in *Camp* v. *Gress*, 250 U. S. 308, 311, therefore, the petitioner objected

"not to the jurisdiction of a federal court, but to the jurisdiction over him of the court of the particular district; that is, the objection is to the venue."

Such a use of the term "jurisdiction" in the sense of venue is by no means uncommon. See, e. g.,

[9] See note 7, supra.

[10] See *Adam* v. *Saenger*, 303 U. S. 59, 67–68.

Burnrite Coal Co. v. Riggs, 274 U. S. 208, 211–12. Although the record contains no specific objection by the petitioner to the amendment of the complaint by adding the cause of action under the anti-trust laws, the opinion of the district court recites that the parties "have now been heard upon this [respondent's] motion" to amend the complaint, and that the "question presented is whether this amendment should be allowed." 42 F. Supp. at 939. The petitioner's resistance to the entertainment by the district court of the proposed claim under the Clayton Act must mean that he objected to being sued in the federal district court in Massachusetts because he was not amenable to the process of that court, in other words, because that court was without venue.

In vacating the judgment of the district court, the circuit court of appeals stated:

"The fact that in all probability the plaintiff in the case at bar could not bring a separate action under the anti-trust laws against the defendant in the district court sitting in Massachusetts because the defendant could avoid the service of process upon him by remaining outside of the district cannot affect the jurisdiction of the court to allow the amendment. This is only a fact to be considered by the district court in exercising its discretionary power to allow or disallow the amendment. Since the court below did not exercise its discretionary power but ruled that it lacked jurisdiction to allow the amendment we must remand to that court for further proceedings." 131 F.(2d) 190, 194–95.

The circuit court of appeals plainly did not regard the petitioner as having waived his objection to the "jurisdiction" or venue of the district court in Massachusetts. It placed its reversal of the district court on another ground, the correctness of which I shall consider later.

Nor can the petition for certiorari, read in its entirety, be construed as an abandonment of the petitioner's objection to the venue of the Massachusetts district court. True enough, the "only question presented" is slated to be

"whether a plaintiff may amend his complaint in a removed action so as to state a new and independent cause of action against the defendant which is outside the state court's jurisdiction."

But the text of the petition makes it clear that the petitioner's "jurisdictional" objections included the claim that venue was not properly laid in the Massachusetts district court. On pages 16 and 17, for example, he states:

"The question of venue or jurisdiction of the person is not a matter lightly to be disregarded. It depends upon substantive law. The right of a person to be sued only in the district of which he is an inhabitant is carefully guarded by the general venue statute, Judicial Code, section 51. . . . Now, being 'found' is a sporadic, temporary thing, very different from being 'an inhabitant.' The petitioner Freeman was 'found' at one particular time and subjected to suit on a cause of action in contract. . . . The original cause of action was removed to the district court, but this did not make Freeman 'an inhabitant' so that he could be served at any time. The only way in which jurisdiction can be obtained of Freeman in this district for a cause of action under the Antitrust Laws is by having him 'found' here. This result cannot be secured by 'amending' an existing complaint, because it would not only violate the whole theory of venue, but it would be in direct violation of rule 82 [of the Federal Rules of Civil Procedure], which is superior to rule 15."

I quite agree with the majority of my brethren that venue is a privilege that may be waived, that it "may be lost by failure to assert it seasonably". *Neirbo Co.* v. *Bethlehem Corp.*, 308 U. S. 165, 168. But the waiver must be actual, not fictitious. There must be a surrender, not resistance. No doubt a party who, having a valid objection to the venue of a suit, pleads to the merits instead of making objection, thereby waives his objection. *Panama R. R. Co.* v. *Johnson*, 264 U. S. 375, 385; *Burnrite Coal Co.* v. *Riggs*, 274 U. S. 208, 212. Here the petitioner answered the state suit before and not after the respondent sought to amend its complaint to add an exclusively federal cause of action under the anti-trust laws. His defense to the contract claim could not possibly waive any venue objections with respect to a claim subsequently made under the anti-trust laws. One cannot waive an objection which he cannot assert.

The court relies upon rules 15 and 18 of the Federal Rules of Civil Procedure, which establish liberal rules for the joinder of causes of action. But these rules do not dispense with the requirements of venue. Rule 82 explicitly provides that

"These rules shall not be construed to extend or limit the jurisdiction of the district courts of the United States or the venue of actions therein."

Because causes of action could be joined, if properly brought, does not prove that they are properly brought. A liberal rule regarding joinder of actions does not eliminate the problems of suability created by the various venue provisions. The removal statute itself does not impliedly repeal the multitudinous venue restrictions imposed by Congress. And certainly rules 15 and 18 did not do so, especially since rule 82 contains a specific disavowal of such implications.

The provision of the removal statute that once a suit is removed, the district court shall "proceed therein as if the suit had been originally commenced in said district court," § 38 of the Judicial Code, 28, U. S. C. § 81, in no wise extends the jurisdiction or venue of the district court after removal. The provision means only that when a suit is removed to the federal courts, it shall be disposed of in the manner in which business is conducted there. The requirement of federal law that there be a unanimous verdict of the jury, for example, applies even to suits removed from a state court where a majority of eight can render a verdict. See *Minn. & St. Louis R. R.* v. *Bombolis*, 241 U. S. 211. Of course, therefore, the Federal Rules of Civil Procedure are equally applicable to suits removed to the federal courts. Rule 81(*c*). But the venue restrictions imposed by federal legislation and left undisturbed by the rules are not eliminated merely because the suit is one which has been removed. The venue of the federal court is the same, whether the suit be originally instituted in or removed to the federal court. It certainly is not enlarged by the fact of removal.

Joinder is permissible only if the causes of action are properly in court, that is, if the requirements of venue as well as jurisdiction are satisfied. If these requirements are not met, an order of court directing joinder cannot dispense with them. The respondent here sought to add a cause of action for treble damages under § 4 of the Clayton Act—a cause of action over which the district court in Massachusetts could have venue only if the petitioner resided in Massachusetts, or was found there either in person or through an accredited agent. But at the time of the proposed amendment to the complaint seeking to add this claim, the petitioner was not a resident of Massachusetts nor can he be said to have been "found" there in any legitimate sense of the word. His only contact with Massachusetts was the fact that he was a defendant in an action for breach of contract brought in a Massachusetts state court and properly removed to the federal district court there. If the respondent had instituted a separate suit in Massachusetts against the petitioner under the anti-trust laws, neither the state court, *Blumenstock Bros.* v. *Curtis Pub. Co.*, 252 U. S. 436, 440, nor the federal court in Massachusetts could entertain the suit on the ground that the petitioner was "found" there merely because he was a defendant to the contract suit.

I know of no case which has construed the requirement of "found," as applied to a natural person, to mean anything less than actual physical presence. The Neirbo case is obviously without relevance here. The problem there was that of fitting a fictive personality into legal categories designed for natural persons. A corporation is never "found" anywhere except metaphorically. In recognition of this fact the Nierbo case held that when a corporation assents to the conditions governing the doing of business within a state, it is as much "found" there for purposes of federal law as for those of state law. But in the case of a natural person, he can be "found" not metaphorically but physically. And when a person is not actually physically present in a place, he is not, "so to speak," "found" there except in the world of Alice in Wonderland.

The case therefore reduces itself to this: if the petitioner had not removed the action for breach of contract to the federal court, he could not possibly be compelled to defend a suit under the anti-trust laws brought against him in Massachusetts. His mere exercise of the right of removal given him by Congress has resulted in his being made subject to suit in a place other than that specified by Congress in § 4 of the Clayton Act. This is to add to the removal privilege a condition of hardship which Congress itself has not imposed for the simple reason that it runs counter both to the underlying assumption of diversity jurisdiction and to the historic rule that the

"jurisdiction of a district court in personam has been limited to the district of which the defendant is an inhabitant or in which he can be found." *Robertson* v. *Labor Board*, 268 U. S. 619, 627.

The Court invokes no policy of judicial administration which could warrant disregard of this long established legislative policy.

The derivative nature of removal jurisdiction, see *Missesota* v. *United States*, 305 U. S. 382, 389, is not based upon technical rules of law. Congress deemed it fair and just that a nonresident who is being sued outside his state should be able to transfer the suit to a neutral federal court without losing or gaining any privileges by such transfer. The decision in this case turns an opportunity given by Congress to assure fairness and impartiality into a Hobson's choice. By removing a suit to the federal court a defendant is subjected to a liability—namely, to be sued in a district where he is neither a resident nor found, under a statute providing that he can be sued only where he is either a resident or found—from which he would be free if he remained in the state court. In other words, the right of removal is curtailed by depriving a defendant of territorial immunities from suit given by Congress in the enforcement of federal statutes, presumably because it deemed place for suit important in a country having the dimensions of a continent.

Mr. Justice ROBERTS, Mr. Justice REED and Mr. Justice JACKSON join in this dissent.

U. S. Court of Customs and Patent Appeals

POTTS *v.* KIMBALL ET AL.

No. 4,705. Decided February 1, 1943

[134 F.(2d) 327]

1. INTERFERENCE—CONSTRUCTION OF COUNTS.
Held that in construing interference counts, definite, specific limitations may not be ignored, and that the doctrine of equivalency is not applicable.

2. SAME—SAME.
Where the applicant Potts, in describing in his application in interference the selector mechanism upon which he relied to support a claim copied by him from the Kimball et al. patent, contented himself for the most part by saying that said mechanism is "essentially the same as that illustrated and described in a copending application * * * by S. Morton et al.," and a patent was granted upon the Morton et al. application *Held* that in determining what breadth of construction should be given to the term "cams," appearing in the copied claim, it would seem important to refer to the Morton et al. patent.

3. SAME—PRIORITY.
Record reviewed and *Held* that the application of Potts, the senior party, does not support a claim copied therein from the patent of Kimball et al., the junior party, and accordingly *Held* that priority properly was awarded to Kimball et al. by the Board of Interference Examiners.

APPEAL from the Patent Office. Affirmed.

Mr. Harold B. Whitfield (*Mr. C. B. Hamilton* of counsel) for Potts.

Mr. Marvin J. Reynolds for Kimball et al.

BLAND, *J.*:

The Board of Interference Examiners of the United States Patent Office, in the instant interference proceeding, awarded priority of invention of the single count involved to the appellees, Vernon R. Kimball and Robert F. Dirkes (hereafter referred to as Kimball et al.), Louis M. Potts (hereafter referred to as Potts) has here appealed from the Board's decision.

The interference involves an application of Potts,

filed March 25, 1931, and renewed May 3, 1939, and a patent of Kimball et al., No. 2,135,376, issued November 1, 1938, on an application filed October 22, 1935. The real parties in interest are Potts' assignee, the Teletype Corporation, and Kimball et al.'s assignee, the Western Union Telegraph Company.

Originally, the interference was declared upon two counts, which were claims copied by Potts from the Kimball et al. patent. Both parties filed preliminary statements, and Kimball et al. alleged no date earlier than Potts' filing date of March 25, 1931. Kimball et al. were accordingly placed under order to show cause why judgment on the record should not be entered against them. In answer to such order Kimball et al. filed a motion to dissolve as to both counts. The motion was, by the Primary Examiner, granted as to one count and denied as to the remaining count, which forms the issue in this interference.

The count reads as follows:

1. Signal receiving apparatus comprising a series of movable selector levers, *an independently rotatable selector cam sleeve with a series of cams thereon equal in number to said selector levers* and movable past said levers in substantial synchronism with received line impulses, *means operated by said cam sleeve to initiate the rotation of a second cam sleeve, means operated by said second cam sleeve to initiate the rotation of a third cam sleeve,* and means operated by said third cam sleeve to effect a printing operation and a paper feeding operation. [Italics ours.]

Kimball et al.'s motion to dissolve was on the ground that Potts could not make the count because his application allegedly did not show the following three limitations of said count:

1. An independently rotatable selector cam sleeve with a series of cams thereon equal in number to said selector levers;

2. Means operated by said cam sleeve to initiate the rotation of a second cam sleeve; and

3. Means operated by said second cam sleeve to initiate the rotation of a third cam sleeve.

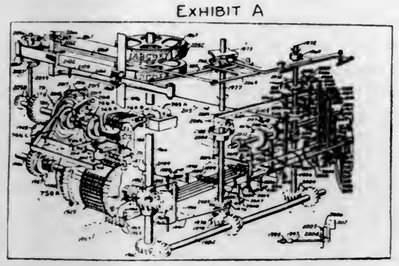
The Primary Examiner held that none of these contentions were tenable and accordingly denied the motion to dissolve as to count 1.

The Board of Interference Examiners held that although Potts could make the second and third limitations of the count, he could not make the first limitation. It therefore awarded priority of the invention of the count to Kimball et al.

In view of our conclusion, it is necessary for us to consider only the first limitation. We are of the opinion that the Potts disclosure does not support it.

The inventions of both parties relate broadly to complicated signal receiving apparatus. That of Potts is particularly devoted to such uses as for stock-ticker bulletin boards, while that of the other party, Kimball et al., is used in recording telegraph messages. Many parts of the devices are not of concern here. The particular issue at bar has to do with what Potts, in his specification, refers to as a "selector mechanism," which is shown in his Fig. 65. Additional reference numerals were inserted on Fig. 65 for the purpose of explanation, and the resultant drawing appears in the record as Exhibit A. We here reproduce Exhibit A.

EXHIBIT A



In discussing this figure of the Potts disclosure, the Primary Examiner had the following to say:

With regard to count 1, Kimball et al. argue that the structure of Fig. 65 does not support count 1 in that it calls for a cam sleeve with a series of cams thereon equal in number to the selector levers. They state that since the Potts disclosure has six selector levers and twelve cams it does not fulfill the language of the count. It is to be noted, however, that the cams of the Potts disclosure are in pairs with one pair for each selector lever and that each pair of cams performs the cam function as each single cam of the Kimball et al. device, i. e. one selector lever is selected or set by each cam of the Kimball et al. device and one selector lever is selected or set by each pair of cams of the Potts device. In other words Potts discloses a series of cams (*a series of cam pairs*) equal in number to the selector levers. [Italics ours.]

The Board described the Potts device as follows:

In the device as disclosed by Potts, with particular reference to Exhibit A, the single selector magnet 745A is operated in accordance with the selection signals transmitted over a wire line. A cam sleeve 744B operates in synchronism with the permutation signals and this cam sleeve has mounted thereon a series of twelve cam levers 744A. In accordance with the movement of the selector magnet 745A, one or the other of a pair of cams 744A are moved under one or the other of the forked ends of the selector levers 744 and the lever is tilted to one position or the other depending on whether a mark or space signal was transmitted at that instant. When the complete selection signal, consisting in this instance of a start signal, six permutation signals which may be either mark or space, and a stop signal, has been sent, the series of six levers 744 are tilted either clockwise or counterclockwise in accordance with whether a mark or space signal was transmitted at the time they were actuated by the cam means 744A. After the signal has been set up in the permutating levers 744 the bail member 746B riding on the cam 746A drops in a notch allowing arm 746C to tilt and release the cam 2018 for rotation. The cam 2018 in rotating, rotates the bail 750 which in turn lifts the levers 751 to contact the selecting levers 744. The levers 751 by contacting with the selector levers cause the discs 147 to rotate a small amount either clockwise or counterclockwise, depending on the position of the tilt of the selector levers 744. The permutation signal is therefore set up in the six discs 147 by permutably rotating these discs. The discs 147 have a series of notches in their periphery which are so positioned that any permutation of the rotation of these discs will allow for a registry of only a single notch in the circumference of these discs. About the spaced circumference of these discs are located pins 148 which when the notches of the discs are in alignment are pressed inwardly towards the axis of the discs. On reception of any permutation signal, the discs 147 having been rotated in accordance with that permutation, one pin 148 is allowed to drop in the aligned notches. Through the center of these discs passes a rotating shaft 1946 bearing a rotating arm 197 which is so located that it will contact the pin 148 that has dropped into the aligned notches. When this arm contacts the selected pin 148, the arm is rotated to move the cam sleeve 1993 towards the discs and by action of this cam sleeve the lever 1991 is rotated to release the latching bar from the latch 1976. The release of this latching bar allows the shaft 1977 to operate for a quarter revolution and through the cam 1973 and linkage bars the tape is advanced and pressed against the typewheel to print the selected character.

In the Potts device the typewheel 1967 is continuously rotating and operates in synchronism with the shaft 1946 and the printing is accomplished by causing the tape to be pressed against the typewheel at the instant that the proper letter passes the striking position on the tape.

In making its holding on the limitation of the count here under consideration, the Board had this to say:

The party Kimball et al. contends that Potts has no right to make the count for the reason that he does not disclose a "selector cam sleeve with a series of cams thereon equal in number to said selector levers." Kimball et al. point out that in the Potts device his cam sleeve 744B has twelve cams 744A mounted thereon while only six selector levers 744 are used. Kimball et al. therefore contend that Potts does not have a series of cams equal in number to the selector levers but, on the contrary, has twice as many cams as selector levers. The Primary Examiner, in passing on this question, stated that the cams of the Potts disclosure were in pairs, with one pair for each selector lever and that each pair of cams performed the same function as each single cam of the Kimball et al. device or, in other words, that Potts disclosed a series of cams (a series of cam pairs) equal in number to the selector levers.

It is true that the device as disclosed by Potts performs the same function as the device of Kimball et al. and we believe that it is likewise true that the pairs of cams as disclosed by Potts are equivalent to each of the single cams of Kimball et al. However, the doctrine of equivalency is not applicable to interference proceedings. *Dawson* v. *Martin,* 27 C. C. P. A. 1155, 111 F.(2d) 300, 519 O. G. 523. The issue involved herein relates to a mechanical structure and the mere fact that the device as disclosed by Potts may perform an equivalent function does not entitle him to a claim which is specific to a structure other than that disclosed by him. The count clearly and unequivocally states that the cam sleeve contains a series of cams equal in number to the selector levers and it is not seen that this clear and unambiguous language can be read on a device wherein twice as many cams as selector levers are provided.

It seems to us that the Board has arrived at the right conclusion. It is also apparent that the Examiner would have arrived at the same conclusion as the Board, had it not been for the fact that he turned the issue on the question of equivalency. He stated that " each *pair of cams* performs the cam function as each single cam of the Kimball et al. device." [Italics ours.]. In other words, he stated that where Kimball et al. have a single cam, Potts has a pair of cams. It is not disputed that Kimball et al. have but five cams and five selector levers.

[1] Potts argues that Kimball et al. have a spring to perform the function of one of his (Potts') cams. We regard the phrase, "cam sleeve with a series of cams thereon equal in number to said selector levers," as a definite, specific limitation of the count. Such limitations may not be ignored in interference proceedings like the one at bar, and it is not sufficient to urge that the structures are equivalents in function. *In re Key,* 459 O. G. 5, 22 C. C. P. A. (Patents) 1098, 76 F.(2d) 398; *Mitchell et al.* v. *White,* 490 O. G. 485, 25 C. C. P. A. (Patents) 788, 93 F.(2d) 216.

Potts concedes that the law is settled that "definite" limitations cannot be ignored and that the doctrine of equivalency does not apply in interference proceedings. He argues, however, as follows:

This court has consistently and properly declined to apply the doctrine of equivalency in the construction of counts in Patent Office proceedings. The doctrine is not pertinent to the present facts, for even though the respective structures are the full equivalent and operate interchangeably, the count fails to include a positive and definite limitation, which precludes reading the count on the Potts structure. There is involved in the present case merely the calling of essentially the same thing by two different names.

The foregoing conclusion is further substantiated by considering the word "cams" as cam means on the rotatable selector cam sleeve equal in number to the selector levers. Cams definitely constitute cam means, and Potts, as is equally true of Kimball et al., discloses a selector cam sleeve with cam means in the form of cam pairs, double acting cams, equal in number to the selector levers.

The language of the count is broad enough to cover the Potts machine which not only performs the same function but uses the same means, i. e., a cam as Kimball et al. It is not a question of equivalency of means but an identity of means. *The cam means of Potts is identical in function* to the cam means of Kimball et al., to-wit, operating the selector levers individual thereto. [Italics ours.]

It will be observed from the foregoing that appellant argues that the question here is one of "identity" rather than of "equivalency." Immediately following that contention, however, is the statement that the

"cam means of Potts is identical in function to the cam means of Kimball et al., to-wit, operating the selector levers individual thereto."

It seems clear to us that this last statement is based entirely on the doctrine of equivalency, as was found by the Board. Moreover, the contention of Potts that his cam means is identical with Kimball et al.'s cam, since it performs the same function, is not convincing. They are certainly not identical structures, and even if it were conceded that they are identical in function, it would make no difference because we are concerned here with structure and not with function. However, there can be no dispute but that Potts' two cams, or pair of cams, perform the same function as one of Kimball et. al.'s cams and a spring and second cam sleeve. Certainly, upon that fact it cannot reasonably be concluded (if it were important here) that Potts' "cam means" performs the same function as Kimball et al.'s cam.

Potts also argues that he discloses a "plurality of integral double acting cams." In view of our conclusion, it may not be essential to answer this contention, but we do not think that such is a fair description of Potts' structure. That language would imply that each selector lever is in fact operated by a single cam which has a double action. As we see it, each cam acts independently and in separate selecting cycles. In moving a selector lever in one direction, one cam does the work in that particular cycle, and if the lever is to be moved in the opposite direction, it is so moved in a different cycle by the action of the other cam. It seems, therefore, that Kimball et al.'s contention that each cam acts "entirely independently of the other and in different printing cycles" is correct.

[2] In his application, Potts did not fully describe the here-involved selecting device or mechanism, which is but a part of the whole machine of the Potts disclosure. Several numerals now on Exhibit A were not referred to. Potts contended himself for the most part by saying that the selecting device of the instant application is

"essentially the same as that illustrated and described in a copending application No. 348,612 filed March 20, 1929, by S. Morton et al."

(which matured into Patent No. 1,821,110, September 1, 1931).

In determining what breadth of construction we should give to the term "cams" it would seem important to refer to the Morton et al. patent. We find there the following description of the part or

mechanism to which the Potts application refers in the last above quotation:

The selector cam drum * * * comprises a hollow cylinder with twelve selector cams * * * projecting from its outer surface. Six of these cams are marking cams and six are spacing cams. [Drawing numerals omitted.]

It seems reasonable, therefore, to conclude that Potts, when he filed his application, thought he had a cylinder with twelve selector cams instead of six, for which he now contends.

[3] Holding as we do that the Potts structure does not support the first limitation of the count, we must conclude that Potts cannot make a claim corresponding to the count here involved and that therefore the Board properly awarded priority of the invention of the count to Kimball et al. The decision of the Board is accordingly affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE COPEMAN

No. 4,735. Decided April 5, 1943

[135 F.(2d) 349]

PATENTABILITY—DOUBLE PATENTING—COATING PROCESS AND PRODUCT.

Claims to a process of coating knit articles with pre-colored rubber, and to the product thereof *Held* unpatentable over the coating process claimed in appellant's reissue patent, in view of statements in said reissue patent that it would be obvious that the coating material might be colored before application.

APPEAL from the Patent Office. Affirmed.

Messrs. Barnes, Kisselle, Laughlin & Raisch (*Mr. John M. Kisselle, Mr. William F. Sweezey*, and *Mr. Clarence O. McKay* of counsel) for Copeman.

Mr. W. W. Cochran (*Mr. R. F. Whitehead* of counsel) for the Commissioner of Patents.

BLAND, *J.:*

Lloyd G. Copeman has appealed here from the decision of the Board of Appeals of the United States Patent Office, which affirmed the decision of the Primary Examiner in rejecting claims 1 to 5 inclusive (all the claims) of his application for a patent relating to a "process of coating knit articles and product thereof."

The alleged invention has especially to do with a

"novel process of coating or treating knit articles formed of thin fine threads which are easily subject to 'laddering' or 'runs' such, for instance, as sheer silk stockings."

It comprises the use of a dilute non-coagulated solution, preferably of rubber latex which has been pre-colored. Such pre-colored rubber is caused to adhere to the individual threads of the knit article in the form of a coating, the spaces between the threads remaining open. The carrying agent is evaporated, leaving the thin coating substantially covering each thread. The rubber coating may then be vulcanized in any conventional manner.

Claims 1 to 4 inclusive are drawn to the process, and claim 5 is directed to a silk stocking treated according to the process. Claims 1 and 4 appear to be representative and read as follows:

1. The art of treating knit articles to prevent "running" of the loops and to dye them, which comprises coating the portion of the article subject to such running with an aqueous dispersion of tinted rubber in dilute form adapted to adhere to the loops and then removing the greater part of said rubber whereby the area within each loop is open and the loops at their points of contact are coated with said rubber with the coating on separate parts of the loops united, said coating being tinted to provide the desired color of the article.

4. The art of simultaneously treating and coloring knit articles to prevent running of the loops and for protecting the threads against moisture, spotting and moths, which comprises coating the individual threads of interconnected loops and adjacent their points of contact, with a dilute non-coagulated solution such as an aqueous dispersion of pre-colored rubber and the like adapted to adhere as a thin film and containing not less than 5% of colored coating solids, with the spaces between the threads free from coating material, evaporating the carrying agent and depositing said solids whereby to form a thin substantially continuous and highly flexible colored coating for the discrete threads and adjacent their points of contact, uniting the coatings of separate but adjacent threads at said points of contact to tie the threads together, and stretching the article to its proper shape and size before curing sets in.

The references relied upon by the Patent Office tribunals are Copeman's own reissue patent, Re. 21,269, November 21, 1939; Teague, 1,845,569, February 16, 1932; Dreyfus, 1,870,408, August 9, 1932; and Blunden (British), 314,727, July 4, 1929.

The Examiner rejected all the claims as unpatentable over appellant's said reissue patent, which patent is for substantially the same process as that involved here except that the aqueous dispersion of rubber in dilute form is not necessarily (but may be) colored prior to treating the article with the same. The Examiner pointed out that pre-coloring the latex was considered a well-known and unpatentable expedient, and called attention to the fact that Dreyfus, Teague, and Blunden showed simultaneous treating and coloring of knit articles by coating with a dilute aqueous dispersion of pre-colored rubber. He said:

* * * Consequently, to use colored latex, as shown by these references, in the process of the Copeman patent, is not considered a patentable variation.

The Board of Appeals, in affirming the Examiner, said:

* * * The main reference cited against the appealed claims is appellant's reissue patent cited above. Ordinarily a copending patent of an applicant is not a proper reference against an application, but it is axiomatic that in order that two patents may be granted there must be two inventions. The patent is directed to the same process as claimed here, but the claims of the patent do not include pre-colored rubber solution although the patent states that the rubber solution can be given any desired tint or color. It is believed that it would be obvious to any one practicing the invention disclosed in the patent to tint or color the rubber before application if it was desired to obtain a finished product of any distinct color. This feature is shown to be old in the other references cited. It is generally recognized that in order that a later issued patent may be valid, it must disclose patentable subject matter over the first patent issued (see *In re Isherwood* 1917, page 226). In the present case it is not seen that the feature of adding the coloring matter desired to the latex before it is applied to the fabric amounts to invention, and, therefore, the decision of the Examiner is affirmed.

Appellant, in his reasons of appeal, has not drawn into question the holding of the tribunals with reference to the prior art disclosure of the pre-coloring of rubber, and his specific reasons challenge only the action of the Board in rejecting the claims on appellant's "copending patent Reissue No. 21,269" and in holding that

"It would be obvious to tint or color rubber before application, to anyone practicing the invention disclosed in patent No. Reissue 21,269."

Appellant's main contention, as stated in brief, is as follows:

The Board of Appeals in rejecting the appealed claims has taken the broad stand that the addition of coloring matter to the latex dispersion disclosed in applicant's reissue patent would not amount to invention over that patent and that therefore the effect of allowing the appealed claims would be the granting of two patents for the same invention.

Appellant then argues that the process of his instant application is not the same as the process of said reissue patent, and that the instant claims are inventive over the claims of the patent, being for a different patentable invention.

It is interesting to note that the present application is called a "continuation in part" of appellant's application Serial No. 407,363, filed November 15, 1929, and that the reissue patent, Re. 21,269 states:

This application is a continuation in part of my application Serial No. 708,163, filed Jan. 24, 1934, which is a continuation in part of another application Serial No. 407,363, filed November 15, 1929.

It is furthermore of importance to note that in said reissue patent the following is found:

The latex used in coating the knitted article, *may, of course, be tinted* so as to produce any color desired. In all instances, I prefer to use as thin a solution of latex as possible and to produce a final article wherein the individual threads are also coated with as thin a film of latex as possible. In those instances where all the threads and the entire length of each thread is coated, *it will be obvious* that such latex coating must either be transparent *or else be tinted* to obtain the desired shade. It may be desirable to knit the article with the original undyed or uncolored thread *and obtain the desired color by the coating.* [Italics ours.]

* * * * * * *

* * * In the case of isolating the coating to the points of contact between the loops, *it will be obvious* that the color effect may be maintained by the original knit article, otherwise when the entire stocking and each thread and loop is coated *it will be obvious* that the coating material *must be tinted* unless the same should be transparent. [Italics ours.]

Appellant argues that said disclosure of pre-tinting in his reissue patent was but a

"scant description of tinted latex"

and would not be adequate to support the appealed claims; that if said description had been considered adequate,

"the present application would have been filed as a divisional application rather than as a continuation-in-part containing specific instructions and disclosing definite coloring materials such as indigo, lamp black and oxidized hydroquinone."

Then he states:

However, applicant is not relying on the adequacy or inadequacy of the disclosure in the patent so much as he is on the fact that the claims are of different scope in the patent and the application and that the appealed claims define separate and independent invention over the patented claims.

Appellant then contends that no double patenting would result from the allowance of the instant claims for the reason that the claims of the reissue patent, and not its disclosure, are the determining factor. While it is true that the claims of a patent, and not its disclosure, are the determining factor, we agree with appellant's statement in his patent that it would be obvious that the coating material might be colored before it is applied. The patent points out that unless the coating were transparent it would hide the color of dyed threads and that therefore the coating, if not transparent, could be pre-colored. It is clear to us that no inventive concept is involved in tinting the latex the desired color before applying it to the textile. This being true, it seems to us that it logically follows that the appealed claims define nothing inventive over the reissue patent.

The law is well-settled that one may not have two patents for the same invention. One reason for this rule is that under the system of granting patents, the monopoly of a single invention might be—as in the present case if the appealed claims were allowed—greatly extended.

The Board of Appeals cited a case by the Court of Appeals of the District of Columbia (now the United States Court of Appeals for the District of Columbia), *In re Isherwood*, 46 App. D. C. 507, 245 O. G. 847. That case holds that where the inventions are the same, even though that claimed in the later-filed application is more specific than the former, the claims of the latter may not be allowed over the patent already granted to the applicant, since he has already obtained in his patent all the protection to which he is entitled. This was the holding irrespective of the fact that the Examiner had required division. That case has been frequently cited by this court as being a proper statement of the law that an applicant's issued patent may be used in rejecting the claims of a subsequent application, although copending with the application of the patent, where the inventions are the same, notwithstanding the fact that the patent is not regarded as prior art. In other words, it is settled law that if an inventor has obtained a patent for a certain invention, he may not, in a subsequent application, be allowed a patent containing claims which do not distinguish patentably over those of the issued patent.

In *In re Fischer*, 19 C. C. P. A. (Patents) 1077, 57 F.(2d) 369, 13 U. S. P. Q. 144, 420 O. G. 571, this court said:

On the question of double patenting, appellant cites *Traitel Marble Co.* v. *Hungerford Brass & Copper Co.*, 22 F.(2d) 259. It is claimed that this case is authority for the proposition that the difference between the claims of a pending application and those of a patent granted to the same party need not amount to invention.

We think the weight of authority is to the effect that an inventor is only entitled to one patent for one invention and that he can not prolong his monopoly by claiming nothing more than the same invention in different language. *In re Hutter*, 55 App. D. C. 210; *In re Woodsome et al.*, 56 App. D. C. 138; *In re Forrest*, 18 C. C. P. A. (Patents) 1028, 47 F.(2d) 395; *In re Laughlin*, 18 C. C. P. A. (Patents) 1239, 48 F.(2d) 921; *In re Isherwood*, 46 App. D. C. 507; *In re Swan*, 18 C. C. P. A. (Patents) 935, 46 F.(2d) 572; *In re Peiler*, 18 C. C. P. A. (Patents) 1102, 48 F.(2d) 405; *In re Byck*, 18 C. C. P. A. (Patents) 1208, 48 F.(2d) 665; *In re Robinson*, 18 C. C. P. A. (Patents) 1271, 48 F.(2d) 931; *In re Slepian*, 18 C. C. P. A. (Patents) 1393, 49 F.(2d) 835.

In *In re Barge*, 25 C. C. P. A. (Patents) 1058, 96 F.(2d) 314, 37 U. S. P. Q. 546, 496 O. G. 270, we had the following to say:

* * * It is, therefore, settled law that in cases like the one at bar it is proper to hold the claims of a later filed application unpatentable in view of the prior art and of the claims of the applicant's issued patent. *In re Isherwood*, 46 App. D. C. 507; *In re Swan*, 18 C. C. P. A. (Patents) 935, 46 F.(2d) 572; *In re Slepian*, 18 C. C. P. A. (Patents) 1393, 49 F.(2d) 835.

It is not a question here as to whether, standing alone, appellant's process of coloring the rubber is inventive, but the important question is whether it is inventive over the claimed process

of appellant's reissue patent, and we think appellant's own statements in that patent, as quoted above, show that it would not be inventive.

For the reasons stated, we think the Patent Office tribunals arrived at the right conclusion. Accordingly, the decision of the Board of Appeals, affirming that of the Examiner in rejecting the appealed claims, is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE LINDEMANN ET AL.

No. 4,717. Decided April 5, 1943

[135 F.(2d) 219]

1. CLAIMS—FUNCTIONAL STATEMENT.

"Many of the claims contain functional statements such as that a lower temperature is maintained in the upper part of the oven than in the lower. Such a functional statement cannot of itself lend patentability to a claim. *In re John Hays Hammond, Jr.*, 17 C. C. P. A. (Patents) 803, 37 F.(2d) 760, 394 O. G. 275."

2. PATENTABILITY—OVEN.

One claim of appellants' application relating to an oven *Held* patentable over the prior art, but the other claims on appeal *Held* unpatentable.

APPEAL from the Patent Office. Modified.

Mr. Stephen J. Cox for Lindemann et al.

Mr. W. W. Cochran (*Mr. E. L. Reynolds* of counsel) for the Commissioner of Patents.

LENROOT, *J.*:

This is an appeal from a decision of the Board of Appeals of the United States Patent Office affirming the action of the Primary Examiner in finally rejecting claims 6, 14, 16, 17, and 21 to 24 inclusive of appellants' application for a patent.

No claims have been allowed. The ground of rejection is that the claims are unpatentable over the cited prior art.

Claims 6 and 24 are illustrative of the subject matter involved and read as follows:

6. In a device of the character described, the combination with an oven compartment of a horizontal partition removably mounted therein, means for supporting the said partition at upper, lower and intermediate positions in said compartment, said partition substantially closing said compartment from side to side and from proximity to front and back thereof, said partition being spaced from the walls of the compartment to leave air passages on two sides thereof between it and the inner walls of the compartment, said compartment having an air inlet at its bottom and an outlet at its top, a burner located adjacent each said opening, a horizontal plate extending over said inlet and between the burner adjacent thereto and said partition, said plate being spaced above and separated from the bottom of the compartment on three sides, said plate extending beyond said last-named burner and closing direct communication between the latter and the compartment to deflect heated gas rising from and passing around said burner against the walls of the compartment and causing them to pass upwardly along said walls, said burners comprising tubular members horizontally disposed and enclosing a space and said space being closed by a horizontal diaphragm or web partly closing said top outlet.

24. In an oven, a burner device at the bottom thereof in communication with and adapted to supply heat for the oven, a horizontal deflecting plate between said device and the bottom of the cooking space of the oven there being passages between it and the walls of the oven to permit the passage of heated gases, a horizontally arranged partition in said oven above the said plate substantially closing the space between vertical walls of the oven and dividing the oven into upper and lower communicating cooking compartments above said plate there being passages around said partition having a substantially smaller area than those of said plate permitting passage of heated air and combustion gases from the burner through said lower compartment past said partition to the upper compartment and maintaining a lower range of effective cooking temperatures in said upper compartment than in said lower compartment for the cooking of different kinds of food simultaneously.

The references cited are: Moon, 823,288, June 12, 1906; Glover, 993,241, May 23, 1911; Meacham, 1,495,862, May 27, 1924.

Appellants' application relates to an oven having upper and lower burners, which, however, are not operable at the same time. A horizontal partition is provided which fits snugly against the side walls of the oven. The partition is so placed with respect to the front and rear of the oven as to leave passages permitting heated gas to flow from the lower into the upper part of the oven. A thermostat is provided, placed in the lower part of the oven adjacent to a wall thereof. The lower part of the oven is provided with a baffle over the burner in order to distribute the heated gases from the burner to the sides and front of the oven. The spaces between the partition and the vertical walls of the oven have a substantially smaller area than the spaces permitting the flow of gas from the burner into the lower part of the oven.

It is appellants' contention that by their structure

"two distinct temperatures are maintained by a single burner in two separate compartments simultaneously so that cooking operations of different types can be carried on therein at one and the same time."

The patent to Glover discloses an oven divided into two parts by a tray, the tray being so dimensioned as to leave spaces at the four sides to enable the heated gases to enter the upper part of the oven. In the lower part of the oven a cone is provided over the burner. Above this cone a plate or false bottom is provided of such dimensions as to leave spaces between its four sides and the four walls of the oven to enable the heated gases to rise. According to the drawings these spaces are at least as large as the spaces between the partition tray and the walls of the oven.

The specification of Glover states:

The invention is of advantage in that the articles being cooked or heated are subjected to the direct radiating heat from four surrounding walls of uprising heated gases, and the heat being reflected at the upper part of the oven the temperature is practically even at all parts thereof.

The patent to Meacham discloses an oven divided into two separate parts by a partition and heated by separate burners. This partition is so dimensioned as to prevent any appreciable amount of gases to flow from one part of the oven to the other. A thermostat is provided near the upper part of the lower compartment of the oven.

The patent to Moon discloses an oven divided into upper and lower compartments by a partition, the only direct communication between them being at the front. Two burners are provided, one for supplying heat to the upper compartment, and the other for the lower.

There is found in the record an affidavit of an expert in household economics, setting forth the great advantages of appellants' device.

Claims 6, 14, 16, and 17 were rejected by the Primary Examiner as lacking patentability over the patent to Glover in view of Meacham and Moon. Claims 21, 22, and 23 were rejected upon Glover in view of Meacham. Claim 24 was rejected upon Glover alone.

The Board of Appeals in its decision stated:

We have carefully considered the citations and application of the same to the terms of the claims as made by the Examiner without finding error in his conclusions as to invention. While an extended discussion of theory is presented by applicants' case as to why there are differences between the action of his oven and that of the citations we are unable to distinguish any definite certain features. The matters appear to be mostly those of indefinite degree. While it is apparent that Glover allows gases to ascend around each of the four sides of his partition instead of only two, we are not convinced that any such unobvious or outstanding results are accomplished in applicants' oven as to constitute invention in this relation. It seems that Meacham's partition 6 would permit gas flow only at the front and rear and not at the sides and Meacham discloses a thermostat 26 in the lower campartment of the oven.

We are unable to agree with the Board's statement that Meacham's partition would permit gas flow from the front and rear. On the contrary the Meacham patent specifically states with respect to the partition disclosed by him, termed "division wall," as follows:

Attention is directed to the fact that the inner walls of the doors 7 and 8 are so constructed that they will make a tight fit against the adjustable division-wall 6, as it may be moved up for enlarging the baking oven, and may be moved down for enlarging the broiling oven. By reason of this construction therefore, a tight joint will be made between the doors for the adjustment of the division wall 6.

However, it appears that Meacham is relevant with respect to the use of a thermostat.

We will first consider claims 6, 14, 16, 17, and 21 to 23. We would observe that none of these claims makes any reference to the size of the air passages permitting the flow of hot gases either into the lower or upper part of the oven. It is true that many of the claims recite that "restricted" passages are provided to permit heated gases to flow past the partition from the lower into the upper part of the oven. However, both Glover and Moon disclose such restricted passages.

In so far as the claims above stated are concerned, we see no material difference in structure from the structure disclosed by Glover and by Moon, except in those which recite the thermostatic element.

The dimensions of the air passages disclosed by appellant on two sides of the oven might be such, so far as the claims are concerned, as would permit the same amount of heated gas to flow into the upper part of the oven, as would the air passages on four sides of the oven as disclosed by Glover, or on the front as disclosed by Moon. It would seem that if appellant secures the novel result claimed for his structure recited in the said claims the structures disclosed by Glover and Moon could be operated to secure the same result.

With regard to the thermostatic element recited in all of the claims except 6 and 24, as already noted, Meacham shows a thermostat in connection with his oven. His specification states:

By means of the thermostat, any desired degree of heat may be maintained in the baking oven. That is to say, the heat is retained in the baking oven at the desired degree for cooking a whole meal when it is desired. Such cooking is usually done in ranges of this type, used in modern kitchens of apartments and small houses.

In addition, as stated by the Primary Examiner, "The use of the thermostatic control of the heat producing elements in ovens is, of course, extremely common." This statement is not challenged in the record.

We hold that the element of the thermostat, recited in the claims, is immaterial upon the question of their patentability.

[1] Many of the claims contain functional statements such as that a lower temperature is maintained in the upper part of the oven than in the lower. Such a functional statement cannot of itself lend patentability to a claim. *In re John Hays Hammond, Jr.*, 17 C. C. P. A. (Patents) 803, 37 F.(2d) 760, 394 O. G. 275.

Appellants' counsel emphasizes the fact that neither Glover nor Moon had any conception of appellants' alleged invention, but that their concept was that the two parts of the oven would be equally heated, which is contrary to the conception of appellants.

The answer to this contention is that it is structure that is here involved, and if there be no material difference between the structures of Glover and Moon and that of appellants as recited in said claims, it is immaterial that Glover or Moon had no conception of the functions that might be performed by the use of their structures.

It is well established that a patentee is entitled to make every use of which his device is susceptible whether he had conceived the idea of the use or not. *In re Herault A. Trester*, 17 C. C. P. A. (Patents) 642, 36 F.(2d) 133, 391 O. G. 501.

To repeat, if the structure set out in said claims would operate as appellants claim, then the said structures of the references could be operated in the same way.

For the reasons stated we find no error in the decision of the Board respecting claims 6, 14, 16, 17, 21, 22, and 23.

Coming now to claim 24, we are not in agreement with the Patent Office tribunals that it is readable upon Glover. In this claim a different structure is claimed than is disclosed in the Glover patent; the element in the claim reading "passages around said partition having a substantially smaller area than those of said plate" is nowhere shown in Glover. In Figure 1 of his drawings the passages around his tray appear to be about the same size as the passages leading into the lower part of the oven, while in Figure 2 the passages around the tray appear to be substantially larger than the lower air passages.

The Primary Examiner seemed to recognize this difference in structure, for in his "Statement" we find the following, referring to claim 24:

This claim, introduced for the purpose of appeal, contains the limitation that the passages around the partition 27 are of a substantially smaller area than those around the plate 24. This limitation cannot be found in the specification or original claims and is not obviously disclosed by the drawings. However, the function sought to be established is that a lower range of effective cooking temperature is maintained in the upper compartment than in the lower compartment. It is the Examiner's position that a temperature differential between the upper and lower compartments of the Glover oven is inherent, for the same reasons as in applicant's device.

While the Examiner does not expressly hold that the element under consideration constituted new matter, such is the implication. As for his statement that this limitation does not appear in the specification he is in error, for it does appear as amended. An amendment embodying, in substance, this limitation was proposed on November 29, 1940, and appears to have been allowed, for there is no record of its rejection.

Furthermore, we cannot agree with the Examiner that this limitation is not obviously disclosed in appellants' drawings, for their Figure 2 clearly shows passageways around the partition of substantially smaller area than those around their plate in the bottom of the oven.

Neither can we agree with the Examiner that the temperature differential resulting through the operation of a structure containing this limitation is inherent in the structure disclosed by Glover. Indeed, it seems to us that if appellants' oven has marked advantages over the structure disclosed by Glover, as claimed in the affidavit in the record, it must be due to the element here under consideration. It is our opinion that this element in the claim renders it patentable.

For the reasons stated we are of the opinion that claim 24 should be allowed.

[2] The decision appealed from is affirmed with respect to claims 6, 14, 16, 17, 21, 22, and 23, and as to claim 24 the decision is reversed.

Modified.

U. S. Court of Customs and Patent Appeals

IN RE REICHEL

No. 4,724. Decided April 5, 1943

[135 F.(2d) 216]

PATENTABILITY—OXYGEN REGULATOR.

Certain claims to an oxygen regulator *Held* unpatentable over the prior art.

APPEAL from the Patent Office. Affirmed.

Mr. Stephen Cerstvik and *Mr. N. D. Parker, Jr.*, (*Mr. C. J. Kalman* of counsel) for Reichel.

Mr. W. W. Cochran (*Mr. R. F. Whitehead* of counsel) for the Commissioner of Patents.

JACKSON, *J.*:

This is an appeal from a decision of the Board of Appeals of the United States Patent Office affirming a decision of the Primary Examiner rejecting claims 4 to 7 inclusive and 12 to 14 inclusive of an application of appellant for a patent on a new and useful improvement in an Oxygen Regulator. Three claims were allowed.

Claims 4 and 5 illustrate the nature of the subject matter involved and read as follows:

4. In an oxygen regulator, means responsive to atmospheric pressure changes, an indicator actuated by said pressure responsive means for determining the value of the pressure change, a casing having an inlet and an outlet, means controlling the output of said casing, an indicator actuated by said control means, and manual means for supplying oxygen to said casing and said output control means to bring the indicator of the latter to a position coincident with the pressure indicator at the indicated pressure, whereby the correct amount of oxygen required is supplied from the outlet at the indicated pressure.

5. In a gas regulator, means providing a chamber having an inlet and an outlet, a rotatable member mounted in said chamber and providing a spirally adjustable path controlling the output of said chamber, indicating means actuated by said rotatable member to indicate the output volume of said chamber, means responsive to varying pressures, means operated by said pressure-responsive means for indicating the value of said pressure, said last-named indicating means comprising a rotatable dial provided with an index, and means for supplying said gas to said chamber for operating said rotatable member so as to cause coincidence between the first-named indicating means and the index on said dial at the indicated pressure, whereby a predetermined amount of gas is supplied from the outlet at the indicated pressure.

The references cited are: Mejean, 2,188,609, January 30, 1940; Cerstvik, 2,197,922, April 23, 1940.

The application relates to a device for use in aircraft, which device supplies oxygen to the pilot or other person on the craft or to the cabin of the aircraft. The purpose of the device is to regulate the supply of oxygen in accordance with the varying needs of the occupants due to change of altitude. It comprises a casing in which there is a rotatable eccentrically mounted vane on a hollow shaft extending through the casing, the vane being adapted for operating an indicator to inform the user of the amount of oxygen being supplied by the regulator, the vane rotating in accordance with the amount of oxygen supplied through a manually operated inlet valve. The oxygen passes out of the device through an outlet pipe. As higher altitudes are reached by the plane, the supply of oxygen manually controlled impels the free end of the vane moving in a clockwise direction gradually away from the interior circumference of the casing, said movement resulting in increasing space for the flow of oxygen. The vane is situated behind a graduated disk face and is provided with an indicator which moves along the periphery of the disk showing the position of the vane. The device also contains an aneroid element (bellows) adapted to expand and contract by reason of variations in altitude. Said movement of the bellows is communicated by means of gearing to a rotatable shaft which moves within the hollow shaft and rotates the graduated disk on the outside of the casing. The disk moves in clockwise direction as the plane reaches higher altitudes, and counterclockwise in descending from said altitudes. Near the edge of the disk is a fixed arrowhead index. The apparatus is so constructed that when the proper amount of oxygen passes through the casing at various altitudes the pointer attached to the vane will move into coincidence with the index arrowhead.

The Mejean patent relates to fluid distributing devices intended to automatically feed the fluid, particularly oxygen, in variable volume in accordance with the changes of pressure of the surrounding medium (atmosphere) and is designed especially for use on airplanes for supplying pilots and passengers with the amounts of oxygen made necessary by change of altitude. In the device of the patent oxygen is supplied from a tank and passed into an expansion means through a pressure reducing valve. From that means oxygen is fed through a pipe provided with a valve, pressable into any throttling position, into a second expansion means from which it flows through an outlet for use. The pipe through which the oxygen enters the first means and the final outlet pipe are provided with throttling valves. In the outlet pipe between the valve and the second expansion means is a flow meter, designated by the patentee as a "rheometer," through which the oxygen passes and which is preferably graduated in altitudes. The altitude is indicated on the rheometer by a swinging arrow hand, and when an altitude is thus indicated the oxygen flowing through the pipe is supposed to be the proper amount for that altitude. The device is provided with a manually operated knob so that the flow of oxygen may be increased if necessary. This necessity, the patentee states, may arise when the rheometer indicates an altitude less than that at which the aircraft is actually flying, as indicated by the panel altimeter in the plane. In other words it seems that if the device is working properly the panel altimeter will correspond in its reading to that of the flow meter. Therefore it would appear that the altitude indication shown on the rheometer under normal conditions coincides with the altitude indicated on the panel altimeter.

The Cerstvik patent relates to automatic fluid regulators, particularly to oxygen regulators for use on aircraft for supplying oxygen to the occupants. The device of the patent as shown by the drawings is somewhat similar in form to that of appellant. It comprises a casing in which is eccentrically mounted a vane, the position of which controls the flow of oxygen to the user. It has intake and output pipes which may be manually operated. The vane, however, is motivated by a series of gears operatively connected with a bellows aneroid means. The vane moves in accordance with the contraction or expansion of the bellows caused by change of external air pressure. This change in pressure, of course, depends upon the altitude.

The Primary Examiner rejected claims 4, 12, 13, and 14 as not patentable over Mejean. He further held those claims to be anticipated by the patent to Cerstvik in view of the patent to Mejean. The Examiner rejected claims 5, 6, and 7 on the patent to Mejean in view of Cerstvik and on Cerstvik in view of Mejean. He stated that those two grounds of rejection were in effect the same as the second ground of rejection given against claims 4 and 12 to 14 inclusive.

While the Examiner expressed his opinion that the claims were properly rejectable as aggregations, he deemed rejection on the prior art to be sufficient and better.

The Board in its decision held that the main difference between the mechanism defined by the involved claims and the devices disclosed in the prior art is that the involved device is hand operated instead of automatically operated, but that such a broad concept did not involve invention. The Board stated:

"After it had once been determined that hand operation would be desirable, all that remained to be done was to select the necessary structural features from the prior art of record."

The Board held the rejected claims to be unpatentable over the cited art, but likewise held that the structural details recited in the involved claims constituted a proper combination, and in this respect reversed the decision of the Examiner.

Appellant filed a petition for reconsideration in which he requested, among other things, that the Board approve certain proposed amendments to the involved claims and allow them subject to their being amended as proposed.

In its decision on the petition the Board refused to consider the proposed amendments.

The issue here is whether or not the appealed claims define patentability over the prior art.

We are of opinion that claims 4, 12, 13, and 14 were properly rejected as unpatentable over the patent to Mejean. Of this group claim 4 is the most specific. The Mejean device discloses a panel altimeter which constitutes the

"means responsive to atmospheric pressure changes;"

the panel altimeter indicator is

"an indicator actuated by said pressure responsive means for determining the value of the pressure change;"

the second pressure means is

"a casing having both an inlet and an outlet;"

the spring inlet valve, diaphragm in the pressure chamber, and aneroids are

"means controlling the output of said casing;"

the rheometer is

"an indicator actuated by said control means;"

and the manually operated knob and the throttling valve on the inlet pipe are

"manual means for supplying oxygen to said casing and said output control means to bring the indicator of the latter [the rheometer] to a position coincident with the pressure indicator [the panel altimeter] at the indicated pressure, whereby the correct amount of oxygen required is supplied from the outlet at the indicated pressure."

Claim 5 is the most specific of the group consisting of claims 5, 6, and 7, and in our opinion reads as follows upon the composite structure which would result in providing the rheometer of the Mejean device on the outlet pipe of the Cerstvik apparatus:

In a gas regulator, means [Cerstvik's casing] providing a chamber [the interior of Cerstvik's casing] having an inlet [the inlet pipe of Cerstvik] and an outlet [the output pipe of Cerstvik], a rotatable member [the vane of Cerstvik] mounted in said chamber and providing a spirally adjustable path [the path created by the rotation of the eccentrically mounted vane of Cerstvik] controlling the output of said chamber, indicating means [the rheometer of Mejean located on the outlet pipe of Cerstvik] actuated by said rotatable member to indicate the output volume of said chamber, means [the panel altimeter with which every aircraft is provided] responsive to varying pressures, means [the indicator of the panel altimeter] operated by said pressure responsive means for indicating the value of said pressure, said last-named indicating means comprising a rotatable dial provided with an index, and means [the intake pipe and the valve thereon of Cerstvik] for supplying said gas to said chamber for operating said rotatable member so as to cause coincidence between the first-named indicating means and the index on said dial at the indicated pressure, whereby a predetermined amount of gas is supplied from the outlet at the indicated pressure.

We think that such composite structure would be obvious to one skilled in the art and therefore lacking in invention.

We cannot agree with the contention of appellant that it is necessary that the prior art show the coincidence of two indicators on a single dial in order to be valid references. In our opinion this coincidence is met by the same indication on two dials read in connection with each other.

It appears to us that all appellant has done with respect to the rejected claims was to select structural features from the Mejean and Cerstvik patents. This in our opinion was the obvious thing to do.

For the reasons set forth herein, the decision of the Board of Appeals is affirmed.

Affirmed.

Disclaimers

2,248,594.—*Alexander C. Wall*, Schenectady, N. Y. ELECTRIC IGNITION DEVICE. Patent dated July 8, 1941. Disclaimer filed July 29, 1943, by the assignee, *General Electric Company.*

Hereby enters this disclaimer to claims 1, 2, 3, 4, 5, and 6 in said specification.

2,258,670.—*James L. Anderson*, Closter, N. J. SPEED CONTROL OF TORCH CARRIAGES. Patent dated October 14, 1941. Disclaimer filed July 31, 1943, by the assignee, *Air Reduction Company, Incorporated.*

Hereby enters this disclaimer to claims 1, 4, 5, 7, 8, 9, 12, 13, 14, 15, and 16, in said specification.

2,269,526.—*James F. Franzen*, Chicago, Ill. APPARATUS FOR CUTTING METAL. Patent dated January 13, 1942. Disclaimer filed July 31, 1943, by the assignee, *Air Reduction Company, Incorporated.*

Hereby enters this disclaimer to claims 3, 4, and 5 in said specification.

2,282,670.—*Robert Baxter Mitchell*, Milwaukee, Wis. FLAME HARDENING PROCESS AND APPARATUS. Patent dated May 12, 1942. Disclaimer filed July 26, 1943, by the assignee, *Harnischfeger Corporation.*

Hereby enters this disclaimer to claims 7, 8, and 10 in said specification.

2,308,488.—*Frank W. Caldwell*, Hartford, *Erle Martin*, West Hartford, and *John E. Anderson*, Portland, Conn. CONTROLLABLE-PITCH AERONAUTICAL PROPELLER. Patent dated January 19, 1943. Disclaimer filed July 22, 1943, by the assignee, *United Aircraft Corporation.*

Hereby enters this disclaimer to claims 9, 10, 12, and 15 of said specification.

TRADE-MARKS

OFFICIAL GAZETTE, AUGUST 24, 1943

[VOL. 553. No. 4]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 460,864. CORN PRODUCTS REFINING COMPANY, New York, N. Y. Filed May 24, 1943.

HUMECTOSE

FOR MODIFIED SYRUP FROM CORN FOR INDUSTRIAL PURPOSES.

Claims use since Apr. 15, 1943.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 460,640. SIEGBERT WETTERHAHN, doing business as Essway Manufacturing and Trading Co., New York, N. Y. Filed May 14, 1943.

Essway

FOR COMPACTS AND VANITY CASES SOLD IN TRADE EMPTY, BILLFOLDS, WALLETS, PURSES, POCKETBOOKS, WRITING CASES, BRIEF CASES, PLAYING CARD CASES, KEY CASES, ROTARY CASES, AND PHOTOGRAPH CASES, ALL OF SAID GOODS BEING MADE OF LEATHER.

Claims use since Apr. 29, 1943.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 461,283. MORRIS MORRIS, doing business as United Chemical Works, Chicago, Ill. Filed June 10, 1943.



FOR FUR CLEANERS AND CLEANING COMPOUNDS.

Claims use since Oct. 12, 1934.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 448,554. EMMA JANE FOUQUE, also doing business as Sandra, Hollywood, Los Angeles, Calif. Filed Nov. 12, 1941.

Applicant disclaims the term "Volterra" apart from the mark.

VOLTERRA MIRACULUM

FOR BEAUTY PREPARATION IN THE NATURE OF A SKIN CREAM.

Claims use since Feb. 8, 1941.

Ser. No. 451,776. PREMO PHARMACEUTICAL LABORATORIES, INC., New York, N. Y. Filed Mar. 20, 1942.

PREMO·TUSS

FOR PREPARATION FOR COUGHS, HOARSENESS, AND BRONCHIAL IRRITATIONS.

Claims use since March 1932.

Ser. No. 458,072. LANMAN & KEMP-BARCLAY & CO. INCORPORATED, New York, N. Y. Filed Jan. 21, 1943.

Applicant is owner of Reg. No. 308,410, "Lanman & Kemp" and Reg. No. 352,457, "Oriental" under the 10-year proviso. In applicant's mark, the body of the carton, except the lower edge, is colored pink, the words "Para El Cabello" and "For the Hair" and the lower edge of the carton are brown in color, and the other lettering and design matter are white, said color combination, as described, constituting part of applicant's trade-mark in the design arrangement shown and in connection with the word mark features. Applicant disclaims the representation of a carton colored pink and the representation of the label. Applicant further disclaims, apart from the mark as shown, all of the wording appearing on the drawing except the words "Oriental," "Lanman & Kemp-Barclay & Co. Incorporated" and the monogram "L & K."



FOR HAIR TONIC.

Claims use since April 1937 for mark as shown; since

1861 for "Lanman & Kemp"; since 1864 for "Oriental"; since 1873 for "Barclay & Co."; and since 1923 for "L & K."

Ser. No. 458,073. LANMAN & KEMP-BARCLAY & CO. INCORPORATED, New York, N. Y. Filed Jan. 21, 1943.

Applicant is owner of Reg. No. 308,410, "Lanman & Kemp" and Reg. No. 352,457, "Oriental" under the 10-year proviso. In applicant's mark, the body of the carton, except the lower edge, is colored pink, the words "Para El Cabello" and "For the Hair" and the lower edge of the carton are brown in color, and the other lettering and design matter are white, said color combination, as described, constituting part of applicant's trade-mark in the design arrangement shown and in connection with the word mark features. Applicant disclaims the representation of a carton colored pink and the representation of the label. Applicant further disclaims, apart from the mark as shown, all of the wording appearing on the drawing except the words "Oriental," "Lanman & Kemp-Barclay & Co. Incorporated," and the monogram "L & K."



FOR HAIR TONIC.

Claims use since April 1937 for mark as shown; since 1861 for "Lanman & Kemp"; since 1864 for "Oriental"; since 1873 for "Barclay & Co."; and since 1923 for "L & K."

Ser. No. 458,574. PHYSICIANS & HOSPITALS SUPPLY COMPANY, INC., doing business as Ulmer Pharmacal Company, Minneapolis, Minn. Filed Feb. 16, 1943.

The drawing is lined for red.

DA-LI-KAPS

FOR MEDICAL PREPARATION AND FOOD SUPPLEMENT FOR CORRECTION OF VITAMIN DEFICIENCIES.

Claims use since Dec. 10, 1941.

Ser. No. 458,902. BAYER-SEMESAN COMPANY, INC., Wilmington, Del. Filed Mar. 5, 1943.

ARASAN

FOR SEED DISINFECTANT AND PROTECTANT.

Claims use since Feb. 13, 1943.

Ser. No. 460,095. GENERAL DYESTUFF CORPORATION, New York, N. Y. Filed Apr. 22, 1943.

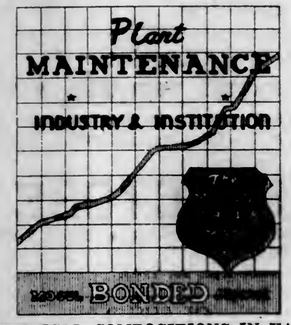
FENOXYL

FOR DYESTUFFS.

Claims use since Apr. 8, 1943.

Ser. No. 460,379. THE NORTH AMERICAN FIBRE PRODUCTS COMPANY, Cleveland, Ohio. Filed May 3, 1943.

All notations except "Mogul" are disclaimed apart from the association shown.



FOR CHEMICAL COMPOSITIONS IN VARIOUS APPLICATIONS — NAMELY, RUST ERADICATOR, BOILER CLEANER AND SCALE REMOVER, WATERPROOFING, AND FOR CORROSION PREVENTION IN HEATING SYSTEMS AND IN WATER SYSTEMS.

Claims use since Feb. 26, 1943.

Ser. No. 460,425. GENERAL DYESTUFF CORPORATION, New York, N. Y. Filed May 5, 1943.

FENANTHRA

FOR DYESTUFFS.

Claims use since Apr. 30, 1943.

Ser. No. 460,541. CLARENCE J. J. STRUBEL, Chicago, Ill. Filed May 10, 1943.

The word "Blaud" is disclaimed apart from the mark.

BLAUD-RUBRA

FOR MEDICINAL PREPARATION BEING A COMBINATION OF BLAUD AND VITAMIN B_1 (THIAMINE HYDROCHLORIDE) USED IN THE TREATMENT OF ANEMIA COMPLICATIONS AS WELL AS THE TREATMENT AND PROPHYLAXIS FOR PATIENTS ON RESTRICTED DIETS AND THOSE CONVALESCING FROM EXHAUSTING ILLNESSES, DEPLETING THE IRON AND VITAMIN RESERVE.

Claims use since Aug. 10, 1942.

Ser. No. 460,679. HELENA RUBINSTEIN, INC., New York, N. Y. Filed May 17, 1943.

The word "Blue" is disclaimed apart from the mark.

SOMETHING BLUE

FOR PERFUMES AND TOILET WATERS.

Claims use since Apr. 29, 1943.

Ser. No. 461,155. VAN PELT & BROWN, INC., Richmond, Va. Filed June 4, 1943.

VANOGEL

FOR PREPARATION IN LIQUID OR TABLET FORM EMBODYING COLLOIDAL ALUMINUM HYDROXIDE FOR THE TREATMENT OF GASTRIC DUODENAL ULCERS.

Claims use since Feb. 21, 1942.

Ser. No. 461,214. THE J. B. WILLIAMS COMPANY, Glastonbury, Conn. Filed June 7, 1943.

Baby's Own

FOR TOILET PREPARATIONS—NAMELY, TALCUM POWDER AND NON-MEDICATED OIL FOR APPLICATION TO THE SKIN.

Claims use since April 1915 on talcum powder; and since Feb. 18, 1942, on non-medicated oil.

Ser. No. 461,222. LIBBY DRUG COMPANY, INC., Wilmington, Del. Filed June 8, 1943.

LIBS

FOR PREPARATION FOR THE RELIEF OF HEADACHE AND NEURALGIA PAINS.

Claims use since Dec. 1, 1941.

Ser. No. 461,343. ENDO PRODUCTS INC., New York, N. Y. Filed June 12, 1943.

TETRABEE

FOR VITAMIN B COMPLEX PREPARATION FOR VITAMIN DEFICIENCIES.

Claims use since Apr. 15, 1943.

Ser. No. 461,352. LEE S. SMITH & SON MANUFACTURING CO., Pittsburgh, Pa. Filed June 12, 1943.

GLUCAINE

FOR DENTAL ANAESTHETICS.

Claims use since Oct. 31, 1940.

Ser. No. 461,362. F. B. CHAMBERLAIN COMPANY, East St. Louis, Ill., and St. Louis, Mo. Filed June 14, 1943.

CHAREM

FOR MEDICINAL PREPARATION FOR POULTRY.

Claims use since June 2, 1940.

Ser. No. 461,488. IMPERIAL CHEMICAL (PHARMACEUTICALS) LIMITED, Slough, Buckinghamshire, England. Filed June 18, 1943.

SULPHAMEZATHINE

FOR PHARMACEUTICAL ORGANIC SUBSTANCES BEING SULPHANILAMIDO COMPOUNDS FOR HUMAN USE INDICATED IN THE TREATMENT OF (1) PNEUMOCOCCAL PNEUMONIA, (2) MENINGOCOCCAL MENINGITIS, (3) HAEMOLYTIC STREPTOCOCCAL INFECTIONS, (4) B. COLI INFECTIONS OF THE URINARY TRACT, AND OTHER CONDITIONS.

Claims use since Mar. 15, 1943.

Ser. No. 461,656. SIDNEY HENRY, New York, N. Y. Filed June 25, 1943.

CHIMÈRE

FOR PERFUME AND TOILET WATER, FACE POWDER, AND LIPSTICK.

Claims use since Apr. 9, 1943.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 460,846. SPEED PRODUCTS COMPANY, Long Island City, N. Y. Filed May 22, 1943.

SPEED

FOR MACHINE STAPLES.

Claims use since July 10, 1936.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 461,055. THE PERMOLD COMPANY, Medina, Ohio. Filed May 31, 1943.

perMold

FOR NON-FERROUS METAL CASTINGS.

Claims use since Apr. 7, 1922; and since Aug. 18, 1942, in the form shown.

CLASS 15

OILS AND GREASES

Ser. No. 461,450. STANDARD OIL COMPANY OF NEW JERSEY, Wilmington, Del. Filed June 16, 1943.

JURNAPAK

FOR LUBRICATING OILS AND GREASES.

Claims use since May 17, 1943.

CLASS 16

PAINTS AND PAINTERS' MATERIALS

Ser. No. 460,745. RED SPOT PAINT & VARNISH CO. INC., Evansville, Ind. Filed May 19, 1943.
The drawing is lined for red.

RED SPOT
Zone-Tone

FOR WASHABLE INTERIOR WALL PAINT.
Claims use since May 8, 1943.

CLASS 19

VEHICLES, NOT INCLUDING ENGINES

Ser. No. 459,396. THE BUDA COMPANY, Harvey, Ill Filed Mar. 27, 1943.

BUDA

FOR VEHICLES — NAMELY, RAILWAY MOTOR CARS FOR PASSENGERS, INSPECTION AND SECTION GANG PURPOSES, VELOCIPEDES, PUSH OR TRAILER CARS, HAND CARS, WHEELS, AXLES, AND BEARINGS, INDUSTRIAL SHOP MOTOR TRUCKS, AND STRUCTURAL PARTS FOR SUCH VEHICLES.
Claims use since 1881.

CLASS 20

LINOLEUM AND OILED CLOTH

Ser. No. 459,018. WESTERN AUTO SUPPLY COMPANY, Los Angeles, Calif. Filed Mar. 10, 1943.
The words "Super Service" are disclaimed except in association with the rest of the mark.

WESTERN'S
Super Surface

FOR FELT BASE FLOOR COVERINGS IN THE NATURE OF LINOLEUM.
Claims use since Feb. 11, 1943.

Ser. No. 457,886. WESTERN AUTO SUPPLY COMPANY, Los Angeles, Calif. Filed Jan. 12, 1943.
The word "Gloss" is not claimed apart from the mark.

WESTERN'S
Dura-Gloss

FOR FELT BASE FLOOR COVERINGS IN THE NATURE OF LINOLEUM.
Claims use since Nov. 30, 1942.

Ser. No. 457,887. WESTERN AUTO SUPPLY COMPANY, Los Angeles, Calif. Filed Jan. 12, 1943.
The words "Wear-Well" are disclaimed apart from the mark.

WESTERN'S
Wear-Well

FOR FELT BASE FLOOR COVERINGS.
Claims use since Dec. 2, 1942.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 444,328. COOK ELECTRIC COMPANY, Chicago, Ill. Filed June 9, 1941.

THERMAL-AIRE

FOR LIMIT SWITCHES IN HEATING SYSTEMS.
Claims use since May 1, 1941.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 458,347. HENRY A. SUSSMAN, New York, N. Y. Filed Feb. 4, 1943.

Admiration

FOR DOLLS, STUFFED ANIMAL TOYS.
Claims use since Jan. 4, 1943.

Ser. No. 461,648. FRANK F. CADLE, doing business as The Eldac Company, Detroit, Mich. Filed June 25, 1943.

ELDAC

FOR TOY TENTS.
Claims use since Oct. 13, 1938.

Ser. No. 461,755. THE BRUNSWICK-BALKE-COLLENDER COMPANY, Chicago, Ill. Filed June 30, 1943.

LIBERATOR

FOR BILLIARD TABLE CUSHIONS.
Claims use since May 19, 1943.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 453,204. CLAYTON P. NIELSEN, also doing business as Mid-States Equipment Co., Chicago, Ill. Filed May 23, 1942.
Applicant disclaims the word "Saw" apart from the mark.

SAW-GUN

FOR PORTABLE POWER DRIVEN HAND SAWS.
Claims use since May 7, 1942.

Ser. No. 460,716. LOUIS A. SPIEVAK, doing business as Products Engineering Company, Los Angeles, Calif. Filed May 18, 1943.

PEC

FOR METAL WORKING AND WOOD WORKING MACHINERY AND TOOLS—NAMELY, CLAMPS, DRILL GUIDES, LOCATING PINS, RIVETING SETS, DIMPLING SETS, SCREW AND FASTENER DRIVERS, DRILLS, COUNTERSINKS, HAND PUNCHES, WRENCHES, AND UNIVERSAL JOINTS.
Claims use since July 1942.

Ser No. 461,495. PENSTAR COMPANY, Chicago, Ill. Filed June 18, 1943.

TRUBOND

FOR BEARINGS.
Claims use since June 8, 1943.

Ser. No. 461,534. THE BULLARD COMPANY, Bridgeport, Conn. Filed June 21, 1943.

MASTER-MATIC

FOR METAL WORKING LATHES.
Claims use since June 16, 1943.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 439,558. POLAROID CORPORATION, Cambridge, Mass. Filed Jan. 10, 1941.

POLAROID

FOR OPTICAL BENCH ELEMENTS.
Claims use since Sept. 1, 1940.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 461,335. PAUL ZWILLINGER, Hollis, Long Island, N. Y. Filed June 11, 1943.

AMPHIBIAN

FOR WATCHES.
Claims use since May 26, 1943.

Ser. No. 461,462. THE GRUEN WATCH COMPANY, Cincinnati and Time Hill, Cincinnati, Ohio. Filed June 17, 1943.

AIRWAYS

FOR WATCHES, WATCH CASES, AND WATCH MOVEMENTS.
Claims use since July 1939.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 461,503. VALENTINE LABORATORIES, INC., Chicago, Ill. Filed June 18, 1943.

ORLIS

FOR TOOTHBRUSHES.
Claims use since November 1940.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 461,934. REFRIGERATION CORPORATION OF AMERICA, New York, N. Y. Filed July 8, 1943.

Transikold

FOR STATIONARY AND PORTABLE MECHANICAL REFRIGERATORS.
Claims use since July 1942.

CLASS 36

MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 461,754. ARNOLD BRILHART, doing business as String Products Company, Great Neck, Long Island, N. Y. Filed June 30, 1943.

Tone Flow

FOR PREPARED ROSIN STRINGED MUSICAL INSTRUMENTS.
Claims use since September 1942.

Ser. No. 461,859. FRED E. WILLIAMSON, doing business as The Paraloy Company, Chicago, Ill. Filed July 3, 1943.

AEROPOINT

FOR PHONOGRAPH NEEDLES.
Claims use since Apr. 27, 1943.

CLASS 37

PAPER AND STATIONERY

Ser. No. 454,396. BESSIRE & COMPANY, INC., Indianapolis, Ind., Louisville, Ky., Columbus, Ohio, Atlanta, Ga., Memphis, Tenn., and Richmond, Va. Filed July 22, 1942.

No claim is made to the words "Products" and "Bessire & Company, Incorporated" except as shown. The drawing is lined for red and blue.



FOR DAIRY, BAKERY, AND CONFECTIONER'S PAPER ARTICLES—NAMELY, CHOP FRILLS, CREAMERY RECEIVING SHEETS, GUMMED TAPE, ORNAMENTING PAPER, PIE COLLARS, ROUTE BOOKS, TOOTHPICK SKEWERS, CAKE LACES, DOILIES, WAX PAPERS AND WRAPPERS, WRAPPING PAPER, PAPER CIRCLES, DECORATING LEAVES AND NAPKINS.
Claims use since 1918.

Ser. No. 461,309. DIEBOLD SAFE & LOCK COMPANY, Canton, Ohio. Filed June 11, 1943. Under section 5b of the act of 1905 as amended in 1920.

Applicant is the owner of Reg. No. 161,934 (renewed), and effected under the 10-year proviso.



FOR INDEX CARDS, INDEX FOLDERS, INDEX GUIDES, INDEX TABS, RECORD CARDS, SINGLE AND FOLD-OVER CARD FORMS, AND BUSINESS FORMS.
Claims use since 1938.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 457,523. DENNIS F. CROLLY, doing business as Crolly Advertising Agency, Wilkes-Barre, Pa. Filed Dec. 19, 1942.

StamPix

FOR BOOKS OF PICTURE STAMPS USED IN ILLUSTRATING PERSONAL LETTERS.
Claims use since Dec. 1, 1942.

Ser. No. 461,613. MCKESSON & ROBBINS, INCORPORATED, New York, N. Y. Filed June 23, 1943.

PROFITUNITIES

FOR MONTHLY MERCHANDISING MEDIUM MAGAZINE.
Claims use since June 15, 1927.

Ser. No. 461,643. ZENITH RADIO CORPORATION, Chicago, Ill. Filed June 24, 1943.

Radiorgan

FOR NATIONAL FIELD NEWSPAPER PUBLISHED MONTHLY.
Claims use since September 1942.

CLASS 39

CLOTHING

Ser. No. 453,133. WELLS LAMONT SMITH CORPORATION, now by change of name Wells Lamont Corporation, Chicago, Ill. Filed May 19, 1942.

The mark consists in a figure colored grayish white and representing a white horse. No claim is made to the representation of the goods.



FOR WORK GLOVES.
Claims use since Oct. 25, 1934.

Ser. No. 459,103. BRYAN HOSIERY MILL, INC., Chattanooga, Tenn. Filed Mar. 15, 1943.

Filmray

FOR WOMEN'S HOSIERY.
Claims use since Jan. 26, 1943.

Ser. No. 459,763. RAINBOW SHOPS, INC., Brooklyn, N. Y. Filed Apr. 9, 1943.

Heat Chasers

FOR FEMININE WEARING APPAREL—NAMELY, BED JACKETS, SPORT JACKETS, ANKLETS, SHOES MADE OF LEATHER, FABRIC, AND RUBBER, BEACH SHOES, AND COLLARS.
Claims use since May 1940.

Ser. No. 460,813. PHILIP SHLANSKY & BRO., INC., New York, N. Y. Filed May 21, 1943.

Lammys

FOR LADIES' AND MISSES' COATS.
Claims use since May 1, 1941.

Ser. No. 460,893. RUTH ELKIND, doing business as Brookside Sportswear Company, New York, N. Y. Filed May 25, 1943.

Brookside

FOR KNITTED SWEATERS, DRESSES, SKIRTS, BATHING SUITS, AND BED JACKETS FOR WOMEN, GIRLS, AND CHILDREN.
Claims use since Feb. 1, 1943.

Ser. No. 460,974. WHELLKIN COAT COMPANY, INC., New York, N. Y. Filed May 27, 1943.

Lainewell

FOR LADIES' AND MISSES' SUITS, COATS, AND SPORT COATS MADE FROM WOOLEN FABRICS OR FABRICS WITH A SUBSTANTIAL WOOL CONTENT.
Claims use since May 7, 1943.

Ser. No. 460,986. DALTON HAT COMPANY, Yonkers, N. Y. Filed May 28, 1943.

His Excellency

FOR MEN'S HATS.
Claims use since April 1941.

Ser. No. 461,027. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed May 29, 1943.

Gale

FOR CORSETS AND BRASSIÈRES.
Claims use since July 9, 1921.

Ser. No. 461,101. RENART SPORTSWEAR CORP., New York, N. Y. Filed June 2, 1943.

Confetti

FOR WOMEN'S AND GIRLS' SWEATERS.
Claims use since May 3, 1943.

Ser. No. 461,651. EAGLE CLOTHES, New York, N. Y. Filed June 25, 1943.

COUGAR

FOR WOMEN'S CLOTHING—NAMELY, COATS, TOPCOATS, AND SUITS.
Claims use since Jan. 9, 1941.

Ser. No. 461,661. S. LIEBOVITZ & SONS, INC., New York, N. Y. Filed June 25, 1943.

BRUXTON

FOR NEGLIGEE SHIRTS FOR MEN AND YOUNG MEN; SPORTSWEAR FOR MEN AND YOUNG MEN—NAMELY, SHIRTS AND TROUSERS IN ENSEMBLE SETS AND SEPARATELY; JACKETS AND COATS.
Claims use since July 9, 1940, for shirts; and since Nov. 15, 1940, for remaining goods.

Ser. No. 461,662. S. LIEBOVITZ & SONS, INC., New York, N. Y. Filed June 25, 1943.

BRUXTON PREP

FOR NEGLIGEE SHIRTS FOR MEN AND YOUNG MEN; SPORTSWEAR FOR MEN AND YOUNG MEN—NAMELY, SHIRTS AND TROUSERS IN ENSEMBLE SETS AND SEPARATELY; JACKETS AND COATS.
Claims use since Nov. 30, 1942.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 459,132. ROBERT T. PLATE, doing business as Curly Lox Products, Detroit, Mich. Filed Mar. 15, 1943.

Curl MASTER

FOR NON-ELECTRICAL HAIR CURLERS.
Claims use since Feb. 5, 1943.

Ser. No. 459,696. UNITED STATES RUBBER COMPANY, New York, N. Y. Filed Apr. 7, 1943.

KWIK

FOR BUTTON AND BUTTONHOLE TAPE.
Claims use since Mar. 25, 1943.

CLASS 42

KNITTED, NETTED, AND TEXILE FABRICS

Ser. No. 459,412. EASTMAN KODAK COMPANY, Jersey City, N. J., and Rochester, N. Y. Filed Mar. 27, 1943. Under the act of February 20, 1905, as amended June 10, 1938.

Tecamist

FOR RAYON PIECE GOODS.
Claims use since Jan. 29, 1942.

Ser. No. 459,991. FOREMAN FABRICS INC., New York, N. Y. Filed Apr. 19, 1943.

Olivia

FOR WOVEN TEXTILES IN THE PIECE OF COTTON, RAYON, AND SILK, AND/OR MIXTURES THEREOF.
Claims use since May 19, 1942.

Ser. No. 460,102. WINTERTHUR SILKS LIMITED, London, England, and Dunfermline, Scotland. Filed Apr. 22, 1943.
The word "Canmore" is disclaimed apart from the mark.



FOR BOLTING CLOTH MADE WHOLLY OF SILK.
Claims use since January 1941.

Ser. No. 461,247. ARTHUR S. HEIMAN, INC., New York, N. Y. Filed June 9, 1943.
The word "Slick" is disclaimed except as shown.

"Slick and Slack"

FOR RAYON PIECE GOODS.
Claims use since January 1940.

Ser. No. 461,249. ARTHUR S. HEIMAN, INC., New York, N. Y. Filed June 9, 1943.
The words "Super" and "Prints" are disclaimed.

SUPER WONGO PRINTS

FOR RAYON PIECE GOODS.
Claims use since 1939.

Ser. No. 461,250. ARTHUR S. HEIMAN, INC., New York, N. Y. Filed June 9, 1943.

WONGO

FOR RAYON PIECE GOODS.
Claims use since 1938.

Ser. No. 461,251. ARTHUR S. HEIMAN, INC., New York, N. Y. Filed June 9, 1943.
The word "Prints" is disclaimed.

WONGOBEST Prints

FOR RAYON PIECE GOODS.
Claims use since August 1942.

CLASS 43

THREAD AND YARN

Ser. No. 460,829. THE CLARK THREAD COMPANY, Newark, N. J. Filed May 22, 1943.

ANCHOR

FOR THREAD.
Claims use since Jan. 1, 1858.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 461,558. ARTHUR HERSCHENSOHN, doing business as Bobby Trading Company, New York, N. Y. Filed June 21, 1943.

HEATOL

FOR PERMANENT WAVING PADS FOR APPLICATION TO THE HAIR.
Claims use since November 1941.

CLASS 45

BEVERAGES, NONALCOHOLIC

Ser. No. 455,888. PARK ARTHUR MANROSS, London, Ontario, Canada. Filed Oct. 1, 1942.

SNORT

FOR NON-ALCOHOLIC, NON-CEREAL, MALTLESS BEVERAGE, SOLD AS A SOFT DRINK AND SIRUP AND EXTRACT FOR MAKING THE SAME.
Claims use since Jan. 1, 1942.

Ser. No. 461,227. MATTHIAS ROTHSTEIN, doing business as Rola Cola Bottling Co. and Rola Beverage Co., Erie, Pa. Filed June 8, 1943.

ROLA

FOR NONALCOHOLIC BEVERAGES AND SYRUPS AND EXTRACTS FOR THE MAKING OF THE SAME.
Claims use since Apr. 12, 1943.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 452,680. COLONIAL MOLASSES CO., INC., Jersey City, N. J. Filed Apr. 29, 1942.

VICTROSE

FOR SWEETENING SYRUP USED IN MAKING ICINGS AND IN CANNING FRUITS AND AS A SWEETENING AGENT FOR CONFECTIONS.
Claims use since Feb. 17, 1942.

Ser. No. 453,853. SPARK-O-LIFE COMPANY, Kansas City, Kans. Filed June 24, 1942.

Spark-o-life!

FOR ICE CREAM.
Claims use since June 18, 1942.

Ser. No. 459,258. JOSEPH DI SANTO, doing business as DiSanto & Company, Duluth, Minn. Filed Mar. 22, 1943.
The signature is a facsimile of that of Guiseppe di M. Di Santo, the applicant.

Giuseppe di M. Di Santo

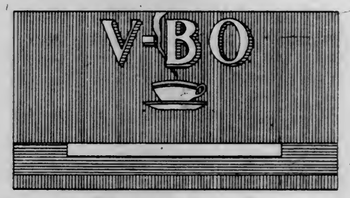
FOR BUTTER.
Claims use since Oct. 25, 1941.

Ser. No. 460,186. ALEXANDER KOZLOWSKI, Bowlus, Minn. Filed Apr. 26, 1943.

IRTAS

FOR CEREAL COMPOSED OF GROUND PEAS AND BARLEY IN DRY FORM FOR MAKING A TABLE BEVERAGE.
Claims use since Mar. 27, 1943.

Ser. No. 461,047. GASTRO FOOD CO., New York, N. Y. Filed May 31, 1943.
The drawing is lined for red and blue.



FOR BOUILLON PASTE.
Claims use since February 1942.

Ser. No. 461,255. LATOURAINE COFFEE CO., Boston, Mass. Filed June 9, 1943.

The applicant is the owner of registration No. 115,200, Jan. 30, 1917, now expired, and registration No. 383,765, registered Dec. 24, 1940.

Hearthstone

FOR COFFEE AND TEA.
Claims use since Oct. 14, 1912.

Ser. No. 461,278. CUMBERLAND DAIRY PRODUCTS CO. INC., Brooklyn, N. Y. Filed June 10, 1943.

SMOO-THEE

FOR CHEESE FOOD PRODUCT CONSISTING PRINCIPALLY OF CHEESE AND WITH OTHER INGREDIENTS ADDED.
Claims use since June 2, 1943.

Ser. No. 461,332. HARRY J. THEOBALD, doing business as The Theobald Industries, Kearney, N. J. Filed June 11, 1943.

Chuck

FOR DOG FOOD.
Claims use since June 1, 1943.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Ser. No. 459,799. BANK OF AMERICA NATIONAL TRUST AND SAVINGS ASSOCIATION, AS EXECUTOR UNDER THE LAST WILL OF ANDREW MATTEI, ALSO KNOWN AS A. MATTEI, DECEASED, Fresno, Calif. Filed Apr. 12, 1943. Under 10-year proviso.

A. Mattei

FOR BRANDY.
Claims use since 1892.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

AUGUST 24, 1943

402,891. VITAMIN FOOD SUPPLEMENT AND A MINERAL FOOD SUPPLEMENT BEING CONCENTRATED EXTRACTS OF VARIOUS ANIMAL AND VEGETABLE PRODUCTS IN FORM TO BE READILY ADDED TO THE DIET TO SUPPLY ADDITIONAL VITAMIN AND MINERAL ELEMENTS NECESSARY TO BALANCED NUTRITION. NUTRILITE PRODUCTS, INC., Los Angeles, Calif.
Filed November 9, 1939. Serial No. 425,485. PUBLISHED JANUARY 21, 1941. Class 46.

402,892. GAS BLOWPIPES AND HANDLES AND BASES THEREFOR. NATIONAL WELDING EQUIPMENT CO., San Francisco, Calif.
Filed June 17, 1940. Serial No. 433,104. PUBLISHED JUNE 8, 1943. Class 34.

402,893. EXPANSIVE BITS. THE IRWIN AUGER BIT COMPANY, Wilmington, Ohio.
Filed August 6, 1940. Serial No. 434,720. PUBLISHED JUNE 8, 1943. Class 23.

402,894. METAL-WORKING LATHES WITH AUTOMATIC CONTROLLER. THE BULLARD COMPANY, Bridgeport, Conn.
Filed October 2, 1940. Serial No. 436,563. PUBLISHED JANUARY 28, 1941. Class 23.

402,895. VASES, BOWLS, FLOWER POTS, CONSOLE SETS AND NOVELTY PLANT OR FLOWER HOLDERS MADE OF EARTHENWARE AND PORCELAIN. THE HAEGER POTTERIES, INCORPORATED, Dundee, Ill.
Filed May 15, 1941. Serial No. 443,603. PUBLISHED JUNE 15, 1943. Class 30.

402,896. GAS COOKING STOVES, INCLUDING FOOD FRYERS. GOLDEN BROWN APPLIANCE MANUFACTURING Co., Lynn, Mass.
Filed May 24, 1941. Serial No. 443,881. PUBLISHED SEPTEMBER 9, 1941. Class 34.

402,897. FRESH CRANBERRIES AND STRAINED CRANBERRY SAUCE. GRAYLAND CRANBERRY GROWERS ASSOCIATION, INC., Grayland, Wash.
Filed October 7, 1941. Serial No. 447,589. PUBLISHED JUNE 15, 1943. Class 46.

402,898. CEMENTITIOUS MATERIAL FOR SURFACING OR COATING WALLS OR FLOORS OR THE LIKE, FOR APPLICATION IN THIN COATS OF ONE-FOURTH INCH OR LESS TO SUCH SURFACES; SUCH MATERIAL IN NO WAY RESEMBLING ARTIFICIAL STONE AND NOT USED AS AN INGREDIENT IN THE MANUFACTURE OF ARTIFICIAL STONE. HENRY S. BLUMENTHAL, Jackson Heights, Long Island, N. Y.
Filed October 17, 1941. Serial No. 447,864. PUBLISHED FEBRUARY 24, 1942. Class 12.

402,899. FIBER WALLBOARD, FLOORING AND WAINSCOATING; ACOUSTICAL CORRECTION TILE; FIBER BOARD SOUND INSULATION AND PLASTER BASE, ETC. THE CELOTEX CORPORATION, Chicago, Ill.
Filed January 24, 1942. Serial No. 450,442. PUBLISHED JUNE 8, 1943. Class 12.

402,900. LADIES' HANDBAGS. GOLD SEAL IMPORTERS, INC., New York, N. Y.
Filed February 18, 1942. Serial No. 451,054. PUBLISHED APRIL 14, 1942. Class 3.

402,901. STOCK FEEDS—NAMELY, HOG CONCENTRATE, DAIRY FEED, CALF GROWING RATION, AND DAIRY CONCENTRATE. ULTRA-LIFE LABORATORIES, INC., East St. Louis, Ill.
Filed February 28, 1942. Serial No. 451,329. PUBLISHED JUNE 15, 1943. Class 46.

402,902. STORM WINDOWS. SUPERIOR SASH AND SCREEN COMPANY, Detroit, Mich.
Filed March 2, 1942. Serial No. 451,352. PUBLISHED JUNE 8, 1943. Class 12.

402,903. SCREWS AND BOLTS. THE MONARCH CAP SCREW & MANUFACTURING COMPANY, Cleveland, Ohio.
Filed March 26, 1942. Serial No. 451,916. PUBLISHED JUNE 1, 1943. Class 13.

402,904. GRINDING MACHINES AND PARTS THEREOF. JAMES DONALDSON COMPANY, INC., New York, N. Y.
Filed April 18, 1942. Serial No. 452,418. PUBLISHED JUNE 8, 1943. Class 23.

402,905. MEDICINAL PREPARATION FOR THE TREATMENT OF EPILEPSY AND OTHER CONVULSIVE CONDITIONS. SANDOZ CHEMICAL WORKS, INC., New York, N. Y.
Filed July 8, 1942. Serial No. 454,104. PUBLISHED JUNE 15, 1943. Class 6.

402,906. DRIED FRUITS, DRIED VEGETABLES, CANNED VEGETABLES, CANNED FISH, CANNED TOMATO PASTE, SPAGHETTI SAUCE, ETC. RIVERBANK CANNING COMPANY, Riverbank, Calif.
Filed July 27, 1942. Serial No. 454,543. PUBLISHED JUNE 8, 1943. Class 46.

402,907. POLISH AND CLEANER FOR FLOORS AND FURNITURE. UNITED CHEMICAL COMPANY, INC., Kansas City, Mo.
Filed July 29, 1942. Serial No. 454,589. PUBLISHED JUNE 15, 1943. Class 16.

402,908. METAL STRAPPING EMPLOYED IN REINFORCING BOXES, CRATES, BALES AND PACKAGES, AND IN LOADING FREIGHT CARS AND OTHER CARRIERS. ACME STEEL COMPANY, Chicago, Ill.
Filed August 28, 1942. Serial No. 455,151. PUBLISHED JUNE 8, 1943. Class 13.

402,909. ELECTRICAL SOUND-AMPLIFYING DEVICES, LOUD-SPEAKING TELEPHONES, MARINE TELEPHONES, AIRCRAFT TELEPHONES, ETC. THE MAGNAVOX COMPANY, Fort Wayne, Ind.
Filed September 23, 1942. Serial No. 455,707. PUBLISHED JUNE 15, 1943. Class 21.

402,910. OIL TEMPERATURE REGULATORS FOR REGULATING THE TEMPERATURE OF OILS USED IN AUTOMOTIVE VEHICLES OR OTHER POWER PLANTS. UNITED AIRCRAFT PRODUCTS, INC., Dayton, Ohio.
Filed October 1, 1942. Serial No. 455,895. PUBLISHED JUNE 8, 1943. Class 34.

402,911. FLEXIBLE ROD, TAPE, AND TUBULAR HOSE MADE IN WHOLE OR IN PART OF SYNTHETIC ORGANIC PLASTICS. PIERCE PLASTICS, INC., Bay City, Mich.
Filed October 9, 1942. Serial No. 456,105. PUBLISHED JUNE 15, 1943. Class 50.

402,912. BIMONTHLY PUBLICATION RELATING TO AVIATION, OF A PICTORIAL AND SEMITECHNICAL NATURE. LOUIS H. SILBERKLEIT, New York, N. Y.
Filed October 16, 1942. Serial No. 456,250. PUBLISHED MAY 11, 1943. Class 38.

402,913. PITCH, TAR, RESIN, AND RUBBER COMPOUNDING MATERIAL. ALLIED CHEMICAL & DYE CORPORATION, New York, N. Y.
Filed October 28, 1942. Serial No. 456,482. PUBLISHED JUNE 15, 1943. Class 1.

402,914. JEWELRY, AND SPECIFICALLY FOR RINGS, BROOCHES, PINS, EAR CLIPS, NECKLACES, AND BRACELETS, NOT INCLUDING WATCHES. BORIS SELWYN, doing business as Diamond Importing Company, Los Angeles, Calif.
Filed December 12, 1942. Serial No. 457,373. PUBLISHED JUNE 15, 1943. Class 28.

402,915. GREETING AND MESSAGE SHEETS. MILLER ART COMPANY, INC., Brooklyn, N. Y.
Filed December 16, 1942. Serial No. 457,443. PUBLISHED JUNE 15, 1943. Class 37.

402,916. PULLEY-BLOCKS. JOHN H. FLYNN, Cincinnati, Ohio.
Filed December 26, 1942. Serial No. 457,607. PUBLISHED JUNE 8, 1943. Class 23.

402,917. AIRCRAFT PROPELLERS, PARTS AND ATTACHMENTS THEREFOR. UNITED AIRCRAFT CORPORATION, East Hartford, Conn.
Filed January 8, 1943. Serial No. 457,817. PUBLISHED JUNE 8, 1943. Class 19.

402,918. AIRCRAFT PROPELLERS, PARTS AND ATTACHMENTS THEREFOR. UNITED AIRCRAFT CORPORATION, East Hartford, Conn.
Filed January 8, 1943. Serial No. 457,818. PUBLISHED JUNE 8, 1943. Class 19.

402,919. AIRCRAFT PROPELLERS, PARTS AND ATTACHMENTS THEREFOR. UNITED AIRCRAFT CORPORATION, East Hartford, Conn.
Filed January 8, 1943. Serial No. 457,819. PUBLISHED JUNE 8, 1943. Class 19.

402,920. COATED SHEET MATERIAL—NAMELY, PAPER, PARCHMENT, AND CELLOPHANE FOR WRAPPING, PACKAGING, AND COVERING. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio.
Filed January 19, 1943. Serial No. 458,011. PUBLISHED JUNE 15, 1943. Class 37.

402,921. COOKIE ROLLING PINS. LOUIS GURRIERI, doing business as L. Gurrieri Co., New York, N. Y.
Filed January 21, 1943. Serial No. 458,069. PUBLISHED JUNE 8, 1943. Class 23.

402,922. METAL CLIPS FOR THE ERECTION OF INSULATING MATERIAL NEXT TO A CEILING OR WALL OR AIR DUCT. OLIVER C. ECKEL, doing business as Stic-Klip Mfg. Company, Cambridge, Mass.
Filed February 2, 1943. Serial No. 458,303. PUBLISHED JUNE 8, 1943. Class 13.

402,923. RETAINING RINGS FOR LOCKING, SECURING, OR POSITIONING MOVING PARTS, SUCH AS SHAFTS, GEARS, BEARINGS, AND THE LIKE. WALDES KOH-I-NOOR, INC., Long Island City, N. Y.
Filed February 3, 1943. Serial No. 458,320. PUBLISHED JUNE 15, 1943. Class 23.

402,924. SYNTHETIC RUBBER ROLLERS FOR PRINTING PRESSES, FOOD-PACKAGING MACHINERY, VARNISHING MACHINES, AND WRINGING MACHINES, ETC. RELIANCE RUBBER COMPANY, Emeryville, Calif.
Filed February 8, 1943. Serial No. 458,407. PUBLISHED JUNE 8, 1943. Class 23.

402,925. MEDICINE FOR HUMAN USE IN THE TREATMENT OF ASTHMA. DR. HAIR'S ASTHMA CURE LIMITED, Staines, England.
Filed February 10, 1943. Serial No. 458,459. PUBLISHED JUNE 15, 1943. Class 6.

402,926. PAPER FOLDERS CONTAINING ENVELOPES AND PLAIN POSTAL CARDS. MILTON M. ROCKMORE, New York, N. Y.
Filed February 12, 1943. Serial No. 458,499. PUBLISHED JUNE 15, 1943. Class 37.

402,927. AUTOGRAPHIC REGISTERS AND AUTOGRAPHIC REGISTERS WITH ATTACHED CASH RECEPTACLES. UNITED AUTOGRAPHIC REGISTER CO., Chicago, Ill.
Filed February 12, 1943. Serial No. 458,500. PUBLISHED JUNE 15, 1943. Class 37.

402,928. STEEL PIPE FITTINGS—NAMELY, L's, T's, CROSSES, LATERALS, BRANCHES, NIPPLES, REDUCERS, AND BLANK ENDS. GUSTIN-BACON MANUFACTURING COMPANY, Kansas City, Mo.
Filed February 13, 1943. Serial No. 458,514. PUBLISHED JUNE 1, 1943. Class 13.

402,929. BELT HOOKS. JOHN D. SAWYER, doing business as Sawyer Belt Hook Company, Pawtucket, R. I.
Filed February 13, 1943. Serial No. 458,561. PUBLISHED JUNE 15, 1943. Class 13.

402,930. PUBLICATION PUBLISHED ANNUALLY. GEORGE WYLIE COMPANY, INC., Clay Center, Kans.
Filed February 19, 1943. Serial No. 458,644. PUBLISHED JUNE 8, 1943. Class 38.

402,931. YERBA MATE. SOCIEDAD AUXILIAR FABRIL, AGRICOLA & COMERCIAL S. A., Buenos Aires, Argentina.
Filed February 20, 1943. Serial No. 458,664. PUBLISHED MAY 25, 1943. Class 46.

402,932. POWER SHOVELS. BUCYRUS-ERIE COMPANY, Wilmington, Del., and South Milwaukee, Wis.
Filed February 22, 1943. Serial No. 458,677. PUBLISHED JUNE 8, 1943. Class 23.

402,933. WOOD STAINS, READY-MIXED PAINTS, AND SEMI-PASTE PAINTS. J. F. KURFEES PAINT COMPANY, Louisville, Ky.
Filed February 23, 1943. Serial No. 458,708. PUBLISHED JUNE 15, 1943. Class 16.

402,934. FRESH GRAPES. EDWARD BARBERA, Lodi, Calif.
Filed February 24, 1943. Serial No. 458,720. PUBLISHED JUNE 15, 1943. Class 46.

402,935. WATCHES. BELL WATCH COMPANY, New York, N. Y.
Filed February 24, 1943. Serial No. 458,722. PUBLISHED JUNE 15, 1943. Class 27.

402,936. PACKAGED AND SACKED WHEAT FLOUR. SAMUEL DRILLMAN, doing business under the name of Empire City Flour Co., Brooklyn, N. Y.
Filed February 26, 1943. Serial No. 458,802. PUBLISHED JUNE 15, 1943. Class 46.

402,937. DETERGENT PREPARATION USED AS AN AID TO SOAP AND AS A WATER SOFTENER. FRANKLIN E. EVERSON, doing business as F. E. Everson, New York, N. Y.
Filed March 2, 1943. Serial No. 458,862. PUBLISHED JUNE 15, 1943. Class 4.

402,938. FRESH PEARS. DAY & YOUNG, Santa Clara, Calif.
Filed March 8, 1943. Serial No. 458,959. PUBLISHED JUNE 15, 1943. Class 46.

402,939. REFRACTORY CEMENT PREPARATIONS SUITABLE FOR FURNACE LINING AND REPAIRING. BASIC REFRACTORIES, INC., Cleveland, Ohio.
Filed March 12, 1943. Serial No. 459,042. PUBLISHED JUNE 15, 1943. Class 12.

402,940. DOG FOOD. DOUGHBOY MILLS, INC., New Richmond, Wis.
Filed March 13, 1943. Serial No. 459,071. PUBLISHED JUNE 15, 1943. Class 46.

402,941. DRYING OIL SUBSTITUTE FOR PAINTS AND VARNISHES. NEWPORT INDUSTRIES, INC., Pensacola, Fla.
Filed March 15, 1943. Serial No. 459,128. PUBLISHED JUNE 15, 1943. Class 16.

402,942. AIRPLANES AND STRUCTURAL PARTS THEREOF. VULTEE AIRCRAFT, INC., Vultee Field, Calif.
Filed March 17, 1943. Serial No. 459,181. PUBLISHED JUNE 8, 1943. Class 19.

402,943. MONTHLY HOUSE ORGANS. FEDERAL TELEPHONE AND RADIO CORPORATION, New York, N. Y.
Filed March 24, 1943. Serial No. 459,301. PUBLISHED JUNE 8, 1943. Class 38.

402,944. CUTLERY — NAMELY, POCKETKNIVES, PENKNIVES, SHEARS, AND SCISSORS. GRAEF & SCHMIDT, INC., New York, N. Y.
Filed March 26, 1943. Serial No. 459,367. PUBLISHED JUNE 8, 1943. Class 23.

402,945. AIRPLANE TYPE SHOCK ABSORBERS AND SHOCK ABSORBER PARTS. MONROE AUTO EQUIPMENT COMPANY, Monroe, Mich.
Filed March 29, 1943. Serial No. 459,476. PUBLISHED JUNE 15, 1943. Class 19.

402,946. SAWS FOR CUTTING METAL, METAL SAW DISCS AND BLADES. THE MOTCH & MERRYWEATHER MACHINERY COMPANY, Cleveland, Ohio.
Filed March 29, 1943. Serial No. 459,479. PUBLISHED JUNE 8, 1943. Class 23.

402,947. MOBILE FIRE EXTINGUISHING UNITS. CARDOX CORPORATION, Chicago, Ill.
Filed March 31, 1943. Serial No. 459,533. PUBLISHED JUNE 15, 1943. Class 23.

402,948. MOBILE FIRE EXTINGUISHING UNITS. CARDOX CORPORATION, Chicago, Ill.
Filed March 31, 1943. Serial No. 459,534. PUBLISHED JUNE 15, 1943. Class 23.

402,949. PLYWOOD PANELS. IPIK PLYWOOD CORPORATION, New Orleans, La.
Filed November 2, 1942. Serial No. 459,557. PUBLISHED JUNE 8, 1943. Class 12.

402,950. WATCHES. HOROWITZ & SON, INC., New York, N. Y.
Filed April 1, 1943. Serial No. 459,566. PUBLISHED JUNE 15, 1943. Class 27.

402,951. WATCHES. HOROWITZ & SON, INC., New York, N. Y.
Filed April 1, 1943. Serial No. 459,567. PUBLISHED JUNE 15, 1943. Class 27.

402,952. COMPOSITE BOARD MADE OF LAMINATIONS OF INSULATING FIBER BOARD AND GYPSUM BOARD. WARREN H. BUCHANAN, New Orleans, La.
Filed April 3, 1943. Serial No. 459,590. PUBLISHED JUNE 15, 1943. Class 12.

402,953. PAPER SHEETING. ARTHUR G. VERDOLYACK, Minneapolis, Minn.
Filed April 3, 1943. Serial No. 459,609. PUBLISHED JUNE 15, 1943. Class 37.

402,954. COTTON BATTING OR COTTON BATTS. LOCKPORT COTTON BATTING CO., Lockport, N. Y.
Filed April 5, 1943. Serial No. 459,626. PUBLISHED JUNE 15, 1943. Class 1.

402,955. WATCHES, WATCH-MOVEMENTS, WATCH-CASES AND PARTS THEREOF. HARVEL WATCH COMPANY, New York, N. Y.
Filed April 6, 1943. Serial No. 459,660. PUBLISHED JUNE 15, 1943. Class 27.

402,956. WATCHES, WATCH-MOVEMENTS, WATCH-CASES, AND PARTS THEREOF. HARVEL WATCH COMPANY, New York, N. Y.
Filed April 6, 1943. Serial No. 459,663. PUBLISHED JUNE 15, 1943. Class 27.

402,957. WATCHES, WATCH-MOVEMENTS, WATCH-CASES, AND PARTS THEREOF. HARVEL WATCH COMPANY, New York, N. Y.
Filed April 6, 1943. Serial No. 459,664. PUBLISHED JUNE 15, 1943. Class 27.

402,958. WATCHES, WATCH-MOVEMENTS, WATCH-CASES, AND PARTS THEREOF. HARVEL WATCH COMPANY, New York, N. Y.
Filed April 6, 1943. Serial No. 459,665. PUBLISHED JUNE 15, 1943. Class 27.

402,959. DISINFECTANT, GERMICIDE, AND ANTISEPTIC SOLD IN BULK. THE SELIG COMPANY, Atlanta, Ga.
Filed April 6, 1943. Serial No. 459,677. PUBLISHED JUNE 15, 1943. Class 6.

402,960. COMBINED HOE AND RAKE. WILLIAM ALBERT WURSTER, Portsmouth, Ohio.
Filed April 7, 1943. Serial No. 459,698. PUBLISHED JUNE 8, 1943. Class 23.

402,961. PAPER FOR DUPLICATING USE. DITTO, INCORPORATED, Chicago, Ill.
Filed April 8, 1943. Serial No. 459,701. PUBLISHED JUNE 15, 1943. Class 37.

402,962. COUGH SYRUP. COUGHMASTER COMPANY, INC., Long Island City, N. Y.
Filed April 9, 1943. Serial No. 459,727. PUBLISHED JUNE 15, 1943. Class 6.

402,963. TRANSPARENT PROTECTING ENVELOPES. CURTIS 1000 INCORPORATED, St. Paul, Minn.
Filed April 9, 1943. Serial No. 459,728. PUBLISHED JUNE 15, 1943. Class 37.

402,964. LITHOGRAPHIC PLATE HAVING A PAPER BACKING AND AN ALUMINUM FOIL LITHOGRAPHIC SURFACE USED FOR DIRECT IMAGE WORK. DAVIDSON MANUFACTURING CORPORATION, Chicago, Ill.
Filed April 9, 1943. Serial No. 459,729. PUBLISHED JUNE 15, 1943. Class 50.

402,965. ZINC PLATE USED IN LITHOGRAPHY. DAVIDSON MANUFACTURING CORPORATION, Chicago, Ill.
Filed April 9, 1943. Serial No. 459,735. PUBLISHED JUNE 15, 1943. Class 50.

402,966. GRAIN CEREAL BREAKFAST FOOD. THOMAS T. PRIESTLEY, doing business as New-Way Foods, Pasadena, Calif.
Filed April 13, 1943. Serial No. 459,849. PUBLISHED JUNE 15, 1943. Class 46.

402,967. GREASE COCKS, GREASERS, STUFFING BOXES CONTAINING LUBRICANT, FAT, OR GREASE AND GREASE GUNS FOR USE IN CONNECTION WITH AIRPLANES, ETC. UNI-GUN CORPORATION OF AMERICA, New York, N. Y.
Filed April 13, 1943. Serial No. 459,853. PUBLISHED JUNE 15, 1943. Class 23.

402,968. CUTTING TOOL BITS. RAHWAY MACHINE TOOL CORPORATION, Rahway, N. J.
Filed April 14, 1943. Serial No. 459,887. PUBLISHED JUNE 15, 1943. Class 23.

402,969. MEDICINAL OINTMENT PARTICULARLY ADAPTED FOR RELIEVING PSORIASIS. REUBEN SCHWALBERG, doing business as Zoredex Laboratories, New York, N. Y.
Filed April 14, 1943. Serial No. 459,889. PUBLISHED JUNE 15, 1943. Class 6.

402,970. FRESH VEGETABLES AND MELONS. WARNER & STEWART, Yuma, Ariz.
Filed April 14, 1943. Serial No. 459,891. PUBLISHED JUNE 15, 1943. Class 46.

402,971. FRESH VEGETABLES AND MELONS. WARNER & STEWART, Yuma, Ariz.
Filed April 14, 1943. Serial No. 459,892. PUBLISHED JUNE 15, 1943. Class 46.

402,972. LACTIC ACID AND LACTATES. C. M. ARMSTRONG, INC., New York, N. Y.
Filed April 15, 1943. Serial No. 459,898. PUBLISHED JUNE 15, 1943. Class 6.

402,973. LACTIC ACID AND LACTATES. C. M. ARMSTRONG, INC., New York, N. Y.
Filed April 15, 1943. Serial No. 459,899. PUBLISHED JUNE 15, 1943. Class 6.

402,974. MEDICINAL PREPARATION USED FOR THE RELIEF OF HEADACHE, NEURALGIA, FEVER, PAIN, AND INFLUENZA. KING MANUFACTURING COMPANY, St. Louis, Mo.
Filed April 15, 1943. Serial No. 459,910. PUBLISHED JUNE 15, 1943. Class 6.

402,975. SEDATIVE AND HYPNOTIC PREPARATION. WINTHROP CHEMICAL COMPANY, INC., New York, N. Y.
Filed April 15, 1943. Serial No. 459,916. PUBLISHED JUNE 15, 1943. Class 6.

402,976. DOG RATION. KASCO MILLS, INC., Toledo, Ohio.
Filed April 19, 1943. Serial No. 460,000. PUBLISHED JUNE 15, 1943. Class 46.

402,977. MATTRESSES AND BOX SPRINGS. ESTEE BEDDING COMPANY, Chicago, Ill.
Filed April 22, 1943. Serial No. 460,093. PUBLISHED JUNE 15, 1943. Class 32.

402,978. PRODUCT WHICH COMPRISES AN OINTMENT CONTAINING ALLANTOIN AND SULFANILAMIDE FOR USE IN COMBATTING AND PREVENTING INFECTION FROM PYOGENIC ORGANISMS IN COMPOUND FRACTURES, CONTAMINATED AND CLEAN SURGICAL WOUNDS, AND IN DENTISTRY, WHILE ACCELERATING RESPONSE OF THE GRANULATION TISSUES. THE NATIONAL DRUG COMPANY, Philadelphia, Pa.
Filed April 22, 1943. Serial No. 460,097. PUBLISHED JUNE 15, 1943. Class 6.

402,979. MEDICINAL VITAMIN AND MINERAL PREPARATIONS. AMERICAN HOME PRODUCTS CORPORATION, Jersey City, N. J.
Filed April 23, 1943. Serial No. 460,104. PUBLISHED JUNE 15, 1943. Class 6.

402,980. LUBRICANT FITTINGS TO BE ATTACHED TO APPARATUS TO BE LUBRICATED. LINCOLN ENGINEERING COMPANY, St. Louis, Mo.
Filed April 23, 1943. Serial No. 460,117. PUBLISHED JUNE 15, 1943. Class 23.

402,981. LEATHER GOODS—NAMELY, BILLFOLDS, KEY CASES, AND CHANGE PURSES. NASH, INC., Jersey City, N. J.
Filed April 23, 1943. Serial No. 460,121. PUBLISHED JUNE 15, 1943. Class 3.

402,982. CHEMICAL PRODUCT FOR THE REMOVAL OF SOOT FROM BOILERS. AGNITE CORPORATION, Charlotte, N. C.
Filed April 24, 1943. Serial No. 460,130. PUBLISHED JUNE 15, 1943. Class 6.

402,983. FACE POWDER, DUSTING POWDER, TOILET WATER, PERFUME, SUNTAN OIL, SKIN AND HAIR LOTIONS, BRILLIANTINE, ROUGE COMPACTS, POWDER COMPACTS, LIPSTICKS, SACHET POWDERS, FACE CREAMS, BATH SALTS, TALCUM POWDERS, ROUGES. COTY, INC., New York, N. Y.
Filed April 24, 1943. Serial No. 460,136. PUBLISHED JUNE 15, 1943. Class 6.

402,984. PNEUMATIC PRESSURE SYSTEMS FOR PUMPING, STORING, AND SUPPLYING WATER OR OTHER FLUIDS; PUMPS AND FLUID-PRESSURE MOTORS, EXPLOSIVE ENGINES, AND PARTS THEREOF. THE DURO COMPANY, Dayton, Ohio.
Filed April 24, 1943. Serial No. 460,140. PUBLISHED JUN 15, 1943. Class 23.

402,985. CANDY. FAIR PLAY CARAMELS, INC., Johnson City, N. Y.
Filed April 24, 1943. Serial No. 460,142. PUBLISHED JUNE 15, 1943. Class 46.

402,986. VITAMIN AND MINERAL SUPPLEMENT. THE BOVININE COMPANY, Chicago, Ill.
Filed April 27, 1943. Serial No. 460,208. PUBLISHED JUNE 15, 1943. Class 6.

402,987. AIRCRAFT SERVICING AND REPAIR PLATFORMS AND MACHINERY AND TOOLS CONNECTED THEREWITH. THE WOLFE & MANN MANUFACTURING COMPANY, Baltimore, Md.
Filed April 27, 1943. Serial No. 460,226. PUBLISHED JUNE 15, 1943. Class 23.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

402,988. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BARTMANN & BIXER, INC., New York, N. Y. Filed Apr. 16, 1941. Serial No. 442,619.

DOWNY DOT

FOR MADE UP FABRIC WINDOW CURTAINS COMPOSED OF COTTON, ARTIFICIAL SILK, OR MIXTURES THEREOF.
Claims use since Feb. 1, 1941.

402,989. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PRINCESS PECANS, INC., Camilla, Ga. Filed Nov. 27, 1941. Serial No. 448,986.

CUP O'NUTS

FOR NUT MEATS.
Claims use since Sept. 12, 1941.

402,990. (CLASS 38. PRINTS AND PUBLICATIONS.) THE STANDARD OIL COMPANY, Cleveland, Ohio. Filed May 12, 1942. Serial No. 452,970.

Lubri-Check

FOR INSPECTION INFORMATION FOR AUTOMOTIVE EQUIPMENT PUBLISHED IN CHART AND TAG FORM, SOLD AS SUCH IN TRADE.
Claims use since Apr. 13, 1942.

402,991. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ROBERT FELDMAN, doing business as Flameproof Process Company, New York, N. Y. Filed May 18, 1942. Serial No. 453,078.

GLIDER

FOR BLACKOUT DRAPERY SOLD AS A UNIT WITH FIXTURES AND ATTACHMENTS THEREFOR.
Claims use since May 8, 1942.

402,992. (CLASS 3. BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) AMITY LEATHER PRODUCTS CO., West Bend, Wis. Filed June 18, 1942. Serial No. 453,726.

ROLFS IDENTIFIER

FOR BILLFOLDS.
Claims use since June 10, 1942.

402,993. (CLASS 32. FURNITURE AND UPHOLSTERY.) PEERLESS STEEL EQUIPMENT COMPANY, Philadelphia, Pa. Filed June 25, 1942. Serial No. 453,879.

PEERLESS

FOR STEEL OFFICE FURNITURE—NAMELY, STEEL FILING CABINETS, STEEL DESKS, AND STEEL TABLES.
Claims use since Feb. 10, 1942.

402,994. (CLASS 38. PRINTS AND PUBLICATIONS.) PROGRESSIVE ENTERPRISES, INC., Chicago, Ill. Filed July 20, 1942. Serial No. 454,347.

BASEBALL DIGEST

FOR PUBLICATION ISSUED PERIODICALLY.
Claims use since June 27, 1942.

402,995. (CLASS 38. PRINTS AND PUBLICATIONS.) UNITED PRESS ASSOCIATIONS, New York, N. Y. Filed Aug. 7, 1942. Serial No. 454,786.

WE COVER THE BATTLE FRONTS

FOR PRINTED PRESS RELEASES ISSUED FROM TIME TO TIME, CONTAINING NEWS AND NEWS FEATURES PREPARED FOR ORAL OR VISUAL PRESENTATION.
Claims use since May 3, 1942.

402,996. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CENTURY METALCRAFT CORPORATION, doing business as Lynn Food Products Co., Chicago, Ill. Filed Aug. 15, 1942. Serial No. 454,922.

Mary Lynn

FOR SOUP MIX.
Claims use since June 23, 1942.

402,997. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE WESTINGHOUSE AIR BRAKE COMPANY, Borough of Wilmerding, Pa. Filed Oct. 7, 1942. Serial No. 456,063.

RELAYAIR

FOR FLUID PRESSURE RESPONSIVE CONTROL VALVES FOR BOAT AND SHIP CONTROL SYSTEMS, SUCH AS AN INTERLOCK VALVE UNIT FUNCTIONING TO COORDINATE THE OPERATION OF A SPEED GOVERNOR OR FUEL THROTTLE WITH THAT OF AN AUTOMATIC CLUTCH INCLUDED IN THE MOTIVE MACHINERY OF A SHIP.
Claims use since July 8, 1942.

402,998. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE WESTINGHOUSE AIR BRAKE COMPANY, Borough of Wilmerding, Pa. Filed Oct. 7, 1942. Serial No. 456,064.

CONTROLAIR

FOR CONTROLLERS ADAPTED FOR ASSOCIATION WITH BOAT AND SHIP CONTROL SYSTEMS, SUCH AS A MANUALLY OPERATIVE CONTROL VALVE DEVICE PROVIDED IN THE PILOT HOUSE OR ENGINE ROOM OF A SHIP TO ENABLE SELECTIVE REMOTE CONTROL OF MANEUVERING GEAR GOVERNING SPEED AND DIRECTIONAL OPERATION OF THE MOTIVE MACHINERY.
Claims use since July 9, 1942.

402,999. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) GRUNZWEIG & ZINNER, also doing business as Dorset Ring Co., New York, N. Y. Filed Nov. 12, 1942. Serial No. 456,773.

DORSET

FOR RINGS.
Claims use since July 1, 1942.

403,000. (CLASS 28 JEWELRY AND PRECIOUS-METAL WARE.) PROMOTIONS, INC., Youngstown, Ohio, assignor to Good Housekeeping Wares, Inc., Youngstown, Ohio. Filed Nov. 25, 1942. Serial No. 457,050.

GOOD HOUSEKEEPING

FOR HOLLOW, SOLID, AND PLATED TABLEWARE, TOILETWARE, AND ORNAMENTAL VASES AND BOWLS OF SILVER.
Claims use since Feb. 27, 1942.

403,001. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PROMOTIONS, INC., Youngstown, Ohio, assignor to Good Housekeeping Wares, Inc., Youngstown, Ohio. Filed Nov. 25, 1942. Serial No. 457,052.

GOOD HOUSEKEEPING

FOR LINEN, COTTON, RAYON, AND SILK PIECE GOODS, TABLECLOTHS, NAPKINS, SHEETS, PILLOWCASES, AND TOWELS.
Claims use since Mar. 29, 1942.

403,002. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) W. H. BARBER COMPANY, Minneapolis, Minn. Filed Jan. 1, 1943. Serial No. 457,695.



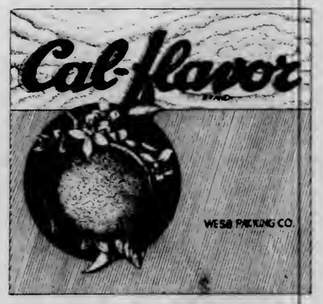
FOR HOG OIL AND ANTISEPTIC.
Claims use since July 1, 1942.

403,003. (CLASS 38. PRINTS AND PUBLICATIONS.) ORLANDO ALOYSIUS BATTISTA, Claymont, Del. Filed Jan. 19, 1943. Serial No. 458,007.

"Quotations Worth Quoting"

FOR A NEWSPAPER OR MAGAZINE FEATURE COLUMN.
Claims use since July 13, 1941.

403,004. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WEBB PACKING CO., INC., Lindsay, Calif. Filed Feb. 1, 1943. Serial No. 458,297.



FOR FRESH CITRUS FRUIT.
Claims use since June 15, 1942; since Nov. 21, 1941 on Cal Flavor.

403,005. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) BECKHER-OTTE, INC., New York, N. Y. Filed Feb. 17, 1943. Serial No. 458,583.

BONA FIDE

FOR RAZORS AND SHEARS.
Claims use since Mar. 26, 1934.

403,006. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DAILEY MILLS, INC., Binghamton, N. Y. Filed Feb. 23, 1943. Serial No. 458,701.

REVITALIZER

FOR FEED FOR POULTRY.
Claims use since Dec. 5, 1940.

403,007. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WATERTOWN WOOLEN CO., Somersworth, N. H. Filed Feb. 27, 1943. Serial No. 458,827.

Baxter TWEED

FOR TWEED PIECE GOODS MADE OF WOOL.
Claims use since April 1941.

403,008. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) GRAEF & SCHMIDT, INC., New York, N. Y. Filed Mar. 26, 1943. Serial No. 459,366

Weikit

FOR NAIL FILES.
Claims use since May 1921.

403,009. (CLASS 38. PRINTS AND PUBLICATIONS.) AHRENS PUBLISHING COMPANY, INC., New York, N. Y., and Chicago, Ill. Filed Mar. 31, 1943. Serial No. 459,528.

HOTEL MANAGEMENT
Including FOOD *and* BEVERAGE PROFITS

FOR A PERIODICAL.
Claims use since January 1942.

403,010. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) EMORY E. JONES, Bluefield, W. Va. Filed Apr. 19, 1943. Serial No. 459,998.

NOPAX

FOR JOURNAL BOXES.
Claims use since August 1941.

403,011. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MANDEE FABRICS, INC., New York, N. Y. Filed May 14, 1943. Serial No. 460,621.

LOOMTRU

FOR RAYON, WOOL, COTTON, AND PROTEIN FIBER FABRICS IN THE PIECE.
Claims use since Feb. 9, 1942.

403,012. (CLASS 39. CLOTHING.) PHILIP SHLANSKY & BRO., INC., New York, N. Y. Filed May 21, 1943. Serial No. 460,812.

Anglo Kurl

FOR LADIES' AND MISSES' COATS.
Claims use since May 1, 1941.

403,013. (CLASS 39. CLOTHING.) MOUNT AIRY KNITTING COMPANY, Mount Airy, N. C. Filed June 2, 1943. Serial No. 461,098.

Spencer's

FOR KNITTED UNDERWEAR IN ONE AND TWO PIECE SUITS FOR MEN, WOMEN, AND CHILDREN.
Claims use since 1910.

403,014. (CLASS 39. CLOTHING.) CLYDE FASHIONS, LTD., New York, N. Y. Filed June 4, 1943. Serial No. 461,131.

Clyde Fashions Ltd.

FOR LADIES' AND MISSES' COATS, SUITS, JACKETS, AND COAT AND SUIT ENSEMBLES.
Claims use since Feb. 27, 1942.

403,015. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GROOV-PIN CORPORATION, Union City, N. J. Filed June 7, 1943. Serial No. 461,193.

GROOV-PIN

FOR TAPERED, GROOVED METAL PINS FOR SECURING PARTS OF MACHINERY TOGETHER.
Claims use since July 1, 1926.

403,016. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) CLASSIC RECORD COMPANY, Pittsburgh, Pa. Filed June 29, 1943. Serial No. 461,736.

HIT

FOR PHONOGRAPH RECORDS.
Claims use since May 14, 1943.

TRADE-MARK REGISTRATIONS RENEWED

23,616. **EUREKA.** HYDRAULIC AND FIRE HOSE. Registered September 19, 1893. EUREKA FIRE HOSE COMPANY. Re-renewed September 19, 1943, to United States Rubber Company, New York, N. Y., a corporation of New Jersey, assignee by mesne assignments.

23,617. **PARAGON.** HYDRAULIC AND FIRE HOSE. Registered September 19, 1893. EUREKA FIRE HOSE COMPANY. Re-renewed September 19, 1943, to United States Rubber Company, New York, N. Y., a corporation of New Jersey, assignee by mesne assignments.

23,618. **REPRESENTATION OF A GREEK CROSS.** HYDRAULIC AND FIRE HOSE. Registered September 19, 1893. EUREKA FIRE HOSE COMPANY. Re-renewed September 19, 1943, to United States Rubber Company, New York, N. Y., a corporation of New Jersey, assignee by mesne assignments.

23,936. **PURE BOTANY CONFINED.** WOOLEN DRESS GOODS. Registered December 19, 1893. BOTANY WORSTED MILLS, Passaic, N. J., and New York, N. Y. Re-renewed December 19, 1943, to Botany Worsted Mills, Passaic, N. J., a corporation of New Jersey.

169,060. **DOMINO.** COAL AND COKE. Registered June 5, 1923. SWASTIKA FUEL COMPANY. Renewed June 5, 1943, to Raton Coal Company, Raton, N. Mex., a corporation of New Mexico, by change of name.

169,061. **"DOMINO" AND DRAWING.** COAL AND COKE. Registered June 5, 1923. SWASTIKA FUEL COMPANY. Renewed June 5, 1943, to Raton Coal Company, Raton, N. Mex., a corporation of New Mexico, by change of name.

169,650. **KIDDER'S.** ASTHMATIC PASTILS. Registered June 26, 1923. SAMUEL KIDDER & CO., INC., Boston, Mass. Renewed June 26, 1943, to Samuel Kidder & Co., Inc., Atlantic City, N. J., a corporation of Massachusetts.

169,869. **ALUOLENE.** PETROLEUM GREASE USED IN MANUFACTURE OF ELECTRICAL INSULATING MATERIALS. Registered July 3, 1923. THE ATLANTIC REFINING COMPANY, Philadelphia, Pa., a corporation of Pennsylvania. Renewed July 3, 1943.

169,970. **FIELD.** SHOT SHELLS. Registered July 10, 1923. WESTERN CARTRIDGE COMPANY, assignor to Western Cartridge Company, East Alton and Springfield, Ill. Renewed July 10, 1943, to Western Cartridge Company, East Alton, Ill., a corporation of Delaware, assignee.

170,082. **"RUSSPHARMACO KREZIVIT" AND DRAWING.** MEDICINE FOR THE TREATMENT OF THE BLOOD AND STOMACH. Registered July 10, 1923. ISRAEL PAUL, doing business as Russpharmaco Products Co., of Philadelphia, Pa. Renewed July 10, 1943.

170,206. **TOSCA.** CERTAIN NAMED TOILET PREPARATIONS. Registered July 10, 1923. N. V. INTERNATIONAL PERFUMERY COMPANY, Amsterdam, Netherlands. Renewed July 10, 1943, to Alien Property Custodian, Washington, D. C., assignee by mesne assignments.

170,291. **THINSTRAP.** OPHTHALMIC LENS BLANKS. Registered July 10, 1923. SUSSFELD, LORSCH & SCHIMMEL. Renewed July 10, 1943, to Selsi Company, Inc., New York, N. Y., a corporation of New York, assignee by mesne assignments.

170,292. **"FIVE POINT" AND DRAWING.** OPHTHALMIC LENSES AND BLANKS. Registered July 10, 1923. SUSSFELD, LORSCH & SCHIMMEL. Renewed July 10, 1943, to Selsi Company, Inc., New York, N. Y., a corporation of New York, assignee by mesne assignments.

170,312. **ARIMEX.** BELTING MADE OF RUBBER AND FABRIC. Registered July 10, 1923. NEW YORK BELTING AND PACKING COMPANY. Renewed July 10, 1943, to United States Rubber Company, New York, N. Y., a corporation of New Jersey, assignee.

170,313. **INSPIRATION.** BELTING MADE OF RUBBER AND FABRIC. Registered July 10, 1923. NEW YORK BELTING AND PACKING COMPANY. Renewed July 10, 1943, to United States Rubber Company, New York, N. Y., a corporation of New Jersey, assignee.

170,401. **CALA RIPE.** CANNED FRUITS AND VEGETABLES. Registered July 17, 1923. FILICE & PERRELLI CANNING CO., Gilroy, Calif. Renewed July 17, 1943, to Filice & Perrelli Canning Company, Incorporated, Richmond, Calif., a corporation of California.

170,455. **"G" IN A CIRCLE.** CERTAIN NAMED ARTICLES OF JEWELRY. Registered July 17, 1923. WILLIAM C. GREENE COMPANY. Renewed July 17, 1943, to Budlong, Docherty & Armstrong, Providence, R. I., a co-partnership, assignee.

170,471. **"TOLEDO VALVES" AND DRAWING.** POPPET VALVES. Registered July 17, 1923. THE TOLEDO STEEL PRODUCTS COMPANY, Toledo, Ohio, a corporation of Ohio. Renewed July 17, 1943.

170,546. **"PREMIER" AND DRAWING.** RUBBER TIRES. Registered July 17, 1923. THE FISK RUBBER COMPANY, Chicopee Falls, Mass. Renewed July 17, 1943, to United States Rubber Company, New York, N. Y., a corporation of New Jersey, assignee by mesne assignments.

170,632. **"CINCINNATUS" AND DRAWING.** READY-MIXED PAINTS, HOUSE PAINTS FOR INTERIOR AND EXTERIOR APPLICATION, PAINT ENAMELS, VARNISHES, STAINS, FILLERS, AND VARNISH STAINS. Registered July 17, 1923. THE KOLBE PAINT COMPANY, Cincinnati, Ohio, a corporation of Ohio. Renewed July 17, 1943.

170,703. **"CARUSO" AND DRAWING.** OLIVE OIL. Registered July 24, 1923. RAFFAELE MARTORELLI, New York, N. Y. Renewal July 24, 1943, to Caruso Products Distributing Corporation, Newark, N. J., a corporation of New Jersey, assignee by mesne assignments.

171,006. **AUTOVALVE.** LIGHTNING ARRESTERS. Registered July 31, 1923. WESTINGHOUSE ELECTRIC & MANUFACTURING COMPANY, East Pittsburgh, Pa., a corporation of Pennsylvania. Renewed July 31, 1943.

171,017. **ACTIVE BOND.** BOND WRITING AND PRINTING PAPER. Registered July 31, 1923. COLLINS MFG. CO., Holyoke, Mass. Renewed July 31, 1943, to Collins Mfg. Co., North Wilbraham, Mass., a corporation of Massachusetts.

171,395. **YARMOR.** PINE OIL. Registered August 7, 1923. HERCULES POWDER COMPANY, Wilmington, Del., a corporation of Delaware. Renewed August 7, 1943.

171,396. **RISOR.** PINE OIL. Registered August 7, 1923. HERCULES POWDER COMPANY, Wilmington, Del., a corporation of Delaware. Renewed August 7, 1943.

171,398. **HERCO.** PINE OIL. Registered August 7, 1923. HERCULES POWDER COMPANY, Wilmington, Del., a corporation of Delaware. Renewed August 7, 1943.

171,399. **FLOTO.** PINE OIL. Registered August 7, 1923. HERCULES POWDER COMPANY, Wilmington, Del., a corporation of Delaware. Renewed August 7, 1943.

171,418. **NINETY-SIX.** RUBBER TIRES. Registered August 7, 1923. THE FISK RUBBER COMPANY, Chicopee Falls, Mass. Renewed August 7, 1943, to United States Rubber Company, New York, N. Y., a corporation of New Jersey, assignee by mesne assignments.

171,448. **"PRAIRIE BELL" AND DRAWING.** SHEETINGS AND SHIRTINGS. Registered August 7, 1923. PACIFIC MILLS, Lawrence and Boston, Mass. Renewed August 7, 1943, to Pacific Mills, Lawrence, Mass., a corporation of Massachusetts.

171,718. **LITTLE WONDER.** CHILDREN'S WAISTS AND SHIRTS, PARTICULARLY UNDERWAISTS WITH OR WITHOUT HOSE SUPPORTERS ATTACHED THERETO. Registered August 14, 1923. THE R. & J. WAIST COMPANY, New London, Conn. Renewed August 14, 1943, to The R. & J. Underwear Company, New London, Conn., and New York, N. Y., a corporation of Connecticut, by change of name.

171,731. **BEAVER.** NONMETALLIC TIRES. Registered August 14, 1923. THE BADGER RUBBER WORKS, Milwaukee and Cudahy, Wis. Renewed August 14, 1943, to United States Rubber Company, New York, N. Y., a corporation of New Jersey, assignee by mesne assignments.

171,754. **"BIG DIAMOND" AND DRAWING.** SCRATCH FEED, DAIRY FEED, HOG FEED, HORSE AND MULE FEED. Registered August 14, 1923. JOHN M. WILSON, doing business as Meridian Grain & Elevator Company. Renewed August 14, 1943, to Meridian Grain & Elevator Co., Meridian, Miss., a firm, assignee.

171,848. **PROTECTO.** APRONS FOR ICEMEN. Registered August 14, 1923. UNITED STATES RUBBER COMPANY, New Brunswick, N. J., and New York, N. Y. Renewed August 14, 1943, to United States Rubber Company, New York, N. Y., a corporation of New Jersey.

172,001. **ALL AMERICAN.** CARBON PAPER. Registered August 21, 1923. KEE LOX MANUFACTURING COMPANY, Rochester, N. Y., a corporation of New York. Renewed August 21, 1943.

172,268. **TRANQUIL.** CARBON PAPER. Registered August 28, 1923. KEE LOX MANUFACTURING COMPANY, Rochester, N. Y., a corporation of New York. Renewed August 28, 1943.

172,279. **"EILEEN" AND DRAWING.** CORSETS. Registered August 28, 1923. F. P. HOY, INC. Renewed August 28, 1943, to Francette Corp., New York, N. Y., a corporation of New York, assignee.

172,326. **TAROL.** COMPOUNDED OIL CONSISTING OF PINE OIL, ROSIN, PITCH, ROSIN OIL, AND PETROLEUM. Registered August 28, 1923. HERCULES POWDER COMPANY, Wilmington, Del., a corporation of Delaware. Renewed August 28, 1943.

172,443. **"F" AND DRAWING.** VEHICLE TIRES MADE WHOLLY OR PARTLY OF RUBBER AND RUBBER TUBES THEREFOR. Registered August 28, 1923. THE FISK RUBBER COMPANY, Chicopee Falls, Mass. Renewed August 28, 1943, to United States Rubber Company, New York, N. Y., a corporation of New Jersey, assignee by mesne assignments.

172,448. **REPRESENTATION OF A SUNBURST DESIGN.** PINS AND HAIRPINS OF NONPRECIOUS METAL AND HAND-SEWING NEEDLES OF ALL KINDS. Registered August 28, 1923. KIRBY, BEARD & CO. LTD., Birmingham, England, a limited liability corporation of Great Britain. Renewed August 28, 1943.

172,449. **REPRESENTATION OF A CROWN AND ELEPHANT'S HEAD.** PINS AND HAIRPINS OF NONPRECIOUS METALS. Registered August 28, 1923. KIRBY, BEARD & CO. LTD., Birmingham, England, a limited liability corporation of Great Britain. Renewed August 28, 1943.

172,450. **REPRESENTATION OF A PIN CUSHION AND PINS.** PINS OF NONPRECIOUS METAL. Registered August 28, 1923. KIRBY, BEARD & CO. LTD., Birmingham, England, a limited liability corporation of Great Britain. Renewed August 28, 1943.

172,457. **"KIRBY, BEARD & CO." AND DRAWING.** PINS AND HAIRPINS OF NONPRECIOUS METAL AND HAND SEWING NEEDLES OF ALL KINDS. Registered August 28, 1923. KIRBY, BEARD & CO. LTD., Birmingham, England, a limited liability corporation of Great Britain. Renewed August 28, 1943.

172,537. **STORAXOL.** OINTMENT FOR ECZEMA AND IRRITATIONS OF THE SKIN. Registered September 4, 1923. PARKE, DAVIS & COMPANY, Detroit, Mich., a corporation of Michigan. Renewed September 4, 1943.

172,642. **CASCO.** CHEESE. Registered September 11, 1923. C. A. STRAUBEL CO. Renewed September 11, 1943, to Kraft Cheese Company of Wisconsin, Green Bay, Wis., a corporation of Wisconsin, assignee.

172,689. **QUAD.** SHINGLE STRIPS. Registered September 11, 1923. SIFO PRODUCTS COMPANY, St. Paul, Minn. Renewed September 11, 1943, to United States Gypsum Company, Chicago, Ill., a corporation of Illinois, assignee.

172,833. **"HERONS" AND DRAWING.** EUCALYPTUS REMEDIES FOR INTERNAL AND EXTERNAL USES FOR COLDS, CATARRH, AND RHEUMATISM. Registered September 11, 1923. NORMAN C. HERON, Los Angeles, Calif. Renewed September 11, 1943.

172,850. **GLASEPTIC.** HYPODERMIC SOLUTIONS IN GLASS CONTAINERS OR AMPOULES. Registered September 11, 1923. PARKE, DAVIS & COMPANY, Detroit, Mich., a corporation of Michigan. Renewed September 11, 1943.

172,975. **"VMC" AND DRAWING.** OXIDES OF COBALT, CHROMIUM, SELENIUM, ZIRCONIUM, TITANIUM, CERIUM, AND TIN, AND SULPHIDE OF CADMIUM. Registered September 11, 1923. THE VITRO MANUFACTURING COMPANY, Pittsburgh, Pa., a corporation of Pennsylvania. Renewed September 11, 1943.

173,360. **TRUTH.** COTTON PIECE GOODS. Registered September 25, 1923. PACIFIC MILLS, Lawrence and Boston, Mass. Renewed September 25, 1943, to Pacific Mills, Lawrence, Mass., a corporation of Massachusetts.

173,492. **JUST AS GOOD.** HORSE AND MULE FEED, OX FEED, HOG FEED, SCRATCH FEED, AND DAIRY FEED. Registered September 25, 1923. JOHN M. WILSON, doing business as Meridian Grain & Elevator Company. Renewed September 25, 1943, to Meridian Grain & Elevator Co., Meridian, Miss., a firm, assignee.

173,495. **WARMSTER.** COATS. Registered September 25, 1923. UNITED STATES RUBBER COMPANY, New Brunswick, N. J., and New York, N. Y. Renewed September 25, 1943, to United States Rubber Company, New York, N. Y., a corporation of New Jersey.

173,792. **THE NONCHALANT.** MEN'S DRESS SUITS, TUXEDO AND FULL-DRESS SUITS, DINNER, DANCE, AND THEATRE JACKETS, RAINCOATS, OVERCOATS, HATS, SWEATERS, COATS, TROUSERS, VESTS, AND KNICKERBOCKERS. Registered October 2, 1923. JOHN DAVID. Renewed October 2, 1943, to John David, Inc., New York, N. Y., a corporation of New York, by change of name.

174,105. **W.** LENSES FOR GOGGLES AND PROTECTION GLASSES. Registered October 2, 1923. WILLSON GOGGLES, INC. Renewed October 2, 1943, to Willson Products, Inc., Reading, Pa., a corporation of Pennsylvania, by change of name.

175,098. **KOKOON.** COTTON AND COTTON AND SILK MIXTURE PIECE GOODS. Registered October 30, 1923. COHN-HALL-MARX CO., New York, N. Y., a corporation of New York. Renewed October 30, 1943.

175,404. **TYCOON.** BRUSHES FOR USE BY PAINTERS, PAPERHANGERS, PLASTERERS, AND ARTISTS, AND DUSTING, SWEEPING, SCRUBBING, WASHING AND RUBBING BRUSHES. Registered November 6, 1923. PITTSBURGH PLATE GLASS CO., RENNOUS-KLEINLE DIVISION, Baltimore, Md. Renewed November 6, 1943, to Pittsburgh Plate Glass Company, Pittsburgh, Pa., a corporation of Pennsylvania.

175,422. **CHLORETONE.** HYPNOTIC AND ANTISPASMODIC. Registered November 6, 1923. PARKE, DAVIS & COMPANY, Detroit, Mich., a corporation of Michigan. Renewed November 6, 1943.

175,541. **"KONA ELKHORN" AND DRAWING.** COAL. Registered November 6, 1923. ELKHORN COAL COMPANY, Lexington, Ky. Renewed November 6, 1943, to Elkhorn Coal Company, Kona, Ky., a corporation of Kentucky.

175,580. **NEONAL.** N-BUTYL-ETHYL-BARBITURIC ACID (A HYPNOTIC COMPOUND). Registered November 6, 1923. ABBOTT LABORATORIES, Chicago, Ill. Renewed November 6, 1943, to Abbott Laboratories, North Chicago, Ill., a corporation of Illinois.

175,650. **KRESO.** INSECTICIDE, ANTISEPTIC, AND GERMICIDE. Registered November 6, 1923. PARKE, DAVIS & COMPANY, Detroit, Mich., a corporation of Michigan. Renewed November 6, 1943.

175,840. **SIMANCO.** ELECTRIC MOTORS, ELECTRIC MOTOR PARTS, CONTROLLERS, AND PARTS THEREOF, AND CERTAIN OTHER NAMED ELECTRICAL DEVICES. Registered November 13, 1923. THE SINGER MANUFACTURING COMPANY, New York, N. Y., and Elizabeth, N. J. Renewed November 13, 1943, to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey.

176,113. **"RED TOP" AND DRAWING.** MALT SIRUPS USED FOR FOOD PURPOSES. Registered November 20, 1923. RED TOP MALT EXTRACT CO. Renewed November 20, 1943, to Red Top Malt Company, Cincinnati, Ohio, a corporation of Ohio, successor.

176,253. **BLACK BEAUTY.** FRESH CITROUS FRUITS. Registered November 20, 1923. LEE COUNTY PACKING COMPANY, Fort Myers, Fla., a corporation of Florida. Renewed November 20, 1943.

176,313. **ANTUITRIN.** EXTRACT ANTERIOR LOBE PITUITARY GLAND. Registered November 20, 1923. PARKE, DAVIS & COMPANY, Detroit, Mich., a corporation of Michigan. Renewed November 20, 1943.

176,325. **"GALVANNEALED" AND DRAWING.** PLAIN GALVANIZED WIRE AND GALVANIZED TELEPHONE WIRE. Registered November 20, 1923. KEYSTONE STEEL AND WIRE COMPANY, Bartonville, Peoria, Ill. Renewed November 20, 1943, to Keystone Steel & Wire Company, Peoria, Ill., a corporation of Illinois.

176,327. **GALVANNEALED.** WIRE FENCE AND BARBED WIRE. Registered November 20, 1923. KEYSTONE STEEL & WIRE COMPANY, Bartonville, Peoria, Ill. Renewed November 20, 1943, to Keystone Steel & Wire Company, Peoria, Ill., a corporation of Illinois.

176,328. **"GALVANNEALED" AND DRAWING.** WIRE FENCE AND BARBED WIRE. Registered November 20, 1923. KEYSTONE STEEL & WIRE COMPANY, Bartonville, Peoria, Ill. Renewed November 20, 1943, to Keystone Steel & Wire Company, Peoria, Ill., a corporation of Illinois.

176,329. **GALVANNEALED.** PLAIN GALVANIZED WIRE AND GALVANIZED TELEPHONE WIRE. Registered November 20, 1923. KEYSTONE STEEL & WIRE COMPANY, Bartonville, Peoria, Ill. Renewed November 20, 1943, to Keystone Steel & Wire Company, Peoria, Ill., a corporation of Illinois.

176,392. **"DITZLER" AND DRAWING.** JAPAN COLORS, VARNISHES, PRIMERS, PAINT ENAMELS, AND MIXED PAINTS. Registered November 27, 1923. DITZLER COLOR COMPANY, Detroit, Mich. Renewed November 27, 1943, to Pittsburgh Plate Glass Company, Pittsburgh, Pa., a corporation of Pennsylvania, assignee.

176,735. **"MISS MINNEAPOLIS" AND DRAWING.** WHEAT FLOUR. Registered November 27, 1923. MINNEAPOLIS MILLING CO. Renewed November 27, 1943, to Commander-Larabee Milling Company, Minneapolis, Minn., a corporation of Delaware, assignee.

176,953. **PROPOSOTE.** MEDICINE FOR WHOOPING COUGH, BRONCHITIS, TUBERCULOSIS, AND KINDRED AILMENTS. Registered December 11, 1923. PARKE, DAVIS & COMPANY, Detroit, Mich., a corporation of Michigan. Renewed December 11, 1943.

177,008. **"PELICAN" AND DRAWING.** HOSIERY, UNDERWEAR OF KNITTED AND TEXTILE FABRICS, AND DRESS, NEGLIGEE, AND WORK SHIRTS. Registered December 11, 1923. WILLIAMS-RICHARDSON COMPANY, LTD., New Orleans, La. Renewed December 11, 1943.

177,025. **HOLLEY.** VINEGARS. Registered December 11, 1923. DUFFY-MOTT COMPANY, INC., New York, N. Y., a corporation of New York. Renewed December 11, 1943.

177,216. **COMANDANTE.** WHEAT FLOUR. Registered December 11, 1923. COMMANDER MILL CO. Renewed December 11, 1943, to Commander-Larabee Milling Company, Minneapolis, Minn., a corporation of Delaware, assignee by mesne assignments.

177,220. **"TOPS-ALL" AND DRAWING.** WHEAT FLOUR. Registered December 11, 1923. MINNEAPOLIS MILLING CO. Renewed December 11, 1943, to Commander-Larabee Milling Company, Minneapolis, Minn., a corporation of Delaware, assignee.

177,312. **PEBRONY.** BACKING OR REENFORCING COTTON CLOTH AND WHITE SHOE CLOTH, BOTH IN THE PIECE. Registered December 18, 1923. PETERS BROTHERS RUBBER CO., INC., New York, N. Y. Renewed December 18, 1943, to Peters Brothers Rubber Co., Inc., New York and Brooklyn, N. Y., a corporation of New York.

177,328. **CREAM VALLEY.** BUTTER. Registered December 18, 1923. NICKEL AND DRUMMEY, Chicago, Ill., a firm. Renewed December 18, 1943.

177,354. **PURITY.** TABLE SALT. Registered December 18, 1923. INTERNATIONAL SALT COMPANY, INC., New York, N. Y. Renewed December 18, 1943. to International Salt Company, Inc., Scranton, Pa., a corporation of New Jersey, assignee.

177,361. **REPRESENTATION OF A LILY.** TABLE SALT. Registered December 18, 1923. INTERNATIONAL SALT COMPANY, INC., New York, N. Y. Renewed December 18, 1943, to International Salt Company, Inc., Scranton, Pa., a corporation of New Jersey, assignee.

177,458. **HARVEST HOME.** CANNED FRUITS, BERRIES, AND VEGETABLES, SPICES, FOOD-FLAVORING EXTRACTS, TABLE SIRUPS, ICE-CREAM POWDER, STARCH FOR FOOD PURPOSES, COFFEE, AND TEA. Registered December 18, 1923. THE JETT & WOOD MERCANTILE CO., Wichita, Kans., a corporation of Kansas. Renewed December 18, 1943.

177,564. **"LINO".** CERTAIN NAMED FURNITURE AND TOPS FOR DESKS, COUNTERS, TABLES, DRESSERS, AND STANDS. Registered December 18, 1923. THE GUNN FURNITURE COMPANY. Renewed December 18, 1943, to Gunn Furniture Company, Grand Rapids, Mich., a corporation of Michigan, assignee.

177,610. **NU-WAY.** BREAD. Registered December 25, 1923. WARD BAKING COMPANY, New York, N. Y., a corporation of New York. Renewed December 25, 1943.

177,611. **VE-VE.** BREAD. Registered December 25, 1923. WARD BAKING COMPANY, New York, N. Y., a corporation of New York. Renewed December 25, 1943.

177,622. **MELTA-EATS.** COOKIES. Registered December 25, 1923. BISHOP & COMPANY, Los Angeles, Calif. Renewed December 25, 1943, to National Biscuit Company, New York, N. Y., a corporation of New Jersey, assignee.

177,623. **KETTLE.** COOKIES AND SMALL CAKES. Registered December 25, 1923. NATIONAL BISCUIT COMPANY, Jersey City, N. J., and New York, N. Y. Renewed December 25, 1943, to National Biscuit Company, New York, N. Y., a corporation of New Jersey.

177,685. **BLUE ANCHOR INN.** GINGER ALE, SARSAPARILLA, AND ROOT BEER. Registered December 25, 1923. JOHN FRIEDRICH. Renewed December 25, 1943, to Blue Anchor Beverage Company, Philadelphia, Pa., a corporation of Pennsylvania, assignee.

177,704. **NICO-SULPHUR-DUST.** INSECTICIDES. Registered December 25, 1923. WALNUT GROWERS SPRAY MANUFACTURING COMPANY, Los Angeles, Calif. Renewed December 25, 1943, to Stauffer Chemical Company, San Francisco, Calif., a corporation of California, assignee by mesne assignments.

177,734. **FINEST SILK.** WHEAT FLOUR. Registered December 25, 1923. STODDARD MILL & GRAIN COMPANY, Advance, Mo. Renewed December 25, 1943, to The Scott County Milling Company, Sikeston, Mo., a corporation of Missouri, assignee by mesne assignments.

177,739. **MAGNOLIA.** HAIR NETS (MEANING THEREBY NETS FOR THE HAIR MADE OF HAIR). Registered December 25, 1923. WM. FILENE'S SONS COMPANY, Boston, Mass., a corporation of Massachusetts. Renewed December 25, 1943.

177,769. **"ARAB" AND DRAWING.** FRESH CITROUS FRUITS. Registered December 25, 1923. SAN DIMAS LEMON ASSOCIATION, San Dimas, Calif., a corporation of California. Renewed December 25, 1943.

177,770. **"COLLIE" AND DRAWING.** FRESH CITROUS FRUITS. Registered December 25, 1923. SAN DIMAS LEMON ASSOCIATION, San Dimas, Calif., a corporation of California. Renewed December 25, 1943.

177,771. **"GREYHOUND" AND DRAWING.** FRESH CITROUS FRUITS. Registered December 25, 1923. SAN DIMAS LEMON ASSOCIATION, San Dimas, Calif., a corporation of California. Renewed December 25, 1943.

REISSUES

AUGUST 24, 1943

22,368

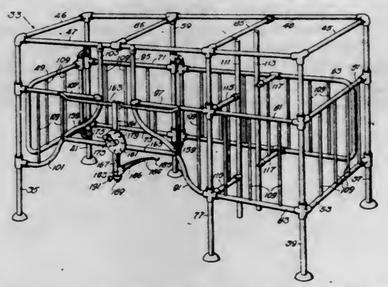
SUPPORT FOR MILKING MACHINES

Henry B. Babson, Chicago, and Jacob J. Stampen, Hollywood, Ill., assignors to Babson Bros. Co., Chicago, Ill., a corporation of Illinois

Original No. 2,136,228, dated November 8, 1938, Serial No. 747,321, October 8, 1934. Application for reissue June 5, 1943. Serial No. 489,804

9 Claims. (Cl. 31—58)

1. Adjustable support means for milking apparatus comprising, a support element, resilient suspension means mounted to pivot on the support element about a substantially vertical axis, said suspension means having a portion extending outwardly from the support element and formed to receive and carry the milking apparatus, and yielding means on said support element and operatively associated with said suspension means to urge the same normally in one direction on its pivot whereby to yieldingly bias the suspension



member in a direction urging the milking apparatus forwardly of the animal being milked.

PLANT PATENTS

GRANTED AUGUST 24, 1943

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

598

CHRYSANTHEMUM PLANT

Hugo Roy Mosnat, Belle Plaine, Iowa, assignor to The R. M. Kellogg Company, Three Rivers, Mich.

Application February 6, 1943, Serial No. 475,009

1 Claim. (Cl. 47—60)

The new and distinct variety of chrysanthemum plant obtained from crossing the variety Pink Cushion with Korean Hybrids, characterized as to novelty by its production of especially large flowers, the non-fading quality of the flowers even when subjected to intense sunlight, its early blooming characteristic, its greater hardiness than Korean and Cushion mums, its long blooming period, its novel color, and its free production of large amounts of rhizomes, substantially as shown and described.

599

ROSE PLANT

Charles Mallerin, Varces, France, assignor to The Conard-Pyle Company, West Grove, Pa.

Application January 19, 1943, Serial No. 472,891

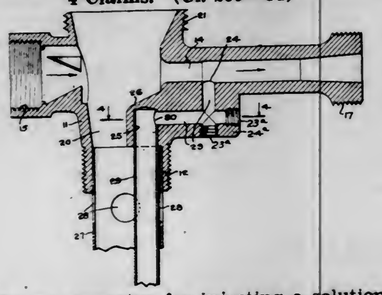
1 Claim. (Cl. 47—61)

A new and distinct variety of Rose plant, characterized as to novelty by its great vigor of growth, the large size and novel color combination of its blooms giving rise to a multicolored effect of unusual attractiveness throughout their development from bud to full bloom, substantially as shown and described.

PATENTS

GRANTED AUGUST 24, 1943

2,327,335
PRESSURE PROPORTIONER
Lewis W. Boerner, Newton Square, and Francis J. Hogenmiller, Ardmore, Pa., assignors to National Foam System, Inc., Philadelphia, Pa., a corporation of Delaware
Application April 16, 1942, Serial No. 439,210
4 Claims. (Cl. 299—84)



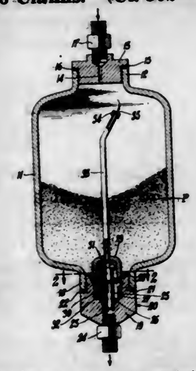
1. In an apparatus for injecting a solution of foam forming material into a flowing stream of water, a device adapted to be interposed in a conduit for delivering the water under pressure from a source of supply to a point of discharge, said device being characterized in that it is provided with a Venturi passage extending longitudinally therethrough and with a pair of passages extending laterally of and in free communication respectively with the high and low pressure sections of said Venturi passage, the lateral passage in communication with the high pressure section being of substantially greater cross-sectional area than the lateral passage in communication with the low pressure section, a pair of tubes respectively fitted into said lateral passages, and a closed container for the foam forming material secured to the device aforesaid in embracing relation with respect to the said tubes, the lower ends of both tubes being open and the tube in communication with the high pressure section of the Venturi passage having means for permitting the delivery of water from said high pressure section directly upon the upper surface of the solution in said container whereby said solution is forced upwardly through the other tube into the low pressure section of the Venturi passage.

2,327,336
CONTROL DEVICE
John D. Bolesky, Attleboro, Mass., assignor to Metals & Controls Corporation, Attleboro, Mass., a corporation of Massachusetts
Application April 5, 1939, Serial No. 266,078
40 Claims. (Cl. 200—138)



1. A thermostatic control comprising an element the position of which changes automatically in one plane of movement in response to temperature changes, means pivotally mounting said element to rotate in another plane of movement, means disposing said element to move in one direction in said second plane of movement, a relatively fixed contact, and a relatively movable contact carried by said element and engaging said fixed contact, when said element is in one of its temperature-determined positions, with sufficient pressure to resist said disposing means.

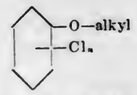
2,327,337
DISPENSER FOR COMMINUTED SOLIDS
Charles J. Burch and William G. Edwards, Kenmore, N. Y., assignors to The Linde Air Products Company, a corporation of Ohio
Application November 9, 1940, Serial No. 364,958
16 Claims. (Cl. 302—53)



1. A powder dispenser comprising a closed container adapted to hold a supply of powder; a hollow dome within said container adjacent to the bottom thereof, said dome having a side wall provided with port means establishing communication between the interior of said dome and the portion of said container outside of said dome for admitting powder to said dome; a powder discharge conduit extending upwardly into said dome and having an entrance in said dome above the level of said port means for conducting powder from said dome; and means for introducing gas into said container above the normal level of the powder therein, and into said dome for carrying powder to the entrance of said discharge condult and thence out of the dispenser.

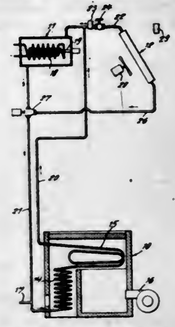
2,327,338
INSECT CONTROL
Thomas S. Carswell, Longmeadow, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application December 13, 1939, Serial No. 308,943
20 Claims. (Cl. 167—30)

1. A mothicide and ambrosiacide which comprises an alkoxypolychlorobenzene of the following formula:



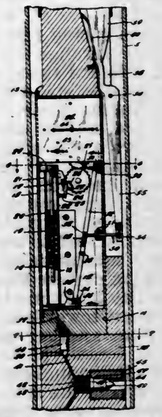
in which n is a whole number greater than two.

2,327,339
HEATING SYSTEM
Edward F. Chandler, Brooklyn, N. Y.
Application December 24, 1940, Serial No. 371,516
11 Claims. (Cl. 237—8)



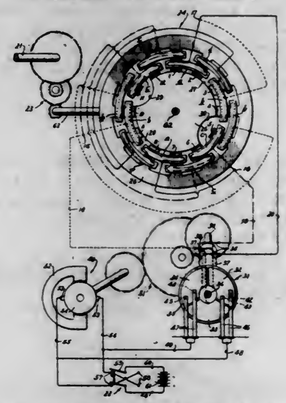
1. In a heating system, the combination of a plurality of elements comprising, respectively, a heat generating zone, a heat storage zone, a heat radiating zone, means for circulating a fluid heat absorber through said zones, means for adding heat to said fluid as it passes through the generating zone, means responsive to changes in the temperature of said fluid controlling said means for adding heat, means for utilizing the heat of the fluid in said radiating and said storage zones whereby the temperature of said fluid is changed, means comprising a blower for removing heat from the radiating zone, controlling means for the blower comprising a thermostat positioned within the area to be heated, and means for eliminating the influence of changes in temperature of the fluid in said radiating zone upon said means for adding heat.

2,327,340
PERFORATING GUN FOR OIL WELL CASINGS
Lonnie E. Couch, Houston, Tex., assignor to Well Tool Development Corporation, a corporation of Texas
Application December 9, 1940, Serial No. 369,363
68 Claims. (Cl. 164—0.5)



1. A casing perforating gun comprising a stock adapted for lowering in the casing, a plurality of gun barrels transversely in the stock, having firing communication with each other, a projectile mounted in each barrel having a firing charge adapted to propel the projectile through the wall of the casing, mechanical firing means for the charge, a movable safety member for the firing means and means actuated by a predetermined sliding movement of the stock in the casing to control actuation of the firing means on the down movement of the stock and to move said safety member into and out of safety position as required.

2,327,341
REMOTE CONTROL SYSTEM
George Forrest Drake, Rockford, Ill., assignor to Woodward Governor Company, Rockford, Ill., a corporation of Illinois
Application December 20, 1941, Serial No. 423,720
1 Claim. (Cl. 172—239)

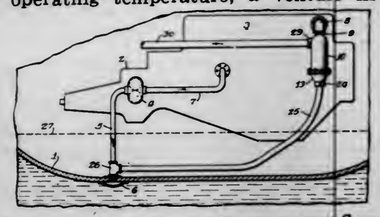


A remote control comprising, in combination, a direct current electric step motor having a stator member and a coacting polar rotor member, one of said members having windings on the poles thereof and the other member being permanently magnetized and adapted, when said windings are deenergized, to attract the poles of the other member and cause said rotor member to stop abruptly in one of a plurality of well defined angular positions, a commutator switch having a rotary element and adapted to energize said windings selectively and cause progressive step-by-step turning of said rotor member during rotation of the element, a second direct current electric motor drivingly connected to said element, and switching means operable when closed to apply energizing direct current to said second motor and also to said first motor under the control of said commutator switch, said switching means, when opened, deenergizing the windings of both of said motors whereby said step motor stops abruptly in one of said positions during coasting of the second motor.

2,327,342
COOLING SYSTEM
Harold B. Drapeau, Oak Park, Ill., assignor to The Dole Valve Company, Chicago, Ill., a corporation of Illinois
Application May 2, 1939, Serial No. 271,314
3 Claims. (Cl. 123—178)

1. A cooling system for marine engines having a water jacket, comprising a positively acting pump, a pipe leading from the pump to the water in which the boat is located, a connection from the pump to the engine jacket, a bypass leading from the engine water jacket to the pipe connecting the pump with the water in which the

boat is located, a thermostat housing in said bypass, a reverse acting thermostat in said housing, a valve controlled by said thermostat, but normally open while the temperature of the water in the engine jacket is being raised to an effective operating temperature, a venturi in said



housing, and a continuously open overflow pipe connected with said housing between the venturi and the engine water jacket, for discharging hot water from the engine jacket into the body of water in which the boat is located.

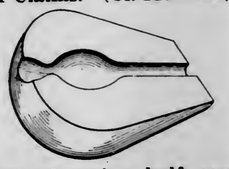
2,327,343

PROCESS OF REMOVING SEED-CONTAINING SECTIONS FROM HALF FRUIT

Mark Ewald, Olympia, Wash., assignor to Special Equipment Company, Portland, Oreg., a corporation of Oregon

Original application May 28, 1932, Serial No. 614,062. Divided and this application January 29, 1938, Serial No. 187,690

11 Claims. (Cl. 146—219)



1. A method of coring half pear having a calyx, a core proper section, and a stem thread section extending from the core proper to the stem end, which comprises cutting a section which is semicylindrical in cross section in a direction transverse to the stem axis and which is substantially elliptical longitudinally of the stem axis to remove the core proper from the half pear, while cutting a substantially semicylindrical section of relatively smaller radius about the stem thread section of the half pear and extending from the core proper section to the stem end of the half pear, while simultaneously cutting a substantially conical section about the calyx to remove the same from the half pear, and while cutting a semicylindrical restricted channel in the half pear between the calyx and core proper and substantially concentric about the stem axis of the half pear whereby to form a single, semicylindrical, continuous channel of varying width and depth along its length, which channel approximates in shape the natural shape of the calyx, the core proper and the stem thread section.

2,327,344

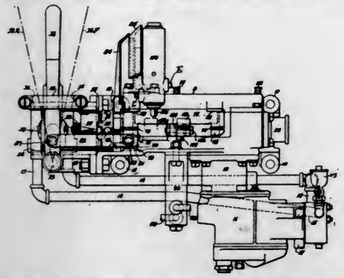
LOCOMOTIVE POWER REVERSE GEAR

Major Torbett Forker, Jr., Baltimore, Md., assignor to The Balmar Corporation, Baltimore, Md., a corporation of Maryland

Application August 15, 1940, Serial No. 352,688

4 Claims. (Cl. 121—40)

1. In a locomotive power reverse gear having a main reversing shaft and a rotatable motor with a shaft drivingly coupled to the reversing shaft, a hand-lever mounted for movement from a neutral position alternatively into a forward adjusting position and a rearward adjusting position, locking means for said reversing shaft, a yielding resistance device common to the hand-lever and the locking means and positioned to



exert a force upon the former in a direction transverse to its major axis, whereby said device tends to center said lever and to engage said lock, and controlling means for said motor, the locking and controlling means both being associated with said lever.

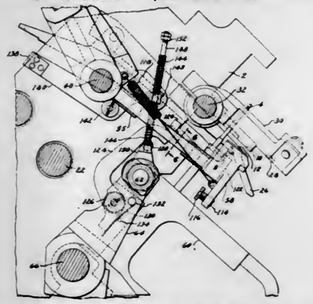
2,327,345

SHOE UPPER LACING MACHINE

Joseph Fossa, Salem, Mass., assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J., a corporation of New Jersey

Application May 17, 1940, Serial No. 335,724

34 Claims. (Cl. 112—5)



1. In a shoe upper lacing machine comprising a series of needles arranged to pass through aligned eyelets of a folded shoe upper, means for reciprocating the needles and devices cooperating with the needles during their reciprocations to form a series of cord lacings extending through the eyelets and across the edges of the folded upper, the combination of individual upper clamping members between adjacent needles arranged to extend from outside the edges of the upper and across the edges of the upper while impaled by the needles and to terminate on both sides of the upper substantially at the line of eyelets, and confining devices located at opposite sides of the upper, at least one of the confining devices being actuated towards and from the upper and spaced from another of the confining devices disposed oppositely at the other side of the upper while the individual clamping members are clamping the upper, the spacing of the confining devices being greater than the distance between opposite clamping members for engaging the unclamped portion of the upper beyond the eyelets to prevent interference by said unclamped portion with the needles and cooperating lacing devices.

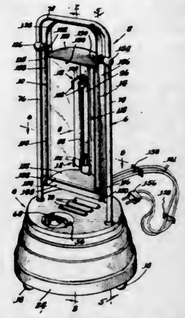
2,327,346

THERAPEUTIC LAMP

Frank Furedy, Chicago, Ill., assignor to Sun-Kraft, Inc., Chicago, Ill., a corporation of Illinois

Application July 24, 1940, Serial No. 347,257

10 Claims. (Cl. 250—88)



1. In a therapeutic lamp, a gaseous discharge tube having a quartz envelope and adapted to provide ultra-violet rays, means for supplying current to said tube to produce ultra-violet rays of one wave length band, means for producing infra-red rays, said infra-red ray producing means being positioned in relation to the tube envelope to heat the quartz envelope of the tube whereby to change the rays transmitted through the quartz envelope of the tube to ultra-violet rays of longer wave length.

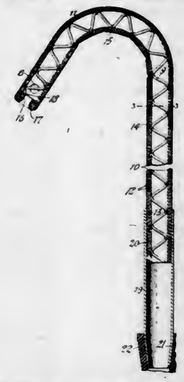
2,327,347

SALIVA EJECTOR

Floyd E. Gibbin, Buffalo, N. Y., assignor of one-half to Leslie A. Gibbin, Springville, N. Y.

Application August 29, 1940, Serial No. 354,690

1 Claim. (Cl. 32—33)



A saliva ejector comprising a tubular body having a curved upper inlet end and a straight lower outlet end, the inlet end of said body being folded backwardly upon itself in the form of a tubular flange from the exterior to the interior of the body and forming an internal inwardly facing shoulder within said body and also forming a rounded edge on the front end of said body, and a helical reinforcing member arranged within the curved and straight ends of said body and engaging its front end with the shoulder formed by the folded flange of said body and thereby preventing said reinforcing member from projecting forwardly beyond the inlet end of said tubular body.

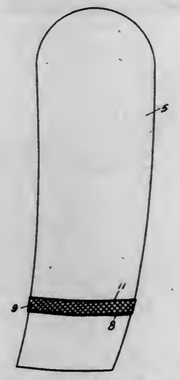
2,327,348

GARMENT SLEEVE

Jerome Giuseffi, Cincinnati, Ohio, assignor to The Goodall Worsted Company, Sanford, Maine, a corporation of Maine

Application May 29, 1942, Serial No. 445,023

4 Claims. (Cl. 2—269)



1. The combination with the sleeve of a uniform or other garment, of an independent cuff adapted to enclose the lower end of the sleeve, and a strip of braid or tape secured around the upper edge of the cuff and projecting therebeyond, the projecting portion of the braid being adapted to be attached to the sleeve for holding the cuff in place.

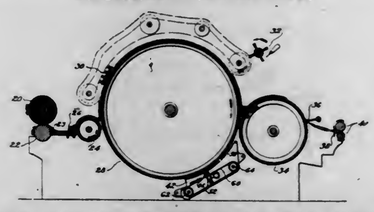
2,327,349

METHOD AND MEANS FOR STRIPPING CARDING APPARATUS

William H. Goldsmith, Jr., Brookline, Mass., assignor to Abington Textile Machinery Works, Boston, Mass., a trust of Massachusetts

Application March 11, 1939, Serial No. 261,266

16 Claims. (Cl. 19—109)



1. Means for stripping carding apparatus, which comprise a member located adjacent the surface of a card clothed cylinder and extending lengthwise thereof, the member being provided with a series of closely spaced and narrow suction openings, a suction conduit extending lengthwise of the cylinder and connected with all of the openings, means for inducing a continuous suction in the conduit, and means extending between and movable relative to the member with the suction openings and the suction conduit for automatically bringing successive openings into communication with the suction conduit in a predetermined manner as a result of movement of the said means.

2,327,350

BOWLING ALLEY

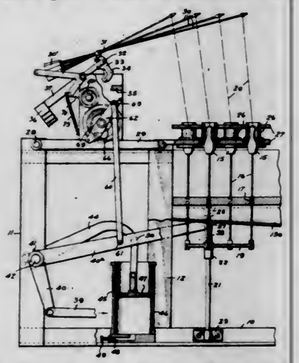
Charles W. Hartwig, Hastings on Hudson, N. Y.

Application February 9, 1939, Serial No. 255,506

2 Claims. (Cl. 273—44)

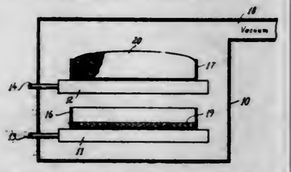
1. In a game apparatus including a bowling

alley floor, a plurality of pins vertically arranged on the floor adjacent one end of the alley, and a ball propelling means at the opposite end of the alley, means arranged above the pins on the alley floor for individually raising the pins upwardly from the alley when moved out of vertical position by a ball from said propelling means, and pin resetting means including pin



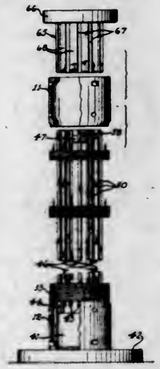
engaging means normally positioned below the alley floor and each of the pins thereof, said pin engaging means being movable upwardly through the alley floor for collectively engaging and aligning each of the pins with said means while in raised position above the floor and for lowering and guiding the pins to predetermined reset positions upon the alley floor.

2,327,351
EXPANDED SOLID CORN SIRUP
Wilbert A. Heyman, New York, N. Y., assignor to Granular Foods, Inc., New York, N. Y., a corporation of Indiana
Application August 3, 1940, Serial No. 351,265
8 Claims. (Cl. 127—34)



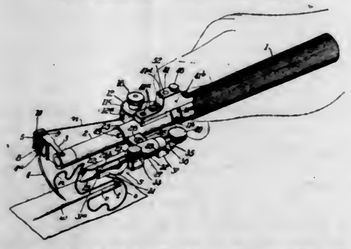
1. In the process of converting liquid corn sirup containing a substantial amount of dextrin and water to a dehydrated solid expanded corn sirup product, the steps of heating liquid corn sirup in the presence of a vacuum at least as high as 1½ inches of absolute to cause said liquid corn sirup to boil, a part of the water contained in said liquid corn sirup being thus driven off as water vapor in the form of bubbles; continuing the heat and vacuum until sufficient water has been driven off so that the corn sirup becomes a stiff mass of such viscosity that the water vapor bubbles are entrapped therein; causing the entrapped water vapor bubbles to expand under the influence of the heat and vacuum applied thereto so as to expand the corn sirup, the expanding bubbles breaking into one another and breaking open at the surface of the mass to form intercommunicating cells in the interior of the relatively stiff corn sirup which cells communicate with the exterior of the mass by such surface breaking; applying further heat and vacuum so as to dehydrate the dextrin of the corn sirup and cause it to become substantially rigid and to drive out the moisture from the exposed interior of the corn sirup and thus set said corn sirup in the form of a solid dehydrated expanded mass having intercommunicating cells.

2,327,352
METHOD OF AND APPARATUS FOR ASSEMBLING STATORS
Vaino A. Hoover, Los Angeles, Calif., assignor to Byron Jackson Co., Huntington Park, Calif., a corporation of Delaware
Application April 5, 1939, Serial No. 266,098
8 Claims. (Cl. 29—84)



1. Apparatus for use in stacking annular stator laminations of the type having circumferentially spaced winding slots communicating with the bore of the laminations, comprising: a cylindrical mandrel of a diameter to fit snugly in the bore of the laminations; and a plurality of elongated guide bars spaced circumferentially about said mandrel and extending longitudinally thereof with their inner edges closely adjacent the periphery of said mandrel; said guide bars being adapted to extend through the winding slots of the laminations and frictionally engage the same solely at their inner open ends, whereby the open ends of the slots are oriented into axial alignment.

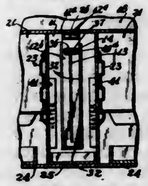
2,327,353
INSTRUMENT FOR SUTURING
John D. Karle, Roselle Park, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application December 12, 1940, Serial No. 369,692
38 Claims. (Cl. 112—169)



36. A surgical stitching instrument comprising a handle, a shaft projecting from said handle, an arm projecting laterally from the end of said shaft remote from said handle, the forslidingly mounted on the free end of said arm ward free end of said arm being formed with a needle-receiving slot, a needle-clamping jaw

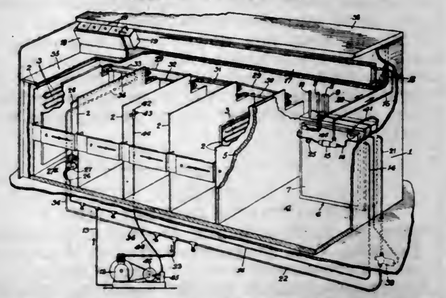
and having a jaw portion cooperating with the walls of said slot to clamp the shank of a needle therebetween, a threaded pin connected to said jaw and extending through an aperture formed lengthwise of said arm, and a manually rotatable nut, located in a transverse opening in said arm and spaced from the end thereof, threaded on said pin for shifting said clamping jaw to effect clamping and unclamping of said needle.

2,327,354
BROILER MECHANISM
Charles Klein, Brooklyn, N. Y.
Application January 17, 1941, Serial No. 374,799
6 Claims. (Cl. 53—5)



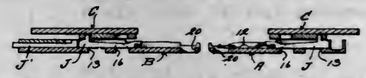
2. In a device of the class described having a broiling compartment with an open top and vertical guide members extended downwards from said open top and mounted on opposed walls of said broiling compartment, an inverted U-shaped member of hollow construction having a top portion extending along and closing the open top of said broiling compartment and side arms depending from the ends of said top portion and slidably engaging said guide members, and means for supporting a piece of meat between the side arms of the said U-shaped member to depend vertically within said broiling compartment, said means, comprising support elements mounted on the inner faces of said side arms and directed towards each other, and a member for gripping and holding a piece of meat and having its ends resting on said support elements.

2,327,355
SODA FOUNTAIN
Herman W. Kleist, Chicago, Ill., assignor to Dole Refrigerating Company, Chicago, Ill., a corporation of Illinois
Application October 30, 1940, Serial No. 363,575
1 Claim. (Cl. 62—4)



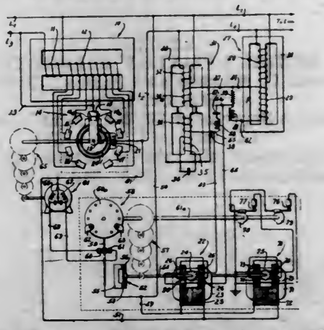
A soda fountain comprising an ice cream receptacle, cooling plates in said receptacle for cooling the ice cream to a comparatively low temperature comprising hermetically sealed tanks having pipes extending back and forth therein through which refrigerant material passes, and eutectic material partially filling the tanks, air being exhausted from the tanks to press the sides thereof against said pipes, a sirup jar receptacle, a cooling device therefor for cooling it to a higher temperature than the ice cream receptacle comprising a hermetically sealed tank having a pipe extending back and forth therein, through which refrigerant material passes, eutectic material partially filling said tank, air being exhausted from the tank to cause the sides to press against said pipe, a refrigerating unit comprising a motor and a compressor with which said pipes are connected, a switch for starting and stopping said motor and compressor, a controlling device for said switch associated with said ice cream receptacle and separate automatic means for separately controlling the flow of refrigerant material through the pipes in the tank in sirup jar cooling receptacle.

2,327,356
KNITTING MACHINE JACK AND NEEDLE BED
Charles Koppel, Robbinsville, N. J.
Application February 17, 1942, Serial No. 431,307
6 Claims. (Cl. 66—115)



2. A flat bed knitting machine jack and needle supporting bed plate having channels in which said jacks and needles slide and having openings in the bottoms of the channels providing scraping edges across and in contact with which the jacks and needles move.

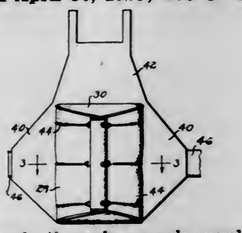
2,327,357
VOLTAGE REGULATOR SYSTEM
Edgar D. Lilja, Rockford, Ill., assignor to Barber-Colman Company, Rockford, Ill., a corporation of Illinois
Application June 8, 1940, Serial No. 339,454
13 Claims. (Cl. 171—119)



1. A voltage regulator system for an alternating current network comprising, in combination, an adjustable voltage control device connected to the network and operable upon adjustment in opposite senses correspondingly to raise and lower the voltage in the network, means including a reversible electric motor for adjusting the setting of said control device in opposite senses depending upon the direction of motor rotation, said motor including a quadrature winding and a normally energized main winding, the direction of motor rotation being dependent on the phase relation between the voltage on the main winding and an energizing potential applied to said quadrature winding, means including a non-saturated core transformer energized from the network for producing an output potential propor-

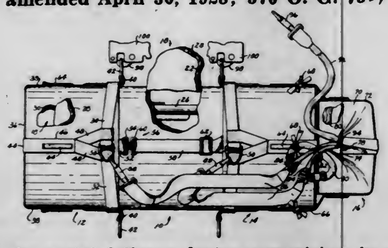
tional to that being regulated in the network, means including a second transformer energized from the network for producing an output potential of constant value irrespective of fluctuations in the network voltage and of a value equal to said output potential of said first transformer when the network voltage is at a predetermined normal value, and means connecting the outputs of said first and second transformers in phase opposition and for applying the algebraic sum thereof as an energizing potential to said quadrature winding, whereby said last-mentioned energizing potential is linearly proportional to the difference between the network voltage being regulated and said constant value potential.

2,327,358
VARIABLE FORM PARACHUTE PACK
Frank G. Manson and James J. Maskey, Dayton, Ohio
Application September 5, 1941, Serial No. 409,689
9 Claims. (Cl. 244—148)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



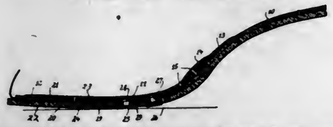
1. In a parachute pack, a pack envelope having a bottom member with fabric side flaps and end flaps attached, said bottom member being made of sheet elastic, the amount of elastic material in the sheet being different crosswise of the sheet than lengthwise.

2,327,359
AERIAL DELIVERY APPARATUS
Frank G. Manson and James J. Maskey, Dayton, Ohio
Application September 30, 1941, Serial No. 412,976
3 Claims. (Cl. 244—137)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. An aerial delivery device comprising, in combination, a heavily padded rectangular fabric blanket of such size and length that when a predetermined number of the articles to be delivered are spaced apart on said blanket and wrapped, a roll of substantially a desired size will be formed, end caps of heavily padded fabric each in the form of a drum with one end open, and of a diameter to readily slip over said roll, reinforcing bands around the open ends of said caps, reinforcing strips extending from a point on a band around the end of a cap and to a point diametrically opposite on the same band, means at junctures of said bands and strips for attachment to the risers of a parachute, and means at junctures of said bands and strips for support on the hooks of a bomb rack.

2,327,360
INSOLE AND OUTER SOLE COMBINATION
Meyer Margolin, Elgin, Ill.
Application November 30, 1939, Serial No. 306,778
4 Claims. (Cl. 36—3)



1. In combination an insole and an outersole, said insole having downwardly extending lugs of resilient material, said insole having perforations extending through said insole, grooves in said insole, the long walls of said grooves being spaced apart from one another, said grooves being adjacent to said downwardly extending lugs, means for affording communication between said grooves and said perforations, openings in said outersole said openings corresponding in shape to the cross section of said lugs, said lugs extending into and through said openings so as to come in direct contact with the walking surface, said protruding resilient lugs being compressed by pressure contact with the walking surface, whereby said grooves are compressed and air is forced through said perforations to the interior of the shoe.

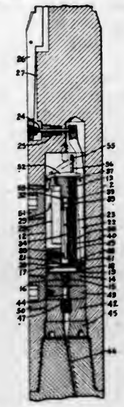
2,327,361
RESILIENT VENTILATED INSOLE AND MIDDLE SOLE
Meyer Margolin, Elgin, Ill.
Application October 15, 1940, Serial No. 361,204
1 Claim. (Cl. 36—3)



A resilient insole, transverse grooves positioned on the bottom of said resilient insole, the walls of said grooves being spaced apart from one another, the ends of said grooves being closed, said insole having at least one downwardly extending resilient projection located in at least one of said grooves, said resilient projection being located between the end walls of said groove and being in direct contact with the opposing long side walls of said groove.

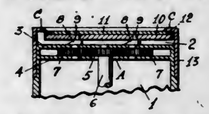
2,327,362
IMPROVEMENT IN WELL TOOLS
Joseph S. McDonald and Walter E. A. Ruska, Houston, Tex., assignors to Well Tool Development Corporation, a corporation of Texas
Application October 5, 1940, Serial No. 359,862
73 Claims. (Cl. 164—0.5)

1. A perforating gun for well casings comprising a stock having a chamber, an explosive charge therein, a projectile mounted in the stock to be projected by the explosion of the charge, firing means for the charge, safety means for preventing effective operation of the firing means, means for locking said safety means in active position to allow positioning of the gun at a selected depth in the well irrespective of movements of the gun required for said positioning process, said locking means being adapted to be



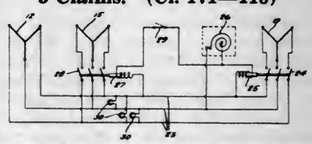
positively unlocked at the will of an operator at the ground surface to allow the charge to be fired.

2,327,363
SAFETY RAZOR
Fred J. Mehl, Wichita, Kans., assignor, by direct and mesne assignments, of thirty-seven and one-half per cent to Ulysses G. Charles, and twenty-five per cent to Guy C. Boling, both of Wichita, Kans.
Application June 18, 1941, Serial No. 398,554
2 Claims. (Cl. 30—43)



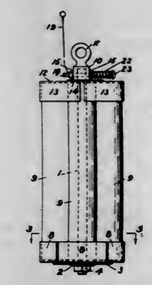
1. In a safety razor, a hollow body portion comprised of side and end walls, a drive shaft trunnioned in the body, an elongated blade substantially rectangular in form and having two cutting edges oppositely disposed and positioned longitudinally of the blade, a carriage plate for the blade, and means to move said plate and blade longitudinally and transversely in circular motion, said means being actuated by the said shaft, and a guard carried by the body portion, said guard having a portion in parallelism with each edge of the blade coacting therewith to shear as the edges of the blade alternately pass with close engagement with their respective portion of the guard.

2,327,364
ELECTRICAL APPARATUS AND ITS OPERATION
Ogden Minton, Greenwich, Conn., assignor to He-Li-Po, Inc., Greenwich, Conn., a corporation of Connecticut
Application October 12, 1939, Serial No. 299,077
5 Claims. (Cl. 171—118)



5. An electrical power plant comprising an alternating current generator, a current consuming device connected in circuit with the generator, an electrical translating device requiring substantially more current to start its operation than to continue its operation after starting, the generator having a capacity sufficient to operate both said devices but insufficient to start said translating device, a second alternating current generator having its armature shaft mechanically coupled to the armature shaft of the first generator in such manner that the two generators are always in phase with each other, said second generator having a capacity sufficient to start operation of said translating device when operating in conjunction with the first generator, switch means responsive to a condition requiring the starting of the operation of said translating device for connecting said translating device in circuit with both said generators, and switch means automatically responsive to the conditions occurring during operation of said translating device for disconnecting the second generator from the translating device when the device has been started.

2,327,365
CONTAINER FOR BOMBS
John W. Moseman, Bethesda, Md.
Application June 14, 1941, Serial No. 398,021
7 Claims. (Cl. 102—2)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

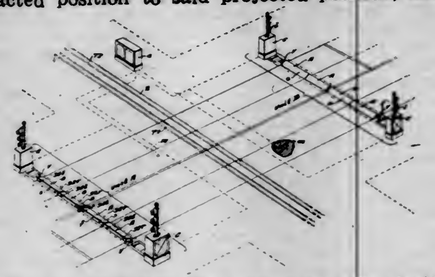


1. A bomb carrier comprising opposed cup-shaped receiving means, means centrally associated with said receiving means to hold the same with their rims in spaced relation for accommodating a bomb load therebetween, a releasable connection between said holding means and one of said receiving means, and an operating member for remote actuation of said releasable connection.

2,327,366
CROSSING PROTECTIVE SYSTEM
Sulo M. Nampa, Detroit, Mich., assignor to Grade Crossing Guard Corporation, Memphis, Tenn., a corporation of Tennessee
Application August 2, 1940, Serial No. 349,886
22 Claims. (Cl. 39—6)

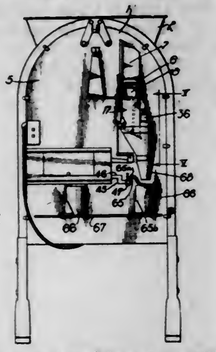
1. In a protective system for a point along a roadway, the combination of a barrier extending partially across said roadway in advance of said point, said barrier being movable from a retracted position to a projected position in the path of vehicles traversing said roadway and approaching said point, means mounting said barrier so that the impact force of a said vehicle against said barrier when projected urges said barrier toward said retracted position, a fluid motor connected

to said barrier for moving the same from said retracted position to said projected position, and



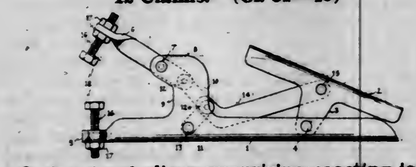
means for supplying said motor with an elastic actuating fluid.

2,327,367
MATERIAL HANDLING AND WEIGHING MACHINE
Leon J. Nowak, Jr., Chicago, Ill.
Application December 8, 1937, Serial No. 178,687
13 Claims. (Cl. 249—17)



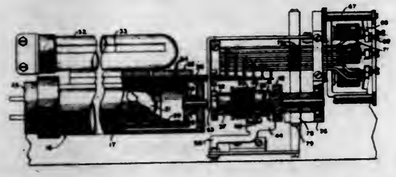
1. In a weighing machine, a receptacle, a movable deflector for diverting material from a material stream into said receptacle, a scale element having means for supporting said receptacle and responsive to the weight thereof, a door normally closing the bottom of said receptacle, means for normally maintaining said door in closed position against the weight of material in said receptacle including a movable member, means responsive to the movement of said scale element in one direction for shifting said member to allow the material in said receptacle to open said door, and coacting means between said member and deflector for holding said deflector in a predetermined position relative to said stream when said door is open.

2,327,368
TOGGLE PLIERS
John Olson, Detroit, Mich.
Application July 22, 1940, Serial No. 346,795
12 Claims. (Cl. 81—46)



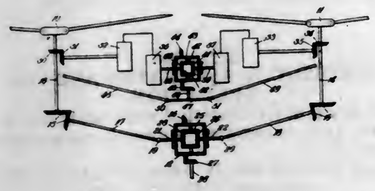
6. A pair of pliers comprising coacting jaws, a pair of handles, an actuating connection from the handles to the jaws, means effective on said connection for locking the jaws in closed position responsive to their actuation to such position, and means pivoting one of said handles substantially at its mid portion to rock at either end to and from the other handle, said pivoted handle being adapted to apply substantially the same leverage to said connection when actuated at either end, and said connection opening or closing the jaws according as one or the other end of said pivoted handle is rocked toward the other handle.

2,327,369
TELEGRAPH SIGNAL TRANSLATING SYSTEM AND APPARATUS
Louis M. Potts, Evanston, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Application November 15, 1940, Serial No. 365,730
21 Claims. (Cl. 178—17)



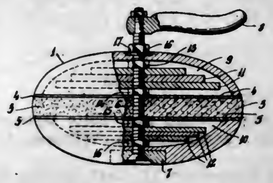
1. In a telegraph apparatus, a permutation code signal receiving mechanism, permutation members positionable by said signal receiving mechanism, permutationally apertured slides individually controlled by said permutation members, a source of light and a photoelectric cell associated with said slides, a rotatable cylinder associated with said slides, said source of light and said photoelectric cell, said cylinder having circumferential rows of apertures arranged according to a facsimile signaling code, means for rotating said cylinder, and means operated by said signal receiving mechanism for controlling the connection of said cylinder to said rotating means.

2,327,370
ROTARY WING AIRCRAFT
Cyril George Pullin, Genista, Newton Mearns, Scotland, assignor to Autogiro Company of America, Willow Grove, Pa., a corporation of Delaware
Application May 25, 1940, Serial No. 337,170
In Great Britain March 9, 1939
16 Claims. (Cl. 244—17)



1. In an aircraft, two rotors, on non-concentric axes of rotation so disposed that when power-driven they set up appreciable opposing moments on the craft, and mechanism responsive to rotor drive conditions indicative of differential variations of said moments to impose a compensating action upon at least one of said rotors independently of its power drive.

2,327,371
CURLING STONE
William Ormiston Boy, Outremont, Montreal, Quebec, Canada
Application February 21, 1941, Serial No. 379,976
4 Claims. (Cl. 273—128)

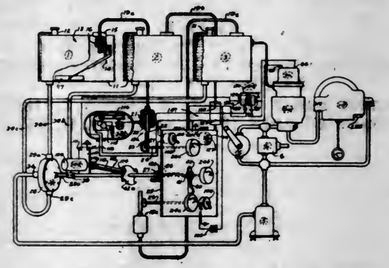


1. In a curling stone, a pair of shell members, a substantially continuous shock disk between said shell members with its edge exposed to form the periphery of the device, a centrally located rod for clamping together said shell members, means for separately clamping said rod into said shock disk and a plurality of removable disks adapted to be clamped to said rod whereby the weight and center of gravity of the entire assembly can be varied without risk of such weighting means being displaced off-center laterally.

2,327,372
DIELECTRIC FOR ELECTROSTATIC CONDENSERS
Samuel Ruben, New Rochelle, N. Y.
No Drawing. Application May 3, 1939, Serial No. 271,521
3 Claims. (Cl. 175—41)

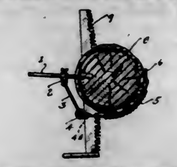
3. A condenser having a dielectric consisting substantially of a solid mixture of hydrogenated castor oil and from 5% to 50% of unhydrogenated vegetable oil.

2,327,373
FUEL SYSTEM
David Samiran, Fairfield, Ohio
Application March 13, 1939, Serial No. 261,542
21 Claims. (Cl. 158—36)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a system for dispensing fuel to a source of consumption, a plurality of containers, a selector valve with a separate input connection to each of said containers, a venturi with main inlet connected to the output of said selector valve, a fuel pump with input connected to the main outlet of said venturi and output connected to said source of consumption, switching means in communication with the suction outlet of said venturi closed by predetermined suction diminution in said suction outlet, and means operative upon successive switch closures for effecting appropriate movement of said selector valve.

2,327,374
UNDERCUTTER
Jack Sauerwein, Mollala, Oreg.
Application November 12, 1941, Serial No. 418,788
2 Claims. (Cl. 143—163)



1. An undercutter including a bar to be driven into a tree or log, a bracket slidable on the bar, a rod supported in the bracket for swinging in a complete circular plane at one side of the plane of the rod, a saw-supporting roller carried by the rod remote from the bracket, and means whereby the roller-carried end of the rod may be connected under yielding tension direct to the tree or log.

2,327,375
PROCESS OF ISOLATING CHORIONIC SUBSTANCES
Erwin Schwenk and Gerhard A. Fleischer, Montclair, N. J., assignors to Schering Corporation, Bloomfield, N. J., a corporation of New Jersey
No Drawing. Application October 18, 1939, Serial No. 299,978
7 Claims. (Cl. 167—74)

1. A process for preparing a chorionic substance adapted to luteinize and cause growth of follicles and substantially free from anaphylactic action, comprising extracting with an aqueous liquid, raw materials containing the same together with protein matter, adjusting the pH value of the aqueous extract to at least as low as 5, treating the resulting aqueous extract with an organic water immiscible liquid to form a gel with the protein matter, and separating the aqueous layer containing the chorionic substance from the gel precipitate obtained.

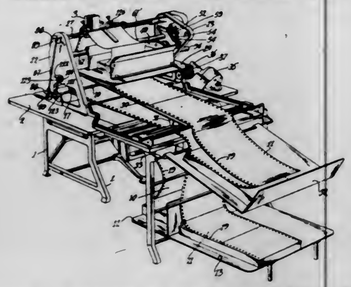
2,327,376
HYDROGENATION PRODUCTS OF Δ^6-ESTRONE AND METHOD OF PREPARING SAME
Erwin Schwenk, Montclair, N. J., assignor to Schering Corporation, Bloomfield, N. J., a corporation of New Jersey
No Drawing. Application February 14, 1940, Serial No. 318,918
6 Claims. (Cl. 260—397.5)

1. The method of producing unsaturated diols of the estrane series which comprises subjecting Δ^6-estrone to the action of an alcohol in the presence of a metal alcoholate, and recovering the Δ^6-estradiol so produced.

2,327,377
PAPER FEEDING MECHANISM
John Q. Sherman and Albert W. Metzner, Dayton, Ohio; said Metzner assignor to said Sherman; Katherine M. Sherman, William C. Sherman, and Wellmore B. Turner, executors of said John Q. Sherman, deceased
Application June 5, 1939, Serial No. 277,484
10 Claims. (Cl. 101—47)

1. A strip feeding and imprinting apparatus, wherein a continuous strip of record material is intermittently advanced past an imprinting position at which it receives at longitudinally

spaced intervals imprinted indicia predetermined by legend determining means progressively presented in imprint control relation and wherein the imprinting operation is dependent upon the presentation of the legend determining means and the feeding operation is dependent upon the imprinting operation, characterized by strip feeding means for advancing the record strip relative to the imprinting position a



measured distance at each operation, elevator means operated in synchronism with the feeding means for carrying the imprinted strip upwardly, imprinting means and an operative connection between the imprinting means and the strip feeding means, by which the latter is actuated in timed relation with the former.

2,327,378

METHOD OF TREATING COPPER AND PRODUCT THEREOF

Albert A. Smith, Jr., Metuchen, and John S. Smart, Jr., Scotch Plains, N. J., assignors to American Smelting and Refining Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application September 6, 1941, Serial No. 409,796

5 Claims. (Cl. 148—21.2)

1. The process of treating copper containing oxygen in amount providing a tough-pitch copper to increase the softening temperature thereof, which comprises including cadmium therein in effective amounts but not exceeding substantially 0.1%, heating the cadmium-bearing copper to within a temperature range of approximately 700° C. to 1000° C., maintaining the said copper within such temperature range until the cadmium is converted substantially completely into solid solution in the copper, and quenching the resulting copper from the said temperature to retain the cadmium in solid solution.

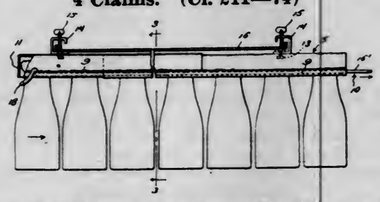
2,327,379

RACK

Willie Thomas, Greenwood, Miss.

Application October 13, 1941, Serial No. 414,844

4 Claims. (Cl. 211—74)



3. In a rack for the support of bottles, an elongated member transversely curved to accommodate and grip necks of bottles placed therein and removed by way of an end of said member, a stop wall at one end of said member, outwardly curved flanges formed on said member, said member including telescopic sections, clamps adjustably connected to the sections and applicable to a portion of a refrigerator for supporting said member horizontally, and a bottle removing means slidably supported by said flanges and engageable with one of the end bottles mounted within said member.

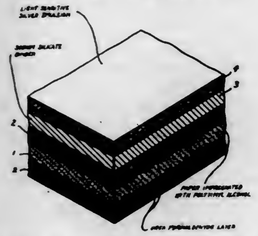
2,327,380

NEGATIVE ELEMENT

William Craig Toland and Ellis Bassist, Brookline, Mass., assignors to William C. Toland, trustee

Application November 13, 1941, Serial No. 418,948

6 Claims. (Cl. 95—8)



1. A flexible light-sensitive element for use in preparing a photographic negative comprising a translucent paper which is impregnated with polyvinyl alcohol disposed at separated points in and around the fibers of the paper, layers of translucent water-repellent material disposed at either side of the paper and impregnated in and around portions of the paper in amounts limited by the polyvinyl alcohol to avoid brittleness, said water-repellent material including a urea formaldehyde resin glue, a coating of sodium silicate disposed over one of the water-repellent layers, a film of a light-sensitive emulsion of gelatin and a silver haloid, overlying the sodium silicate, said sodium silicate being effective in allowing a uniform film of the light-sensitive emulsion to be applied over the water-repellent coating and to be held in bonded relation thereto.

2,327,381

GLOVE

Carroll G. Wells, Washington, D. C.

Application March 14, 1942, Serial No. 434,761

2 Claims. (Cl. 2—158)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A glove, comprising a back portion, a palm and thumb portion joined thereto, a reinforcing layer secured to said palm portion and said thumb portion and an inverted superimposed finger covering having the lower or open end thereof secured to the upper or outer edge of said palm portion, said finger covering being of such a length that the upper or closed end will fall short of the crotch formed by the palm portion and said thumb portion, said finger covering thereby being adapted to lie in a flattened position and having the outer or closed end retained in said palm portion by said thumb portion.

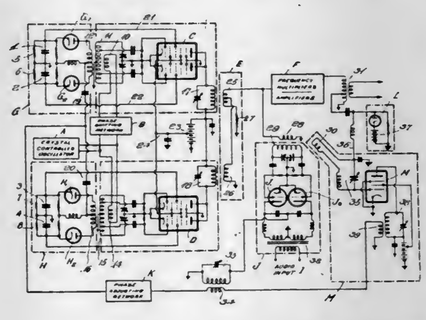
2,327,382

FREQUENCY MODULATION SYSTEM

Walter H. Wirkler, Cedar Rapids, Iowa, assignor to Collins Radio Company, Cedar Rapids, Iowa, a corporation of Iowa

Application December 13, 1940, Serial No. 370,063

8 Claims. (Cl. 179—171.5)



1. A frequency modulation system comprising means for generating polyphase currents of fixed frequency, a balanced modulator individual to each phase of said polyphase currents and energized by energy of the respective phase derived from said generating means, a bridge circuit for combining the outputs of the respective modulators, to produce a derived output current of said fixed frequency, means providing unlimited control of the phase of said derived output current comprising independent modulation circuits for the balanced modulators of each respective phase, phase rotating means actuated by said derived output current and by said polyphase currents of fixed frequency for rotating the phase of said derived output current by supplying modulating energy to said modulation circuits, and means responsive to a source of signalling current and connected to said modulation control means wherein the rate of phase rotation is controlled by said signalling current, the phase rotation constituting an effective frequency deviation from said fixed frequency.

2,327,383

QUENCHING OF METALS

Clifford G. zur Horst, Hampton Township, Allegheny County, Blaine B. Wescott, Churchill, and Leslie W. Vollmer, Pittsburgh, Pa., assignors to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware

No Drawing. Application January 12, 1942, Serial No. 426,538

13 Claims. (Cl. 148—18)

1. An improved quenching oil composition comprising a mineral quenching oil and at least about 0.5 per cent by weight of a petroleum oil propane refining residue.

2,327,384

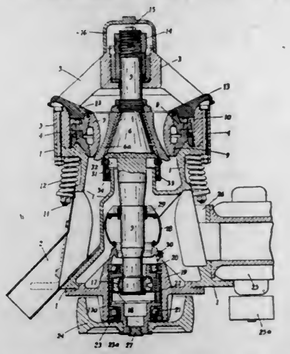
GYRATORY CRUSHER

Griffith Annesley, London, England

Application March 25, 1940, Serial No. 325,854

In Great Britain June 15, 1939

4 Claims. (Cl. 83—10)



1. In a gyratory crusher, a crusher shaft eccentric, a housing for said eccentric having an inner diameter approximating the outer diameter of said eccentric; said eccentric comprising an upper main part reduced in diameter at its upper end, and a lower stepped part secured to the upper main part and reduced in diameter at its lower end; rolling contact anti-friction bearing means engaged with the upper and lower parts of said eccentric at the ends of reduced diameter and with said housing for mounting said eccentric in said housing, and self-aligning roller contact anti-friction bearing means mounted within said eccentric between the ends of reduced diameter for journalling the lower end of the crusher shaft; the upper end of said eccentric being open to accommodate the crusher shaft, the lower end of said eccentric being closed, and a ring nut having an integral lubricant seal for retaining said eccentric in said housing; said housing constituting a lubricant container for providing lubrication at all said bearing means.

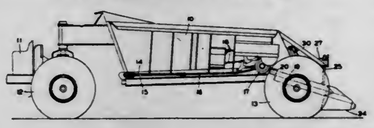
2,327,385

COMBINED DIRT SPREADER AND BUMPER

Stewart F. Armington, Willoughby, Ohio, assignor to The Euclid Road Machinery Company, Euclid, Ohio, a corporation of Ohio

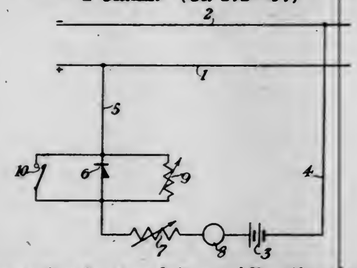
Application December 18, 1941, Serial No. 423,440

4 Claims. (Cl. 94—44)



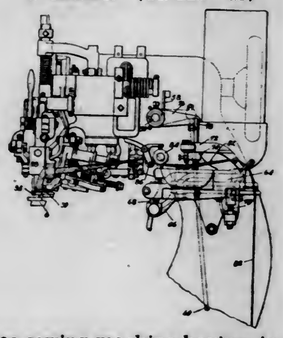
4. In combination, a bottom-dump vehicle, a combined dirt spreader and bumper device, means mounting said device at the rear end of said vehicle for movement between a lower position where it acts as a spreader and an upper position, said device and mounting means forming an assembly substantially rigid in a fore-and-aft direction, and means definitely fixing said assembly against downward movement relative to said vehicle when said device is in lowered position, whereby a push on the rear end of said device in lowered position is directly transferred to said vehicle.

2,327,386
APPARATUS FOR ELECTRODEPOSITION
Donald Ashby, London, England, assignor, by mesne assignments, to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application February 28, 1942, Serial No. 432,781
In Great Britain December 5, 1940
1 Claim. (Cl. 171—97)



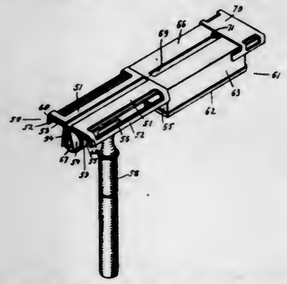
Apparatus for supplying unidirectional current to a load without interruption upon failure or energy in the main supply conductors comprising, in combination with said main supply conductors, a reserve storage battery connected across said conductors in a direction to continue the supply of current of the same polarity as supplied from said conductors to the load, an asymmetric unit connected between a terminal of said battery and one of said main conductors, said asymmetric unit being poled in a direction such that current flowing from said battery to said conductors encounters the low resistance of said unit but current flowing from the conductors to the battery encounters the high resistance of said unit, whereby normally said battery will receive charging current through the high resistance of said unit and will maintain without interruption the supply of current to the load through the low resistance of said unit upon failure of energy in said main supply conductors, and an adjustable shunt connected around said asymmetric unit for regulating the charging rate of said battery.

2,327,387
SHOE SEWING MACHINE
Fred Ashworth, Wenham, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application February 19, 1942, Serial No. 431,482
2 Claims. (Cl. 112—43)



1. A shoe sewing machine having, in combination, stitch forming and work supporting and feeding devices, a sewing shaft and connections for actuating the stitch forming and work feeding devices, means for guiding a welt to the sewing point, a welt moistening apparatus comprising a liquid containing receptacle and a welt guide movable to and from a position in which the welt, while being fed to the sewing point, is immersed in the liquid in the receptacle, mechanism acting, when operated, to render the connections to certain of the stitch forming and work feeding devices operative and inoperative, and a connection from said mechanism to the welt guide for moving the guide to a position in which the welt is immersed when said mechanism operates to render the connections to certain of the stitch forming and work feeding devices operative and for moving the welt guide from the position in which the welt is immersed when said mechanism operates to render the connections to certain of the stitch forming and work feeding devices inoperative.

2,327,388
SAFETY RAZOR AND MAGAZINE
Zemach Auerbach, New York, N. Y.
Application April 7, 1942, Serial No. 437,954
18 Claims. (Cl. 30—40)



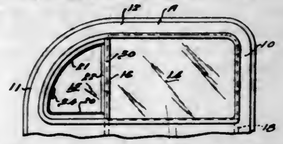
1. In a razor of the character described, a one piece razor head for a removable blade, comprising a split cap, guards bent from said split cap, said guards on opposite sides of the longitudinal medial line, stops at the ends of said guards for positioning said blade, a split platform bent from said guards and a spring bent from said split platform, said spring holding said split head together under pressure.

2,327,389
CLUTCH ELEMENT
Edwin Bagnall, Chicago, Ill.
Application May 31, 1940, Serial No. 338,109
3 Claims. (Cl. 192—68)



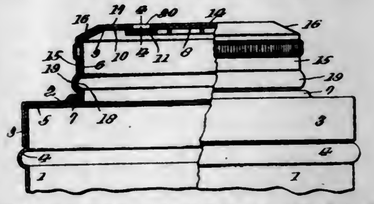
1. A clutch element comprising a metal disk having normal thereto a housing-like flange formed integrally therewith at its center, a hub separate from said disk received within said flange and in radially spaced relation thereto, and a packing of rubber composition forced into the annular space between said hub and said flange non-rotatably gripping said hub and non-rotatably engaging said flange to form a driving connection therebetween.

2,327,390
HINGE DEVICE FOR VENTILATING WINDOWS
Albert P. Ball, Detroit, Mich., assignor to Briggs Manufacturing Company, Detroit, Mich., a corporation of Michigan
Original application April 8, 1939, Serial No. 266,755, now Patent No. 2,260,133, dated October 21, 1941. Divided and this application May 29, 1941, Serial No. 395,847
3 Claims. (Cl. 16—140)



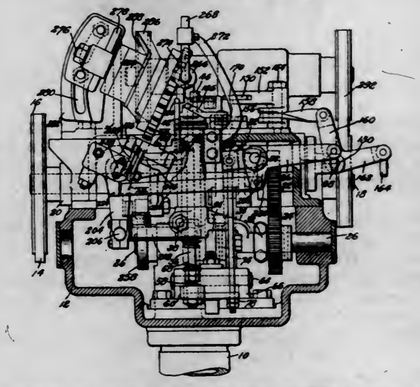
3. In a hinge structure for a swingable glass panel for closing a portion of a window opening in a vehicle door in which the remainder of said opening is closed by a slidable glass panel and in which a fixed post is located between the adjacent upright edges of said panels whereby to provide a guide for the slidable panel and a support for a portion of the hinge structure; said hinge structure comprising a vertically disposed socket member of substantially C-shaped cross section carried by said fixed post, a vertically disposed tubular rib-like member fitting within said socket member and carried by the swingable glass panel, said rib-like member having an extension projecting beyond said socket member and swingable panel, and a device carried by a fixed portion of the door and adjustable to frictionally grip said extension to hold the panel in various adjusted positions.

2,327,391
POWDER CAN
Edward E. Baker, Larchmont, N. Y., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application June 11, 1940, Serial No. 339,966
1 Claim. (Cl. 221—64)



A sifter top can comprising a cylindrical neck having a closed end provided with a flat section extending across the neck substantially from one side thereof to the other and forming a seat for a closure cap, said flat section being provided with a series of spaced perforations adjacent the outer edge thereof and a series of depressions having spaced radially disposed endwalls located between the perforations and the center of said flat section, a rotary closure cap having a depending skirt and a flat section in the top thereof conforming to the flat section in the closure end of the neck, said flat section of the cap being provided with perforations adapted to register with the perforations in the end of the neck and an integral depending lug extending into each depression and adapted to engage the radial end walls thereof to limit the movement of the cap to insure registration or non-registration of said openings in the cap and neck, said neck having a retaining bead formed therein and said skirt having the lower edge portion thereof curved to fit said bead, said skirt being dimensioned so as to be out of contact with the neck except in the regions of the retaining bead, said retaining bead and said curved portion of the skirt being disposed so as to hold the flat sections in intimate contact while permitting the same to move relative to each other about the center of the cap.

2,327,392
MACHINE FOR SHAPING UPPERS OVER LASTS
Corwin W. Baker, Stoneham, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application May 25, 1942, Serial No. 444,445
19 Claims. (Cl. 12—10)

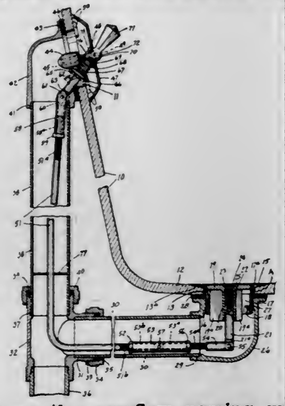


1. In a machine for shaping uppers over lasts, the combination of means operating intermittently to grip and pull successive portions of an upper over a last, and means arranged to act substantially continuously on the margin of the upper in a location adjacent to said first-named means to wipe the margin inward over an insole on the last while imparting to it a plurality of pressure impulses heightwise of the last during each operation of the gripping means.

2,327,393
UNIVERSALLY ADAPTABLE COMBINATION OVERFLOW AND REMOTE CONTROL DRAIN
Henry F. Beeke and Stephen A. Young, Delphi, Ind., assignors to Globe Valve Corporation, Delphi, Ind., a corporation
Application December 1, 1941, Serial No. 421,099
13 Claims. (Cl. 4—199)

1. In an overflow and bottom drain mechanism for mounting upon a sanitary element having an overflow opening and a bottom drain opening therein, angularly arranged tubular conduit connections from said openings to a waste line, an overflow passing means mountable in the overflow opening, and a spud and pop-up drain valve mountable in the drain opening, the combination of a rigid angular means for valve control and in the tubular conduit and having its ends terminating therein, one end being juxtapositioned relative to the overflow means and the other adjacent the valve, a pivotal connection between the said other end of the angular means, and said valve, and a handle lever pivotally mounted upon the overflow passing means and

having a handle portion exposed relative to the conduit and an operating portion concealed by said overflow passing means and within the conduit and pivotally connected to the said one end of the angular control means, said lever being



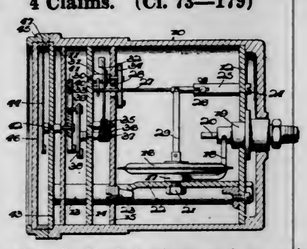
fulcrumed on the overflow passing means for positively opening and closing the valve, the handle lever being of longitudinally extensible character for adjustment of pop-up valve travel.

2,327,394

RATE OF CLIMB INDICATOR

James E. Bevins, Wood-Ridge, N. J., assignor to Bendix Aviation Corporation, Bendix, N. J., a corporation of Delaware

Application March 15, 1941, Serial No. 383,643
4 Claims. (Cl. 73—179)



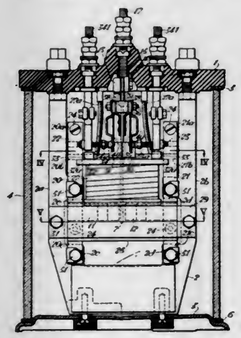
1. In a rate-of-climb instrument, a casing having an open end, a dial closing the open end of said casing provided with a compressed graduated scale thereon whose graduations are spaced apart a predetermined amount at one end of the scale and whose spacings progressively decrease toward an opposite end of said scale, a pressure responsive element in said casing and having its interior in communication with the atmosphere outside of said casing, means providing a restricted communication between the interior of the casing and the atmosphere outside thereof whereby said element responds to the pressure differential created thereon during climb or descent of the craft upon which the instrument is mounted, said element expanding or contracting in equal incremental amounts for equal incremental changes in pressure, means comprising a rock-shaft responsive to the operation of said element, means comprising a pointer superimposed for movement over said scale and having a slotted driven member for indicating the operation of said element, and means comprising a driving member operated by said rock-shaft for engaging and driving said driven member whereby said pointer is driven over said one end of said scale at a ratio of movement which is relatively greater during relatively small pressure differentials acting on said element and for actuating said pointer over the opposite end of said scale at a ratio of movement which progressively decreases as the pressure differential on said element increases.

2,327,395

ELECTROMAGNETIC DEVICE

Herman G. Blosser, Pittsburgh, and Robert M. Laurenson, Rosedale Heights, Pa., assignors to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania

Application May 26, 1942, Serial No. 444,512
7 Claims. (Cl. 200—93)



5. An electromagnetic device comprising a vibrating reed armature rigidly anchored at one end and cooperating at its free end with two spaced pairs of pole pieces, said pole pieces being formed with bifurcated pole faces the bifurcations of which are far enough apart to permit said armature to freely enter the space between them, the two pole pieces of the pair nearest the free end of said armature being disposed with their bifurcations in spaced confronting relation and the pole pieces of the other pair being disposed with their bifurcations touching to provide a low reluctance magnetic path from one pole piece to the other past said armature and from said armature to both said pole pieces, magnetizable members connecting the corresponding pole pieces of the two pairs of pole pieces together, means for polarizing the pole pieces nearest the free end of said armature, means for providing a relatively high reluctance path for said polarizing flux from said members to the pole pieces of the other pair, means for producing a flux in said armature to cause said armature to oscillate, a contact assembly secured to said armature and including a plurality of flexible contact fingers, and a fixed contact cooperating with each finger, said armature and contact assembly being so proportioned that they have a resonant frequency slightly higher than the frequency at which said armature is caused to oscillate to provide constancy of armature amplitude irrespective of contact wear.

2,327,396

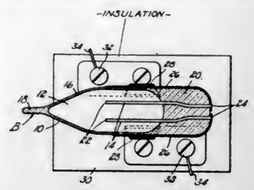
LIGHT BULB

Raymond Boardman, Hartford, Conn., assignor to The Hart Manufacturing Company, Hartford, Conn., a corporation of Connecticut

Application March 15, 1941, Serial No. 383,597
4 Claims. (Cl. 176—122)

1. The combination with a pair of spaced spring contact arms, of a light bulb adapted to be

removably supported between said arms and supplied with electric current by said arms, said bulb comprising a hollow glass body closed at both ends and filled with an inert gas, a pair of electrodes embedded in one of said closed ends of the body and extending into said hollow body in spaced relation to each other and to the walls of the body, the outer ends of said electrodes extend-



ing through the end of the body to form a pair of exposed leads, and a resistor strip contacting each of said exposed leads all extending along the exterior surface of the body for a substantial distance, said resistor strips being adapted to engage the spring contact arms for conducting electric current to the electrodes while setting up a resistance to the passage of the electric current.

2,327,397

PROCESS FOR MAKING ESTERS OF HYDROXYALKYL CELLULOSES AND PRODUCT PRODUCED THEREBY

Aubrey E. Broderick, South Charleston, W. Va., assignor to Carbide and Carbon Chemicals Corporation, a corporation of New York

No Drawing. Application November 18, 1939, Serial No. 305,104
16 Claims. (Cl. 260—226)

15. A composition of matter comprising an aliphatic monocarboxylic acid ester of an hydroxyalkyl cellulose, said ester being produced by the fibrous esterification, with at least one aliphatic monocarboxylic acid anhydride, of an hydroxyalkyl cellulose derived from an unmercerized cellulose, in the presence of an esterification catalyst and of a volatile liquid diluent in which the resultant primary ester is insoluble said ester being hydrolyzed to a combined aliphatic acid content, calculated as acetic acid, within the range between approximately 46% and 54%.

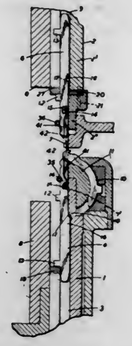
2,327,398

CIRCULAR KNITTING MACHINE OF THE LINKS AND LINKS TYPE

Thomas Charles Bromley and Arthur Shortland, Leicester, England, assignors to Mellor Bromley & Co. Limited, Leicester, England, a British company

Application October 1, 1941, Serial No. 413,204
In Great Britain October 5, 1940
2 Claims. (Cl. 66—14)

1. In a circular knitting machine, in combination, axially opposed plain and rib needle cylinders each having therein axially extending grooves, double ended needles in said grooves, a series of needle-operating sliders in the grooves of the plain cylinder, an opposed series of similar sliders in the grooves of the rib cylinder, each of the sliders having on the back thereof a cam formation, cam means for action on the sliders whereby needles can be transferred from one cylinder to the other according to requirements, and, inserted in at least one of the needle cylinders, a rigid ring which projects from the backs of the grooves in said cylinder so that when sliders are advanced during a transfer action the cam formations thereon co-operate with the inserted ring to effect outward deflec-



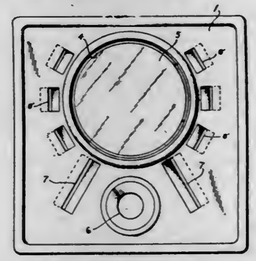
tion of said sliders whereby needles and sliders previously in engagement are divided, for the purpose specified.

2,327,399

ARTIFICIAL SILK DRY SPINNING APPARATUS

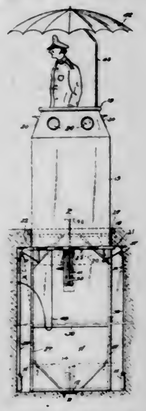
James J. Calhoun, Waynesboro, Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application December 18, 1941, Serial No. 423,554
1 Claim. (Cl. 18—8)



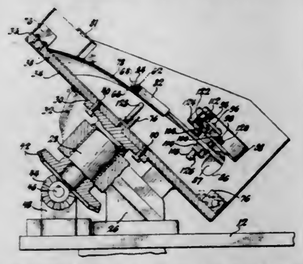
In an evaporative spinning apparatus comprising a spinning cell having a spinneret within the upper portion thereof, arranged for double end spinning, the improvement which comprises a relatively thick closure member adapted to cover a complementary opening in the side wall of the cell closely adjacent the spinneret, said closure member being provided with a circular sight-opening covered with transparent material, a light-opening directly therebelow, and a plurality of air-inlet openings disposed in a circle about said sight-opening, said air-inlet openings comprising two relatively long slots located below the sight-opening and extending radially with respect to the center of the sight-opening and at an angle of 30° from the vertical axis of the sight-opening, and a plurality of shorter slots extending at right angles to radial lines from the center of the sight-opening and located above said long slots and to each side of the sight-opening, each of said slots extending thru the relatively thick closure member at an angle of 30° with respect to the face of said closure member and toward the adjacent wall of the spinning cell whereby evaporative medium entering the cell thru said slots is directed around the walls of the spinning cell.

2,327,400
TRAFFIC CONTROLLING SEMAPHORE
Luis Canepa and Angel Canepa, Santiago, Chile
Application September 24, 1941, Serial No. 412,178
3 Claims. (Cl. 187—1)



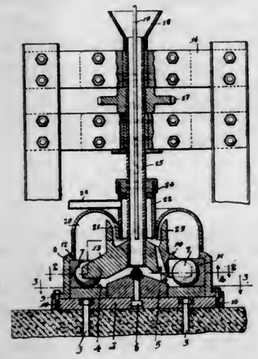
1. An apparatus of the character described comprising a shaft having an open top, an enclosed platform movable from a concealed position within the shaft to a raised position therein, counter-balancing means for said platform, means to lock said platform in raised position, a closure for the open top of said shaft, said top being movable from closed position to an open position disposed substantially parallel with said shaft.

2,327,401
CLINCH NUT PRESS
William D. Chilton, Royal Oak, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application December 22, 1941, Serial No. 424,093
4 Claims. (Cl. 10—169)



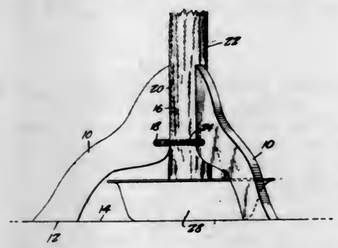
1. In a machine of the type described, the combination of a hopper adapted to receive a quantity of articles in a mixed condition, a chute leading from the hopper into the machine, a member projecting from the chute into the hopper, a portion of said hopper being rotatable to arrange the articles in such position that they become caught upon the member and may slide on the latter into the chute to be fed into the machine, reciprocatory means located adjacent the point where the articles enter the chute to remove any articles which may have become caught in an incorrect position upon the member, and a stud extending upwardly from the rotating portion of the hopper and adapted to engage said means to reciprocate it intermittently.

2,327,402
GRINDING MILL
Walter Gordon Clark, Los Angeles, Calif., assignor to Clarkiron, Inc., Los Angeles, Calif., a corporation of Nevada
Application June 10, 1940, Serial No. 339,712
2 Claims. (Cl. 83—45)



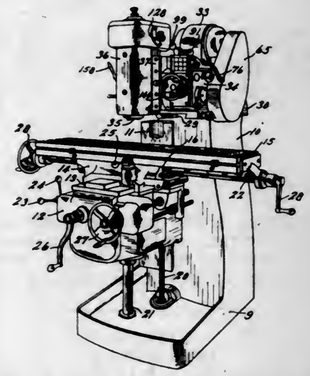
1. A grinding mill comprising a grinding chamber formed by a floor and a detachable and upwardly moving hood providing an annular side wall for said chamber, replaceable wear plates for the floor and side wall of said grinding chamber, a spider mounted upon a hollow shaft for rotation within said grinding chamber, balls individually separated by said spider and arranged in a single circular series and contacted by said spider for positive movement in a horizontal plane and under centrifugal pressure against the wear plates of the side wall of said grinding chamber, said hollow shaft serving as an inlet to said grinding chamber and a concentric outlet for said grinding chamber, above said spider.

2,327,403
TREE HOLDER
William A. Coupanger, Elmore, Minn.
Application October 16, 1942, Serial No. 462,306
2 Claims. (Cl. 248—47)



2. A tree holder comprising a plurality of legs adapted to rest at their outer ends on the floor, the legs curving upwardly and then inwardly from their outer ends, the inner ends of the legs being elongated in an upward direction to provide long tree engaging faces adapted to balance the tree in a vertical position, pins carried by the inner ends of the legs near the upper ends of said faces for engagement with the tree, the inner ends of the legs being provided near the lower ends of said faces with openings, and a continuous coil spring passing freely through said openings to hold said faces against the tree.

2,327,404
MILLING MACHINE
Frank W. Curtis, Springfield, Mass., assignor to Van Norman Machine Tool Company, Springfield, Mass., a corporation of Massachusetts
Application July 15, 1941, Serial No. 402,479
7 Claims. (Cl. 90—14)

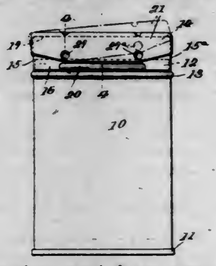


1. In a milling machine having a base, a column, a ram mounted on the column for reciprocation, said ram comprising a main body portion extending from the front to the back of the ram and an offset portion projecting laterally from the main body portion at the front of the ram, a prime mover carried by the ram, transmission mechanism mounted in the ram and driven by the prime mover and including a main clutch and a plurality of shiftable change gear units, a spindle carrier supported in said offset portion for reciprocation in a vertical plane laterally displaced from said main body portion, a spindle and a main driver supported in parallel relation in the spindle head for reciprocation therewith, and in said plane, the axis of said spindle lying beyond the end of the ram and the main driver extending into the offset portion, gearing connecting the main driver and transmission, shiftable change gears connecting the main driver and spindle, a manual control handle for vertical adjustment of the spindle carrier and mounted on the front of the ram in the main body portion, a plurality of manual control handles for shifting the clutch and the change gears of said transmission and mounted in the main body portion with their projecting ends extending beyond the ram and closely adjacent the first mentioned manual control handle, and a manual control for shifting the change gears in the spindle head and mounted in the side of the spindle carrier closely adjacent said first mentioned control handle.

2,327,405
PRINTING VAT DYESTUFFS
Alfred Davidson, Ernest Chapman, Simon Thomson McQueen, and Joseph Payman, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Application March 13, 1940, Serial No. 323,816. In Great Britain March 20, 1939
5 Claims. (Cl. 8—70)

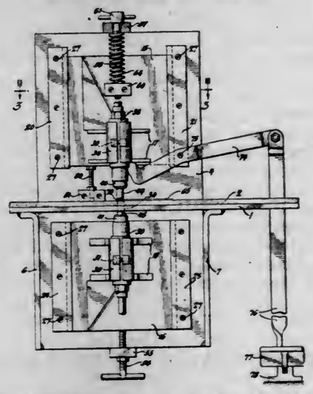
2. A color composition comprising a vat dyestuff and an iron phthalocyanine compound, the latter being present in quantity not exceeding 1% as compared to the weight of the vat dyestuff.

2,327,406
DISPENSING CONTAINER
Morton McI. Dukehart, Jr., New Rochelle, N. Y., assignor to Continental Can Co., Inc., New York, N. Y., a corporation of New York
Application September 17, 1941, Serial No. 411,211
3 Claims. (Cl. 221—62)



1. A dispensing container comprising a substantially rectangular body portion with opposed peripheral end walls provided with dispensing openings therethrough, and a substantially rectangular closure member fitting over one end of the body portion and having the peripheral end walls thereof adapted to control the dispensing openings, and the peripheral side walls of said body portion and said closure member having cooperating pairs of projections and recesses selectively providing a pivotal connection for the closure member permitting limited tilting thereof from a neutral position covering the dispensing openings to selected tilted positions uncovering one or another of the dispensing openings.

2,327,407
DEBURRING MACHINE
Wilfred B. Edyvean, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application September 3, 1942, Serial No. 457,125
4 Claims. (Cl. 90—11)

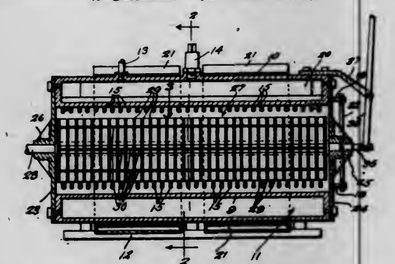


1. A machine including a pair of axially opposed tools having convex conical cutting ends, a pin projecting axially from one of said tools into an axial bore in the other of said tools in which it has a running fit, and means for adjusting the axial distance between the closest points of the cutting edges of said tools to equal the thickness of a work piece with burred edges which is moved along between said tools and guided with its edge in contact with said pin, thereby to remove said burrs and smooth the edges of said work piece.

2,327,408
FLOTATION
Edward J. Ellis, Bartow, Fla., assignor to Southern Phosphate Corporation, Baltimore, Md., a corporation of Delaware
No Drawing. Application April 1, 1941, Serial No. 386,309
3 Claims. (Cl. 209—166)

1. The method of beneficiating a phosphate ore by flotation of a silica-containing concentrate therefrom which comprises subjecting phosphate rock to a desliming operation to separate slime, forming a pulp comprising the deslimed phosphate rock, an amino compound which in aqueous solution yields large positive lipophile ions and mildly negative hydrophile ions and an amount of an alkaline earth sulphate sufficient to inhibit ionization of the amino compound, and subjecting the resultant pulp to froth flotation.

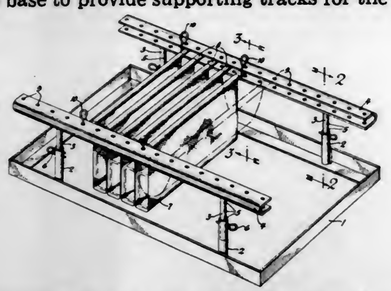
2,327,409
PRIME MOVER
Fay A. Farrar, San Jose, Calif.
Application October 30, 1942, Serial No. 463,967
2 Claims. (Cl. 253—56)



1. In an air motor of the class described, an outer cylindrical shell constituting a housing and provided with a relief valve and a compressed air supply pipe, an inner concentric cylindrical housing, the housings being joined at their outer ends, longitudinally extending circumferentially spaced equidistant exhaust ducts connecting said housings together, exhaust disposal manifolds surrounding the outer housing and having communicating connection with said ducts, said inner housing being provided on its exterior with longitudinally extending valve guides, valves slidable in said guides, said inner housing being further provided with a multiplicity of internal angularly disposed air delivery nozzles, and a rotor mounted for rotation in said inner housing, said rotor including a multiplicity of radial abutments carried by adjoining disks, said abutments and disks defining V-shaped pockets and said nozzles being in alignment with said pockets in the manner and for the purposes described.

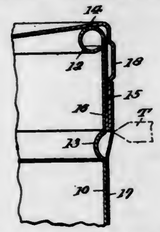
2,327,410
SHIPPING DEVICE FOR LIGHT AIRPLANE PARTS
Otto C. Ferguson, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application September 13, 1941, Serial No. 410,730
5 Claims. (Cl. 211—13)

4. In a shipping device, a load cradling unit comprising a series of transverse suspension bars and load embracing loops of flexible material hung from said bars for contraction and expansion of their mouths upon adjustment of the bars toward and from each other and an encompassing unit to enclose said cradling unit interchangeably with other similar units differing in relative loop depth, said encompassing unit comprising a base, a pair of transversely spaced rails above the base to provide supporting tracks for the loop



suspension bars of the cradling units, and means supporting the rails on the base for relative vertical adjustment to selective height settings determined by loop depth of the cradling unit.

2,327,411
CONTAINER
Henry A. Fink, Pelham Manor, N. Y., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application May 22, 1941, Serial No. 394,720
1 Claim. (Cl. 220—42)

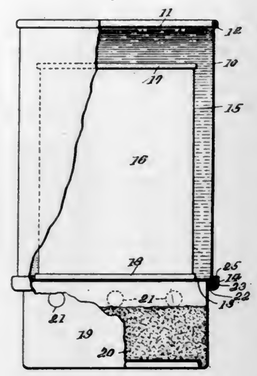


A container comprising a sheet metal body portion having the open end thereof rolled inwardly into a hollow bead, said bead lying wholly on the inside of the wall of the container whereby the container wall at the outer upper end thereof is of uniform diameter, a metal closure member for said container having a depending skirt adapted to slip over the upper end portion of the container body, said depending skirt having the lower edge portion thereof turned inwardly and backwardly into contact with the inner face of the skirt, said inturned portion of the skirt being dimensioned so as to make tight frictional contact with the outer face of the body wall, said body immediately below the skirt of the closure member when fully seated thereon being beaded inwardly, and a label extending around the body wall and skirt of the closure member and secured thereto for sealing the container, said inwardly projecting bead providing a recess at the lower folded edge of the skirt to facilitate severing of the label along said folded edge when it is desired to remove the closure member.

2,327,412
CONTAINER WITH HEATING MEANS
Henry A. Fink, Pelham Manor, N. Y., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application August 9, 1941, Serial No. 406,227
2 Claims. (Cl. 220—4)

1. A sheet metal container assembly compris-

ing an upper container including a body portion, end members secured thereto by double seaming, said bottom end member having a depression therein adjacent the double seam joining the said end of the body, and a lower container including a body portion having a closed bottom end, said body portion having a laterally projecting flange bent downwardly, outwardly and thence



upwardly and dimensioned so as to conform to the double seam joining the bottom end to the body on the upper container, said upwardly extending portion being shaped so as to contact with the double seam and join said lower container in sealed engagement to the upper container.

2,327,413
CELLULOSIC STRUCTURE AND METHOD FOR PRODUCING SAME
Theron G. Finzel, Kenmore, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 13, 1939, Serial No. 304,216
11 Claims. (Cl. 8—132)

1. The process which comprises swelling a cellulose organic derivative structure with a nitroparaffin, containing not more than six carbon atoms, and stretching the swollen structure.

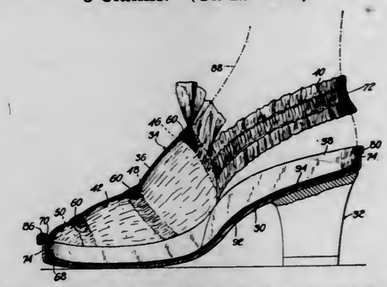
2,327,414
BOMB
Fritz E. Firing, Chicago, Ill., assignor to Munitions, Incorporated, Chicago, Ill., a corporation of Illinois
Application October 15, 1938, Serial No. 235,135
6 Claims. (Cl. 102—2)

1. A bomb comprising a casing, a main explosive charge, and an igniter therefor, fixed relative to said main explosive charge and spaced rearwardly therefrom in said casing, propelling means forwardly of said main explosive charge for moving said main explosive charge rearwardly toward said igniter within said casing, including actuating means for said propelling means operable upon impact of the bomb when dropped, yieldable means for yieldably holding the main explosive charge in spaced relation forwardly of said igniter within said casing before actuation of said propelling means, and for yielding when said propelling means is actuated to permit said propelling means to move said main explosive charge rearwardly into cooperative relationship with said igniter, and means for firing said igniter to discharge said main explosive charge when the



latter is moved by said propelling means into cooperative relationship with said igniter.

2,327,415
SHOE AND METHOD OF MAKING SAME
Vilem Forschner, New York, N. Y.
Application April 18, 1941, Serial No. 389,153
3 Claims. (Cl. 12—142)

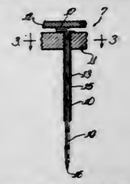


1. A method of making shoes comprising the steps of preparing an upper having material in excess of the material required for a proper fitting on the wearer's foot, securing the edge of a strip of lining to the interior face of the upper by a seam near the edge of the upper to be attached to the flange of a sole having an upwardly extending flange, attaching the unshaped upper with the interior face outward to the outside of said flange of the sole, turning over the unshaped upper so as to bring its exterior face outward, pulling said strip of lining tightly around said flange for placing said seam above said flange and adjacent thereto, attaching the free portion of said strip of lining under tension to the inside of the flange and the sole for a tight contact between the edge of the flange and the strip of lining near said seam so as to render discernible the edge of the flange on the exterior face of the upper, and shaping the upper after its having been turned over for a proper fitting on the wearer's foot.

2,327,416
FELTING NEEDLE
Edson P. Foster, Manitowoc, Wis.
Application October 12, 1942, Serial No. 461,704
18 Claims. (Cl. 28—4)

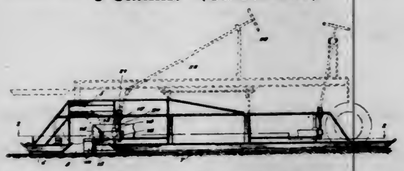
1. As an article of manufacture, a felting needle comprising a body having an unrecessed portion and a recessed portion defining a down-

wardly directed spur, said body having protrusions adjacent its recessed portion the cross-sectional area of said recessed portion and said



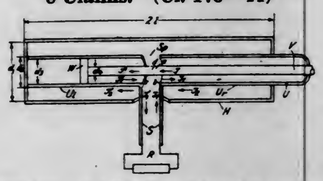
protrusions being substantially equal to the cross-sectional area of said unrecessed portion of said body.

2,327,417
RUNNER FOR ROAD SCRAPERS
Edward C. Gledhill, Galion, Ohio
Application May 8, 1942, Serial No. 442,251
3 Claims. (Cl. 37—150)



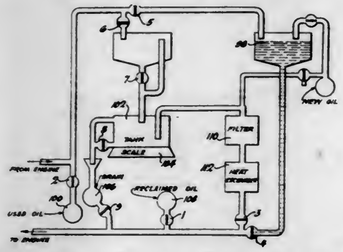
1. A road machine including a frame, a runner carried by the frame and including front and rear sections spaced apart to form an opening, a scraping blade mounted on the runner at the opening therein and provided with an angularly disposed gathering lip, a vertical extension on said scraping blade, an angle bar secured to the scraping blade at said extension, a substantially V-shaped brace secured to the angle bar, a straight brace connecting the angle bar and said V-shaped brace, a vertical post disposed within the V of said brace, a sleeve on the post connected with the blade assembly and provided with a nut, a threaded rod engaging the nut, and means connected with the threaded rod for rotating the same to raise and lower the scraping blade, said V-shaped brace forming a shield for the sleeve and nut.

2,327,418
ENERGY TRANSITION SYSTEM
Joachim Goldmann, Berlin, Germany; vested in the Alien Property Custodian
Application October 10, 1941, Serial No. 414,477
In Germany July 4, 1940
8 Claims. (Cl. 178—44)



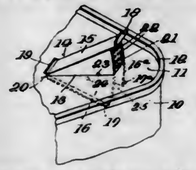
1. A system for effecting electrical energy transition from an asymmetrical high frequency energy transmission line to a symmetrical transmission line and vice versa for oscillations having a wavelength in the order of less than one meter, comprising a coaxial transmission line having a center conductor and an outer conducting sheath constituting the asymmetrical energy line, the outer conducting sheath of which is interrupted in front of the end at which radiation is suppressed so as to form an annular gap which divides the outer sheath of said coaxial line into two sections, and the center conductor of which extends across said gap and projects into the section of the outer sheath remote from the end from which the asymmetrical energy is fed, and means connected to the opposing ends of the said gap for symmetrically deriving electrical energy from said ends.

2,327,419
APPARATUS FOR TESTING ENGINE LUBRICATION
Levi R. Grandy, River Forest, Ill., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application April 30, 1942, Serial No. 441,121
3 Claims. (Cl. 73—51)



1. In an engine testing system, a conduit for connection to the inlet of the engine lubricating system, a conduit for connection to the outlet from the engine lubricating system; valved connections from a new oil tank and a reclaimed oil tank respectively to the inlet conduit; valved connections from the outlet conduit to a used oil drain, a receiver for a scale tank mounted on a weighing scale platform, and the new oil tank respectively; a valved connection from the receiver to the scale tank, a valved connection from the scale tank to the inlet conduit, a valved connection from the scale tank to a drain, a valved connection from the drain to the inlet conduit, and a single centralized control means for said valves adapted to provide different desired selections of closed and open valves for various operational requirements of the system.

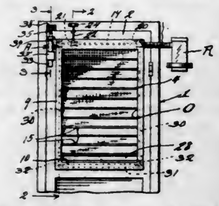
2,327,420
DISPENSING CONTAINER
Thomas A. Grosse, Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application March 9, 1942, Serial No. 433,974
3 Claims. (Cl. 221—11)



1. A dispensing container adapted to permit pouring or sifting of the contents thereof and comprising a body portion having a substantially rectangular opening therethrough, a closure member hingedly connected to the body portion at one end of the said opening and having an imperforate outer wall portion adapted to close the opening, said closure member having depending side walls and an end wall remote from the hinge

connection, and said end wall being provided with sifting openings adjacent the imperforate wall portion and a pouring opening disposed inwardly thereof whereby initial opening movement of the closure member will expose only the sifting openings and further opening of the closure member will expose the pouring opening.

2,327,421
SCREEN DOOR INSECT TRAP
William A. Hall, San Acacio, Colo.
Application March 22, 1943, Serial No. 480,080
7 Claims. (Cl. 43—110)



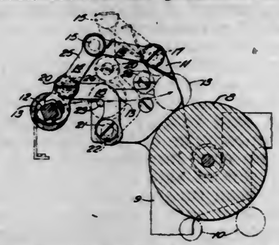
1. The combination with a screen door, of means providing a chamber at the upper part of the screen, the chamber having a bottom opening and further having an outlet opening above the bottom, means disposed upon the outer side of the screen below the chamber for movement over the screen toward the open bottom of the chamber to compel insects to rise from the screen and enter the chamber through the open bottom, means for actuating said first means, and an insect receiver disposed at one side of the screen and having communication with said outlet opening to receive insects from the chamber.

2,327,422
COMPOSITION OF MATTER AND METHOD AND STEPS OF MAKING AND USING THE SAME
Mortimer T. Harvey, East Orange, N. J., assignor to Harvel Research Corporation, a corporation of New Jersey
No Drawing. Application March 30, 1940, Serial No. 327,057
13 Claims. (Cl. 260—42)

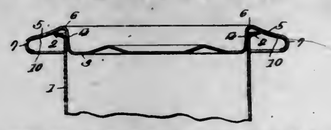
10. A composition of matter comprising a material selected from the group consisting of polymerized vinyl chloride, polymerized vinyl acetate and copolymers of vinyl chloride and vinyl acetate and a normally liquid organic condensation product selected from the group consisting of organic condensation reaction products of formaldehyde and turpentine, formaldehyde and pinene, formaldehyde and terpineol and formaldehyde and pine oil, said material being dissolved in said organic condensation product, said composition of matter being in the state of a gel up to about 200° F.

2,327,423
TYPEWRITING MACHINE
William F. Helmond, Clinton, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware
Application March 21, 1941, Serial No. 384,530
8 Claims. (Cl. 197—138)

1. In combination, a typewriter carriage, a platen thereon, a paper-guiding bail having a crosspiece and opposite end members, and means for guiding the crosspiece toward and away from the platen, comprising devices mounting the bail on the carriage, having provision for effecting a swinging movement of the bail combined with a turning movement on an axis intermediate the extremities of the bail end members as the crosspiece is moved toward the platen and simultaneously constraining the crosspiece to take a substantially straight-line course toward the platen.



2,327,424
METHOD OF SEAMING COVER ENDS TO CAN BODIES
John Henchert, Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application June 19, 1941, Serial No. 398,830
1 Claim. (Cl. 113—121)

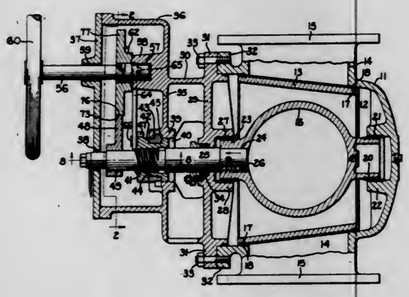


The method of seaming a cover end to a can body, consisting in outwardly flanging the body, die shaping a cover end dimensioned so as to provide a central depressed portion and a seaming flange of more than twice the length of the body flange, which cover flange is initially inclined downwardly from the base of the flange to the outer edge thereof, subjecting the outer edge portion of the cover end to a curling roll for curving said edge portion downwardly and inwardly to a point substantially in alignment with the bottom wall of the depression, placing the cover end on the can body and subjecting the cover end flange to a seaming roll shaped so as to bend the outer portion of the flange downwardly while the body flange remains in its initial position, then subjecting said cover end flange to a second seaming roll shaped so as to tuck the outer portion of the flange underneath the flange on the can body into contact with the under side of the base of the body flange while leaving the lowermost portion of the cover end seaming flange spaced away from the body flange, and projecting below and spaced away from the lower edge of the body flange and finally subjecting said initially seamed parts to a third seaming roll shaped so as to press the body flange and a portion of the cover end flange into tight engagement with each other and the body wall in the region extending from the lower edge of the body flange upwardly while providing a space in the seam beneath the lower edge of the body flange.

2,327,425
VALVE OPERATING MECHANISM
Earl E. Hilker, Spring Garden Township, York County, Pa., assignor to S. Morgan Smith Company, York, Pa., a corporation of Pennsylvania
Application July 1, 1942, Serial No. 449,245
9 Claims. (Cl. 74—22)

1. In means for imparting rectilinear and rotary movements to a member having a shaft pro-

vided with a threaded portion, a nut having an internal threaded portion mounted on the threaded portion of said shaft for moving said shaft and said member rectilinearly when the nut is rotated, a second shaft, means for rotating the second shaft, a crank fixed to said nut, a second crank fixed to said second shaft, a link connecting both of said cranks whereby when the second crank is turned said nut will be turned, a rotator fixed to said first shaft, a radially disposed slot formed in said rotator and extending inwardly from the outer edge of the rotator body, a roller mounted on said second crank and adapted to enter the slot of said rotator after the second crank has been turned through a predetermined angle whereby said rotator is turned by said crank and thereby rotates said member, said roller being adapted to pass out of said slot after the rotator has been turned through the predetermined angle, a disk-like member formed as part of said second crank, the periphery of said disk-like member having a circular portion and a portion in the form of a concave recess extending equidistantly in opposite directions from the longitudinal center line of said second crank, and arcuate side walls formed in the periphery of said rotator, said side walls being disposed at opposite sides of the longitudinal center line of said rotator slot, the curvature of said arcuate side walls corresponding substantially with the curvature of the circular portion of the periphery of said disk-like member, the circular portion of the periphery of the disk-like member being adapted to engage the arcuate side walls of said rotator during operation of said second crank to hold the rotator against rotation when the roller of said second crank is disengaged from the rotator slot.



2,327,426
DYEING CELLULOSE DERIVATIVES
Kenneth Ronald House and Henry Charles Olpin, Spondon, near Derby, England, assignors to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application May 14, 1940, Serial No. 335,146. In Great Britain June 7, 1939
5 Claims. (Cl. 8—48)

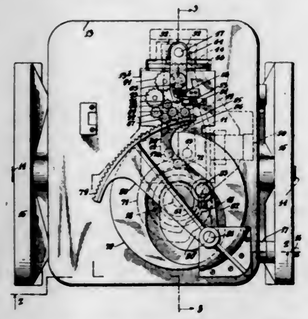
1. Process for the coloration of cellulose acetate materials, which comprises forming an azo dye on the materials by incorporating in the materials a 4-amino-4'-nitro-azobenzene, diazotizing this amino-azo compound and coupling it with m-chloraniline.

2,327,427
DUAL BRAKE ARRANGEMENT FOR TRAINER AIRPLANES
Charles Hollerith, Jackson, Mich., assignor to Hayes Industries, Inc., Jackson, Mich., a corporation of Michigan
Application April 24, 1940, Serial No. 331,321
1 Claim. (Cl. 244—84)



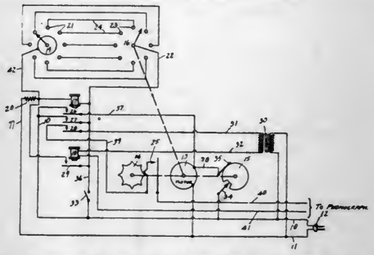
In a dual brake system for training airplanes, brake mechanism, brake pedal means for operation by an instructor, brake pedal means for operation by a student pilot, a lever pivoted to a relatively fixed point, an operative connection between said lever and said brake mechanism, a member connecting said instructor's brake pedal means to said lever, a second member connecting said student pilot's brake pedal means to said lever, one of said members being connected to said lever at one point and the other of said members being connected to said lever at another point, said points being spaced different distances from said pivotal point of said lever, whereby force is transmitted by a different mechanical advantage from each brake pedal means to said brake mechanism.

2,327,428
THREADING MACHINE
John M. Hothersall, Brooklyn, N. Y., assignor to E. J. Brooks Company, Newark, N. J., a corporation of New Jersey
Application December 24, 1941, Serial No. 424,375
13 Claims. (Cl. 29—84)



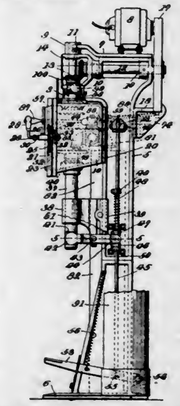
1. In a threading machine, means to support a perforated sealing member through which a looped double-end strand is to be threaded and rethreaded, feeding and guiding means, arranged adjacent one end of said sealing member when in threading position, to thread the free ends of the looped strand through said sealing member, and a combined reversing and rethreading device, arranged adjacent the other end of said sealing member, including feeding and guiding means to reverse the direction of travel of said free ends of the threaded strand to thereby form two reverse loops the free ends of which point back toward the sealing member and to rethread said free ends through the perforated sealing member.

2,327,429
REMOTE CONTROL SYSTEM
Charles J. Hull, North Tonawanda, and Fred H. Osborne, Snyder, N. Y., assignors to The Rudolph Wurlitzer Company, Cincinnati, Ohio, a corporation
Application September 3, 1940, Serial No. 355,204
3 Claims. (Cl. 177—380)



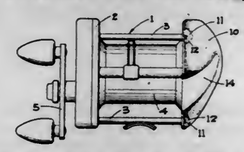
1. In a remote control system having an electric control circuit extending from a remote control station to a local station adjacent a controlled machine, the subcombination of a motor operated impulse switch in said circuit at said remote station, a motor for operating said switch, a second switch in said circuit, initiating means for operating said second switch to render said impulse switch effective in making and breaking said circuit and for simultaneously starting said motor, apparatus automatically operable after a predetermined period of motor operation to reverse said second switch to render said impulse switch ineffective, said apparatus being selectively operable to vary said period below a predetermined maximum, and a limit switch connected to control said motor and to stop the same at the end of a predetermined period of operation at least as long as said maximum period.

2,327,430
MACHINE FOR VACUUMIZING, GASSING, AND HAND-SEALING FILLED CONTAINERS
George F. Jackson, Baltimore, Md., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application August 12, 1941, Serial No. 406,529
14 Claims. (Cl. 226—86)



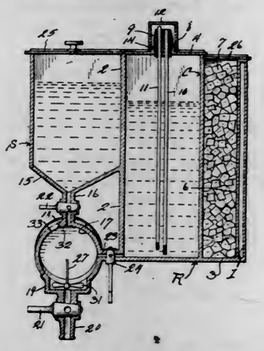
1. In a container sealing machine, a container supporting pad, sealing means including a chuck, said chuck being magnetized so as to attract and hold a metallic end closure placed thereagainst, means for bringing about relative movement between said pad and chuck to cause a container on said pad and a complementary end closure attracted to said chuck to engage in assembled relation, means forming an enclosing chamber about said pad and chuck, and means for effecting first an evacuation and then a gassing of said chamber prior to the moving of said container and end closure into assembled relation, said last named means including a single control valve manually shiftable from a neutral ineffective position in one direction to an evacuation effecting position and in another direction to a gas introduction effecting position.

2,327,431
FISHING REEL
Joseph W. Jicha, Cleveland, Ohio
Application October 25, 1940, Serial No. 362,763
9 Claims. (Cl. 242—84.1)



1. In a fishing reel, a generally semi-rounded palm supporting element constituting the rear end of the reel and having its most elevated portion eccentric to its periphery.

2,327,432
BEVERAGE MIXER AND DISPENSER
William V. Johnson, Washington, D. C.
Application October 10, 1941, Serial No. 414,512
2 Claims. (Cl. 225—26)

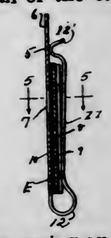


1. An apparatus of the class described including a receptacle, liquid holding containers within the receptacle, a cylindrical shaped mixing receptacle extending across and carried by the first receptacle below the containers, said mixing receptacle being inwardly and downwardly inclined from its opposite ends, a valve controlled communication between each of the containers and the mixing receptacle, a series of aligned containers carried by the first receptacle above the mixing receptacle, each of said second containers having valve controlled communication with the mixing receptacle, and a valve controlled discharge for the mixing receptacle.

2,327,433
KEY HOLDER
William V. Johnson, Washington, D. C.
Application January 12, 1943, Serial No. 472,121
2 Claims. (Cl. 40—2.2)

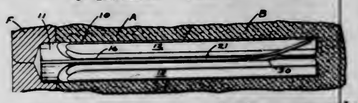
1. A key holder comprising a casing open at

one end and having an opening in a wall thereof, an element insertible within the casing through the open end thereof, said element having a luminous portion for exposure through the opening in the wall of the casing, an elongated



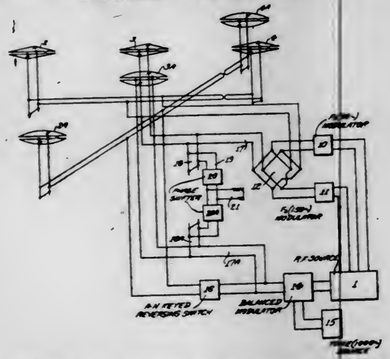
arm carried by the casing and extending beyond the open end of the casing, and a head carried by said extended portion of the arm for contact with a wall of the casing.

2,327,434
FRACTURE SECURING APPARATUS
Herbert A. Johnston, Anaheim, Calif.
Application May 7, 1943, Serial No. 485,992
9 Claims. (Cl. 128—92)



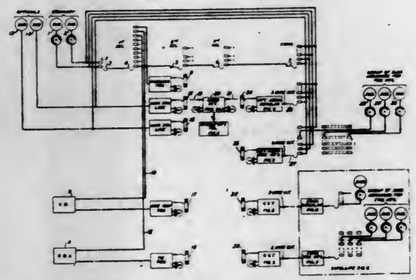
1. A fracture securing device comprising an elongated body having a bore and having a rib extending from the body, said body having a slot therein communicating with the bore, and a key member having a bead slidably fitting said bore, said key including an end portion bent at an angle to the remainder of the key.

2,327,435
ANTENNA INTERACTION COMPENSATING MEANS
Armig G. Kandoian, New York, N. Y., assignor to Federal Telephone & Radio Corporation, a corporation of Delaware
Application October 23, 1941, Serial No. 416,163
4 Claims. (Cl. 250—11)



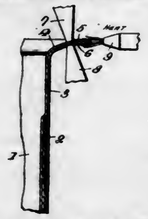
1. Means for compensating or neutralizing interaction between antenna units which are arranged in close proximity to one another, and supplied with differently characterized energy over separate supply lines, said means including a compensating line interconnecting points on one of said supply lines with points on another of said supply lines, said points on any one of said supply lines being electrically spaced a distance substantially equivalent to one half a wavelength at the operating frequency from said antenna unit on said respective supply line, a resistance unit bridged across said compensating line, and means for adjustably controlling the amplitude and phase of energy in said compensating line.

2,327,436
TELEPHONE SYSTEM
Charles D. Koechling, Floral Park, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 22, 1942, Serial No. 451,863
4 Claims. (Cl. 179—27)



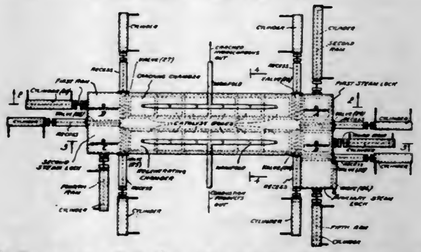
1. In a telephone system, a plurality of lines, each said line having a designation containing a plurality of digits, subscriber controlled selectors and connectors for interconnecting said lines, a manual board for establishing connections to lines each having a designation containing a portion of the designation of a wanted one of said lines, attendant connectors controlled over said manually selected lines for selecting said lines by the remaining portion of the designation of a wanted one of said lines, cord circuits in said manual board each having a marginal relay in the sleeve thereof, a high resistance connection for each of said lines leading to one of said attendant connectors to differentiate said lines from other lines outgoing from said manual board, said other lines each having a low resistance sleeve connection, a dialing circuit in said cord circuit effective in response to the connection of said cord circuit to one of said lines having a high resistance sleeve, a ringing circuit in said cord circuit effective in response to the connection of said cord circuit to one of said lines having a low resistance sleeve, said ringing circuit being rendered effective by the response of said marginal relay to said low resistance sleeve connection, a flashing recall circuit in said cord circuit being operated by an interrupter having a certain rate, said flashing recall circuit being effectively set in operation by a momentary interruption of the established connection, means in said attendant's connector responsive to the seizure thereby of a wanted one of said lines for changing the said high resistance sleeve circuit of the line leading to the said attendant's connector to a low resistance sleeve circuit for operating said marginal relay in said cord circuit to effectively substitute therein said ringing circuit for said dialing circuit, means in said attendant's connector responsive to the busy condition of a seized line for connecting a second interrupter in a bridge circuit across the talking path through said connector to interrupt the talking circuit to said cord circuit periodically, said interrupter in said cord circuit and said second interrupter being synchronized whereby the combination effect of the two said interrupters will operate said flashing recall circuit to give an indication different from the normal indication of said circuit as a signal that the line called over said attendant's connector is busy.

2,327,437
METHOD OF MANUFACTURING SHEET METAL CANS
Alfred L. Kronquest, Syracuse, N. Y., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application August 4, 1941, Serial No. 405,388
2 Claims. (Cl. 113—120)



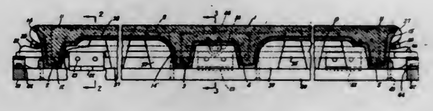
1. The method of manufacturing sheet metal cans comprising forming the can body with lap sections at the ends of the side seam, solder bonding the side seam, flanging the can body, pressing the lap portions in the flange together, applying heat to melt the solder for releasing the solder bond between said lap portions and cooling said portions to set the melted solder for re-bonding said lap portions prior to the releasing of the pressure on said lap portions.

2,327,438
CATALYTIC CRACKING APPARATUS
George F. Kuhn, Hammond, Ind., assignor to Sinclair Refining Company, New York, N. Y., a corporation of Maine
Application March 21, 1941, Serial No. 384,445
8 Claims. (Cl. 196—52)



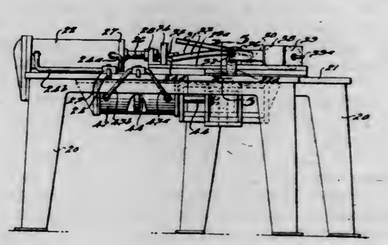
5. In apparatus for catalytic cracking of hydrocarbons, the improvement which comprises a train of boxes charged with catalyst, an elongated cracking chamber capable of accommodating a plurality of the boxes end to end, an elongated regenerating chamber capable of accommodating a plurality of the boxes end to end, a double steam lock having at least three valves and composed of at least two compartments connecting an end of the cracking chamber with an adjacent end of the regenerating chamber, a second double steam lock having at least three valves and composed of at least two compartments connecting the other end of the cracking chamber with the other end of the regenerating chamber, means for passing a stream of hydrocarbons to be cracked substantially continuously through the cracking chamber in contact with the catalyst in the boxes, means for passing a stream of oxidizing gas substantially continuously through the regenerating chamber in contact with the catalyst in the boxes, and means for moving the boxes cyclically from the cracking chamber through the first steam lock, the regenerating chamber and the second steam lock.

2,327,439
METHOD OF MOLDING
Johannes C. P. Leemhuis, Los Angeles, Calif., assignor, by mesne assignments, to Edward James Donaldson, Johannesburg, Transvaal, Union of South Africa
Application August 26, 1938, Serial No. 226,920
4 Claims. (Cl. 25—155)



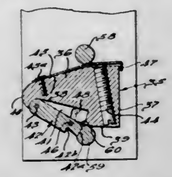
1. The process of molding a building unit from moist plastic cementitious material, said unit having a molded surface with projecting portions forming raised areas, which comprises covering the corresponding mold surface with a layer of pliant material, said layer being adapted to follow closely the configurations of the mold surface, placing the cementitious material in the mold, so as to leave one surface of the unit exposed, distributing sand on said exposed surface while said surface is still plastic, and reversing the mold on a pallet with the sanded surface in contact with the pallet.

2,327,440
BENDING MACHINE
Paul F. Maize, Detroit, Mich., assignor to Briggs Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application December 2, 1940, Serial No. 368,200
30 Claims. (Cl. 153—33)



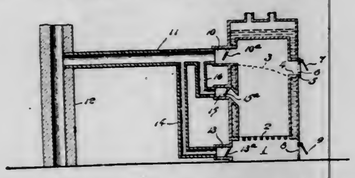
1. In a bending machine, a fluid-actuated piston, a form plate connected to said piston, guide means for guiding said form plate in a path projecting as a straight line in the plan view of the form plate, a peripheral track on said form plate adapted to receive a workpiece, means for swinging said form plate and track, two pressure shoes adapted to contact the workpiece and to force the same into said track for bending the workpiece, two fluid-actuated pistons movable each along a straight line path, hinge means connecting each pressure shoe with a fluid-actuated piston, and means adapted to move said pressure shoes along said track to facilitate the relative movement of said track and said shoes during swinging movement of the track.

2,327,441
DOOR LOCK
William Marshall, Detroit, Mich., assignor to Briggs Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application October 22, 1941, Serial No. 416,012
9 Claims. (Cl. 292—220)



9. In a dovetail having a body portion, a spring member secured to the body portion and forming an exterior inclined working face for said body portion, and means on said body portion for shifting said member relative to said body portion to change the operative position of said working face.

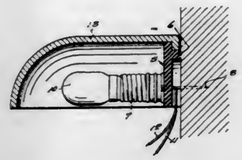
2,327,442
DOMESTIC HEATER
Edmund McCarthy, Tenafly, N. J.
Application February 1, 1941, Serial No. 377,022
4 Claims. (Cl. 110—147)



1. A domestic heating furnace for burning solid fuel having an ash pit, a grate above said ash pit for supporting a fuel bed of substantial depth, an air inlet to the ash pit below said grate, a fuel inlet above the normal surface level of the fuel bed, means for controlling the passage of air to the furnace through said ash pit inlet, a flue adjacent said furnace, a first duct leading outwardly from said ash pit, a second duct leading outwardly from the furnace at a point above the normal surface level of the fuel bed, a third duct leading outwardly from said furnace at a point above the grate therein and below the normal surface level of the fuel bed, means connecting the said ducts to said flue, and means in each of said first, second and third ducts operable selectively to regulate and control the passage of air and combustion gases outwardly through each of said ducts.

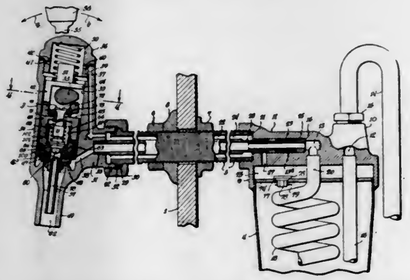
2,327,443
ILLUMINATING DEVICE FOR HOUSE NUMBERS
Herman Lou Millspaugh, Seattle, Wash.
Application September 30, 1940, Serial No. 359,039
1 Claim. (Cl. 240—73)

In a device for the illumination of house numbers: the combination of a mounting plate formed on its back face with an integral web projecting rearwardly in spaced paralleling relation to the perimeter of the plate; means for attaching the plate against the wall of the house to have the same lie above the number which is to be illuminated and with the web bearing directly against the wall to describe a peripheral channel about the plate defined at the outside by the back face of the plate and at the inside by said wall of the house; a lamp socket supported on said plate; and a member arranged to fit over the plate to provide a hood for a lamp received in said socket, said hood-forming member being provided about its seating edge with an inturned flange formed to a thickness permitting the same to be freely



lodged in and removed from said peripheral channel, the inner perimeter of said web describing a chamber to the rear of the plate which is open at the bottom to accommodate wires carried from the socket through the back wall of the plate to the lamp-energizing source of current.

2,327,444
DISPENSING APPARATUS AND FAUCET
Thomas A. Nigbor, Whitefish Bay, Wis., assignor to Howard Mfg. Co., Milwaukee, Wis.
Application March 10, 1941, Serial No. 382,487
14 Claims. (Cl. 225—6)

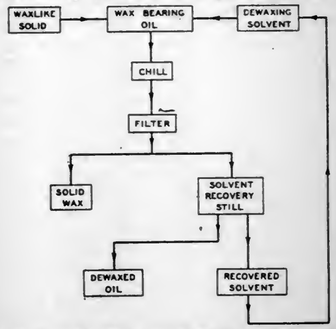


1. In a dispensing apparatus of the character described for a carbonated beverage having inlet and discharge openings, relatively movable main and supplemental valve means interposed between said openings, the main valve means controlling a solid flow of liquid to the discharge opening, the supplemental valve means controlling an atomized flow of the liquid to the discharge opening, said supplemental valve means being carried by and discharging through the main valve means and remaining closed during the opening and closing movement of the main valve means, and manually operable means for selectively actuating said valve means, said actuating means having co-acting elements, one for opening the main valve means and the other for opening the supplemental valve means.

2,327,445
PROCESS OF DEWAXING OIL
Edward A. Nill, Detroit, Mich.
Application April 27, 1940, Serial No. 332,043
4 Claims. (Cl. 196—19)

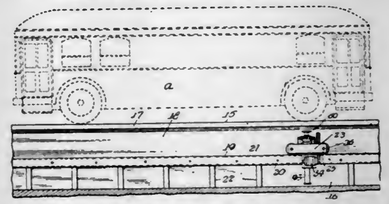
1. In a process for separating wax from wax-bearing lubricating oil wherein the wax-oil mixture is chilled to solidify the wax, the step which

comprises incorporating in the wax-oil mixture, before chilling and in the presence of solvent



which is liquid at atmospheric temperatures, a hydrogenated solid fatty acid glyceride.

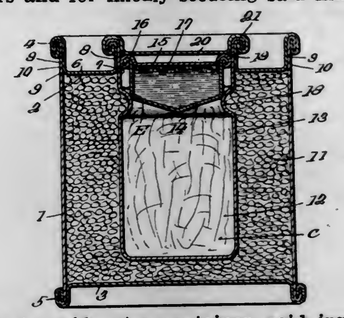
2,327,446
DROP-PIT APPARATUS
Raymond C. Ortgies, Chicago, Ill., assignor to Whiting Corporation, Harvey, Ill., a corporation of Illinois
Application April 3, 1943, Serial No. 481,675
16 Claims. (Cl. 104—32)



1. Apparatus for raising and lowering parts of the equipment on a vehicle disposed over a pit extending longitudinally beneath the vehicle, comprising longitudinal rails fixed along the sides and elevated above the bottom of the pit, a wheeled carriage mounted on and to travel longitudinally of the pit on said longitudinal rails, transverse rails on the longitudinally movable carriage, extending substantially across the pit, a wheeled carriage mounted to travel on the transverse rails for movement across the pit, a vertically extending jack-screw mounted for vertical movement in the transversely movable carriage and having its upper end extended for lifting, and mechanism for raising and lowering the screw, mounted on and to travel with the transversely movable carriage, the screw and said mechanism being movable to different transverse and longitudinal positions in the pit by transverse and longitudinal movements of the carriages, respectively.

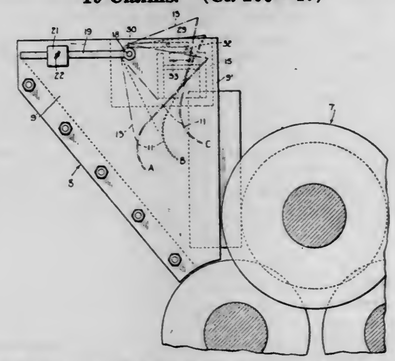
2,327,447
SELF-HEATING FOOD CONTAINER
Frank J. O'Brien, Pelham, N. Y., assignor to Continental Can Company Inc., New York, N. Y., a corporation of New York
Application February 15, 1940, Serial No. 319,161
1 Claim. (Cl. 220—20)

A sheet metal compartment container comprising an outer container including a body portion, end members seamed thereto, one of said end members having centrally thereof an outwardly projecting neck portion, an inner container including a body portion fitting said neck portion and extending through the outer container, a common closure member for said inner and outer containers, the body wall of said inner container, the neck portion of said outer container end and the flange of said closure common to said containers being rolled into a double seam for sealing both the inner and the outer containers and for fixedly securing said inner con-



tainer to said outer container, said inner container having an inwardly projecting rib spaced from the upper end thereof and a sealed sheet metal container disposed within said inner container end held supported on said rib by the closure member common to said inner and outer containers.

2,327,448
SPEED CONTROL FOR SQUEEZE ROLLS
Charles E. Olive, Drummondville, Quebec, Canada, assignor to Celanese Corporation of America, a corporation of Delaware
Application April 12, 1940, Serial No. 329,267
10 Claims. (Cl. 100—47)

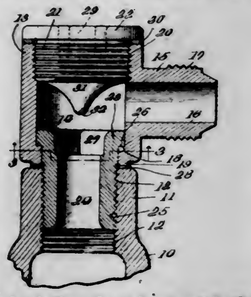


1. Apparatus for extracting liquid from wet masses of material, comprising squeeze rolls, means for feeding the wet mass to said squeeze rolls, feeler means adapted to follow the surface of the wet mass and to be actuated thereby, and means under the control of said feeler means for adjusting the rate of output of said squeeze rolls.

2,327,449
CONDUIT FITTING
Arthur L. Parker, Cleveland, Ohio
Application December 14, 1940, Serial No. 370,214
1 Claim. (Cl. 138—37)

A fitting for fluid conduits comprising a body portion having a cylindrical chamber open at its ends and a radial extension provided with a port connected to the chamber, said body portion having an inwardly extending shoulder ad-

jacent one end, a sleeve fitted within said chamber and engaging said shoulder and projecting beyond the end and having threaded connection with the fluid conduit, a gasket between the end of said body portion and the fluid conduit, said sleeve being adapted to secure said body portion in a selected fixed position on said conduit, a plug having a threaded connection with the opposite end of said body portion for closing

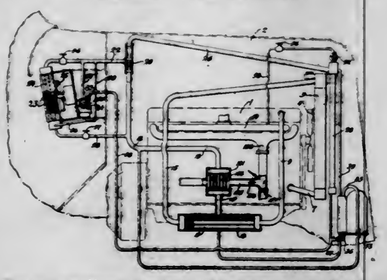


the upper end of the chamber, said plug extending into the chamber to a point adjacent the port in the radial extension and having a substantially coniform projection curved so as to direct fluid from the conduit into the radial port, the inner wall of said sleeve at the upper end thereof being curved to conform to the curvature of the opposing surface of the plug.

2,327,450
LIQUID SEALING COMPOUND
Arthur La Rue Parker, Cleveland, Ohio
No Drawing. Application March 24, 1941, Serial No. 385,009
4 Claims. (Cl. 252—243)

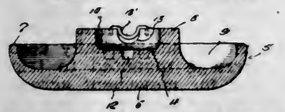
1. A composition for producing sealing and anti-seize joints, consisting of a mixture of 10 parts of highly polymerized blown castor oil dissolved in a limited quantity of a volatile alcohol solvent, substantially 3.3 parts of a soft neutral linseed oil as a substantially saturated solution in ethyl alcohol, and substantially 3 parts of aluminum stearate as a substantially saturated solution in toluene.

2,327,451
AIR CONDITIONER
Lester E. Perrine, Highland Park, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application October 27, 1941, Serial No. 416,619
7 Claims. (Cl. 257—7)



1. In a cooling system including a boiler, an evaporator, and a condenser for a refrigerant, and an injector between the boiler and the condenser through which a jet of vapor from said boiler is passed to the condenser, said injector having a suction line to said evaporator above the level of liquid refrigerant therein, through which a vacuum is drawn on the refrigerant liquid in said evaporator to lower its temperature, automatic means for returning liquid refrigerant from the condenser to the boiler including a tank with an inlet for liquid refrigerant from the condenser, an outlet for vapor to the condenser, an inlet for vapor from the boiler, and an outlet for liquid refrigerant to the boiler, valves for said inlets and outlets, said valves opening outwardly of said tank against the pressure of the spring means normally holding them closed, and means responsive to the level of liquid refrigerant in the tank for opening the first two of said valves while the other two valves are closed and vice versa, respectively to permit liquid refrigerant from the condenser to flow into the tank when the liquid level therein falls below a predetermined height and to permit liquid refrigerant from the tank to flow into the boiler when the liquid level in the tank rises above a predetermined height, the spring of said outlet valve for vapor to the condenser being stronger than the spring of said inlet valve for liquid refrigerant from the condenser, whereby during the periods when the inlet valve for vapor from the boiler and the outlet valve for liquid refrigerant to the boiler are open and the outlet valve for vapor to the condenser and the inlet valve for liquid refrigerant from the condenser are normally closed, the inlet valve for liquid refrigerant from the condenser will function as a safety valve limiting the maximum pressure in the boiler by opening when the boiler pressure through the inlet valve for vapor from the boiler is sufficient to overcome the pressure of the spring of the inlet valve for liquid refrigerant from the condenser, and permitting liquid refrigerant to be forced back therethrough into the condenser.

2,327,452
ASH TRAY
William E. Powers, Dayton, Ohio
Application January 16, 1942, Serial No. 427,051
1 Claim. (Cl. 131—240)

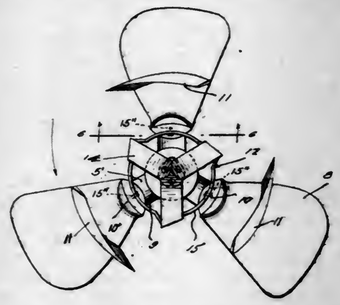


In an ash tray, a saucer-shaped body, an upstanding portion located centrally of and integral with the body and having a recess providing an annular upper edge thereto, said edge having recesses and sockets therein with the sockets located adjacent to and at opposite sides of the second-named recesses, and substantially U-shaped cigarette supporting members acting to prevent cigarette sweating arranged in pairs and traversing the last-named recesses and including angularly related end portions resting on the edge of the upstanding portion and extending into the sockets to prevent accidental displacement of said members.

2,327,453
HELICAL MARINE PROPELLER
Eric A. F. Presser, Hammond, Ind.
Application October 4, 1941, Serial No. 413,675
11 Claims. (Cl. 170—170)

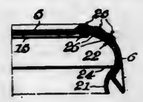
1. A propeller of the screw type comprising a hub, a plurality of blades projecting from the hub, said blades having helical pitch angles, and

means carried by the hub of the propeller and extending longitudinally of the hub in spaced



relation therefrom for producing a centripetal action on the water contacted by the blades.

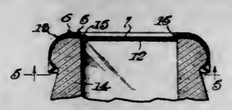
2,327,454
PADLESS CROWN CAP
William F. Punte, Syracuse, N. Y., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application November 2, 1939, Serial No. 302,600
6 Claims. (Cl. 215—39)



5. A metal closure cap for containers having a sealing seat and a holding shoulder, said cap including a body portion adapted to overlie the sealing seat and having a depending skirt crimped to provide fastening lugs adapted to be forced beneath the holding shoulder, said body portion of the cap in the region directly above said sealing seat being bent upwardly to provide an annular shallow groove on the inner face of the cap, and a plastic sealing material adapted to fill said groove and contact with the sealing seat when the cap is applied to the container, said groove when sealing pressure is applied to the cap being adapted to partially straighten out and force the sealing material into tight sealing contact with the seat, said holding lugs on the skirt being disposed so as to hold the cap in sealing engagement with the container with the metal forming said groove held under constant tension.

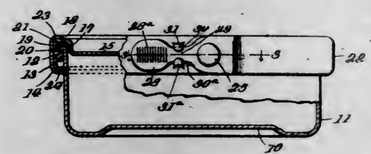
2,327,455
PADLESS CROWN CAP
William F. Punte, Syracuse, N. Y., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application September 19, 1940, Serial No. 357,472
2 Claims. (Cl. 215—39)

1. A metal closure cap for sealing the neck of a bottle, can or like container comprising a crown body portion and a depending container mouth gripping skirt portion, two upstanding integral annular ribs dividing the non-applied crown body portion into a generally flat central body portion of a diameter substantially coextensive with that of the pouring throat in the container mouth and a surrounding generally flat sealing portion deformable during application of the cap to conform to the shape of the container mouth and merging into said skirt portion, said ribs providing downwardly directed sealing compound receiving grooves disposed to lie above the sealing lip of a bottle when attached thereto and forming between them a hinge groove permitting upward bulging of said central body portion under abnormal sealed pressure



conditions without disturbing sealing contact of said surrounding sealing portion, and a sealing compound permanently adhered in and filling said downwardly directed grooves and covering said surrounding sealing portion and merging into said skirt portion.

2,327,456
CONTAINER WITH CLOSURE LOCKING BAND
William F. Punte, Syracuse, N. Y., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application October 4, 1941, Serial No. 413,674
3 Claims. (Cl. 220—61)

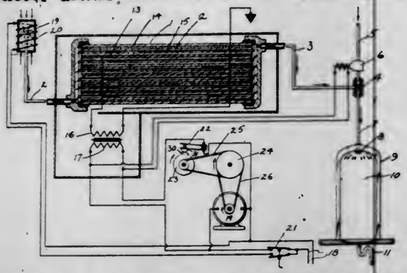


3. A container comprising a body portion having a shoulder disposed below the open end thereof, a cover for closing the open end of the body portion, a sealing band having flanges engaging over the cover and beneath the shoulder for securing the cover to the body portion, the ends of said sealing band being in overlapped relation, the outer lapping end of said sealing band having the metal therein pressed outwardly to form a recess the side walls of which are substantially at right angles to the face of the band and the inner lapping portion of the band having the metal therein pressed outwardly to form a projection fitting within said recess and preventing lateral movement of the ends of the bands relative to each other, the said outer lapping end having a projecting finger piece provided with a reduced neck portion between the recess therein and the end of the finger piece, said inner lapping end having lugs struck up therefrom for engagement between which said neck portion of the outer lapping end is adapted to be placed, said lugs being bent down over the neck portion for retaining the projection in said recess.

2,327,457
APPARATUS FOR TREATING URINE
Arthur Raisch, Royal Oak, Mich., assignor to Sanozone Corporation, Detroit, Mich., a corporation of Michigan
Application December 19, 1940, Serial No. 370,861
4 Claims. (Cl. 4—99)

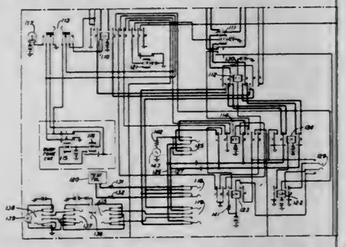
1. In combination with a urinal, a source of water under pressure, a line connecting the source of water under pressure with the urinal, an inductor connected in the water line, an electrically operated cell for generating ozone, a conduit connecting the ozone generating cell with the in-

ductor whereby the water in flowing through the inductor draws the ozone from the cell into the



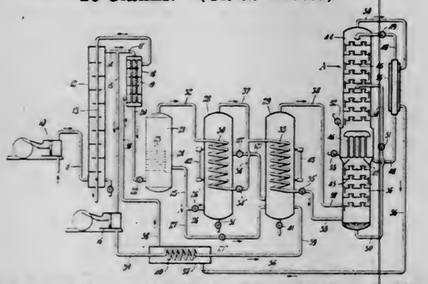
inductor for mixing the same with the water preparatory to flushing the urinal.

2,327,458
TESTING SYSTEM
John Nicholson Reife, Montgomery, Ala., assignor to American Telephone and Telegraph Company, a corporation of New York
Application January 9, 1942, Serial No. 426,157
4 Claims. (Cl. 179—175.21)



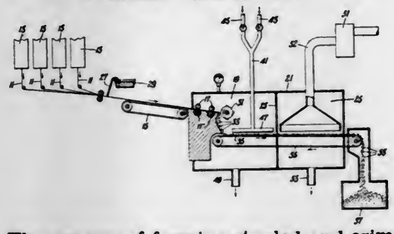
2. In a telephone system, a plurality of subscribers' lines, subscriber controlled selectors and connectors for interconnecting said lines, an auxiliary testing circuit permanently associated with one of said connectors for converting said connector into a test connector, manually operable means for rendering said auxiliary circuit effective and means in said connector responsive to its use in normal service for rendering the operation of said manual means ineffective.

2,327,459
PROCESS OF AND APPARATUS FOR SEPARATING GAS MIXTURES
Philip K. Rice, Kenmore, N. Y., assignor to The Linde Air Products Company, a corporation of Ohio
Application June 5, 1942, Serial No. 445,946
16 Claims. (Cl. 62—175.5)



1. A method of eliminating higher boiling-point impurities in the separation of a gas mixture by rectification at low temperatures which comprises providing a portion of such impurity-containing gas mixture compressed to a relatively high pressure, deeply cooled, and expanded to effect partial liquefaction; scrubbing the gaseous fraction of such cooled mixture with the liquid fraction thereof to concentrate said impurities substantially entirely in the liquid fraction; separating said gaseous and liquid fractions; dividing said liquid fraction into two liquid portions; substantally vaporizing one of said liquid portions at an intermediate pressure by heat exchange with said gaseous fraction thereby forming a concentrate of said impurities; substantially vaporizing the other of said liquid portions at a pressure lower than said intermediate pressure by heat exchange with said gaseous fraction to form another concentrate of said impurities; withdrawing both of such impurity-containing concentrates; and passing the impurity-free substantially liquefied material of said gaseous fraction and the vapors of said vaporizations into rectifying apparatus for separation of said gas mixture in the absence of said impurities.

2,327,460
PROCESS FOR STAPLING AND CRIMPING SYNTHETIC TEXTILE FIBERS
Edward W. Rugeley, Charleston, W. Va., assignor to Carbide and Carbon Chemicals Corporation, a corporation of New York
Application May 10, 1939, Serial No. 272,795
9 Claims. (Cl. 18—54)

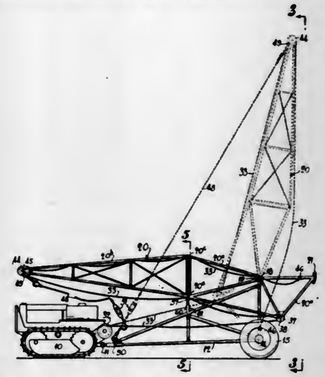


1. The process of forming stapled and crimped textile fibers from a continuous uncrimped filament of a water-insoluble vinyl resin, which filament is capable of contraction upon exposure to an atmosphere consisting at least largely of steam, which comprises cutting such a filament into a plurality of short stapled fibers that are unshrunk and capable of contraction, while the filament contains a solvent for the resin which is at least partially miscible with water, but which is present in amount insufficient to render the resultant fibers tacky when exposed to an atmosphere consisting at least largely of steam, and immediately subjecting said fibers to an atmosphere consisting at least largely of steam whereby the staple fibers are shrunk and highly crimped.

2,327,461
TRAILER DERRICK
Oliver R. Rowe, Charlotte, N. C., assignor of one-half to Ralph H. Bouligny, Charlotte, N. C.
Application February 10, 1942, Serial No. 430,187
3 Claims. (Cl. 254—139.1)

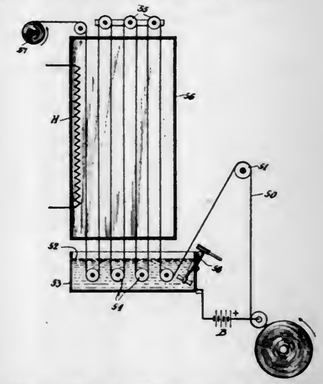
3. In combination, a tractor having a winch, a trailer chassis having one end thereof detachably secured to said tractor below said winch, said chassis having an axle, wheels on said axle, a boom pivotally secured intermediate its ends to said chassis at a point above said axle, a shoe on one end of said boom, a trough-like member on said axle for receiving said shoe when the boom

is disposed in substantially vertical position, a pin removably penetrating said shoe and said trough-like member for releasably locking said shoe in the trough-like member, a sheave on said boom, said sheave being adapted to bodily rotate through an arc lying entirely below said boom pivot as the boom is raised and lowered, a second sheave on said boom and being located above said boom pivot when the boom is in an erected position, a cable extending from said winch and first



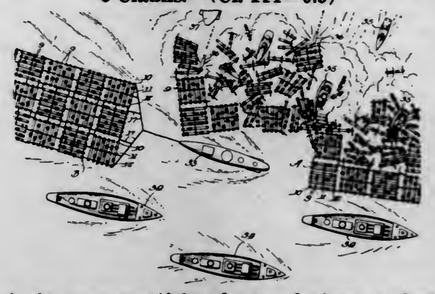
passing over said first sheave and then over said second sheave, means for anchoring said cable to said boom whereby the boom can be rotated about its pivot upon the actuation of said winch, a horizontal bar carried by said chassis and being located between said boom pivot and said tractor, said bar being adapted to support the free end of said boom when the same is in lowered position, and means for adjusting the vertical position of said horizontal bar.

2,327,462
ELECTRODEPOSITION OF INSULATING MATERIAL
Samuel Ruben, New Rochelle, N. Y.
Application August 12, 1939, Serial No. 289,810
15 Claims. (Cl. 204—181)



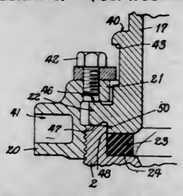
1. In the method of insulating a flexible conductor, said conductor constituting the anode in an electrophoretic assembly, the steps comprising electrophoretically depositing upon said conductor from an aqueous dispersion, a mixture of finely divided inorganic insulating material and a water gelling hydrated silicate, the amount of inorganic insulating material being greater than the amount of said hydrated silicate.

2,327,463
DEVICE FOR DEFENSE AGAINST THE ATTACK OF HIGH-SPEED TORPEDO BOATS
Martin C. Schwab, Chicago, Ill.
Application September 3, 1941, Serial No. 409,366
5 Claims. (Cl. 114—0.5)



1. As a new article of manufacture, a device adapted to protect ships against the attack of patrol torpedo boats comprising a plurality of logs secured together in spaced relation in the form of a boom disposed substantially parallel to the surface of the body in which it is floating, and upwardly flaring prong members having pointed ends adapted to snare the hulls of high-speed torpedo boats and being fixedly mounted on the upper surface of said logs.

2,327,464
UNION COUPLING
William A. Shaw, Los Angeles, and Arthur O. A. Hodge, Hermosa Beach, Calif., assignors to The National Supply Company, Pittsburgh, Pa., a corporation of Pennsylvania
Original application December 18, 1939, Serial No. 309,710. Divided and this application March 4, 1941, Serial No. 381,754
7 Claims. (Cl. 285—120)

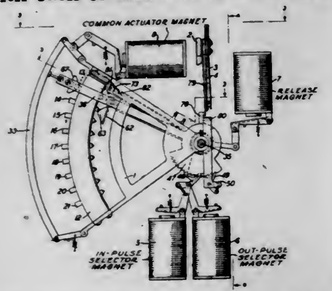


1. In a connection joint for tubular elements, a washpipe having an external cylindrical wear surface prepared for rotary contact with a packing means, attaching means positioned at the lower end of the washpipe for securing it in operative position with respect to the other tubular element, said attaching means including an upwardly facing radially extending abutment and a downwardly facing radially extending shoulder axially spaced from the abutment, a cylindrical alignment surface disposed coaxially of said cylindrical wear surface, said alignment surface being adapted to cooperate directly with said other tubular element to maintain alignment, and a downwardly facing radially extending abutment for use in disconnecting the washpipe from operative position.

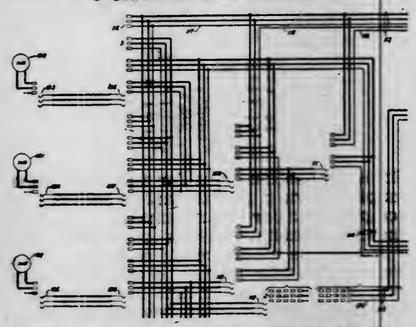
2,327,465
PULSE REGENERATOR
Judson O'D. Shepherd, Atlanta, Ga.
Application July 11, 1941, Serial No. 401,914
8 Claims. (Cl. 177—353)

1. A device comprising a plurality of sets of

mechanically displaceable elements mounted in a fixed frame, a set of common actuating members, one for each element of a set, electromagnetic means including a group of magnets fixed with respect to said frame for operating said members, a set of links for transferring the operation of said members to the said mechanically displaceable elements of one of said sets at a time, means for moving said links into association with each of said sets of mechanically displaceable elements, a detector comprising a plurality of sets of contacts equal in number to the number of displaceable elements in each of said sets, each set of contacts adapted to be operated by a corresponding displaced element when said detector is associated with a particular set of said elements, means for moving said detector into association with each of said sets of mechanically displaceable elements, and signaling means controlled by said detector.

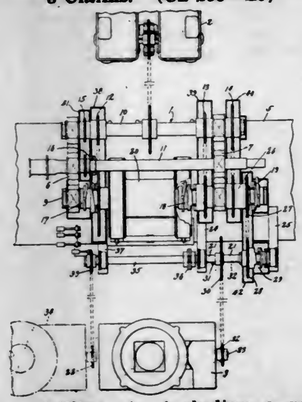


2,327,466
AUTOMATIC TOLL TICKETING SYSTEM
Lyle J. Scott, Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 27, 1942, Serial No. 448,785
3 Claims. (Cl. 179—18)



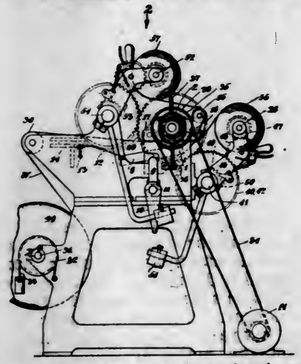
1. In a telephone system, an incoming trunk, a plurality of outgoing trunks divided into subgroups, a switch operable upon the seizure of said incoming trunk to extend said incoming trunk to an idle one of said outgoing trunks, apparatus common to said outgoing trunks, a control circuit, a plurality of means equal in number to said subgroups of outgoing trunks for extending said control circuit from any one of said trunks to said apparatus, means in said switch for extending said control circuit to that one of said control circuit extending means allocated to the subgroup of trunks in which said selected trunk is located, and a relay operable upon the seizure of an idle outgoing trunk for completing said control circuit.

2,327,467
ROTARY DRAW WORKS
John D. Spalding, Los Angeles, Calif., assignor to The National Supply Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application January 18, 1938, Serial No. 185,544
8 Claims. (Cl. 255—19)



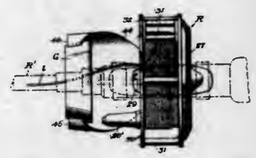
1. In a drilling rig, including a rotary machine having a drive shaft and a driving element on said shaft, and a rotary drawworks having a line shaft and a drum shaft, a transmission drive connection between said shafts, a transmission connection between the line shaft and a driving element journaled on said drum shaft, the combination of a countershaft interposed between the drawworks and the rotary machine, a driving connection between the last said driving element and the countershaft, a rotary machine drive element mounted on the countershaft so as to be adjustable longitudinally of said shaft, a drive connection between said rotary machine, drive element, and the first said driving element, and a second rotary machine driving element mounted on the countershaft in position translated along said countershaft to align with the rotary machine driving element when said rotary machine is moved to a position to drill a "rat hole" in a position at the edge of the derrick.

2,327,468
ART OF SEVERING WEBS
William M. Stocker, Hollis, N. Y., assignor to Cameron Machine Company, Brooklyn, N. Y., a corporation of New York
Application September 11, 1941, Serial No. 410,481
28 Claims. (Cl. 164—65)



1. In a device for severing sheet or web material composed at least in part of thermoplastics, a plurality of rotatable circular cutting elements normally out of cutting relation with said material, means for heating said cutting elements, means for advancing the material to be severed relative to the axis of rotation of said cutting elements, means for rotating said cutting elements with the peripheral speeds thereof in fixed relation to the rate of advancement of said material, a set of individual resilient members, a control means movable from a normal to an operated position and including said individual resilient members for moving said material into engagement with said heated cutting elements to be severed thereat, and means operative by said material advancing means on the movement of said control means from an operating to a normal position to withdraw said material from engagement with said cutting elements.

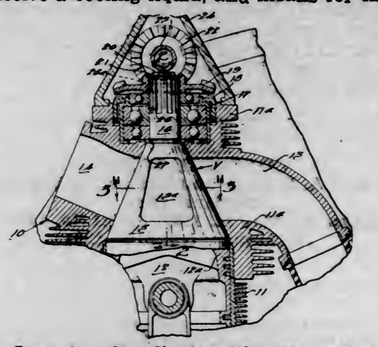
2,327,469
FISHING ROD AND REEL
William Teitsma, Paterson, N. J., assignor of one-third to Henry De Haan and one-third to Harry Dykstra, both of Paterson, N. J.
Original application September 15, 1941, Serial No. 410,823, now Patent No. 2,283,773, dated May 19, 1942. Divided and this application April 24, 1942, Serial No. 440,285
2 Claims. (Cl. 242—84.1)



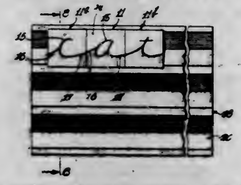
1. In a fishing rod and reel, a fishing rod, a reel mounted thereon movable between a position with the reel axis transverse to the rod and a position with the reel axis parallel to the rod, a fishing line on said reel guided by said rod, means for reeling the reel to wind or rewind the line when the reel is in the transverse axis position, the reel when in said parallel axis position permitting unwinding of said line from the end of said reel without spinning or reeling the wheel, a fixed annular guard positioned spacedly but closely in advance of said reel, and a shield member partly embracing the line supporting said guard on the rod, the reel being movable relatively to the guard and shield, the line threading through said guard and the guard and shield member serving to prevent the line from flying transversely into entanglement with the rod.

2,327,470
ENGINE
John Tjaarda, Detroit, Mich., assignor to Briggs Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application November 29, 1940, Serial No. 367,795
17 Claims. (Cl. 123—190)

1. In an internal combustion engine of the type having a cylinder and a reciprocating piston therein, a rotary valve member adapted to be mounted on the head-end of the cylinder and comprising a valve skirt having a valve stem projecting therefrom, said valve skirt having a plurality of connecting chambers formed therein and separated at least in part by walls formed integrally from the skirt, said chambers adapted to receive a cooling liquid, and means for inducing a flow of cooling liquid within the said chambers and from one chamber to another.



2,327,471
EDUCATIONAL APPARATUS
Ruth B. Tiers, Chicago, Ill.
Application November 24, 1941, Serial No. 420,202
4 Claims. (Cl. 35—35)



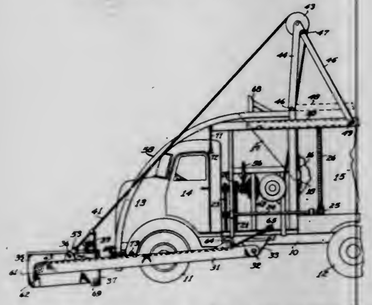
1. An educational apparatus of the character described for teaching the letters of an alphabet and reading and spelling comprising, a set of detached relatively large cut-out letters adapted to be individually handled corresponding to the different letters of the alphabet in capital letter form, and a set of relatively smaller detached blocks adapted to be individually handled having rectangular outer faces, there being one block for each of the cut-out letters and having singly and prominently displayed on one rectangular face thereof the same letter as the cut-out letter with which the block is associated in the same capital letter form as the cut-out letter and on another rectangular face of the block singly and prominently displayed the same letter as the cut-out letter in a small letter form, whereby in the use of the cut-out letters as the key letters and matching the capital letter form of the letter on the block with the corresponding larger cut-out key letter the small letter form of the key letter may be determined by viewing the other face of the block displaying the small letter form.

2,327,472
PHTHALOCYANINE PIGMENT AND METHOD OF PREPARING SAME
Vincent C. Vesce, Ridgewood, and Ferdinand M. Stalzer, Haledon, N. J., assignors to Harmon Color Works, Inc., Haledon, N. J., a corporation of New York
No Drawing. Application January 3, 1941, Serial No. 373,054
13 Claims. (Cl. 106—288)

1. A pigment of the phthalocyanine type capable of remaining in uniform dispersion in suspension in organic paint, varnish and lacquer vehicles and of yielding smooth films of true hue

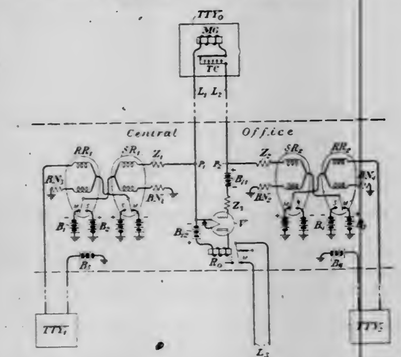
in coating films, comprising a phthalocyanine pigment having aluminum benzoate intimately incorporated therewith in the wet state, in such proportion with respect to the phthalocyanine pigment as to prevent any substantial appearance of flocculation with degradation of color, in coating films containing the pigment.

2,327,473
CONCRETE MIXER
Harold A. Wagner and Gustave H. Wagner, Portland, Oreg.
Application May 12, 1942, Serial No. 442,630
19 Claims. (Cl. 214—130)



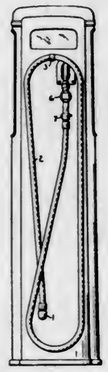
1. A mixer drum charging arrangement comprising a frame, a hopper for directing ingredients into the drum, a skip for elevating ingredients to said hopper, a pair of parallel arms pivotally mounted at one end on said frame below said hopper, said skip being pivotally mounted between the opposite ends of said arms, means for lifting said arms upwardly toward said hopper, flexible means connecting said skip and said frame for maintaining said skip substantially horizontal until said skip approaches said hopper, and means for effecting tilting of said skip to cause dumping of contents into said hopper.

2,327,474
SELECTIVE TELEGRAPH SYSTEM
Charles Robert Walker, Jersey City, N. J., assignor to American Telephone and Telegraph Company, a corporation of New York
Application July 23, 1942, Serial No. 452,007
6 Claims. (Cl. 178—2)



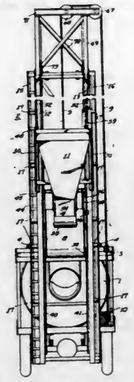
1. The combination of a plurality of two-way telegraph repeaters interconnecting a plurality of stations, a telegraph loop connected to said repeaters so that signals traversing said repeaters from any of said stations may be received by said loop and signals emanating from said loop may traverse said repeaters and be received by said stations, a receiving circuit connected across said loop, and means to prevent said receiving circuit from receiving all signals traversing said repeaters except those emanating from said loop.

2,327,475
LIQUID DISPENSING DEVICE
Paul E. Waugh, Fort Wayne, Ind., assignor to Tokheim Oil Tank and Pump Company, Fort Wayne, Ind., a corporation of Indiana
Application June 5, 1939, Serial No. 277,341
2 Claims. (Cl. 221—95)



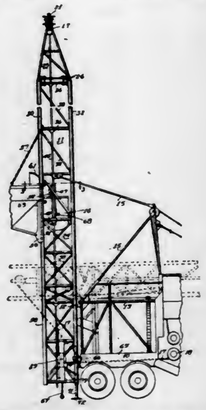
1. In a service station liquid dispensing device, an upstanding housing, a dispensing line mounted in said housing and having a portion extending from the housing adjacent the bottom thereof, a pump in said line and mounted in said housing, an electric motor in said housing for driving said pump, a flexible hose connected at one end to the portion of said line which extends out of the housing adjacent the bottom of said housing, said hose normally extending along an outside wall surface of said housing in a looped form of at least three flights, said hose having at its other free end a dispensing nozzle, said housing having a shiftably mounted support detachably receiving said nozzle to support the free end of the hose when not in use, said housing having an opening in its upper portion, yieldable and retractable means receiving the upper looped portion of said hose to support the hose against the outer wall surface of the housing, said yieldable and retractable means having a flexible cable passing through the opening in the housing and extending downwardly within said housing, a weight on the lower end of said cable, a switch controlling the motor, switch operating mechanism controlled by said weight for shifting the switch to open position upon the movement of said weight to lowered position as the hose is retracted and for shifting the switch to closed position upon initial movement of said weight upwardly as the hose is yielded, and means shifting the nozzle support upon detachment of the nozzle from the support, a second switch connected to the switch controlling the motor and connected to said nozzle support for preventing energization of the motor by a pull on the hose when the nozzle is on the nozzle support and for deenergizing the motor when the nozzle is placed on the nozzle support.

2,327,476
HOISTING TOWER
Harold A. Wagner and Gustave H. Wagner, Portland, Oreg.
Application August 9, 1941, Serial No. 406,206
13 Claims. (Cl. 214—95)



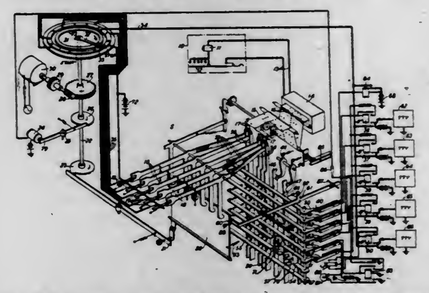
1. In a device of the class described, the combination comprising a tower formed of a plurality of separable sections secured together in an end to end relation, said tower being adapted to be conveyed from place to place in a horizontal position upon a vehicle, a hinge connection between the tower and the vehicle to allow the tower to be raised to a vertical operative position upon reaching a destination, said tower including said sections being box-like in shape having an open face and strengthening cross members along its two sides and back, said hinge connection being secured to the back side of said tower, a hopper adapted to be mounted at any desired height upon said tower, a bucket adapted for conveying materials upwardly within said tower to the height of said hopper, and means associated with said hopper for causing said bucket to move into dumping position upon said bucket reaching the height of said hopper.

2,327,477
CONCRETE MIXER TOWER
Harold A. Wagner, Portland, Oreg.
Application October 3, 1942, Serial No. 460,632
10 Claims. (Cl. 214—120)



1. In a portable concrete mixing apparatus, the combination comprising a vehicle having a framework, an elevator tower structure pivotally mounted intermediate its ends upon an upper portion of said framework for movement between a vertical operative position and a horizontal inoperative position, a hoist bucket slidably mounted within said tower for longitudinal movement therewithin, said tower including a pair of tubular rear uprights, means for securing the lower ends of said uprights in engagement with a lower portion of said framework in the operative position of said tower, means telescopically arranged within the lower ends of each of said rear uprights and movable into engagement with the ground to provide a firm foundation for said tower in the operative position thereof, a winch drum on said vehicle, a pulley on the lower end of said tower, a cable extending from said drum over said pulley and connected at its opposite end to said bucket for effecting relative longitudinal movement thereof within said tower in the operative position of said tower, and means for securing said bucket relative to said tower whereby movement of said tower between said operative and inoperative positions may be effected by said cable without requiring rearrangement thereof.

2,327,478
TELEGRAPH SYSTEM
Edward F. Watson, Larchmont, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 3, 1940, Serial No. 343,699
13 Claims. (Cl. 178—3)

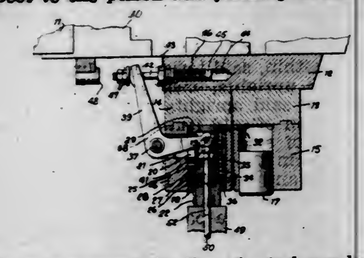


13. A signaling device responsive to signals stored in a signal recording tape comprising apparatus for determining the character of each signal stored in said tape, apparatus mechanically connected to and entirely mechanically controlled by said determining apparatus for selectively operating one of a plurality of sets of switching devices, instrumentalities for normally preventing the operation of said switching devices under control of signals stored in said tape and apparatus responsive to certain predetermined signals stored in said tape for rendering said switching devices responsive to the succeeding signals stored in said tape.

2,327,479
UPSETTING MECHANISM
Richard Lester Wilcox, Waterbury, Conn., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn., a corporation of Connecticut
Application May 18, 1942, Serial No. 443,407
10 Claims. (Cl. 10—12)

1. In mechanism of the character described, a punch holder, a punch movably mounted therein and having an axial opening therethrough, yielding means to urge the punch in one direction with respect to the punch holder, a pin within said

opening, and means independently movable with respect to the punch and yielding means for im-



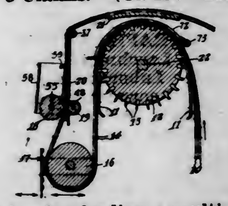
parting movement to the pin independently of said punch and yielding means.

2,327,480

FEEDING MECHANISM FOR MULTIPLE PRINTED FORMS

Ned Whitehead, Los Angeles, Calif.

Application March 4, 1941, Serial No. 381,617
8 Claims. (Cl. 197—133)



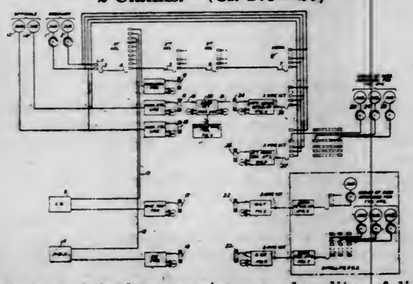
1. Apparatus for feeding a multiple web to and from the platen of a typewriting machine, comprising: feeding means synchronized with said platen for permitting the flow of the web to the platen at the peripheral speed of the platen but no faster, and means for applying tension to said web beyond said platen to maintain the web in tension about the platen, and draw it away from said feeding means and over said platen as fast as it is permitted to flow from said feeding means, said tension-applying means and feeding means constituting the sole elements for synchronizing said web with said platen, said tension-applying means comprising web-engaging means, and means for driving the latter at a speed in excess of the speed of said platen when unrestrained by resistance of said web.

2,327,481

TELEPHONE SYSTEM

Henry H. Abbott, Yonkers, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application July 22, 1942, Serial No. 451,862
2 Claims. (Cl. 179—27)



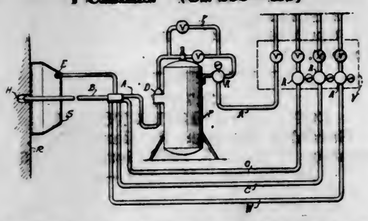
1. In a telephone system, a plurality of lines, each said line having a designation containing a plurality of digits, subscriber controlled selective switches for interconnecting said lines, a manual board for establishing connections to lines each designated by a portion of the designation of a wanted one of said lines, attendant selective switches controlled over said manually selected lines for selecting said lines by the remaining portion of the designation of a wanted one of said lines, cord circuits in said manual board each having a marginal relay in the sleeve thereof, a high resistance sleeve connection for each of said lines leading to one of said attendant's selective switches to differentiate said lines from other lines outgoing from said manual board, said other lines each having a low resistance sleeve connection, a dialing circuit in said cord circuit effective in response to the connection of said cord circuit to one of said lines having a high resistance sleeve, a ringing circuit in said cord circuit effective in response to the connection of said cord circuit to one of said lines having a low resistance sleeve, said ringing circuit being rendered effective by the response of said marginal relay to said low resistance sleeve connection, means in said attendant's selective switch responsive to the seizure thereby of a wanted one of said lines for changing the high resistance sleeve circuit of the line leading to said attendant's selective switch to a low resistance sleeve circuit for operating said marginal relay in said cord circuit to effectively substitute therein said ringing circuit for said dialing circuit.

2,327,482

MINERAL CUTTING AND PIERCING

Robert B. Aitchison, Grasmere, Staten Island, Charles W. Swartout and Virgil C. Williams, Kenmore, N. Y., assignors to The Linde Air Products Company, a corporation of Ohio

Application April 18, 1939, Serial No. 268,634
7 Claims. (Cl. 255—1.8)



1. Method of piercing or otherwise cutting mineral and mineral-like masses which comprises continuously applying a high-temperature oxy-fuel flame at a localized heating zone on said mass whereby to separate a portion of said material at said zone; promptly removing said portion from the region adjacent said flame; advancing said flame in the direction of the cut; and moistening said separated material after removal from said flame region.

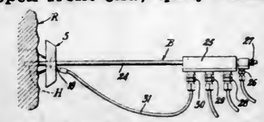
2,327,483

APPARATUS FOR ROCK PIERCING AND SIMILAR OPERATIONS

Robert B. Aitchison, Grasmere, Staten Island, and Charles J. Burch, Kenmore, N. Y., assignors to The Linde Air Products Company, a corporation of Ohio

Application June 13, 1940, Serial No. 340,276
17 Claims. (Cl. 255—49)

15. Apparatus for piercing holes in rock and the like comprising, in combination, a tubular blowpipe having an inlet and an outlet for water, said blowpipe being adapted to conduct such water therethrough in heat-exchange relation thereto, for cooling the blowpipe before discharge of such water from said blowpipe through said outlet; a shield slidably mounted on said blowpipe, said shield having side and rear walls and an open front end; spray nozzles associated



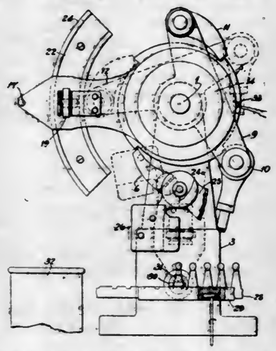
with said shield and arranged to discharge overlapping sprays of water against the surface of such rock surrounding the mouth of such hole, for laying dust discharged from such hole during a piercing operation; and flexible conduit means establishing communication between said nozzles and said outlet for supplying to said nozzles the water discharged from said outlet.

2,327,484

APPARATUS FOR GRADING ELECTRICAL RESISTANCES AND ARTICLES COMPRISING THEM

Donald George Ashcroft, Saltcoats, Scotland, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain

Application August 31, 1940, Serial No. 354,091
In Great Britain October 17, 1939
1 Claim. (Cl. 209—81)



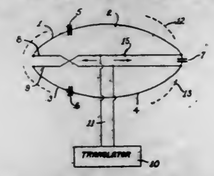
Apparatus for the grading of articles comprising an electrical resistance element, including means for supplying to a working position a continuous series of such articles; means for separating each article in succession from the series at the working position; means for transporting each separate article from the working position and releasing it at an adjacent release position; means for applying a testing voltage across each resistance element at some period during its transport from the working position to the release position; means operated by the current passing through the resistance element during the application of the testing voltage for directing the released article into a chute, said means for transporting and releasing the separate articles to be graded and classified comprising a pair of reciprocating fingers to which the testing voltage is led free from sliding contacts, cam means comprising a portion coacting with said fingers to open the same and then to release the same so as to close upon an article to hold it, said cam means also comprising a portion for opening the fingers to release the article after the same has been transported to release position, said first mentioned portion being adapted to be actuated out of operative position by said transporting means while transporting the article to release position.

2,327,485

BROAD BAND ANTENNA

Andrew Alford, New York, N. Y., assignor to Mackay Radio and Telegraph Company, New York, N. Y., a corporation of Delaware

Application April 12, 1941, Serial No. 388,246
4 Claims. (Cl. 250—33)



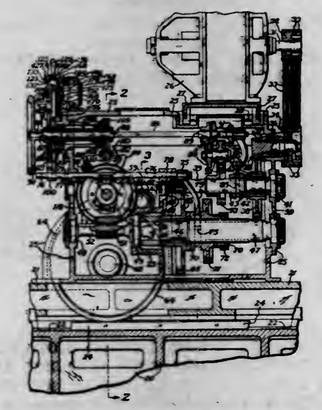
3. A broad band antenna comprising a loop having a plurality of radiant acting sections coupled together with impedance elements including reactance to secure substantially uniform current distribution throughout the loop and a two-conductor tie-line interconnecting certain of the radiant acting elements and means for supplying energy across a point in the tie-line whereby substantial impedance matching over a broad band frequency is obtained.

2,327,486

GRINDING MACHINE-CARRIAGE RECIPROCATING MECHANISM

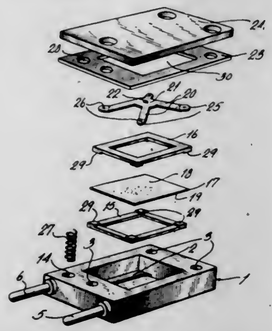
Charles C. Alvord, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts

Application July 5, 1941, Serial No. 401,071
10 Claims. (Cl. 51—231)



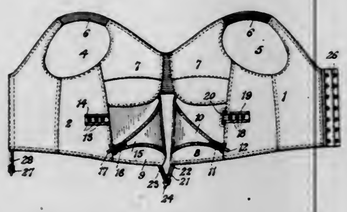
1. In a grinding machine having a longitudinally movable carriage, a reversing control mechanism therefor including a pivotally mounted reversing lever, a rotatable control wheel which is rotated by and in timed relation with said carriage, adjustable reversing dogs on said wheel to engage and actuate said lever, a pair of switches each having an actuating lever, and lost motion connections between said switch levers and said reversing lever whereby one of said switches is actuated when the reversing lever is shifted in one direction and the other of said switches is actuated when the reversing lever is shifted in the other direction.

2,327,487
PIEZOELECTRIC DEVICE
Henry M. Bach, Lawrence, N. Y., assignor to Premier Crystal Laboratories, Inc., New York, N. Y., a corporation of New York
Application September 27, 1941, Serial No. 412,553
11 Claims. (Cl. 171—327)



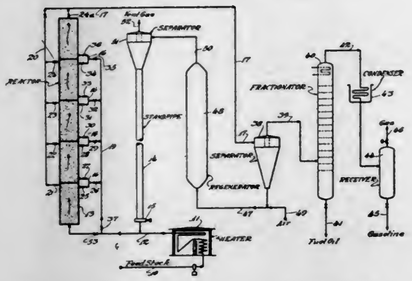
1. A piezo-crystal device comprising a box-like housing of insulation having a removable cover plate, a pair of spacer members at the bottom interior of said member, one of said spacers being of insulation and the other of metal, a crystal assembly including a crystal and a pair of opposed electrodes resting on said spacer members, one of said electrodes being in electrical connection with said metal spacer, and a pair of plug-in prongs fastened into said housing, one of said prongs being directly connected to said metal spacer member.

2,327,488
BRASSIERE
Abraham S. Becker and Victor I. Becker, Los Angeles, Calif.
Application May 20, 1942, Serial No. 443,727
3 Claims. (Cl. 2—42)



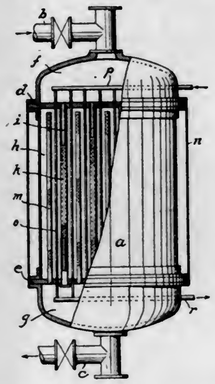
2. In a brassière, a body portion provided with two independent sections, each of which is provided with a breast-receiving pocket, said sections being elastically connected between the breast-receiving pockets, a diaphragm-covering section below the breast-receiving pockets and composed of two overlapped portions adjustable relatively to one another to regulate the extent of overlap, means connected to said overlapped portions to draw the same transversely of the body of the wearer and hold the same under elastic tension, and an elastic V-shaped loop member having leg portions each attached to one of the overlapped portions at the lower edge of the same, said loop member carrying a fastening element and being capable of having its leg portions moved toward or away from one another as the extent of overlap of the overlapped portions is adjusted.

2,327,489
CATALYTIC PROCESS
Sam B. Becker, Chicago, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application January 31, 1941, Serial No. 376,755
6 Claims. (Cl. 196—52)



1. The method of converting hydrocarbon oils by contacting at high temperature with powdered catalysts, comprising vaporizing a hydrocarbon oil in a continuous stream, dispersing a powdered, solid catalyst in the resulting oil vapors, conducting the dispersion of oil vapors and catalyst through an elongated reaction zone wherein an initial conversion reaction occurs at relatively low catalyst concentration, thence conducting the said dispersion of oil vapors and catalyst upwardly through a plurality of similar, vertically disposed, elongated reaction zones in parallel, thereby reducing the vapor velocity of said dispersion in said parallel reaction zones and effecting an increase in the concentration of the catalyst by hindered sedimentation therein, conducting the reaction products and catalyst to a separating zone, therein separating catalyst from reaction products.

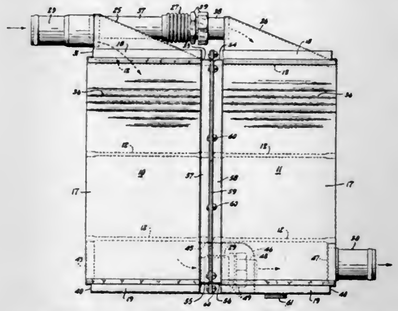
2,327,490
APPARATUS FOR TREATING HYDROCARBON OILS
Aaron B. Bagsar, Lansdowne, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey
Application January 2, 1941, Serial No. 372,806
6 Claims. (Cl. 196—133)



1. An apparatus for use in processes for conversion of hydrocarbon oils at high temperature in the presence of a catalyst, said apparatus comprising tubes extending through the catalyst and

adapted to carry salts to extract heat from or supply heat to the catalytic material and being composed of an alloy steel resistive to corrosion, embrittlement and absorption of nitrogen, said alloy containing carbon less than .5%, manganese .25 to 2.5%, silicon .10 to 2.5%, chromium not to exceed 3%, nickel, .70 to 5%, and molybdenum .25 to 3%, the balance being substantially all iron.

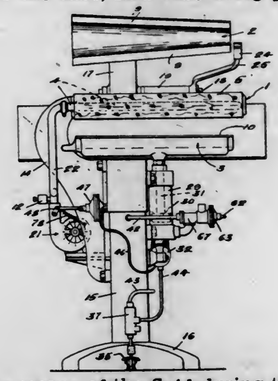
2,327,491
SECTIONAL HEAT EXCHANGER
Emilien Blais, commonly known as Emile Blair, New Haven, Conn., assignor to Western Cartridge Company, New Haven, Conn., a corporation of Delaware
Application May 6, 1941, Serial No. 392,049
10 Claims. (Cl. 257—128)



1. In a heat exchanger, first and second units of the cartridge type, each unit having tubes with enlarged ends stacked together, the ends being soldered to form built-up headers, each unit having top, bottom and side walls, inlet ducts connected to the top walls of said units, said units having certain tubes adjacent the bottom wall thereof omitted to form liquid passages adjacent said bottom walls, end plates connected to the adjacent headers to provide end walls for said liquid passages, the inner end plate of said second unit forming an enlarged recess, a conduit having a flexible connection located in said recess and connected to apertures in the inner end plates of said units, an outlet conduit connected to the outer end plate of said second unit.

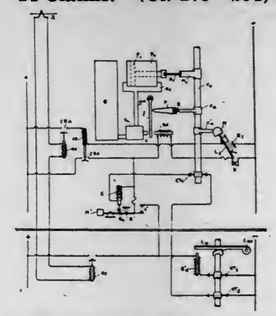
2,327,492
MACHINE FOR PRESSING SLEEVED ARTICLES IN ONE LAY
Philip N. Braun, Syracuse, N. Y., assignor to The Prosperity Company, Inc., Syracuse, N. Y., a corporation of New York
Application November 14, 1940, Serial No. 365,681
14 Claims. (Cl. 223—57)

1. In a machine for pressing tubular fabric articles in one "lay" comprising a pressing element having a plurality of pressing faces throughout its outside area on which element the article is sleeved, an expansible tube extending along said element at the adjacent edges of two of the pressing faces and operable to expand to compensate for different diameters of the article, pressing members operable to cooperate with said faces and said expansible tube, said tube being yieldingly deformable toward flattened form to conform to the pressing member during the pressing operation, whereby the portions of the article overlying said tube conform to the pressing faces of said pressing member and the sleeved article pressed substantially throughout its entire area, and means for supplying a pressure fluid to the interior of the tube, said tube being pervious to



permit the escape of the fluid during the flattening of the tube during the pressing operation.

2,327,493
ELECTRIC CIRCUIT BREAKER
Charles Bresson, Lyon, France; vested in the Alien Property Custodian
Application August 15, 1939, Serial No. 290,241
In France August 31, 1938
14 Claims. (Cl. 175—294)

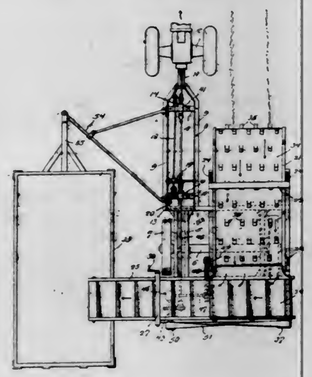


1. The combination of a main circuit breaker comprising at least one pole; a circuit to carry a load and controlled by said main circuit breaker; an auxiliary circuit breaker comprising the same number of poles as said main circuit breaker, connected in series with the latter; means for ensuring at will the simultaneous closing or opening of the arc-drawing contacts of all of the poles of said main circuit breaker, the arc-drawing contacts of said auxiliary circuit breaker remaining closed; means, operative in case of an abnormal current in said circuit, to open the arc-drawing contacts of the pole of said auxiliary circuit breaker that is traversed by said abnormal current and then to reclose said contacts after a very short interval; and means rendered operative thereafter, if said abnormal current persists, to open the arc-drawing contacts of said main circuit breaker, the arc-drawing contacts of said auxiliary circuit breaker remaining closed.

2,327,494
LOADER
Roy E. Brown, Sterling, Ill.
Application September 28, 1942, Serial No. 459,991
1 Claim. (Cl. 214—41)

In a loader, a tiltable main frame of substan-

tially rectangular shape, a pair of ground wheels supporting said frame, gathering and delivering conveyors pivotally mounted on the frame with the gathering conveyor extending downwardly and forwardly of the frame and laterally of one of the ground wheels and disposed over the other ground wheel, an elongated draft frame having one end pivoted on the main frame substantially in alignment with one of the ground wheels and laterally of the gathering conveyor and having the forward end contracted and coupled to a tractor, a power shaft journaled on the frame and coupled to a power take off of the tractor and including sections joined by universal joints and one of the sections having a slidable drive connection with one of the joints, a drive means



connecting the shaft to the conveyors, a raising and lowering means for the delivery conveyor, means yieldably supporting the gathering conveyor for movement on its pivot when engaging an obstruction, a manually operated lever mounted for pivotal movement on the forward end of the draft frame, a bell crank lever pivotally connected to the main frame and pivotally mounted on the rear end of the draft frame, a connecting link pivotally connecting the control lever to the bell crank lever whereby through the manipulation of the control lever the main frame may be tilted on the ground wheels, and a draft member pivoted to one side of the draft frame and coupled to a vehicle for pulling the latter in a position under the discharge end of the delivery conveyor.

2,327,495

PROCESS OF REMOVING WAX FROM FLOORS

Anton E. Budner, Racine, Wis.

No Drawing. Application October 19, 1940, Serial No. 361,903

2 Claims. (Cl. 15—269)

1. In the art of floor maintenance the process of removing wax from floors which consists in applying to the floor a thin film of a hot solution comprising water and the reaction product of a fatty acid having from 8 to 18 carbon atoms and an amine selected from the group consisting of diethylamine, monoethylamine, dimethylamine and morpholine wherein the said reaction product equals by weight from about 1 to 10% of the water, allowing said solution to penetrate the dried wax film for about three minutes, scrubbing lightly to remove the loosened soft wax film, and then removing the wax and solution from the floor.

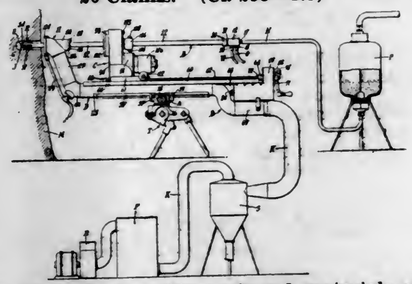
2,327,496

METHOD OF AND APPARATUS FOR WORKING MINERAL MATERIALS AND THE LIKE

Charles J. Burch, Kenmore, N. Y., assignor to The Linde Air Products Company, a corporation of Ohio

Application December 3, 1940, Serial No. 368,288

20 Claims. (Cl. 255—1.8)



1. Method of working mineral materials and the like which comprises progressively melting material along a selected path and forming a fluid slag, quenching and solidifying the slag so formed, mechanically disintegrating the quenched slag, and removing the disintegrated slag from the region of disintegration.

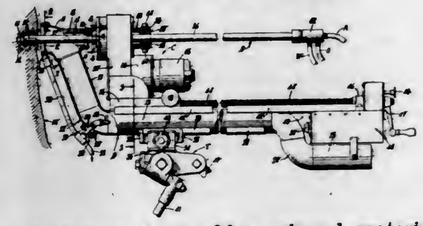
2,327,497

APPARATUS FOR WORKING MINERAL MATERIALS AND THE LIKE

Charles J. Burch and George H. Smith, Kenmore, N. Y., assignors to The Linde Air Products Company, a corporation of Ohio

Application December 7, 1940, Serial No. 369,002

11 Claims. (Cl. 255—50)



1. Apparatus for working mineral materials and the like comprising a conduit for conveying debris from a region of operation; track means secured to said conduit; and a carriage movable over said conduit along said track means, said carriage being adapted to carry a mineral working instrumentality.

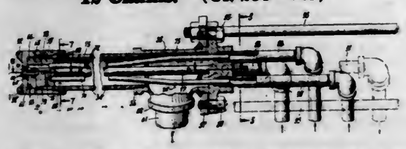
2,327,498

BLOWTORCH

Charles J. Burch, Kenmore, N. Y., assignor to The Linde Air Products Company, a corporation of Ohio

Application April 18, 1941, Serial No. 389,115

12 Claims. (Cl. 255—1.8)



1. In a blowtorch, a front body; a rear body;

a first member secured to both of said body members and holding said body members in longitudinally spaced relation to one another; and one or more additional members connecting together said body members, said additional member or members being secured to said front body, and engaging said rear body for longitudinal movement relatively to the latter.

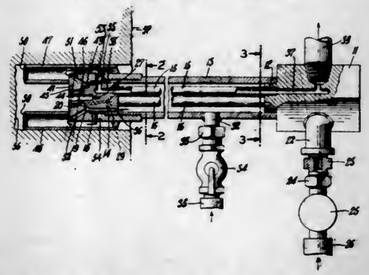
2,327,499

PROCESS OF AND APPARATUS FOR WORKING MINERAL MATERIALS AND THE LIKE

Charles J. Burch, Kenmore, N. Y., assignor to The Linde Air Products Company, a corporation of Ohio

Application April 18, 1941, Serial No. 389,116

19 Claims. (Cl. 255—1.8)



1. A blowtorch comprising a front body; said body having gas-passage means therethrough; said body having coolant-passage means therethrough; conduits communicating with said gas-passage means and said coolant-passage means; a tip removably engaged over said front body; said tip having passage means communicating with the gas-passage means in said body and adapted to discharge gas to provide a flame; at least one scraper member carried by said tip, said member having a passage therein; and said tip having passage means establishing communication between the passage in said scraper member and the coolant-passage means in said body.

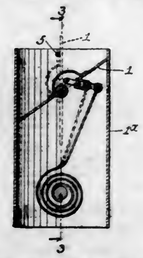
2,327,500

PROCESS OF MAKING BIMETAL THERMOSTATIC ELEMENTS

Thomas B. Chace, Winnetka, Ill., assignor to The Dole Valve Company, Chicago, Ill., a corporation of Illinois

Original application May 22, 1936, Serial No. 81,284. Divided and this application December 19, 1939, Serial No. 309,977

1 Claim. (Cl. 148—11.5)



The process of making bimetal thermostatic elements, which consists in welding together a strip of a ferrous alloy comprising 35 percent to 45 percent nickel, and a strip of copper alloy comprising silicon 0.5 percent to 3.0 percent, nickel 0.5 percent to 5.0 percent, manganese .25 percent to 1.0 percent, iron 0.1 percent to 5.0 percent and the remainder copper, quenching at a temperature between 1300° F. and 1600° F., a portion of the exposed surfaces of both strips being out of contact and applying pressure to the exposed surfaces of the strips by cold rolling said strip a sufficient time to harden the copper alloy and leave it still ductile enough for forming into a coil shaped thermostat, and then heat treating said strip at a temperature within the temperature range of 400° F. to 750° F.

2,327,501

DRILLING FLUID

Thomas S. Chapman, Houston, Tex., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application December 5, 1940, Serial No. 368,622

18 Claims. (Cl. 252—8.5)

1. A method for reducing the filtration of water from a salt water drilling fluid into porous formations traversed by a drill hole which comprises adding to the drilling fluid a tanning agent and a substance selected from the group consisting of proteins and salts of proteins.

2,327,502

PROCESS OF MAKING SOAP

Benjamin Clayton, Houston, Tex., assignor to Refining, Inc., Reno, Nev., a corporation of Nevada

Application December 26, 1940, Serial No. 371,811

7 Claims. (Cl. 260—418)

1. The process of purifying soap stock containing excess alkali from the alkali refining of glyceride oils and making soap therefrom, which comprises, adding saponifiable material to said soap stock to react with said excess alkali, heating the resulting mixture to a temperature sufficiently high to break down odoriferous substances contained therein and removing vaporizable materials from said soap stock in vapor form to produce an improved soap from said soap stock.

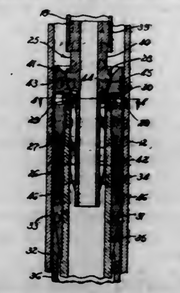
2,327,503

WELL PUMP CONSTRUCTION

Clarence J. Coberly, Los Angeles, Calif., assignor to Roko Corporation, Reno, Nev., a corporation of Nevada

Application August 2, 1940, Serial No. 350,609

7 Claims. (Cl. 103—219)



1. In a pumping system, the combination of: a pump unit adapted to be positioned in a well; packer means adapted to form a seal with the walls of the well, said packer means having a seat member therein; connecting means between said

pump unit and said packer means, there being a seat element on said connecting means adapted to seat on said seat member to form a fluid-tight joint between said packer means and said pump unit; and retaining means for holding said seat element out of seating engagement with said seat member while the pump unit and packer means are being lowered into the well, said retaining means being releasable so as to permit said seat element to be seated on said seat member.

2,327,504

REFINING HYDROCARBON OILS

Charles A. Cohen, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application December 26, 1940, Serial No. 371,779

9 Claims. (Cl. 196—41)

1. The process of improving the color and reducing the corrosiveness of acid-treated petroleum hydrocarbons having a viscosity in the range of from 30 to 1000 seconds Saybolt at 100° F. on copper which comprises treating the hydrocarbon in its neutral state first with an alkali metal hydroxide at 100° C. to 150° C., cooling the hydrocarbon to from 20° C. to 100° C., adding a finely divided diatomaceous filter aid, agitating and filtering.

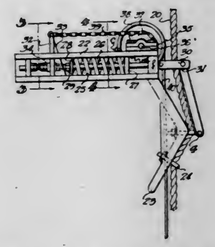
2,327,505

AUTOMATIC DRILLING CONTROL

Joshua C. Conrad and Harold L. Conrad, Oklahoma City, Okla.

Application November 3, 1941, Serial No. 417,638

3 Claims. (Cl. 188—110)



1. An automatic control for a friction brake comprising a load carrying line, a frame having an angular arm mounted upon said line for producing a deflection therein variable in relation to the variations in the weight of the load on said line, a spring held normally under compression by the tensile stress imposed on said line, a strain rod extending axially through said spring and actuated by said load line, a stub shaft mounted on and extending at right angles to said frame, a sprocket wheel on said shaft, a chain fastened at one end to and embracing a portion of said wheel with its opposite end connected to said strain rod whereby to be actuated in accordance with variations of the load carried by said line, a sheave arranged for common rotation with said sprocket wheel and a line connected at one end to said sheave and at its opposite end to the operating lever of said friction brake to control the movements thereof in relation to the variations in load carried by said load line.

2,327,506

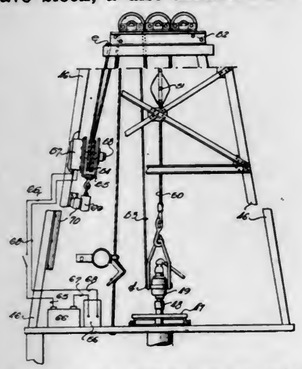
FOOTAGE INDICATOR FOR DRILLING

Joshua C. Conrad and Harold L. Conrad, Oklahoma City, Okla.

Application November 8, 1941, Serial No. 418,354

6 Claims. (Cl. 33—134)

1. Apparatus for indicating the depth penetrated by a drill bit in drilling wells, a line normally under tension, one end of which is constrained to move in direct relation to the downward movement of said drill bit, and having its opposite end anchored against movement, a sheave block containing a sheave carried upon and actuated by said line and whose displacement is equal to one-half the travel of said drill bit, a magnetic counter, a source of electrical current, an electric circuit connecting said source and counter, a housing mounted on one side of said sheave block, a disc mounted in the shaft



of said sheave and operating in said housing, an electrode extending from the periphery of said disc, a ferrous plate on the face of said disc, a sliding contact in continuous engagement with said plate, a resilient contact intermittently engaged by said electrode to open and close said circuit whereby to progressively operate said magnetic counter, a weight suspended from said sheave block and means for guiding said weight to cause said sheave block to travel in a substantially vertical plane.

2,327,507

DEPILATORY COMPOSITION

Clarence H. Cox, Normandy, Mo.

No Drawing. Application March 5, 1942, Serial No. 433,451

7 Claims. (Cl. 17—1)

1. A depilatory composition comprising a minor portion of "rosin residue."

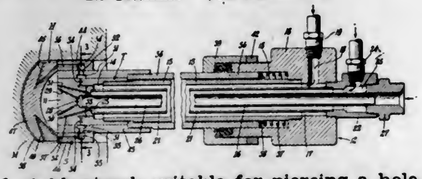
2,327,508

BLOWTORCH

James R. Craig, Ben Avon, Pa., assignor to The Linde Air Products Company, a corporation of Ohio

Application January 7, 1942, Serial No. 425,837

12 Claims. (Cl. 255—1.8)



1. A blowtorch suitable for piercing a hole in a rock or the like, comprising an elongated tubular member having front and rear ends, said member being adapted to provide a flame in advance of said front end; and means associated with said tubular member and extending ahead of said front end for scraping the forward face of such hole as piercing progresses, said means being rotatable with respect to said tubular member.

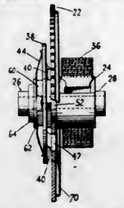
2,327,509

SPRING MOTOR

William J. Daily, Girard, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y., a corporation of New York

Application November 25, 1939, Serial No. 306,061

11 Claims. (Cl. 185—37)



1. A main gear assembly for a spring motor, said assembly comprising a bushing with bearings at its ends to be rotatably received in a motor frame, said bushing furtner comprising a non-circular part, a circular part, and a spring receiving part, a hole passing axially through the bushing to internally receive a key, a ribbon spring coiled about the spring-receiving part, a slot in the bushing offset from the axis enough to clear the aforesaid hole through the bushing, the inner end of said spring being received in said slot, a main gear rotatably mounted on the circular part, a ratchet disc axially slidable but non-rotatable on the non-circular part, a thin light spring urging the ratchet disc toward the main gear, said assembly of said ratchet disc and said main gear having sloping teeth for the desired ratchet action.

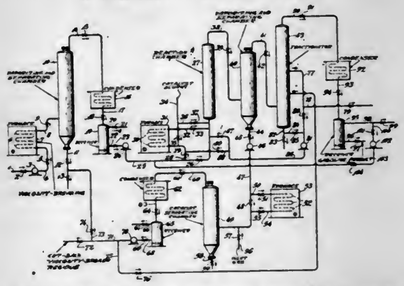
2,327,510

CONVERSION OF HYDROCARBON OILS

Roland B. Day, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

Application March 30, 1940, Serial No. 326,868

9 Claims. (Cl. 196—49)



6. A process for the conversion of hydrocarbon oil which comprises viscosity-breaking a relatively heavy oil under conditions selected to effect conversion into a relatively light oil and non-vaporous residue, separating said light oil from the non-vaporous residue, subjecting the former to catalytic cracking in the presence of a cracking catalyst suspended therein, separating liquid residue containing the suspended catalyst from catalytically cracked vapors, flash distilling said liquid residue to separate oil from catalyst and combining at least a portion of the separated oil with said non-vaporous residue.

2,327,511

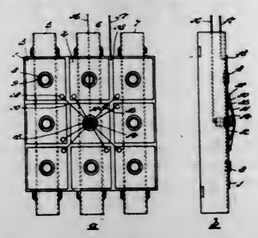
BLOCKING LAYER CELL

Cornelis de Lange and Charles Louis Boucher, Eindhoven, Netherlands; vested in the Alien Property Custodian

Application July 2, 1941, Serial No. 400,853

In the Netherlands July 3, 1940

4 Claims. (Cl. 175—366)



4. A blocking-layer cell assembly comprising a supporting base, a plurality of blocking-layer cells carried by said plate and each including an electrode, means to control the current in each of said cells, said means comprising a plurality of individual supply conductors each having one end connected to one of said electrodes, the other ends of the conductors being connected together, each of said conductors comprising a resistance wire element having a resistance value at which the total voltage loss across each cell and its associated conductor increases with increasing currents through the cell.

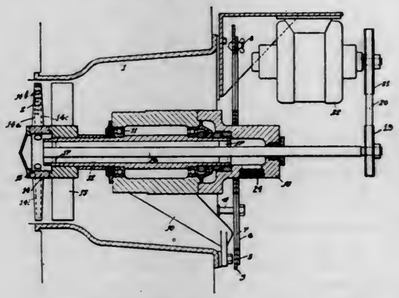
2,327,512

ROTARY GAS BURNER

Edwin L. Dennis, Reserve, La.

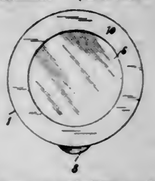
Application September 30, 1939, Serial No. 297,231

1 Claim. (Cl. 158—118)



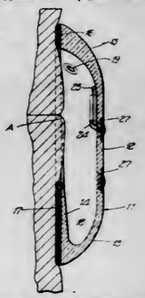
In a burner for gaseous fuel, a hollow casing providing a passage for air, a spider in said casing having a stationary hollow hub, a hollow shaft journalled in said hub and extending beyond the hub to the outlet end of said casing, a hollow gas distributing device secured to the extended end of said hollow shaft and communicating therewith, said distributing device providing gas discharging apertures extending across substantially the entire active area of said air passage, the other end of said hollow shaft being provided with a gaseous fuel inlet opening, a driving shaft arranged within said hollow shaft and connected thereto at the latter's opposite ends, said driving shaft having a portion extending from the inlet end of said casing, and a driving motor mounted exteriorly of said casing and having a driving connection with said driving shaft to rotate the latter and thereby drive said gas distributor.

2,327,513
VANITY CASE
Leo Esterow, New York, N. Y.
Application May 13, 1943, Serial No. 486,762
3 Claims. (Cl. 132—83)



1. A vanity case consisting of a laminated annulus having one face closed by a bottom disk, one of the laminations consisting of an arcuately shaped spacer separating the top lamination from the others, the top lamination being of annular form, a cover member arcuately slidable between the top lamination and the others and having its closing movement limited by abutment against the spacer, said cover member having a mirror framed but not covered by the top lamination when the cover is closed, and a vertical pivot for said cover member.

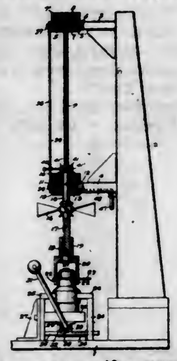
2,327,514
COLOSTOMY PROTECTOR
Ivy D. Fenwick, Brooklyn, N. Y.
Application August 21, 1942, Serial No. 455,632
2 Claims. (Cl. 128—283)



1. A colostomy protector comprising a rigid one-piece shell-like body of ovate shape in front elevation, said body having spaced relatively flat front and rear walls, said rear wall having an opening therein of a size to encircle a colostomy and being disposed adjacent the top of the rear wall, the space within the body below the opening constituting a well, a soft flat resilient cushioned facing provided on the entire exterior of the rear wall for sealing engagement with the body of a wearer, the front wall having a vent opening, and means provided on the interior of the front wall adjacent said vent opening for removably supporting a deodorant element.

2,327,515
MACHINE FOR ARMING BOMB FUSES
Margaret J. Ferrone, Boonton, and Clyde W. Burdge, Hackettstown, N. J.
Application January 30, 1943, Serial No. 474,214
6 Claims. (Cl. 73—51)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In a machine of the character described, in combination, means for supporting a fuse, a rotatable rod and means for rotating it, a fuse receiving member slidable on the rod and keyed thereto for rotation therewith, index means carried on the rod, connections between the rod and the index means whereby said means is moved longitudinally of the rod when the rod is rotated, a calibrated indicator scale cooperating with the



index means to measure the number of revolutions of the rod, and means carried by the fuse receiving head for operative engagement with an element carried by a rotatable part of the fuse.

2,327,516
MANUFACTURE OF ARTIFICIAL FILAMENTS AND FIBERS FROM VISCOSE
Heinrich Fink, Rottweil-on-the-Neckar, and Gaston Plepp, Wolfen, Kreis Bitterfeld, Germany; vested in the Alien Property Custodian
No Drawing. Application October 11, 1940, Serial No. 360,776. In Germany July 22, 1939
5 Claims. (Cl. 18—54)

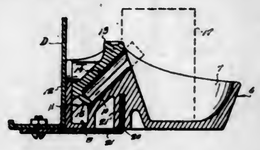
1. The process for the manufacture of high tenacity artificial filaments and fibers having an elongation above 10%, from viscose which comprises spinning viscose, at least a portion of which was produced from cellulose having a high α-cellulose content, in a spinning bath containing sodium sulfate and 10 to 14% sulfuric acid, swelling the freshly spun filaments in a hot alkaline swelling bath at a temperature above 90° C. containing 10–30% sodium sulfate and 0.2–5% sodium hydroxide, said spinning bath and said swelling bath being free of polyvalent metal compounds, and strongly drawing the freshly spun filaments while heated from 50 to 100% of their original length.

2,327,517
PROCESS FOR CHLORINATION OF HIGH MOLECULAR WEIGHT HYDROCARBONS
Per K. Frolich, Westfield, and Lewis A. Bannon, Roselle, N. J., assignors, by mesne assignments, to Jasco, Incorporated, a corporation of Louisiana
No Drawing. Application March 14, 1940, Serial No. 323,895
8 Claims. (Cl. 260—94)

1. The process of chlorination comprising the steps of dissolving a high molecular weight, substantially saturated, linear chain olefinic polymer in a chlorine-resistant solvent, adding thereto a discoloration-preventing substance comprising an organic acid, and thereafter treating the solution with elemental chlorine.

2,327,518
CIGARETTE SNUFFER AND ASH TRAY
Arthur R. Glidden, Seattle, Wash.
Application February 9, 1942, Serial No. 429,991
6 Claims. (Cl. 131—235)

1. A device for the purpose described comprising the combination of a foundation piece providing a basin functioning as an ash tray for the device and having an apron-forming wall sloping away from a lip of said basin, said apron being longitudinally grooved to form a semicircular channel exposed at its upper end to the basin; and a cap member finding a slide fit over the apron and having its underside grooved in reverse correspondence with the apron to form



a registering channel functioning in complement with the channel of the apron to provide a snuffing recess, said cap member providing a finger dependency arranged to extend into the channel of the apron to form a bottom wall for the snuffing recess, said finger dependency functioning by forward sliding movement of the cap member to clear the snuffing recess of a cigarette butt snuffed therein.

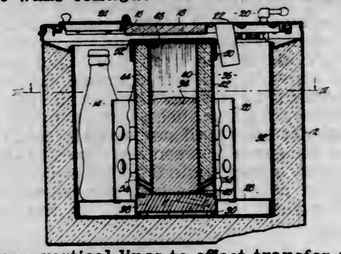
2,327,519
CHRISTMAS TREE ORNAMENT
Harry Groothedde, Haledon, N. J.
Application July 18, 1942, Serial No. 451,451
1 Claim. (Cl. 24—73)



The herein-described decoration of the class set forth including a hollow ornament having an aperture extending to its interior and a hanger penetrating said aperture and formed of a substantially planiform strip of resilient material having one end portion thereof within and the other end portion exterior of the ornament and each end portion providing a tongue cut therefrom and bent out of the initial plane of the hanger, said hanger in a cross-section thereof coincident with the free end of either tongue having a dimension too great to permit the corresponding end portion to pass undistorted through the aperture and the tongue of the first-named end portion converging with the remainder of the latter relatively from the aperture.

2,327,520
REFRIGERATED PORTABLE BOTTLE VENDOR
Joseph E. Hagstrom and Olaf C. Olsen, Kansas City, Mo., assignors to C. Earl Hovey, Kansas City, Mo., as trustee
Original application October 25, 1940, Serial No. 362,734. Divided and this application March 17, 1941, Serial No. 383,754
4 Claims. (Cl. 62—91.5)

1. In a vending machine of the character described, a closed case; a floor within said case having a well formed therein; a rack for packaged goods on the floor surrounding the well; and a refrigerant container having a base seated in said well, said container having inner and outer metallic walls contiguous to each other at inter-



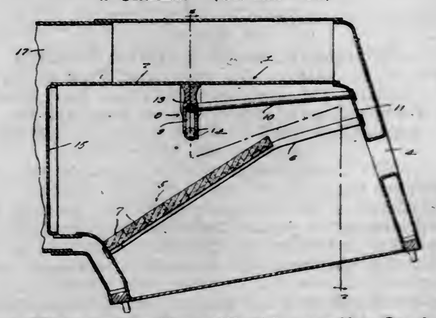
vals along vertical lines to effect transfer of heat radially from the container toward said rack.

2,327,521
REINFORCED PLASTIC BUTTON
David S. Hart, Bethlehem, and Adelbert D. Cronk, Woodbury, Conn., assignors to The Patent Button Company, Waterbury, Conn., a corporation of Connecticut
Application September 6, 1940, Serial No. 355,698
1 Claim. (Cl. 40—20)



An orientatable reinforced plastic button head of the tack fastener type including a centrally located hollow hub, the button head having a centrally located internal chamber of larger diameter than the diameter of the hub and the hollow hub registering with said chamber, reinforcing means within said chamber and partially filling the hollow hub, said reinforcing means in said chamber adapted to receive and deform a tack fastener, said hub having flats on the opposite external sides thereof and extending throughout the depth of the hub, a portion of the lower end of the peripheral wall of the hub being omitted just below the lower end of the reinforcing means and on one side of the hub to form an aligning wall parallel to said flats, and the aligning wall extending tangentially to the internal defining wall of the hub, and indicia on the face of the button head extending at an angle to the flats and the said aligning wall.

2,327,522
STEAM BOILER FIREBOX
Clarence E. Hartley, Salisbury, N. C., assignor of one-half to William T. Curlee, Salisbury, N. C.
Application June 9, 1942, Serial No. 446,391
2 Claims. (Cl. 122—68)



1. The combination with a locomotive fire box

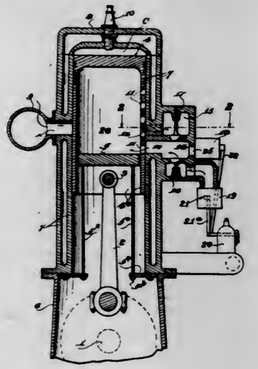
including a crown, side and a back sheet, respectively, and an arch above the bottom of said box including longitudinally extending tubes and a wall thereon forming a rear opening in the arch, of an auxiliary draft deflecting transverse arch in said box above the arch first mentioned and spaced forwardly of said opening, said auxiliary arch comprising a water circulating tube extending between the side sheets and anchored therein, a refractory brick wall supported by said tube and closing the space between the tube and the crown sheet, and a longitudinal water circulating tube extending between the first mentioned tube and the rear sheet of the fire box in the center of said box.

2,327,523

INTERNAL COMBUSTION ENGINE

Elbert E. Heuschober, Fort Worth, Tex., assignor to Heuschober Engineering Corporation, Fort Worth, Tex.

Application May 7, 1941, Serial No. 392,300
15 Claims. (Cl. 123—59)



4. In an internal combustion engine having two or more cylinders with piston operated scavenge pumps and piston controlled ports, a by-pass chamber for each cylinder and a receiver chamber common to two or more cylinders, a valved inlet and a valved discharge for said by-pass chamber, a valve connection between the by-pass chambers of two cylinders, said valve being linked to a control and said control being similarly linked to the engine throttle control to provide for manually controlling the engine scavenge pressure and the engine speed at various loads in a predetermined relationship.

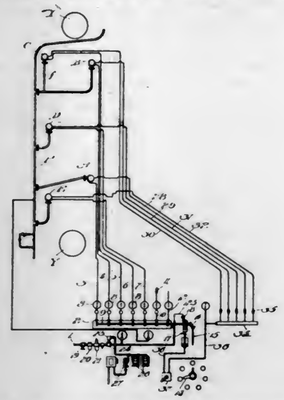
2,327,524

AUTOMATIC SOOT BLOWER SYSTEM

De los E. Hibner, Du Bois, and Fred C. Arey, Freeport, Pa., assignors to Vulcan Soot Blower Corporation, a corporation of Pennsylvania

Application April 17, 1940, Serial No. 330,124
4 Claims. (Cl. 122—392)

1. The combination with a plurality of soot blowers each having an oscillatory blowing element and a fluid pressure motor for moving the element, of a system for supplying fluid under pressure to the motors including a motor-reversing valve adjacent to each motor and individual shut-off valves, a cam shaft for operating said shut-off valves in succession during each revolution of the shaft, and means for causing each reversing valve to be shifted and the cam shaft to be turned through a predetermined step at



each limit of movement of the blowing element corresponding to that reversing valve.

2,327,525

APPARATUS FOR MAKING VISIBLE INDEX STRIPS

Harry J. Hopkins, Chicago, Ill., assignor to Acme Visible Records, Inc., Chicago, Ill., a corporation of Illinois

Application October 27, 1941, Serial No. 416,652
4 Claims. (Cl. 91—14)

4. A device for simultaneously cutting and marking visible index strips which comprises, a pair of rolls, one being disposed above the other, a plurality of axially spaced, circular knives positioned upon the upper roll whereby sheet material passed between said rolls is cut into a plurality of elongated strips, a housing positioned above said upper roll, a plurality of partitions dividing said housing into a plurality of compartments adapted to contain marking material, said compartments being in communication with said knives whereby said marking material is applied to said knives adjacent their edges, said marking material being transferred to said strips by said knives adjacent the lines of severance.

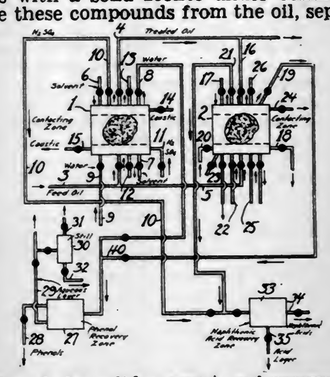
2,327,526

RECOVERY OF PHENOLS FROM MINERAL OILS

Minor C. K. Jones, Elizabeth, and Barney R. Strickland, Roselle, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

Application June 22, 1940, Serial No. 341,818
3 Claims. (Cl. 260—627)

1. Process for the recovery of naturally occurring phenols from mineral oils which comprises contacting feed oils containing these compounds with a solid zeolite under conditions to remove these compounds from the oil, separating



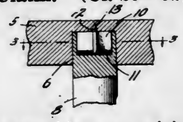
the oil and the solid reagent and recovering the naturally occurring phenol compounds from the solid reagent.

2,327,527

DOWEL AND TENDON ANCHOR DEVICE

Carl Kaplan, Brooklyn, and Hjalmar Kittilsen, Springfield Gardens, N. Y.

Application March 18, 1941, Serial No. 384,010
1 Claim. (Cl. 20—92)



A doweling assembly comprising a doweling member, a socket member formed with a socket to receive said doweling member, a dowel anchoring and wedging device within said socket and seating against its bottom, a plurality of wedge blades arranged in intersecting relation, said blades being formed at one edge and at their point of intersection with an upstanding prong adapted to penetrate the bottom of the socket to center the device within the socket and to secure it centered therein against displacement irrespective of the direction of said socket while the doweling member is being inserted in said socket, said blades being wedge-shaped at their edges remote from said prong to penetrate the dowel member as it is forced to seating position in said socket and to expand and anchor said dowel therein.

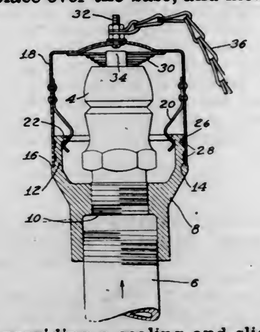
2,327,528

FIRE EXTINGUISHING APPARATUS

Horace Clayton Kendall and Howard G. Freeman, Worcester, Mass., assignors to Rockwood Sprinkler Company, Worcester, Mass., a corporation of Massachusetts

Application August 15, 1942, Serial No. 454,896
8 Claims. (Cl. 169—37)

1. In a dry-pipe fire extinguishing system comprising a nozzle head and a supply pipe normally free of water, a protective enclosure for said head, comprising a base for supporting the head, a cover cooperating with the base to enclose the head and adapted to be blown off upon a rise in internal air pressure occasioned by the admission of water to the supply pipe, the base and cover having portions adapted to fit one within the other with adjacent surfaces in axially slidable relation, one of said surfaces having a peripheral groove formed therein, the groove being covered by the other of the adjacent surfaces when the cover is in place over the base, and means within



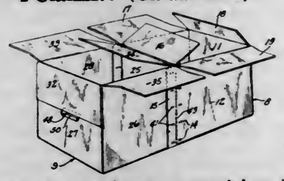
the groove providing a sealing and slidable connection between the cover and the base.

2,327,529

CONNECTED CONTAINER

Herbert M. Kieckhefer and Stuart B. Clark, Riverton, N. J., assignors to Kieckhefer Container Company, Delair, N. J., a corporation of Delaware

Application October 16, 1940, Serial No. 361,410
4 Claims. (Cl. 229—15)



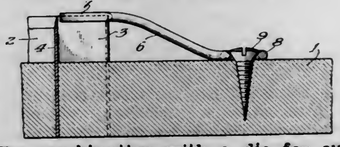
1. Connected containers comprising two small containers each having upper and lower closure flaps in connection with the upper and lower edges of each upright wall, and each having a corner extension projecting from one of the upright corners, said containers being positioned end to end with side walls in alinement and with the extension on one container overlapping and connected to one upright side wall of the adjacent container, and with the extension of said adjacent container overlapping and connected to the opposite upright side wall of the first container to hold the containers in a position simulating a single large size container.

2,327,530

EJECTOR FOR SLOT-CUTTING DIES

Jesse D. Klopfenstein, Chicago, Ill., assignor to Colorgraphic Incorporated, a corporation of Illinois

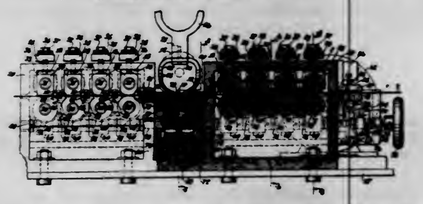
Application November 18, 1942, Serial No. 466,005
5 Claims. (Cl. 164—33)



2. The combination with a die for cutting a piece of cardboard or the like and forming a slot extending inwardly through one of the severed edges, which comprises a base and rules rising therefrom and sharpened at their upper edges, including rules to make the cuts along the sides and the inner end of the slot: of a thick spring

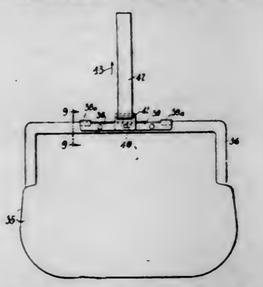
wire having one end flattened for entry into the space between the slot-forming rules, said wire being fastened at its other end to the base at a point remote from the slot forming rules and so located that the free flattened end lies between and parallel to the cutting edges of the rules that make the cuts to produce the side edges of the slot, and the spring curving upwardly from the fixed end to the other end so that normally the free end projects above the cutting edges of the rules.

2,327,531
CONTINUOUS MILLING
Frederick Koch, Sparta, N. J., assignor to Associated Patentees, Inc., Ampere, N. J., a corporation of New Jersey
Application July 27, 1940, Serial No. 347,903
5 Claims. (Cl. 90—21)



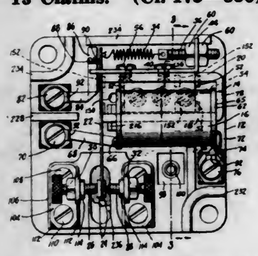
1. A continuous milling machine, comprising in combination, a succession of cooperating feed rolls operating at progressively greater linear speeds for tensioning stock fed thereby and a milling cutter disposed between successive cooperating feed rolls and positioned to operate on the stock tensioned and fed thereby, an anvil opposed to said cutter and disposed to deflect the tensioned stock toward said cutter and means for angularly setting said anvil about an axis located in the region of said cutter and longitudinal of the direction of feed to incline the tensioned stock in respect to said cutter.

2,327,532
HANDBAG
Louis Krupp, Brooklyn, N. Y., assignor to Bernard Chavin and Louis Krupp, co-partners, doing business as Chavin & Krupp, New York, N. Y.
Application October 31, 1940, Serial No. 363,612
8 Claims. (Cl. 150—33)



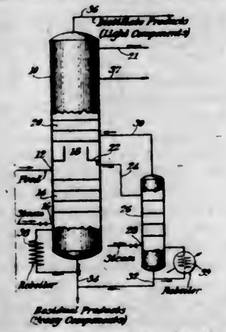
1. In a fastener for securing two adjacently placed elements to one another, a lever pivoted intermediate of its ends on one, the first element one, the locking, end of said lever being bent laterally over the other, the second element and being shaped to engage said second projection thereon when the lever is rocked on its pivot in a direction with said locking end nearing said second element, and a suspending and carrying means secured on the second not locking end of said lever, whereby the weight of said element on said suspending means will cause said lever to rock on its pivot, and will cause its locking end to engage said second element and releasably lock said two elements to one another, a second pivoted lever on said first element similar in construction and arrangement to said first pivoted lever but pointing oppositely from said first lever, said second element being adapted to be engaged by locking end of said second lever, and an inter-connection between the not locking ends of said two levers, whereby the locking movement of said first lever under said weight will cause said second lever to similarly move into a locking position and, vice versa, an opening of said first lever will cause said second lever also to execute an opening movement.

2,327,533
RELAY
Nathan A. Kurman, Woodside, N. Y.
Application April 13, 1942, Serial No. 438,805
13 Claims. (Cl. 175—336)



1. A relay comprising an insulation base, a U-shaped pole piece, an armature extending across the ends of said pole piece, a coil on one arm of said pole piece, a spring and adjusting screw for normally pulling the armature away from the coil, and a single bracket bent out of sheet metal for supporting the pole piece and holding the adjusting screw, said bracket having a base portion secured to the insulation base, an upright portion secured to the outside arm of the pole piece, and an outwardly bent ear receiving the adjusting screw.

2,327,534
DISTILLATION
Pierre Lambert, New Rochelle, N. Y., assignor to The Lummus Company, New York, N. Y., a corporation of Delaware
Application July 14, 1939, Serial No. 284,430
4 Claims. (Cl. 196—94)



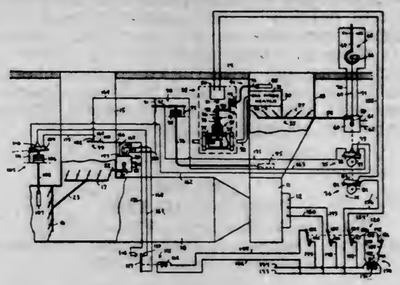
4. In the method of sharply fractionating a hydrocarbon mixture in a fractionating column to obtain a bottoms fraction comprising a predetermined percentage of said mixture consisting of all the heavy residual components thereof, the steps which comprise heating the hydrocarbon mixture to at least a flash temperature corresponding to the distillation temperature of the predetermined separation, flashing the heated mixture in the fractionating column to separate substantially all the light distillate components therefrom, a substantial portion of the heavy residual components being vaporized with and entrained by the resulting light distillate component vapors, subjecting the light distillate component vapors to the action of a reflux liquid for the condensation and absorption in the reflux liquid of the vaporized and entrained heavy residual components, withdrawing the entire reflux liquid containing said condensed and absorbed heavy residual components and some light distillate components from said column at a point immediately above the point of feed without permitting any of said reflux liquid to commingle with the heavy unvaporized residual components in said column, separately stripping said withdrawn reflux liquid in an independent stripping zone to separate the light distillate components from the heavy residual components therein, returning the stripped light distillate components to said column at a point above the point of reflux withdrawal, removing from the fractionating column above the point of return of the stripped light distillate components all the light distillate components including those light distillate components withdrawn with the entire reflux liquid to the stripping zone, said removed light distillate components being free of the heavy residual components, separately withdrawing the bottoms from the fractionating column and the bottoms from the stripping zone, and joining said bottoms streams having similar and overlapping characteristics and jointly constituting the bottoms fraction comprising the predetermined percentage of the mixture and consisting substantially only of the heavy residual components of said mixture and being free of the light distillate components thereof.

2,327,535
LUBRICATING COMPOSITION
Eugene Lieber, Staten Island, N. Y., and Harry T. Rice, Roselle, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application December 27, 1940, Serial No. 371,997
7 Claims. (Cl. 252—59)

1. A lubricating oil composition comprising a major proportion of a waxy hydrocarbon oil and a small amount of an auto-condensation product of a chlorine-containing paraffinic hydrocarbon substance having less than 7 carbon atoms and containing 1 to 2 chlorine atoms, said auto-condensation product being substantially non-volatile at temperatures below about 600° F.

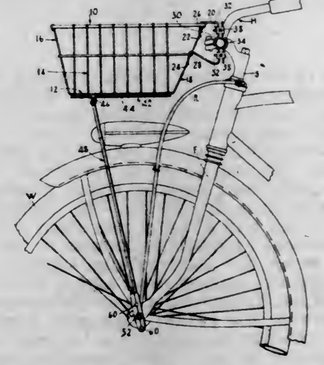
2,327,536
GAS FIRED AIR CONDITIONING SYSTEM
James S. Locke, Park Ridge, Ill., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application December 11, 1941, Serial No. 422,513
13 Claims. (Cl. 236—91)

11. In an air treating system, in combination, a fresh air duct, a return air duct, a third duct connected to said other ducts for conducting the mixture of fresh and return air back to a space to be conditioned, temperature control means including a heat exchanger in one of said ducts, temperature responsive means in control of said temperature control means for regulating the temperature in said space, a fresh air damper,



means for causing said fresh air damper to move to its minimum open position when said temperature control means is operative, and means for positioning said fresh air damper in accordance with the temperature of the air discharged to said space when said temperature control means is inoperative.

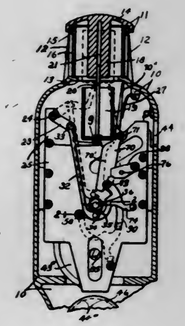
2,327,537
BICYCLE BASKET
Wendell G. Lyman, Brooklyn, N. Y., assignor to D. P. Harris Hardware & Manufacturing Co. Inc., New York, N. Y., a corporation of New York
Application January 31, 1940, Serial No. 316,554
5 Claims. (Cl. 224—36)



1. A bicycle basket formed of wire and comprising a bottom wall and walls including a rear wall upstanding from said bottom wall, clamping members secured to said rear wall, said clamping members being in laterally spaced relation, and companion adjustable clamping members to secure the basket to the handle bars of the bicycle, said rear wall comprising vertically spaced horizontal wires, each of said first mentioned clamping members being formed of wire and having a vertically disposed part provided with an intermediate forwardly directed recessed portion, adapted to engage the adjacent portion of the handle bars, and forwardly extending end parts fixed to said rear wall at vertically spaced points, respectively, said end parts being looped around said spaced wires, respectively, for secur-

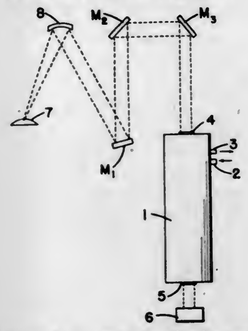
ing said first mentioned clamping members to said rear wall of the basket, each of said companion clamping members comprising an endless wire member having a vertically disposed part provided with an intermediate rearwardly directed recessed portion cooperating with said first mentioned recessed portion to embrace the adjacent portion of the handle bar, each of said clamping members having apertured transverse parts above and below said recessed portion, and means engageable with the companion clamping members in said apertured transverse parts for releasably holding said companion clamping members in clamping relation.

2,327,538
PARKING METER
Charles A. MacCordy, Fulton, N. Y.
Application October 5, 1942, Serial No. 460,761
8 Claims. (Cl. 194—83)



1. In a parking meter having a casing and a signal pendently and stationarily mounted in the casing, said casing including means through which said stationarily mounted signal is normally visible substantially entirely around the meter, the combination of a cup-shaped vertically shiftable legel parking signal adapted to substantially entirely enclose the stationarily mounted signal and slidably connected with the latter, stationary supporting means in the casing upon which the legal parking signal is normally seated to support said signal in an invisible position in the casing, a shiftable supporting member in the casing constantly biased to move to a position for supporting the legal parking signal in an elevated visible signaling position in which it substantially entirely conceals the stationarily supported signal, a clockwork driven member engageable with the shiftable supporting member and normally urged to a position in which it holds said supporting member out of supporting engagement with the legal parking signal, manually operable spring-returned thrust means contactive with the legal parking signal to lift it for support thereof by said shiftable supporting member and spring return of said means independently of the lifted signal, and coin driving means in the casing operable by signal lifting manual movement of said manually operable means to cause a driven coin to drive said clockwork driven member reversely a predetermined distance out of contact with the shiftable supporting member and then discharge the driven coin from said coin driving means.

2,327,539
APPARATUS FOR GAS ANALYSIS
Edward D. McAlister, Montgomery County, Md., assignor to Standard Oil Development Company, a corporation of Delaware
Application December 3, 1940, Serial No. 368,330
4 Claims. (Cl. 250—43)



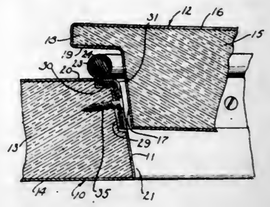
1. Apparatus for gas analysis comprising a source of radiation, an absorption cell for containing a sample of gas, said cell being provided with a plurality of slits covered with windows so placed that radiations entering the cell through one slit pass out through another slit, a plurality of mirrors of selective reflecting material placed so that they will reflect radiations from said source of radiation through the cell, each mirror being constructed of a material which selectively reflects a relatively narrow band of radiations in the infra-red range and which is selectively absorbed by a gas whose presence is suspected in the sample of gas, and a means for determining the quantity of radiation falling upon it placed to receive the radiations passing through said cell.

2,327,540
MANUFACTURE OF SUBSTITUTE LEATHER
Raymond C. McQuiston, West Newton, Mass., assignor to Tanide Products Incorporated, Watertown, Mass., a corporation of Massachusetts
No Drawing. Application February 18, 1939, Serial No. 257,226
4 Claims. (Cl. 117—163)

3. A method of preparing artificial leather which comprises saturating felted cellulosic material with a solution of protein material which has definitely been hydrolyzed under the action of heat and an appropriate reagent and tanning materials in which finely dispersed rubber latex is homogeneously incorporated, allowing the saturated material to age and then subjecting the material to the action of a coagulant which fixes components of the impregnating solution in insoluble form in and between the fibers.

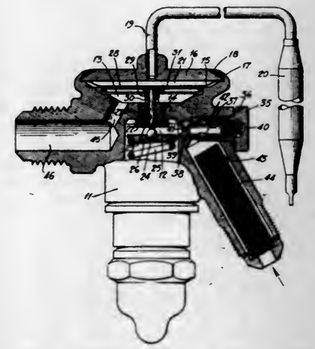
2,327,541
GASKET CONSTRUCTION AND METHOD OF MOUNTING SAME
Willard R. Matheny, Chicago, Ill., assignor to Nellie F. Harnly, Chicago, Ill.
Application August 15, 1941, Serial No. 406,968
4 Claims. (Cl. 20—69)

2. In a sealing assembly for a closure member having adjacent surfaces forming a corner and one of said surfaces constituting a sealing surface, a recess in said sealing surface, said recess being defined along one edge by an outwardly extending shoulder, a compressible gasket member having a sealing portion and a mounting flange extending therefrom inwardly along the surface of said shoulder and then substantially laterally along the surface of said recess with the sealing portion disposed outwardly of said shoulder, means retaining said mounting mem-



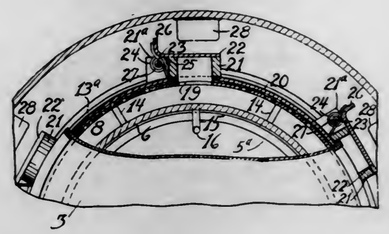
ber including a rigid element overlying said mounting member in said recess and means compressing said rigid element laterally and edgewise against the area of said mounting member which overlies said shoulder to nip the same.

2,327,542
REFRIGERANT CONTROL VALVE
Harold J. Matteson, Glendale, Calif., assignor to General Controls Co., Glendale, Calif., a corporation of California
Application June 2, 1941, Serial No. 396,321
1 Claim. (Cl. 138—44)



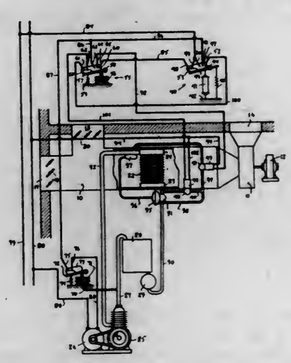
In a fluid control valve: a casing having a valved passage therethrough, a portion of said passage being at an angle to an adjoining portion thereof, said casing also having a bore branched from said passage at the intersection of said portions and extending to the exterior of the casing, a cap closing the outer end of said bore and having a part extending therewithin, said part providing a cylindrical recess concentric with said bore, the bore being coaxial with one of said passage portions, an elongated cylindrical member freely receivable in the bore and having an end portion fitting within said recess of the cap, said member having at its other end a plane surface engageable with a plane shoulder formed at the end of said one passage portion at said intersection, said member providing a restricted opening through which the fluid controlled by the valve must pass when the member is in shoulder-engaging position, and a spring compressed between the cap and the member and urging the same into engagement with the shoulder.

2,327,543
ROTARY FILTER
Herbert H. Moor, Moore Township, Lambton County, Ontario, Canada, assignor to Standard Oil Development Company, a corporation of Delaware
Application December 28, 1939, Serial No. 311,334
4 Claims. (Cl. 210—202)



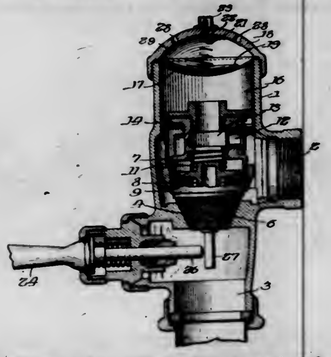
1. A filter device, comprising a casing, a rotary filter element in said casing having a filter surface secured thereto, a plurality of ports opening through said surface, at spaced intervals, an annular clamp member engaging said surface at the ported area, having openings therein aligned concentrically with said ports, closure elements covering each opening, and means carried by the casing in the path of travel of the closures to open said closures at periodic intervals.

2,327,544
AIR CONDITIONING SYSTEM
Alwin B. Newton, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application December 3, 1938, Serial No. 243,843
22 Claims. (Cl. 62—6)



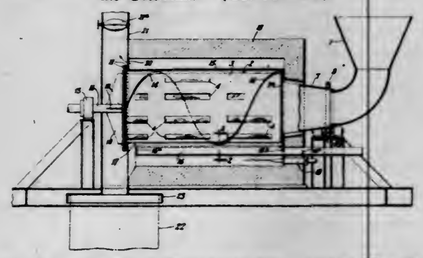
1. In a system of the class described, an evaporator means, means for circulating refrigerant through said evaporator means, thermostatic expansion valve means for controlling the flow of refrigerant through said evaporator means, said expansion valve means including means responsive to conditions of temperature and pressure of the refrigerant within said evaporator, and valve means for selectively causing said last named means to respond to different pressures with respect to the evaporator means to cause different degrees of superheat of the refrigerant to be maintained at the outlet of the evaporator means.

2,327,545
FLUSH VALVE
Emil G. Oravec, Chicago, Ill., assignor to Crane Co., Chicago, Ill., a corporation of Illinois
Application March 12, 1942, Serial No. 434,358
6 Claims. (Cl. 137—93)



1. In a flush valve comprising a casing having an inlet and an outlet, a seat in the casing, a plunger having a closure member adapted to reciprocably travel in a chamber above the said seat, an auxiliary valve associated with the said plunger, means on the casing for actuting said auxiliary valve, pressure responsive expansible means in the upper part of the said chamber for jointly varying the volume thereof and the rate of pressure increase to cause retarding of the downward movement of the plunger.

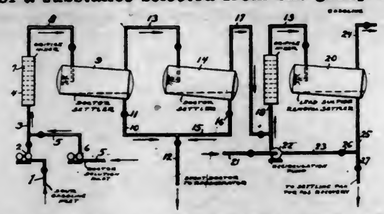
2,327,546
RECOVERY OF ANTIMONY
William H. Osborn, New York, and John R. Smith, Flushing, N. Y., assignors to Phelps Dodge Corporation, New York, N. Y., a corporation of New York
Application February 17, 1942, Serial No. 431,186
12 Claims. (Cl. 75—69)



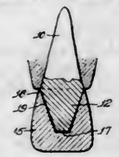
1. A method of disintegrating antimony dross containing at least one other metal, comprising tumbling the dry dross while maintaining it at a temperature above that at which poisonous gases of the metals present will form.

2,327,547
REFINING OF PETROLEUM OILS
Henry C. Paulsen, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application December 30, 1941, Serial No. 424,856
6 Claims. (Cl. 196—33)

1. In a process of sweetening a hydrocarbon distillate oil containing mercaptans following the dispersion of finely divided metal sulfides in the sweetened distillate product, the step comprising separating said metal sulfides from the oil by washing with an aqueous solution containing a small concentration of a mercapto-aryl thiazole salt of a substance selected from the group consisting of alkali metals, alkaline earth metals and the ammonium radical which is substantially insoluble in the hydrocarbon oil.

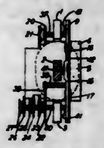


2,327,548
JACKET CROWN
Abram J. Pearlman, Chicago, Ill.
Application September 5, 1941, Serial No. 409,713
3 Claims. (Cl. 32—12)



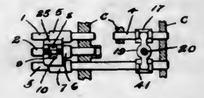
1. The method of crowning a tapered stump having its greatest cross sectional area at the gingival section meeting the original tooth surface without a shoulder which comprises, providing a tooth simulating jacket crown with a tapered chamber in one end and a relatively wide flat surface around said chamber, marking the contour of the base of the tapered stump on said surface and fastening the crown to said stump so as to cover the entire exposed area of the tooth stump by reaming out the chamber within the crown to the marked contour and cementing the jacket crown directly to the stump.

2,327,549
TWO-STEP RELAY
Robert L. Peek, Jr., Short Hills, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 23, 1942, Serial No. 459,390
7 Claims. (Cl. 200—104)



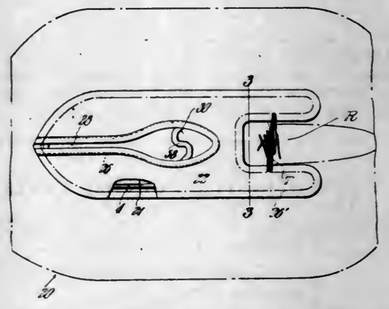
1. In a relay, an E-shaped field piece, an armature extending transversely across the forward ends of the pole-piece arms of said field piece, a spring member for supporting said armature to enable a linear movement thereof toward said pole-piece arms and a rocking movement on the middle one of said arms, contact springs selectively operable in response to the two movements of said armature, and an energizing coil surrounding the middle one of said arms operable upon its partial energization to cause the linear movement of said armature and operable upon a stronger energization to cause the further rocking movement of said armature.

2,327,550
GEAR SHIFTING MECHANISM
Carl D. Peterson and Elmer J. Barth, Toledo, Ohio, assignors to Spicer Manufacturing Corporation, Toledo, Ohio, a corporation of Virginia
Original application February 8, 1940, Serial No. 317,906. Divided and this application September 27, 1941, Serial No. 412,634
2 Claims. (Cl. 74—473)



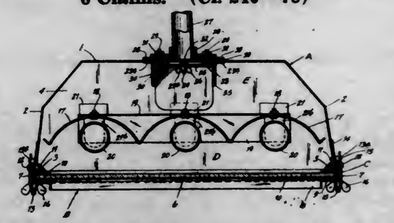
1. A shifting mechanism for change-speed transmission gearing, said mechanism including parallel axially movable shift rods, a selecting and shifting lever having a lateral selecting movement to select any one of the rods and a fore-and-aft shifting movement to shift the selected rod, an additional rod, motion transmitting and reversing means between one of the former rods and the additional rod, and forks operated by the former rods and the additional rod, the additional rod being arranged in alinement with another of the former rods.

2,327,551
MOP HEAD AND FRAME THEREFOR
Floyd T. Petty, Westfield, Mass.
Application June 28, 1941, Serial No. 400,281
2 Claims. (Cl. 15—147)



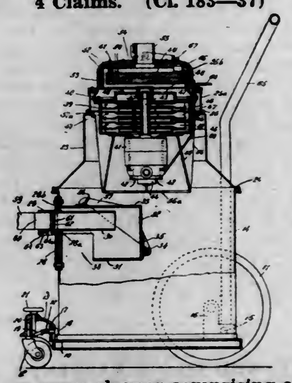
1. A mop for associating with a frame formed from a rod-like member to have spaced side members with one closed end and spaced fingers providing a recess at its other end and a transverse handle connector swivelled to said side members intermediate said ends comprising in combination, superposed upper and lower mop forming walls of flexible material having spaced finger portions extending forwardly from one end thereof forming therebetween an outwardly opening recess at said one end of said walls, the walls being secured together at their marginal edges providing a main pocket and spaced finger pockets extending from an end thereof at opposite sides of said recess, said upper wall provided with a central opening spaced inwardly from the inner side of said recess and a slot connected to and extending longitudinally away from said opening to the opposite end thereof cooperating to facilitate insertion of a frame therethrough and into said pocket with the fingers thereof in said finger pockets and the handle connector thereof disposed below said central opening between opposite ends of the mop, and thrums extending from the marginal edges of said walls.

2,327,552
FLUORESCENT SAFETY LIGHTING FIXTURE
Henry J. Poehling, St. Louis, Mo., assignor to Day-Brite Lighting, Inc., St. Louis, Mo., a corporation of Missouri
Application December 15, 1941, Serial No. 422,949
6 Claims. (Cl. 240—78)



1. A lighting fixture comprising a lamp containing housing having an opening in the bottom thereof and upwardly opening exterior grooves along two opposite sides thereof, a closure for said opening, said closure comprising a metal edge frame having bolt receiving openings therein and a light transmitting panel mounted in said edge frame, and grooved gaskets straddling the marginal portions of said panel and seating in said edge frame, T-bolts having their head portions pivotally supported in said grooves and vertically removable therefrom, said T-bolts extending downwardly through the openings provided therefor in said edge frame, and nuts threaded on said T-bolts in abutting relation to the underside of said edge frame for pressing said gaskets upwardly into direct sealing engagement with said housing around the opening therein and for holding said head portions of said bolts down in said grooves when said gaskets are in engagement with said housing.

2,327,553
VACUUM CLEANER
Robert A. Ponselle, New York, N. Y.
Application July 27, 1940, Serial No. 348,142
4 Claims. (Cl. 183—37)



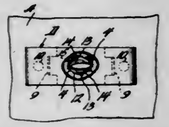
1. In a vacuum cleaner comprising a container having an air inlet and means for creating a partial vacuum within the container; a device within the container through which air passes from the inlet into the container, said device comprising a tube extending into the container as a continuation of the inlet, a casing enclosing the tube and having a normally closed end spaced from and opposite the inner end of the tube but relatively close thereto, the other end of the casing being closed by a wall substantially parallel to said normally closed end, said casing having a discharge outlet in a lateral wall thereof.

2,327,554
SNAP FASTENER
Forrest G. Purinton, Waterbury, Conn., assignor to The Patent Button Company, Waterbury, Conn., a corporation of Connecticut
Application March 7, 1942, Serial No. 433,810
4 Claims. (Cl. 24—216)



4. In a snap fastener a plastic head, a ring member extending over the periphery of said plastic head, a plurality of prongs extending downwardly through said plastic head, the outer periphery of the plastic head molded to the under surface of said ring and presenting a flat clamping surface, a socket having an upturned inwardly extending peripheral wall forming a receptive space for said prongs, the upper surface of said inturned wall presenting a cooperating clamping surface with the clamping surface of the plastic head, when the plastic head and its ring member are permanently attached to said socket.

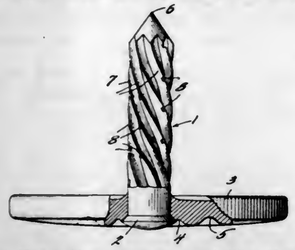
2,327,555
FASTENER
Forrest G. Purinton, Waterbury, Conn., assignor to The Patent Button Company, Waterbury, Conn., a corporation of Connecticut
Application August 29, 1942, Serial No. 456,682
17 Claims. (Cl. 24—221)



16. A two-part fastener including in part a spring member formed of a flat metal strip having an up-pressed ring located centrally of the length and width of the said member, the said spring member having cutout portions on the opposite sides of said ring and the opposite ends of said spring member being centrally notched, the said spring member being adapted to be bent downwardly and inwardly midway between the length of the cutout portions to form resultant arms and the notched end portions of the member being adapted to be bent upwardly to form bottoming stops, the metal confined within the ring being continuous and extending downwardly, perforated at its bottom and having entrance notches, advancing cam surfaces, seats and stops formed thereon and adapted to receive a cooperating locking stud, and the said member adapted to be permanently fastened to a plate.

2,327,556
FLUTED SHANK FASTENER
Forrest G. Purinton, Waterbury, Conn., assignor to The Patent Button Company, Waterbury, Conn., a corporation of Connecticut
Application September 9, 1942, Serial No. 457,773
5 Claims. (Cl. 24—90)

1. A metal fastener including a head, a pointed shank, a plurality of helical flutes defining ridges extending substantially throughout the length of the shank, the ridges of the flutes being provided with axially extending notches, barbs disposed adjacent the notches and the said barbs extending towards the head of the fastener to thereby add to the holding power of the fastener after being driven into an opening of slightly less



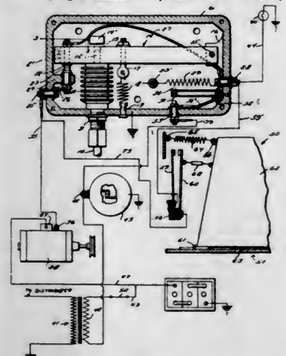
diameter than the diameter of the shank of the fastener.

2,327,557
GLOW DISCHARGE SWITCH
Karl Rath, New York, N. Y., assignor to Radio Patents Corporation, New York, N. Y., a corporation of New York
Application June 19, 1942, Serial No. 447,643
5 Claims. (Cl. 200—113)



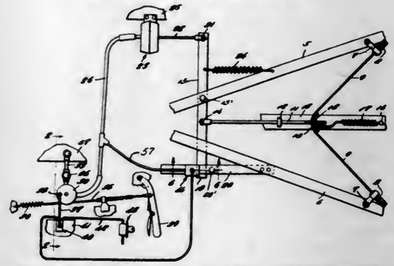
1. A glow discharge switch comprising a pair of electrodes at least one of which is a bi-metal electrode, a container enclosing said electrodes, a rarified ionizable gaseous medium in said container, one of said electrodes being constituted by a plate bent into a U and the other electrode being a flat plate arranged symmetrically within the U, said bi-metal electrode being arranged to have one end thereof to move freely under the influence of an electric glow discharge between said electrodes, and an electric contact carried by the free end of said bi-metal electrode.

2,327,558
AUTOMATIC IGNITION CUTOFF SYSTEM
Charles N. Reavis, Raleigh, N. C.
Application April 18, 1941, Serial No. 389,260
5 Claims. (Cl. 123—198)



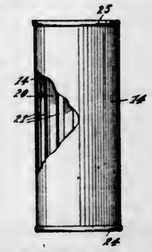
1. In a device for cutting off the ignition system of an internal combustion engine, said device comprising an oil pressure failure responsive component comprising a circuit closer maintained open by normal oil pressure and adapted to close in the absence of normal oil pressure, said circuit closer having one side thereof connected to the generator of the ignition system at a point between the field coils and the voltage regulator of said generator and having its remaining side connected to the battery of said ignition system, whereby closing of said circuit closer is precluded during low oil pressure incident to idling of said engine.

2,327,559
EMERGENCY AND PARKING BRAKE
Charles N. Reavis, Raleigh, N. C., assignor of two-thirds to Silas B. Coley, Raleigh, N. C.
Application August 18, 1941, Serial No. 407,362
5 Claims. (Cl. 192—3)



1. Applying means for the emergency and parking brakes of an automobile, said automobile having an engine including an intake manifold, and a battery and ignition circuit involving an ignition switch, said applying means comprising a vacuum cylinder in communication with said intake manifold and having operative connection with the said brakes, said vacuum cylinder being arranged to function to hold the said brakes unapplied while the engine is running, and a brake applying spring connected to apply and hold the brakes applied while said engine is in an inoperative condition and there is insufficient suction in the intake manifold, said circuit including an electromagnetically operated bleeder valve for said vacuum cylinder, said bleeder valve being arranged to be closed while said circuit is energized and to be open whenever said circuit is deenergized, the aperture of said bleeder valve being proportioned to bleed said vacuum cylinder to the atmosphere when said bleeder valve is open at a rate commensurate with the desired rate of application of the brakes following stopping of the engine.

2,327,560
POWDER DISPENSER
William H. Rose, Jersey City, N. J.
Application June 17, 1941, Serial No. 398,385
4 Claims. (Cl. 221—61)



1. A laminated compressible powder dispensing device comprising a laminated body wall formed of a sheet of compressible substantially resilient material having a plurality of substantially parallel, longitudinally positioned elongated openings therein, said openings being so spaced with respect to each other that they will form said wall with a plurality of openings therethrough; end closures carried by said wall, one of said closures having means allowing the emission of contained powder therethrough; and a flexible outside covering for said device closing said wall openings.

2,327,561
SILVER-CONTAINING FREE-MACHINING DIE STEEL
Howard W. Russell and Lloyd R. Jackson, Columbus, Ohio, assignors, by mesne assignments, to Heppenstall Company, Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application May 8, 1942, Serial No. 442,220
18 Claims. (Cl. 75—128)

1. As a new article of manufacture, a die or the like formed from die steel containing silver in an amount in excess of the solid solubility of silver in said steel but not over about 2 per cent, said block being characterized by having at least a portion of said silver distributed uniformly through the structure in highly dispersed form and by being of substantially better machinability in the hardened condition than a similar die block made from the same steel without said silver.

18. That method of improving the machinability of a die steel in the hardened condition which consists in preparing said steel in the molten state and adding thereto silver in an amount in excess of the solid solubility in said steel but not over about 2 per cent by weight of the steel.

2,327,562
SLIDE FASTENER
Louis W. Schaaff, Jackson Heights, N. Y., assignor to Waldes Koh-I-Noor, Inc., Long Island City, N. Y., a corporation of New York
Application November 24, 1941, Serial No. 420,284
4 Claims. (Cl. 24—205)



3. A slider adapted for operation both "with" and "against" a chain of fastener elements having similarly pointed locking projections which extend from a surface of their working ends, the under corners of which are substantially right-angled, comprising spaced plates having depending marginal side flanges and a divider extending between said plates and forming therewith and the side flanges thereof a straightway race portion for engaged fastener elements and race branches for the disengaged fastener elements which diverge from each other by an angle of at least 100°, the divider being laterally extended to provide the inner sides of the diverging race branches.

2,327,563
COMPOSITION OF MATTER AND METHOD AND STEPS OF MAKING AND USING THE SAME
William F. Schaufelberger, Orange, N. J., assignor, by mesne assignments, to The Harvel Corporation, a corporation of New Jersey
No Drawing. Application May 17, 1940, Serial No. 335,766
8 Claims. (Cl. 260—18)

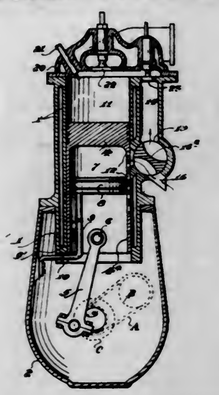
5. A varnish base comprising a mixture, bodied

at about 600° F., of a heat bodied alkyl ether of cashew nut shell liquid and an oil selected from the group consisting of non-drying and semi-drying glyceride oils.

2,327,564
ANTHELMINTIC COMPOSITION
Robert P. Scherer, Detroit, Mich.
No Drawing. Application May 24, 1941, Serial No. 395,003
6 Claims. (Cl. 167—53)

1. A medicinal composition for internal administration consisting of a volatile liquid anthelmintic having a water insoluble metal soap mixed therewith in sufficient quantity to render the composition of gel-like consistency.

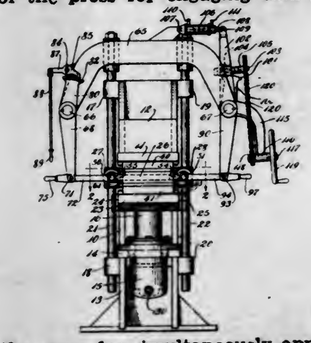
2,327,565
INTERNAL COMBUSTION ENGINE
Noble P. Sherwood, Dallas, Tex., assignor to Heuschober Engineering Corporation, Fort Worth, Tex.
Application November 21, 1941, Serial No. 420,001
5 Claims. (Cl. 123—75)



1. A four-cycle internal combustion engine comprising a cylinder having a reciprocating piston therein, said piston including a skirt portion, a stationary member disposed within the skirt portion of said piston and adapted to form an auxiliary chamber within said skirt portion, ports disposed in the skirt portion of said piston and said cylinder for passage of air into said auxiliary chamber, a container disposed in operative relation with said cylinder, means for directing said air from said auxiliary chamber into said container, and means for releasing said air from said container into said cylinder whereby the air will supercharge said cylinder for scavenging and combustion purposes.

2,327,566
APPARATUS FOR VULCANIZING ENDLESS BELTS
Frank Slusher, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application May 6, 1941, Serial No. 392,066
6 Claims. (Cl. 18—17)

4. Apparatus for vulcanizing endless belts comprising a movable platen and a stationary platen, pulleys supported at the ends of the movable platen for supporting an endless belt about said movable platen, means for engaging said pulleys and moving them with relation to each other for tensioning a belt, said means comprising a support secured to said movable platen for movement therewith, and means hinged thereto at opposite sides of the press for engaging said pulleys to



move the same for simultaneously applying tension to a plurality of belts thereon, the hinged means comprising pulley-engaging elements at the opposite sides of the press adjustable independently of each other.

2,327,567
EYE STRUCTURE FOR ANCHOR RODS
Herbert F. Stover, Brooklyn, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 27, 1942, Serial No. 448,879
6 Claims. (Cl. 24—129)

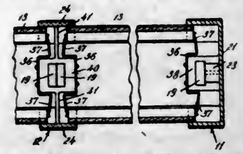


6. An eye structure for anchor rods and the like comprising a substantially circular flat portion having an aperture therein, and a slot in the periphery of said flat portion communicating with said aperture, a bulbous shank portion having a substantially triangular cross section, converging with said flat portion and having a central bore therein at right angles with respect to said first bore, and a substantially continuous circumferential groove in the periphery of said flat portion communicating with said central bore the side walls of which converge with said bulbous portion.

2,327,568
LIGHTING FIXTURE
Perry S. Strang, West Hartford, Conn., assignor to The Wiremold Company, a corporation of Connecticut
Application July 15, 1941, Serial No. 402,451
4 Claims. (Cl. 240—78)

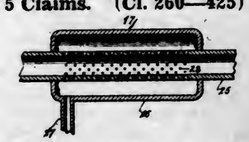
1. A lamp of the character described comprising a supporting member, end fittings comprising

end closure plates having generally U-shaped flanges directed toward each other, an assembly of generally U-shaped translucent tubular lamp housings arranged in end-to-end relation, the outermost ends of the housings of said assembly being received within and supported by the flanges of said end closure plates, at least one generally U-shaped member supporting adjacent ends of the lamp housings inwardly of the ends of the assembly, a bracket secured to the inside and transversely of said U-shaped member intermediate its side edges, springs secured to opposite faces of said bracket and extending there-



from to engage yieldingly with adjacent end portions of the lamp housings supported by said U-shaped member, to resist endwise movement of such housings in a direction toward said U-shaped member, a bracket secured to each end closure plate inwardly of its respective flange and extending from the same side of the end plate as the flange, and a spring secured to each bracket carried by the end plates and engaging yieldingly with the respective ends of the lamp housings supported by the brackets, to resist endwise movement of the housings toward said brackets.

2,327,569
PROCESS OF REFINING
Benjamin H. Thurman, Charlotte, N. C., assignor to Refining, Inc., Reno, Nev., a corporation of Nevada
Application March 29, 1941, Serial No. 385,943
5 Claims. (Cl. 260—425)

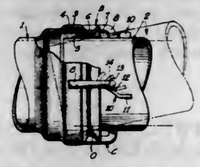


1. The method of refining glyceride oils, which comprises, mixing proportioned streams of oil and a refining agent by flowing a substantially uniformly advancing stream of said oil through a passageway having a small substantially uniform cross-section in sufficient amount to fill said passageway, injecting into said stream of oil through the walls of said passageway a plurality of minute high velocity jets of said refining agent, the cross-sections of said jets and passageway being sufficiently small and the velocity of said jets being sufficiently great to cause said jets to penetrate substantially instantaneously into all portions of said stream to substantially uniformly distribute minute droplets of said refining agent throughout said stream, and promptly thereafter separating from said oil impurities precipitated in said oil by said refining agent.

2,327,570
METHOD OF MAKING METALDEHYDE
Willard L. Vogel, Los Angeles, Calif., assignor of fifty per cent to Paul W. Prutzman, Los Angeles, Calif.
No Drawing. Application October 19, 1940, Serial No. 361,944
4 Claims. (Cl. 260—340)

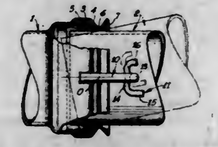
1. The method of producing metaldehyde which comprises: treating an alcoholic solution of acetaldehyde with a dilute acid to polymerize the aldehyde content of said solution; maintaining a temperature of 0° to 35° F. during said polymerization to restrain the formation of paraldehyde; adding a relatively large volume of cold water to the reacted solution; separating from the aqueous mixture precipitated metaldehyde and a supernatant paraldehydic fraction; agitating said paraldehydic fraction with an aqueous, mildly alkaline solution at normal temperature; cooling the treated paraldehydic fraction to 35° F.; and separating precipitated metaldehyde from the cold, alkaline product.

2,327,571
PIPE COUPLING
John W. Wallis, Los Angeles, Calif.
Application April 30, 1941, Serial No. 391,031
1 Claim. (Cl. 285—175)



In a flexible pipe coupling comprising a female member having an annular, inwardly projecting shoulder constituting a guiding orifice, a male member adapted to enter said orifice and have swinging movement in an axial plane of said female member, and flexible sealing means for effecting a seal between said members in a plurality of angular positions thereof; hitch means for mutually supporting said members against separating movement, said hitch means comprising a plurality of circumferentially spaced male hitch elements on one member and a corresponding number of cooperating female hook-like hitch elements secured on the other member in substantially equally spaced relation around the periphery of said other member, said female hitch elements including a portion which is approximately V-shaped, and all said male hitch elements including an elongated shank and a radially extending portion at one end thereof capable of simultaneously fitting in the apexes of their associated female hitch elements in mutually interhooked relation when said two members are in axially aligned position, the two sides of the V-shaped portion of each female hitch element diverging from each other at an angle such that the coupling can be bent, interhooked in any direction while retaining the male hitch element that is closest to the outside of the bend in the apex of its associated female hitch element.

2,327,572
PIPE COUPLING
John W. Wallis, Los Angeles, Calif.
Application April 30, 1941, Serial No. 391,032
10 Claims. (Cl. 285—193)



1. A flexible pipe coupling comprising a female member having an annular, inwardly projecting

shoulder constituting a guiding orifice, a male member adapted to enter said orifice and having swinging movement in an axial plane of said female member, flexible sealing means for effecting a seal between said members in a plurality of angular positions thereof, and hitch means for mutually supporting said members against separating movement, said hitch means comprising a male hitch element on one member and a cooperating female hitch element on the other member, in which the contacting surfaces of said elements are longitudinally displaced from said orifice, the female hitch element comprising a portion extending approximately tangentially with respect to its associated member and longitudinally extending stop portions at the opposite ends of said tangential portion for limiting relative movement of the male hitch element along said tangential portion of the female hitch element, the length of said tangential portion between said stop portions being approximately equal to the product of the longitudinal distance of the said contacting surfaces from said orifice and the bending angle between extreme opposite positions, expressed in radians, plus the thickness of the male hitch element.

2,327,573

RUBBER IMPREGNATED FIBROUS BODY OF MATERIAL AND PROCESS OF MAKING THE SAME

William J. Walsh, Burlington, Wis., assignor to Burlington Mills, Inc., Burlington, Wis., a corporation of Wisconsin

Application May 7, 1942, Serial No. 442,104
14 Claims. (Cl. 117—65)



7. The process of forming a rubber impregnated fibrous material, comprising the steps of immersing a body of fibrous material including an inner reinforcement of woven fibrous material in a bath comprising a compounded water dispersion of rubber hydrocarbon and a vulcanizing agent, causing a partial vulcanization of said rubber, and causing said rubber to be further vulcanized during a pressing operation to materially decrease the thickness of said body and to consolidate the bonding relation of said fibres.

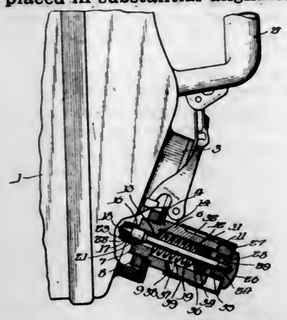
2,327,574

SANITARY SELF-CLOSING FAUCET

Roy H. Zinkil, Oak Park, Carl U. Larson, Berwyn, and George E. Hansen, Chicago, Ill., assignors to Crane Co., Chicago, Ill., a corporation of Illinois

Application May 18, 1942, Serial No. 443,510
5 Claims. (Cl. 251—137)

1. A self-closing faucet comprising a body having an inlet with a central passage and an outlet passage through the side thereof, a seat on an end portion of the said body, a closure member positioned externally of the said body, a stem mounted within the said central passage of the body suitable for actuating the said closure member, resilient means adapted to hold said closure member in seated position, a cap member telescopically positioned over the said body and movable longitudinally with said stem, throttling means substantially filling the inlet of the body when the closure member is seated and for a predetermined period when the closure member is unseated, the said cap member having an aperture therein, whereby when the said stem and the said cap member are pressed forward simultaneously the closure member is lifted from its seat and the aperture in the said cap member is subsequently placed in substantial alignment with the



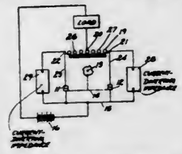
outlet passage in the body, the said cap member serving as a guide in effecting the accurate alignment of the side outlet passage of the body with the aperture of the cap member.

2,327,575

PARALLEL OPERATION OF INTERRUPTING MEANS

Harold J. Brown, Indianapolis, Ind.

Application January 31, 1942, Serial No. 429,075
19 Claims. (Cl. 175—373)



1. In an electrical system including a load circuit and having a circuit interrupting device therefor with at least two parallel sets of interrupting contacts substantially simultaneously operated for jointly supplying a current through a plurality of parallel contact paths to the load circuit; the arrangement for preventing the current which is interrupted in an interrupted parallel contact path incident to slight variations in the breaking of the plurality of sets of contacts from suddenly re-establishing itself in a yet uninterrupted parallel contact path and increasing the burden on the set of contacts therein during the short interval involved between the successive openings of the parallel sets of contacts, said arrangement comprising the combination of current-diverting impedance means connected in effective electrical current-diverting relation with the parallel sets of contacts, and a balancing inductance having a winding with two ends and a center-tap dividing the said winding into two halves with a half thereof included in each of the two parallel contact paths for developing, in series with each of the parallel sets of contacts, an inductive impedance to the flow of current therein, the inductive impedance in the yet uninterrupted parallel contact path opposing the sudden re-establishment of the current of the interrupted parallel contact path during the short interval involved between the successive openings of the parallel sets of contacts in the yet uninterrupted parallel path, thereby preventing the damaging of the contacts, the said center-tap being connected to the load circuit and the said ends of the balancing winding being connected respectively to the two parallel contact paths, thus forming a T-connection to balance out the inductive impedance of the said winding with respect to the load circuit.

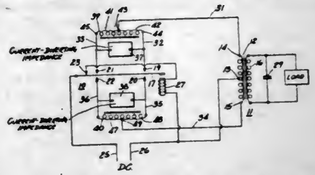
2,327,576

BALANCED INTERRUPTER CIRCUIT

Harold J. Brown, Indianapolis, Ind.

Application January 31, 1942, Serial No. 429,077
14 Claims. (Cl. 175—365)

1. In an electrical system for converting cur-



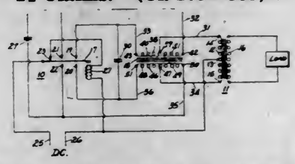
rent from a direct current source into alternating current and supplying the latter to a load, said system comprising a transformer having primary winding means with two ends and a center tap and secondary winding means supplying the alternating current to the load, and a vibratory interrupter having two interrupting sets of parallel contact means substantially simultaneously operated during a vibratory interval for jointly supplying an interrupted direct current through a plurality of parallel contact paths to the primary winding means of the transformer, each of the two sets of parallel contact means including oppositely disposed contact means and vibratory contact means operating therebetween, said center tap being connected to one side of the direct current source and said vibratory contact means being connected to the other side of the direct current source, first circuit connection means including two branches each connecting respectively an oppositely disposed contact means on one side of the vibratory contact means to one end of the primary winding means and second circuit connection means including two branches each connecting respectively an oppositely disposed contact means on the other side of the vibratory contact means to the other end of the primary winding means; the arrangement for preventing the current which is interrupted in an interrupted parallel contact path incident to slight variations in the breaking of the plurality of sets of contact means from suddenly re-establishing itself in a yet uninterrupted parallel contact path and increasing the burden on the set of contacts therein during the short interval involved between the successive openings of the parallel sets of contacts, said arrangement comprising the combination of first current-diverting means connected across the oppositely disposed contact means on one side of the vibratory contact means, second current-diverting means connected across the oppositely disposed contact means on the other side of the vibratory contact means, and balancing inductance means having a first balancing winding with two ends and a center-tap dividing the said first balancing winding into two halves with a half thereof included in each of the branches of the first circuit connection means and having a second balancing winding with two ends and a center-tap dividing the said second balancing winding into two halves with a half thereof included in each of the branches of the second circuit connection means for developing, in series with each of the sets of parallel contact means, an inductive impedance to the flow of the current therein, the inductive impedance in the yet uninterrupted parallel contact path opposing the sudden re-establishment of the current of an interrupted parallel contact path during the short interval involved between the successive openings of the parallel sets of contacts in the yet uninterrupted parallel path, thereby preventing the damaging of the contacts, the said center-tap of the first balancing winding being connected to one end of the primary winding means of the transformer and the two ends of the first balancing winding being connected respectively to the two branches of the first connection means, thus forming a T-connection to balance out the inductive impedance of the said first balancing winding with respect to the current flowing through the primary winding means of the transformer, the said center-tap of the second balancing winding being connected to the other end of the primary winding means of the transformer and the two ends of the second balancing winding being connected respectively to the two branches of the second connection means, thus forming a T-connection to balance out the inductive impedance of the said second balancing winding with respect to the current flowing through the primary winding means of the transformer.

2,327,577

BALANCED INTERRUPTER SYSTEM

Harold J. Brown, Indianapolis, Ind.

Application January 31, 1942, Serial No. 429,076
14 Claims. (Cl. 175—365)



3. An electrical system for converting current from a direct current source into alternating current and supplying the latter to a load, said system comprising a vibratory circuit including a transformer and a vibratory interrupter having two sets of parallel contact means with each set comprising oppositely disposed contact means and a vibratory contact means operating therebetween, a capacitor connected across the oppositely disposed contact means of each set of the parallel contact means, and balancing inductance means having a first balancing winding with a center-tap connected to the transformer and dividing the said first winding into two halves with a half thereof connected respectively in series with the oppositely disposed contact means on one side of the vibratory contact means and having a second balancing winding with a center-tap connected to the transformer and dividing the said second winding into two halves with a half thereof connected respectively in series with the oppositely disposed contact means on the other side of the vibratory contact means.

2,327,578

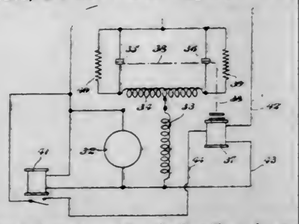
PARALLEL OPERATION OF REGULATOR INTERRUPTERS

Harold J. Brown, Indianapolis, Ind.

Original application January 31, 1942, Serial No. 429,075. Divided and this application January 23, 1943, Serial No. 473,304
6 Claims. (Cl. 171—229)

1. In a generator field circuit having a regulating device therefor with at least two parallel sets of interrupting contacts substantially simultaneously operated for jointly supplying a current through a plurality of parallel contact paths to the field circuit; the arrangement for preventing the current which is interrupted in an interrupted parallel contact path incident to slight variations in the breaking of the plurality of sets of contacts from suddenly re-establishing

itself in a yet uninterrupted parallel contact path and increasing the burden on the set of contacts therein during the short interval involved between the successive openings of the parallel sets of contacts, said arrangement comprising the combination of resistance means connected across the contacts of each set of contacts, and a balancing inductance having a winding with two ends and a center-tap dividing the said winding into two halves with a half thereof included in each of the two parallel contact paths for developing, in series with each of the parallel sets of contacts, an inductive impedance to the flow



of current therein, the inductive impedance in the yet uninterrupted parallel contact path opposing the sudden re-establishment of the current of the interrupted parallel contact path during the short interval involved between the successive openings of the parallel sets of contacts in the yet uninterrupted parallel path, thereby preventing the damaging of the contacts, the said center-tap being connected to the field circuit and the said ends of the balancing winding being connected respectively to the two parallel contact paths, thus forming a T-connection to balance out the inductive impedance of the said winding with respect to the field circuit.

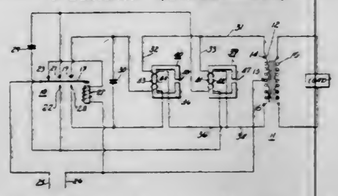
2,327,579

INTERRUPTER SYSTEM

Harold J. Brown, Indianapolis, Ind., assignor to Electronic Laboratories, Incorporated, Indianapolis, Ind., a corporation of Indiana

Application January 31, 1942, Serial No. 429,074

7 Claims. (Cl. 175—365)



1. In an electrical system for converting current from a direct current source into alternating current and supplying the latter to a load, said system comprising a transformer having primary winding means with two ends and a center tap and secondary winding means supplying the alternating current to the load, and a vibratory interrupter having a plurality of interrupting sets of parallel contact means substantially simultaneously operated during a vibratory interval for jointly supplying an interrupted direct current through a plurality of parallel contact paths to the primary winding means of the transformer, each set of parallel contact means including oppositely disposed contact means and vibratory contact means operating therebetween, said center tap being connected to one side of the direct current source and said vibrating contact means being connected to the other side of the direct current source, a plurality of first circuit connection means each connecting one of said oppositely disposed contact means of each set of parallel contact means to one end of the primary winding means and a plurality of second circuit connection means, each connecting the other of said oppositely disposed contact means of each set of parallel contact means to the other end of the primary winding means; the arrangement for preventing the current which is interrupted in an interrupted parallel contact path incident to slight variations in the breaking of the plurality of sets of contact means from suddenly re-establishing itself in a yet uninterrupted parallel contact path during a vibratory interval of the breaking of the plurality of sets of contact means, said arrangement comprising the combination of a capacitor connected across the oppositely disposed contact means of each set of parallel contact means, and inductance means included in each of the plurality of first and second circuit connection means for developing, in series with each of the sets of parallel contact means, an inductive impedance to the flow of the current therein, the inductive impedance in the yet uninterrupted parallel contact path opposing the sudden re-establishment of the current of an interrupted parallel contact path during a vibratory interval in the yet uninterrupted parallel contact path, thereby preventing the damaging of the contact means.

2,327,580

STORM-WINDOW WEATHER SEALING AND CLOSURE DEVICE

Henry Raymond Carney, Oneida, N. Y.

Application March 13, 1942, Serial No. 434,518

5 Claims. (Cl. 20—69)



1. A solid triangular sealing strip of resilient compressible material, a base for fixedly mounting said sealing strip, a groove in said base providing a pocket for part of said sealing strip when said strip is under pressure and a binding material fixed to a face of said triangular sealing strip and extending and fixed around the exposed face of said base.

2,327,581

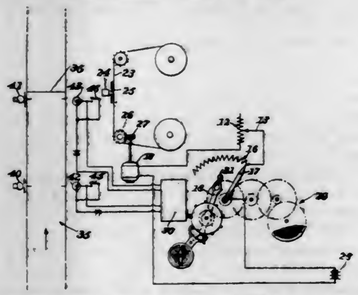
MOTOR CONTROL APPARATUS

Lorenzo del Riccio, Los Angeles, Calif.

Application August 3, 1940, Serial No. 350,345

In Great Britain August 26, 1939

6 Claims. (Cl. 95—11)



1. Apparatus for regulating the speed of an electric motor, comprising a manually operable rheostat in series with said motor and a second rheostat in series with the first rheostat, and having a substantially lower resistance value than the first rheostat, a clock movement operatively connected to said second rheostat whereby a selected total resistance in the circuit of said motor may be progressively altered in accordance with the passage of time as defined by said clock movement.

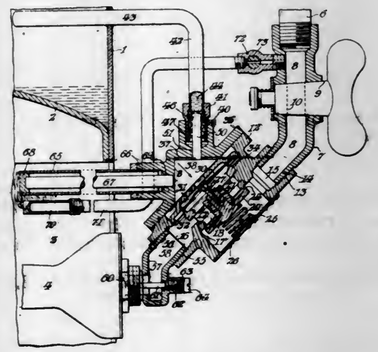
2,327,582

THERMOSTATIC CONTROL

Robert J. Dougherty, Ambler, Pa., assignor to John Wood Manufacturing Company, Inc., Philadelphia, Pa., a corporation of Delaware

Application May 18, 1942, Serial No. 443,360

4 Claims. (Cl. 236—21)



1. In a thermostatically operative valve structure; the combination with thermostatic means responsive to the water temperature in the container of a water heater; of safety shut-off thermostatic means for the gas burner of said water heater; a valve casing having a gas inlet and a gas outlet with a valve port between them; a single valve responsive to both said water thermostat and said safety shut-off thermostatic means for controlling said valve port; means for effecting snap action of said valve; and a conical block in operating relation to both of said thermostatic means and to said means for effecting snap action of said valve for transmitting movement from both of said thermostatic means to said means for effecting a snap action of said valve.

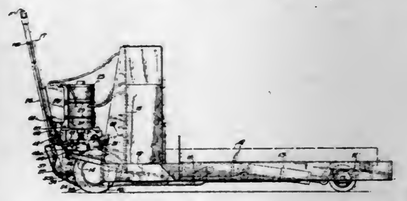
2,327,583

MOTORIZED LIFT TRUCK

Herbert J. Framhein, Chicago, Ill., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn., a corporation of Connecticut

Application April 29, 1941, Serial No. 390,931

24 Claims. (Cl. 180—19)



1. In a truck of the class described, a traction motor, a controller for said traction motor having a movable circuit closing member for particularly conditioning a series of electric speed circuits through said motor, a steering head, a steering handle pivoted on said head for vertical swinging movement relatively to said head, means whereby vertical swinging movement of said handle moves said circuit closing member to condition said circuits, and manually operated means mounted on said steering handle for controlling the circuits conditioned by the vertical swinging movement of said handle.

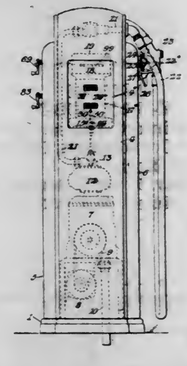
2,327,584

LIQUID DISPENSING DEVICE

Mark J. Goldberg, Spring Lake, and David S. Willson, Muskegon Heights, Mich., assignors to John Wood Manufacturing Company, Inc., Philadelphia, Pa., a corporation of Delaware

Application April 29, 1941, Serial No. 390,864

5 Claims. (Cl. 221—95)



1. In recording mechanism including a visible register operatively connected to a meter; the combination with an electric switch in controlling relation to a motor; of interlocking means preventing closure of said switch until said visible register mechanism has been set to a predetermined initial position; zeroizing means for said visible register mechanism; printing means including a series of numbered printing wheels; means for making imprints from said wheels, including a crank shaft and a crank on said shaft; a second interlocking detent means movable to alternately hold and release said shaft of said printing means; means interconnecting the printing mechanism interlocking detent means with said visible register mechanism zeroizing means; whereby operation of both said printing mechanism crank shaft and said zeroizing means is prevented when said motor switch is closed and whereby operation of said zeroizing means is prevented when said printing mechanism crank shaft is in a predetermined position.

2,327,585

BOLT SPACER OR REINFORCING MEMBER

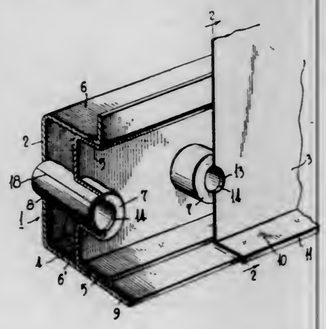
Theodore Ulrich, Detroit, Mich., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania

Application August 4, 1939, Serial No. 288,273

7 Claims. (Cl. 189—34)

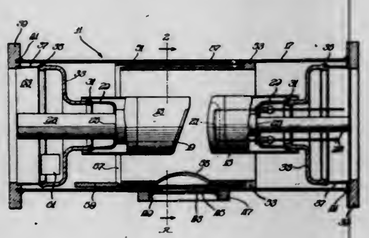
5. A structural unit comprising a hollow member, reinforcing means for said member including

a web mounted in the interior of said member, a socket comprising an end wall and being formed in said web, and an elongated element being



secured in said socket and extending to and engaging said member.

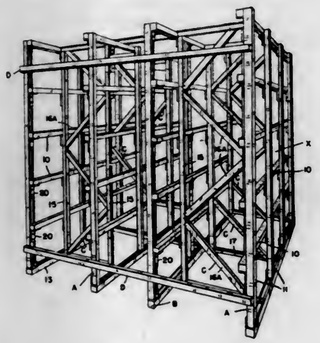
2,327,586
X-RAY TUBE
Zed J. Atlee, Elmhurst, Ill., assignor to General Electric X-Ray Corporation, Chicago, Ill., a corporation of New York
Application May 5, 1941, Serial No. 391,947
11 Claims. (Cl. 250—86)



1. A device of the class described, comprising an envelope, electrode means within said envelope, overlapping shield and shutter means within said envelope in position to receive material vaporized as a result of the actuation of the electrode means, said shield means being formed with an opening and being disposed between said shutter means and said electrode means, whereby to uncover a portion of the shutter means at said opening, said shield and shutter means being relatively movable to present remote portions of the shutter means in position to receive said vaporized material at said opening.

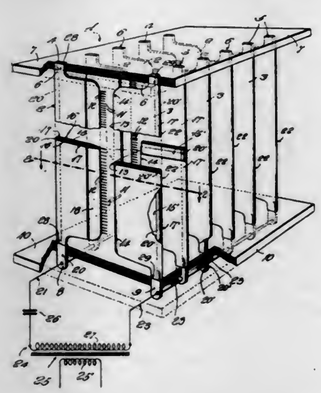
2,327,587
BAR-STOCK RACK
Charles W. Attwood, Wayne, Mich.
Application March 30, 1943, Serial No. 481,122
4 Claims. (Cl. 211—60)

1. A bar-stock rack comprising a unit consisting of a pair of frames, connecting brace elements arranged at right angles thereto and bolted to said frames, each of said frames consisting of a plurality of spaced vertical channel members and a plurality of spaced horizontal channel members bolted together, and means for bolting said brace elements to the said horizontal frame members intermediate the points of at-



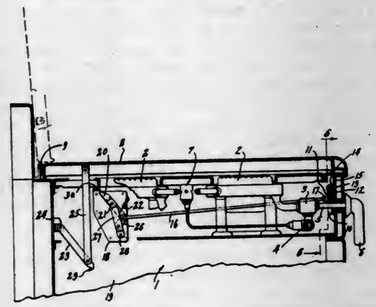
tachment of the latter to the vertical frame members.

2,327,588
APPARATUS FOR CONVERSION OF ENERGY
Willard H. Bennett, Newark, Ohio, assignor, by mesne assignments, to Games Slayter, Newark, Ohio
Application June 1, 1940, Serial No. 338,379
4 Claims. (Cl. 315—326)



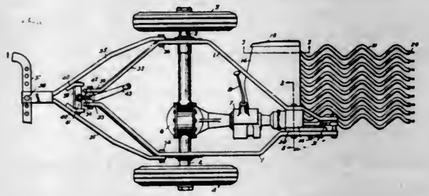
1. Apparatus for converting electrical energy to another form of energy comprising an electric circuit, a target electrode in said circuit, an emitting electrode also connected in the circuit and spaced from the target electrode, means for supplying electrical energy to the circuit to obtain a sufficient difference of potential between the electrodes to effect an electric discharge therebetween, the surface of the target electrode opposite the emitting electrode having a resistivity sufficient to prevent ionization in the region immediately adjacent the target electrode and the emitting electrode having resistive characteristics predetermined with respect to the resistivity of the target electrode to provide a current density in the region of the emitting electrode which the latter can sustain and convey either transiently or under steady conditions free from streamering, arcing and sparking.

2,327,589
GAS STOVE BURNER CONTROL MECHANISM
Richard Besocke, Arcadia, Calif., assignor of eighty per cent to John P. Frank, Arcadia, Calif.
Application February 12, 1940, Serial No. 318,507
7 Claims. (Cl. 126—42)



3. In safety apparatus for preventing the closing of a stove cover over its burners if any burner is turned on, the combination of a plurality of handles corresponding respectively to the different burners for turning them on, a movable lock-bar common to all of said handles, said handles and said lock-bar having interlocking means, and said lock-bar normally resting in a locking position for preventing all the burners from being turned on, said interlocking means constructed so that if any handle is in its "on" position the lock-bar cannot move into its locking position, a hinged cover, control means located adjacent the hinged portion of the cover, actuated by the opening movement of the cover, with means connecting the same to said lock-bar for withdrawing the lock-bar from its locking position when the cover is raised to its open position; and means other than the lock-bar located adjacent the hinged portion of the cover, and associated with said control means for preventing the closing of the cover if any of the handles is in its "on" position.

2,327,590
DIGGING MACHINE FOR ROOT CROPS
Ebon B. Bower, Bellefonte, Pa.
Application April 26, 1941, Serial No. 390,620
11 Claims. (Cl. 55—54)



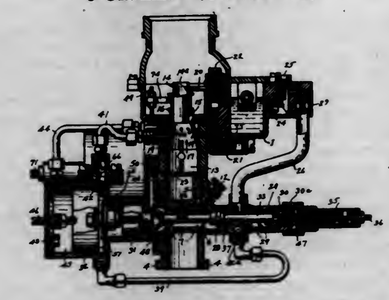
1. In a digging machine for root crops having, in combination, a frame, a blade carried by said frame, a gear box integral with the underside of said blade, shafts mounted in said gear box, means for rotating said shafts, and cantilever mounted open helically wound rods connected to said shafts in a substantially horizontal plane adapted to operate below the surface of the earth when said blade is in operative position.

2,327,591
PHOTOGRAPHIC SHUTTER OPERATING MECHANISM
Theodore M. Brueck, Rochester, N. Y., assignor to Ilex Optical Company, Rochester, N. Y., a corporation of New York
Application July 2, 1941, Serial No. 400,843
4 Claims. (Cl. 95—63)



1. The combination with a photographic shutter of a casing surrounding the shutter, shutter operating control instrumentalities disposed within the casing, said control instrumentalities including a master control lever movable in one direction from a poised position to a terminal position, a spring for moving said lever in said direction, a connection between the master control lever and the shutter for effecting the opening and the closing movements of the latter, a locking and release lever pivoted intermediate its ends for swinging movement about its pivotal axis and having a shoulder thereon on one side of said pivotal axis designed for latching engagement with the master control lever for holding the latter in its poised position, a movable finger piece having an abutment thereon for engagement with the locking and release lever adjacent one end thereof for moving the shoulder out of engagement with the master control lever to release the latter, there being an opening in the wall of said casing, a flange on said locking and release lever adjacent the other end thereof normally bearing against the casing and overlying and closing the opening, and a plunger slidably disposed in said opening and having one end thereof engageable with the flange for moving the locking and release lever from latching engagement with the master control lever.

2,327,592
CARBURETOR
Allen E. Chisholm, Portland, Oreg.
Application April 8, 1940, Serial No. 328,449
9 Claims. (Cl. 261—23)



1. In a carburetor, a plurality of carbureting devices discharging into a common outlet, one of said devices constituting a primary device and another constituting a secondary device, a manually operated throttle valve arranged in said primary device, a normally closed auxiliary throttle valve arranged in said secondary cham-

ber, means operatively actuated by pressure fluctuations in said primary carbureting device operatively engaging the throttle valve in said secondary carbureting device, said primary and secondary carbureting devices each including a Venturi tube, a duct leading from the throat of the Venturi tube in the primary device to said means, a choke ring resiliently seated in the mouth of the Venturi tube in the secondary device to decrease the cross-sectional area of the bore of said Venturi tube, said ring being operatively joined to the throttle valve in said secondary device to be unseated when said auxiliary throttle valve is opened, whereby when the auxiliary throttle valve in the secondary device is initially opened said secondary carbureting device is choked and further opening thereof moves said choke ring progressively out of the thoat of the Venturi tube in said secondary carburetor.

2,327,593
CATALYTIC ISOMERIZATION OF SATURATED HYDROCARBONS
Martin de Simó, Piedmont, and Frank Matthew McMillan, Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application January 21, 1941, Serial No. 375,260
9 Claims. (Cl. 260—683.5)

3. In a process for the isomerization of an isomerizable saturated hydrocarbon with an aluminum halide catalyst, the improvement which comprises contacting the hydrocarbon under isomerization conditions with a catalyst consisting essentially of an effective amount of anhydrous aluminum chloride and an adsorptive alumina, said adsorptive alumina having been prepared by partially dehydrating a crystalline alumina alpha trihydrate formed by precipitation from a solution of sodium aluminate.

2,327,594
PRINTING INK
Donald Robert Erickson and Paul J. Thoma, Kalamazoo, Mich.
No Drawing. Application August 11, 1941, Serial No. 406,398
2 Claims. (Cl. 106—30)

2. A non-offsetting printing ink having a high water tolerance comprising a varnish comprising a liquid polyglycol as a solvent for the resin, and a resin selected from the group consisting of rosin modified with an alpha beta unsaturated organic polybasic acid and a terpene hydrocarbon of the formula $C_{10}H_{16}$ modified by an alpha beta unsaturated organic polybasic acid and in sufficient amount to form, when subjected to steam immediately after printing, a thin hard film of resin over the exposed surfaces of the printed film, and a pigment comprising a tungstated pigment selected from the group consisting of malachite green, methyl violet, auramine, Victoria blue, rhodamine and brilliant blue resinated with a resin selected from the group consisting of rosin modified with an alpha beta unsaturated organic polybasic acid and a terpene hydrocarbon of the formula $C_{10}H_{16}$ modified by an alpha beta unsaturated organic polybasic acid whereby said water tolerance is maintained, printing characteristics are improved, and spoilage on storage is prevented.

2,327,595
PRINTING INK
Donald Robert Erickson and Paul J. Thoma, Kalamazoo, Mich.
No Drawing. Application August 11, 1941, Serial No. 406,399
2 Claims. (Cl. 106—30)

2. A non-offsetting printing ink having a high water tolerance comprising a varnish comprising a liquid polyglycol as a solvent for the resin, and a resin selected from the group consisting of rosin modified with an alpha beta unsaturated organic polybasic acid and a terpene hydrocarbon of the formula $C_{10}H_{16}$ modified by an alpha beta unsaturated organic polybasic acid and in sufficient amount to form, when subjected to steam immediately after printing, a thin hard film of resin over the exposed surfaces of the printed film, and a pigment comprising alkali blue resinated with a resin selected from the group consisting of rosin modified with an alpha beta unsaturated organic polybasic acid and a terpene hydrocarbon of the formula $C_{10}H_{16}$ modified by an alpha beta unsaturated organic polybasic acid, whereby said water tolerance is maintained, printing characteristics are improved, and spoilage on storage is prevented.

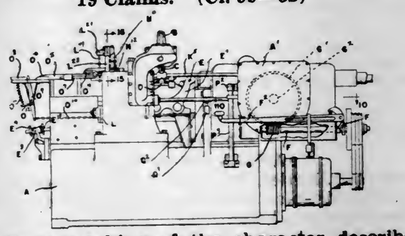
2,327,596
PRINTING INK
Donald Robert Erickson and Paul J. Thoma, Kalamazoo, Mich.
No Drawing. Application August 11, 1941, Serial No. 406,400
2 Claims. (Cl. 106—30)

2. A non-offsetting printing ink having a high water tolerance comprising a varnish comprising a liquid polyglycol as a solvent for the resin, and a resin selected from the group consisting of rosin modified with an alpha beta unsaturated organic polybasic acid and a terpene hydrocarbon of the formula $C_{10}H_{16}$ modified by an alpha beta unsaturated organic polybasic acid and in sufficient amount to form, when subjected to steam immediately after printing, a thin hard film of resin over the exposed surfaces of the printed film, and a pigment comprising a molybdated pigment selected from the group consisting of malachite green, methyl violet, auramine, Victoria blue, rhodamine and brilliant blue resinated with a resin selected from the group consisting of rosin modified with an alpha beta unsaturated organic polybasic acid and a terpene hydrocarbon of the formula $C_{10}H_{16}$ modified by an alpha beta unsaturated organic polybasic acid whereby said water tolerance is maintained, printing characteristics are improved, and spoilage on storage is prevented.

2,327,597
PRINTING INK
Donald Robert Erickson and Paul J. Thoma, Kalamazoo, Mich.
No Drawing. Application August 11, 1941, Serial No. 406,401
2 Claims. (Cl. 106—30)

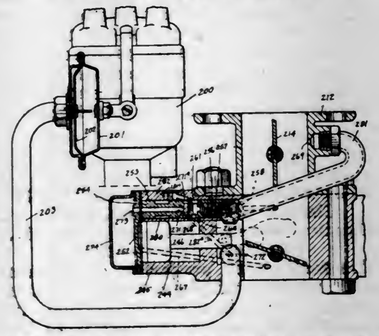
1. A non-offsetting printing ink having a high water tolerance comprising a varnish comprising a liquid polyglycol as a solvent for the resin, and a resin selected from the group consisting of rosin modified with an alpha beta unsaturated organic polybasic acid and a terpene hydrocarbon of the formula $C_{10}H_{16}$ modified by an alpha beta unsaturated organic polybasic acid and in sufficient amount to form, when subjected to steam immediately after printing, a thin hard film of resin over the exposed surfaces of the printed film, and a pigment comprising a tannated pigment selected from the group consisting of malachite green, methyl violet, auramine, Victoria blue, rhodamine and brilliant blue resinated with a resin selected from the group consisting of rosin modified with an alpha beta unsaturated organic polybasic acid and a terpene hydrocarbon of the formula $C_{10}H_{16}$ modified by an alpha beta unsaturated organic polybasic acid and in sufficient amount to form, when subjected to steam immediately after printing, a thin hard film of resin over the exposed surfaces of the printed film, and a pigment comprising a tannated pigment selected from the group consisting of malachite green, methyl violet, auramine, Victoria blue, rhodamine and brilliant blue resinated with a resin selected from the group consisting of rosin modified with an alpha beta unsaturated organic polybasic acid and a terpene hydrocarbon of the formula $C_{10}H_{16}$ modified by an alpha beta unsaturated organic polybasic acid whereby said water tolerance is maintained, printing chracteristics are improved, and spoiling on storage is prevented.

2,327,598
MACHINE FOR SIZING BEARINGS
William J. Fiegel, Detroit, Mich., assignor to Bohn Aluminum & Brass Corporation, Detroit, Mich., a corporation of Michigan
Application November 29, 1939, Serial No. 306,725
19 Claims. (Cl. 90—33)



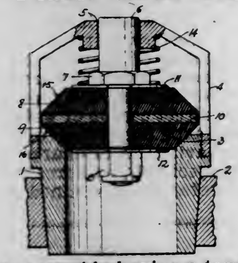
1. In a machine of the character described, the combination with a frame, a carriage thereon and means for reciprocating said carriage with a period of rest at each end of its movement, of a work holder on said carriage, loading and unloading means located on said frame to respectively deposit work in and remove work from said holder during the periods of rest of said carriage while at opposite ends of its movement, work clamping means on said carriage movable out of registration with said work holder to clear the same for the loading and unloading operations, and means for operating said clamping means timed to clamp and release the work respectively subsequent to and in advance of the operations of said loading and unloading means.

2,327,599
ON-CENTER VALVE VACUUM GOVERNOR AND SPARK CONTROL
Raymond Hufford, Anderson, Ind.
Application June 28, 1941, Serial No. 400,239
17 Claims. (Cl. 123—117)



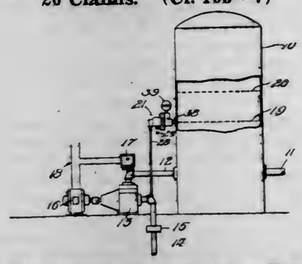
1. The combination of a suction passage and a spark device control connected at one end to a spark device and having its opposite end constantly but restrictively subject to the suction in said passage, a pressure actuated governor valve of balanced butterfly type in said passage, a valve shaft, a piston connected to the valve and subject to differential pressure, spring means normally constraining the valve to open position, means modifying the force of said spring means in the extension thereof for the purpose described, a conduit adapted to apply pressure to said control in excess of the constantly applied restrictive suction thereto, and pressure operable valve means simultaneously controlling the first mentioned piston and the conduit.

2,327,600
VALVE ASSEMBLY
Louis H. Kennon, Houston, Tex.
Application March 29, 1941, Serial No. 385,841
1 Claim. (Cl. 251—144)



In a valve assembly having a tapering seat and valve cage having valve guiding surfaces, a valve composed of a metal plate, two similar discs on opposite sides of the plate and formed of hard composition material, said discs and plate being of the same transverse diameter, so that the metal plate will contact the guiding surfaces of the cage to protect the margins of the discs from wear, means including a stem for clamping the disc and plate assembly together as a unit, the opposite sides of the valve having plane, parallel surfaces and having similar annular, marginal, tapering faces which converge outwardly from the stem toward each other and which are shaped to selectively fit said tapering seat.

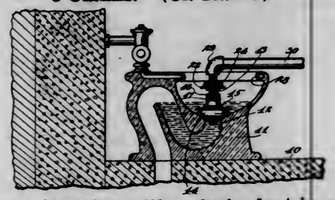
2,327,601
AIR VOLUME CONTROL
Walter E. Kent, Decatur, Ill.
Application March 12, 1942, Serial No. 434,409
20 Claims. (Cl. 103—7)



1. An air volume control for a liquid system having a tank for storing the liquid under pressure and a pump for supplying liquid to the tank comprising a casing provided with a suction chamber having an outlet port communicating with the pump and an air inlet, the inlet being open when a suction is established in the cham-

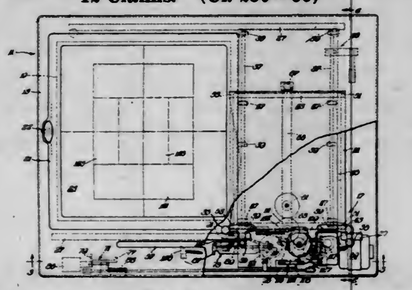
ber and closed at all other times, a valve for controlling flow through the port, and a movable member connected to the valve and responsive to a predetermined tank pressure for closing the valve.

2,327,602
DRAIN RELIEF DEVICE
Joseph F. Kesteloot, Chicago, Ill.
Application December 8, 1942, Serial No. 468,256
5 Claims. (Cl. 182—1)



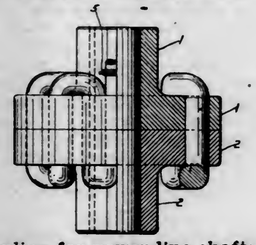
1. In combination with a drain duct in a basement floor or the like which is underlaid by water and subject to overflow, a removable drain relief device consisting of an eduction pipe opening into and leading upwardly from said duct, sealing means for sealing said pipe around said duct to prevent direct escape of water therefrom, and a discharge pipe connected with said eduction pipe and having its discharge end located in a position subjected to less pressure than that to which the water to be drained is subjected.

2,327,603
RADIOGRAPHIC APPARATUS
Arthur J. Kizaur, Cicero, Ill., assignor to General Electric X-Ray Corporation, Chicago, Ill., a corporation of New York
Application June 22, 1942, Serial No. 447,957
12 Claims. (Cl. 250—66)



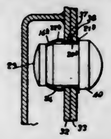
1. Plate positioning mechanism comprising frame means forming a work station, plate carriage means movable to and retractable from the work station to provide a working cycle, said frame means and carriage means comprising relatively movable structures, and cooperating stop mechanism on the carriage means and on said frame means, said stop mechanism being selectively operable to halt movement of the carriage means in any one of several relatively shifted positions at the work station to present a plate on said carriage means in a desired position at said station, said stop mechanism comprising an adjustably shiftable stop on one of said relatively movable structures, said shiftable stop being positionable selectively to engage a cooperating stop on the other structure when the carriage reaches a position in its path determined by said shiftable stop and to by-pass said cooperating stop to allow the carriage means to be stopped in a different position.

2,327,604
COUPLING
William Joseph McCartney, Birmingham, Ala.
Application November 4, 1940, Serial No. 364,263
4 Claims. (Cl. 64—12)



1. A coupling for power line shafts comprising two disks with hub extension on each, a plurality of holes through the face of each disk in uniform position, the holes in one disk registering with the holes in the other disk when both disks are aligned and placed face to face; a rubber member of a size to pass through said holes and fit therein, and thereby hold said disks together face to face, the two free ends of said rubber member retained by set screw means.

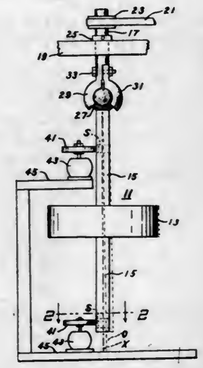
2,327,605
FASTENING DEVICE
Charles D. Ryder, Bellevue, Ky., assignor to The National Colortype Company, Bellevue, Ky., a corporation of Kentucky
Application July 30, 1941, Serial No. 404,682
3 Claims. (Cl. 85—5)



1. A fastening device consisting of a hollow sheet metal body having a recessed groove in one end that extends around the periphery of said body, the opposite end of said body having portions thereof cut out around the periphery of the body whereby the remaining portions of the body form flexible finger members extending from said groove, said fingers being bent arcuately toward the center of said body, a slot in said body extending longitudinally throughout the full length thereof to provide radial resiliency to said body, a second member having a body substantially equal to the internal dimension of said sheet metal body at the groved end thereof provided with an enlarged shoulder forming a head on one end and a recess in the opposite end thereof, said second member being adapted to enter said sheet metal body through the grooved end thereof to position said second member within said sheet metal body with the groved end thereof engaging said shoulder and with said fingers in said recess.

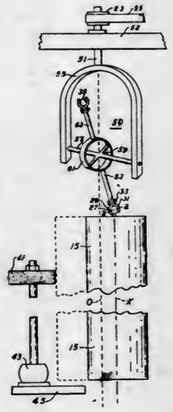
2,327,606
BALANCING ROTATING ELEMENT
Clare F. Saltz, Ypsilanti, Mich.
Application March 5, 1941, Serial No. 381,849
7 Claims. (Cl. 51—289)

1. The method of preparing an element for balanced rotation which consists in, mounting the element to be balanced for rotation and free tilting movement toward or away from the axis of rotation, rotating the element at a speed sufficient to cause it to select its axis of rotation and describe a surface of revolution, and forming bearing surfaces on portions of the element to be journalled by simultaneously removing metal



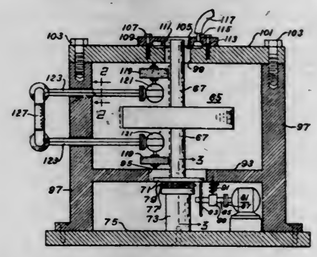
therefrom at the points of coincidence of the actual surface of the element with said surface of revolution so that the bearing surfaces are formed concentric with the axis of rotation of the element.

2,327,607
BALANCING ROTATING ELEMENT
Clare F. Saltz, Ypsilanti, Mich.
Original application March 5, 1941, Serial No. 381,849. Divided and this application February 9, 1942, Serial No. 430,008
5 Claims. (Cl. 51—105)



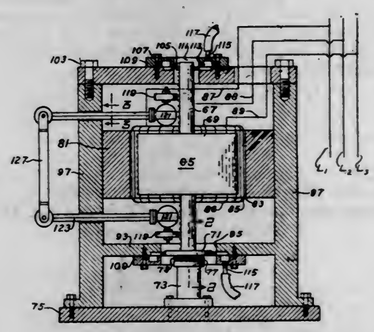
1. In balancing apparatus the combination of, a drive shaft journalled for rotation on a substantially vertical axis, a universal joint on the lower end of the drive shaft, an intermediate member extending from said universal joint, means on the other end of said intermediate member for universally supporting and rotating a piece of work to be prepared for balanced rotation, and a member of similar mass extending from the universal joint in an opposite direction from the intermediate member for counter-balancing.

2,327,608
BALANCING ROTATING ELEMENT
Clare F. Saltz, Ypsilanti, Mich.
Original application March 5, 1941, Serial No. 381,849. Divided and this application February 9, 1942, Serial No. 430,009
4 Claims. (Cl. 51—103)



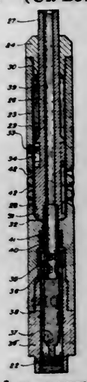
1. Apparatus for preparing a rotating work element for balanced rotation having in combination, a free bearing for supporting the lower end of an element while spinning in a vertical position, driving means for rotating the element spinning freely upon said free-bearing, guide means for limiting the free movement of said element so that its position will be within a predetermined range while it rotates upon a self-selected axis, and adjustable metal-removing means for engaging the portions of said freely spinning element to be journalled to form bearing surfaces thereon concentric with the self-selected axis of rotation while the element is spinning.

2,327,609
BALANCING ROTATING ELEMENT
Clare F. Saltz, Ypsilanti, Mich.
Application February 9, 1942, Serial No. 430,010
6 Claims. (Cl. 51—103)



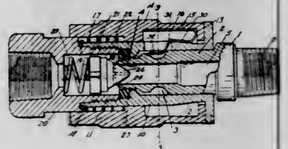
1. In combination in apparatus for preparing a metallic element for balanced rotation, means for supporting a metallic element for free spinning movement to freely select an axis of balanced rotation, metal removing means, means movably mounting said metal removing means for movement toward a portion of the spinning element to be journalled for forming bearing surfaces thereon concentric to the self selected axis of rotation, and means for producing a rotating magnetic field around said element for spinning the element freely to select its axis of balanced rotation and to have gyroscopic effect to resist tilting deflection while being engaged by said metal removing means.

2,327,610
CIRCULATING VALVE
Christian W. Savitz, Los Angeles, Calif., assignor to Halliburton Oil Well Cementing Company, Duncan, Okla.
Application June 6, 1938, Serial No. 212,054
3 Claims. (Cl. 166—1)



1. A circulating valve assembly adapted for use with pipe in an oil well or the like, said assembly including a central hollow mandrel and an outer sleeve telescoped together, coupling means on said mandrel and sleeve for limiting relative longitudinal and rotative movement therebetween, and packing means between the mandrel and sleeve, said sleeve having ports therein and said mandrel having ports therein which may be brought into juxtaposition with the ports in the sleeve to establish communication for flow of fluid between the interior and the exterior of said assembly when the mandrel is moved into one longitudinal position with respect to said sleeve and which may be passed through said packing means to close and prevent communication, as aforesaid, when the mandrel is moved to another longitudinal position with respect to said sleeve, said mandrel also having means cooperating with said packing means for preventing longitudinal flow of fluid through the assembly when communication is established between the interior and exterior thereof, as aforesaid.

2,327,611
COUPLING
Albert T. Scheiwer, Erie, Pa.
Application September 30, 1941, Serial No. 412,994
1 Claim. (Cl. 285—169)



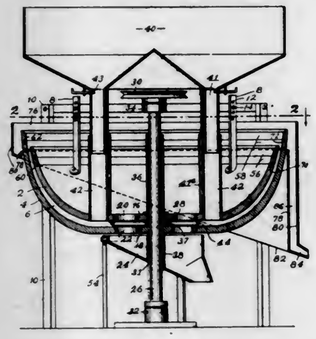
A coupling comprising a male member having a connecting portion with an annular groove, a cylindrical shell having a tapered shoulder portion, a sleeve telescopically disposed on said shell having a chamber formed therein adjacent said tapered shoulder portion and a generally U-shaped spring member having an off-set portion nested in said chamber in said sleeve and movable longitudinally therewith in engagement with the tapered shoulder portion of said male member to connect said male and female members together, said spring member being automatically movable out of engagement with the groove on the connecting portion of said male member when said sleeve is moved a predetermined distance on said shell.

2,327,612
METHOD OF AND APPARATUS FOR GENERATING PICTURES OF THE FUNDUS OF THE LIVING EYE
Kathryn Louise Stone, Vincennes, Ind., and Marion L. Pool, Columbus, Ohio, assignors to The Ohio State University Research Foundation, Columbus, Ohio, a corporation of Ohio
Application October 30, 1940, Serial No. 363,528
7 Claims. (Cl. 88—20)



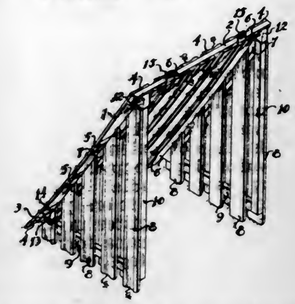
5. In a system for generating a picture of the living eye which includes means for illuminating both eyes faintly to keep the contraction of the iris at a minimum without the employment of a cycloplegic, camera means for receiving light beams emitted from the fundus, means for intensively illuminating by polarized light rays the eye under observation for a fraction of a second, means for cutting out substantially all polarized light reflected in the original plane in which it was sent into the eye, and means for directing the light reflected by the fundus to the camera means.

2,327,613
CENTRIFUGAL SEPARATOR
Cornelius F. Terhune, Kansas City, Mo.
Application October 13, 1942, Serial No. 461,846
11 Claims. (Cl. 233—27)



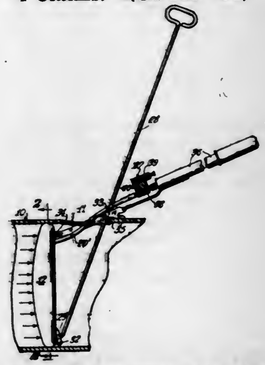
1. In a centrifugal separator, the combination of an outer bowl, an inner bowl located within said outer bowl, and proportioned to leave an intervening space between it and the outer bowl for reception of materials to be separated, means for holding the inner bowl stationary, and means for rotating the outer bowl to effect separation of the materials which are carried upward by centrifugal force, the lighter material passing upward and inward over the rim of the inner bowl, and the heavier material passing upward and outward over the rim of the outer bowl which extends above the rim of said inner bowl.

2,327,614
AWNING STRUCTURE
Sidney A. Agee, Fort Worth, Tex.
Application August 16, 1941, Serial No. 407,112
6 Claims. (Cl. 20—57.5)



3. In a ventilated awning comprising a top and depending sides, the said top adapted to be disposed at an angle and the said sides formed triangular to conform thereto, means on the said top detachably securing the same to the upper ends of the said sides comprising substantially triangular receptacles for the latter and latches providing detachable securement for the lower edge of the said top to the said sides.

2,327,615
GAS MAIN STOPPER
Victor E. Ankarlo, Hammond, Ind.
Application May 2, 1941, Serial No. 391,583
4 Claims. (Cl. 138—94)



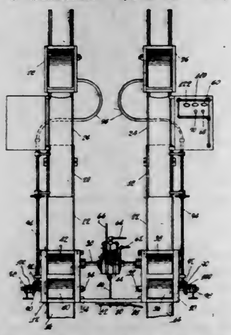
4. In a gas main stopper including a frame structure comprising oppositely disposed shackles joined for movement toward and away from each other by a telescopic strut and spring means pivotally connected at their ends to said shackles to normally bias the frame into an oval shape together with pneumatic means arranged about said oval shaped frame and an elastic diaphragm carried on said frame for closing off gas mains, the provision of an anti-torque foundation for said frame adapted to prevent lateral movement of said stopper when the frame is set in stopping relation with respect to a gas main, said anti-torque foundation comprising bond elements surrounding said spring means at intervals and having a portion thereof affixed to the latter and portions thereof extending toward the outer periphery of said frame, a coating of flexible material molded upon said spring means and bond elements and having a concaved trough formed in the outside face thereof to provide a seat for said pneumatic means, said bond element reinforcing said concaved trough and transmitting torque exerted thereon to said spring means.

2,327,616
GROUND ROD PUSHER
John Herbert Abramson and Edwin C. Swanson, Rockford, Ill., assignors to Greenlee Bros. & Co., Rockford, Ill., a corporation of Illinois
Application March 4, 1940, Serial No. 322,160
4 Claims. (Cl. 255—22)



1. The combination in a device for inserting ground rods, of means for gripping a vertically disposed cylindrical member for insertion into the ground, a sleeve for reception of said member carrying said means for rotation therewith and for free longitudinal movement with respect to the sleeve, means for rotating said sleeve, means for manually exerting pressure on said gripping means to move the same downward on said sleeve and thereby urge said member into the ground during rotation, and guiding means on the said sleeve spaced upwardly therefrom to prevent whipping of said cylindrical member during its rotation.

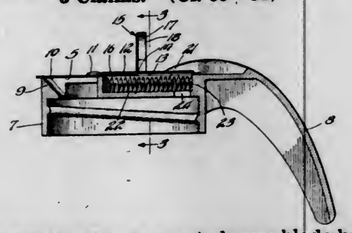
2,327,617
BRAKE TESTING APPARATUS
Claude C. Bennett, South Bend, Ind., assignor to A. E. Feragen, Inc., Seattle, Wash., a corporation of Washington
Continuation of application Serial No. 86,123, June 19, 1936. This application filed September 25, 1939. Serial No. 296,479
9 Claims. (Cl. 73—51)



1. A machine for testing the brakes on the front wheels of a vehicle comprising a base, a wheel supporting member, means supporting the

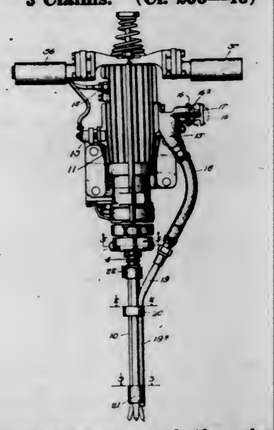
latter from the base for rotative movement about a vertical axis for movement transversely of the vehicle and for movement longitudinally of the vehicle, driven means to support the driving wheels of the vehicle, and power means driven by said driven means to effect such longitudinal movement of the wheel supporting member thereby tending to rotate the wheel on its spindle in opposition to any braking action upon the wheel.

2,327,618
SERVER OR DISPENSER
Rudolph Bernhardt, Chicago, Ill.
Application May 4, 1940, Serial No. 333,392
3 Claims. (Cl. 65—31)



1. In combination, a spout closure blade having a longitudinal embossment providing a recess on the lower side thereof and having a transverse slot in the embossed portion, an operating member having a narrow strip adapted to be inserted through the slot and having one end bent to form an abutment for a spring, the opposite end of the member extending upwardly and having a flanged portion with its lower edge resting on the blade and tending to hold said portion at right angles to the blade.

2,327,619
ROCK DRILL
Joseph H. Brown and John F. Jagiel, Chicago, Ill., assignors to Francis N. Bard, Highland Park, Ill.
Application October 4, 1941, Serial No. 413,689
3 Claims. (Cl. 255—43)



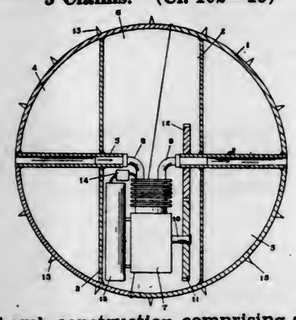
1. Drilling apparatus of the character described, including: a drill; an internal combustion motor for delivering periodic impacts to the drill, said motor having an exhaust fitting; a delivery tube extending alongside the drill to the working end thereof to clear debris therefrom; and a connector tube with easy curves connecting the exhaust fitting and delivery tube.

2,327,620
EAR PROTECTOR
Charles E. Cole, Portland, Oreg.
Application April 13, 1942, Serial No. 438,724
3 Claims. (Cl. 128—151)



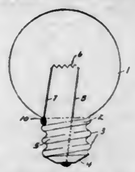
2. An ear protector consisting of a cylindrical base having a snap-on projection adapted to permit the mounting of said base on an ear mold, and having a tapering valve seat formed along the axis thereof extending through said projection, a valve plug occupying said base, said base and plug having radial openings formed therein adapted to register in one position of said plug, and to be out of register in another position of said plug, and means for rotating said valve plug having limit stops in the wide open and fully closed positions.

2,327,621
SELF-PROPELLED BOMB
Samuel L. Conrad, Columbus, Ohio
Application January 26, 1942, Serial No. 428,201
5 Claims. (Cl. 102—19)



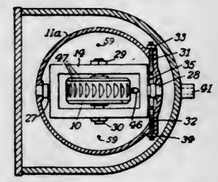
1. A bomb construction comprising a spherical shell, spaced parallel partitions within said shell dividing the same into chambers, tubular bearings extending diametrically through said shell and partitions, and in the space between said partitions an internal combustion engine revolubly mounted in said bearings and hanging therebelow in free swinging relation and driving connections between said engine and one of said bearings.

2,327,622
ELECTROMECHANICAL CONNECTION
Palmer H. Craig, Shaker Heights, Ohio, assignor to Invex Corporation, Cleveland, Ohio, a corporation of New York
Application December 10, 1941, Serial No. 422,391
5 Claims. (Cl. 176—32)



1. An incandescent lamp structure comprising a glass walled bulb proper, continuing into a tubular glass base portion closed by a glass end-wall; the bulb proper and base portion being evacuated, a layer of metal integral with the outer surface of the base portion; a layer of metal integral with the outer surface of the end-wall and spaced from the metal layer on the base portion; a filament in the lamp bulb; an opening through the wall of the base portion and through the metal layer thereon; a conductor connected to the filament and extending through the opening; fusible metal joining the conductor to the metal layer and sealing the opening; a second opening through the end-wall and metal layer thereon; a second conductor connected to the filament passing through the second opening; and fusible metal joining the second conductor to the second layer and sealing the second opening the sealings effected by the fusible metal constituting the sole means for sealing the conductors with respect to the glass wall of the bulb proper and base portion.

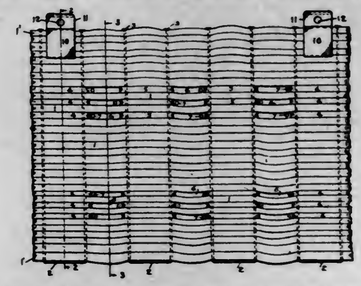
2,327,623
GYROSCOPIC DIRECTION INDICATOR AND LIKE INSTRUMENT
David Crew, New Malden, England, assignor to Reid & Sigrist Limited, New Malden, England
Application April 24, 1942, Serial No. 440,360
In Great Britain April 4, 1941
9 Claims. (Cl. 74—5)



1. A gyroscopic instrument comprising, a housing functioning as an outer gimbal, means supporting said outer gimbal for pivotal movement about a first axis, an inner gimbal pivotally carried by the outer gimbal about a second axis disposed at right angles to the first, said inner gimbal being located within said housing, a gyro-rotor pivotally mounted in said inner gimbal about a third axis at right angles to the second, an air jet device for impelling the gyro-rotor, means defining an air duct supported by said housing and leading through the means supporting it for pivotal movement to said jet device, a plurality of jet nozzles supported on said housing, extending substantially tangentially thereof in opposite directions and constituting exhaust ports therefor, selective valve means to control flow through the jet nozzles in response to movement of the inner gimbal relative to the outer gimbal, whereby when a current of air is passed through said air jet device and said jet nozzles in series the gyro-rotor is caused to turn and the reaction of the jets from said jet nozzles applies a couple to the outer gimbal about the first axis to bring the inner gimbal to a predetermined position relative to the outer gimbal by precession of the gyro-rotor when the inner and outer gimbals are away from said predetermined position, and means for adjusting the jet nozzles axially.

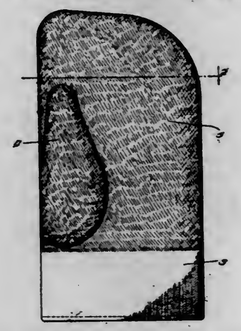
2,327,624
ANTISLIP MAT
John R. Denman, South Plainfield, N. J.
Application May 7, 1940, Serial No. 333,715
15 Claims. (Cl. 20—78)

1. In a device of the character indicated, a series of relatively thin, narrow strips of yielding material disposed edgewise and face to face, attenuated securing members extending through said strips and holding them under compression at intervals on lines substantially normal to their



length, said strips due to said interval compression having an irregular form longitudinally.

2,327,625
HEAT PROTECTIVE APPAREL
Lawrence E. Dickson, Chicago, Ill.
Application December 15, 1941, Serial No. 423,109
2 Claims. (Cl. 2—168)

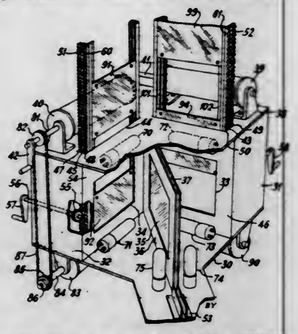


1. A heat insulating mitt, for use in handling hot articles, comprising a soft body and finger portion of woven asbestos having interstices in the fabric through which air may circulate, the palm and inside finger portions of said mitt being superficially coated with cured "neoprene" which forms a substantially moisture-proof elastic skin and adheres to the fabric by its partial admission into said interstices.

2,327,626
EXHIBITING APPARATUS
William C. Eddy, Long Island, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application May 5, 1939, Serial No. 271,985
18 Claims. (Cl. 40—130)

1. An exhibiting device comprising a plurality of sources of optical images at least two of which are positioned in substantially parallel relationship, a partially transparent member positioned at a finite angle with respect to said optical image sources, illuminating means for reflecting one of said substantially parallel images onto said partially transparent member, separate illuminating means for projecting another of said substantially parallel images onto the partially transparent member whereby said projected and reflected images pass from said partially transparent member along the same optical path, a third illuminating means positioned at a finite

angle to said first named image sources for projecting another optical image to said partially transparent reflecting member to cause the last named image to merge into substantially the same optical path from said partially reflecting member as the substantially parallel



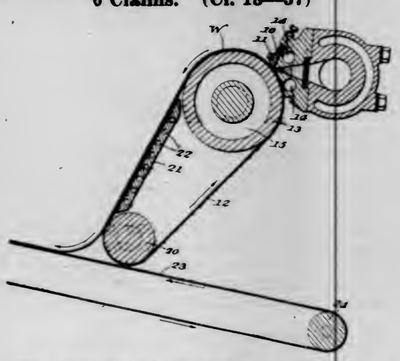
images so as to form a composite image from the plurality of image sources, separate means to energize each of the illuminating means, and control means to vary separately the brilliance of each illuminating means.

2,327,627

METHOD OF FORMING POLYVINYL ACETAL RESIN SHEETS

Gustavus J. Esselen, Swampscott, Mass., assignor, by mesne assignments, to Monsanto Chemical Company, a corporation of Delaware

Application March 3, 1938, Serial No. 193,717
6 Claims. (Cl. 18—57)



1. The method of producing a continuous web of polyvinyl acetal resin and of relieveing forming stresses therein, which comprises rendering the material substantially fluid by heat, extruding progressively the substantially fluid material upon a travelling unconfined surface, to form a web, heating the formed web while in contact with the travelling surface, subsequently cooling the web and thereafter removing the web from the surface.

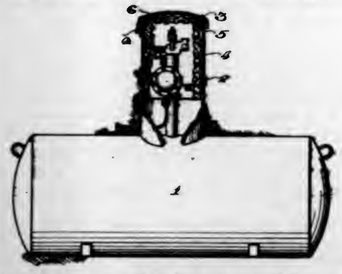
2,327,628

THERMAL SHIELD FOR TANK HEADS

Robert Ewing, Dallas, Tex.

Application March 14, 1940, Serial No. 323,864
1 Claim. (Cl. 220—85)

The combination with the dome and cover of butane tanks, of a pad of insulating material of greater length than width, a substantially circular pad of the same material hingedly connected at one point to a point on one side of said first pad midway between its ends, the said pads each consisting of an outer covering of fabric having a filler of said insulating material of uniform thickness throughout said covering and



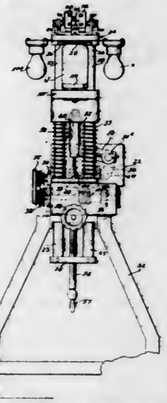
means forming hooks for suspending said first pad in said dome in rolled form, to lie against the walls thereof whereby said circular pad will be conformably received in the cover of said dome.

2,327,629

GAUGING MACHINE

William J. Fedorchak, Granite City, Ill., assignor to Owens-Illinois Glass Company, a corporation of Ohio

Application October 3, 1941, Serial No. 413,465
13 Claims. (Cl. 33—178)



1. Apparatus for gauging round surfaces of articles, said apparatus comprising a support for the articles, means for rotating the support, means for periodically lifting and lowering the support, a gauging head, means thereon for centering an article carried on the support, signalling devices, and means operated automatically by the rotating article for causing operation of a signalling device when the diameter of the surface under test does not come within a predetermined gauge limit.

2,327,630

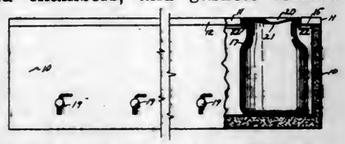
COOLER CABINET

Murray M. Fibus, Youngstown, Ohio

Application January 7, 1942, Serial No. 425,881
1 Claim. (Cl. 220—14)

In a cooler cabinet of the class described wherein a plurality of containers are positioned, a pair of top members having downwardly depending flanges formed adjacent the outermost edges thereof adapted to engage the innermost

edges of the said cooler cabinet to prevent outward movement of the said top members with respect to the said cooler cabinet matching oppositely disposed openings formed in the said top members and adapted to surround and enclose the said chambers, and gaskets formed with



downturned annular flanges positioned on each of the said chambers, the said downturned annular flanges being positioned between said chambers and the said top portions, and held in distorted form therebetween by the said top members.

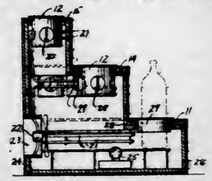
2,327,631

COOLING AND DISPLAY STAND

Murray M. Fibus, Youngstown, Ohio

Application January 9, 1943, Serial No. 471,898
2 Claims. (Cl. 211—74)

1. A cooling and display stand comprising a tiered structure having a plurality of surface levels, a plurality of openings formed in the said



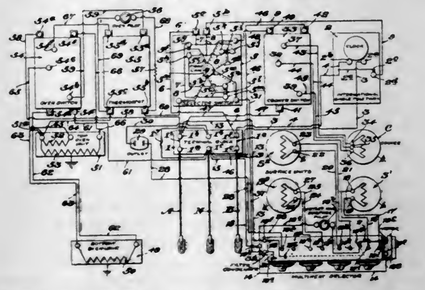
surface levels and means located beneath each of the said openings, in the structure, for supporting bottles partially positioned in the said openings, means located in each of the said openings and adapted to position the bottles therein, said means comprising a collar-like structure having an annular flange formed thereon and provided with vertically positioned rib structures in its inner surfaces so as to position the bottle and form an air passageway between the gasket-like structure and the bottle.

2,327,632

ELECTRIC RANGE CIRCUIT

Robert T. Frazier, Chattanooga, Tenn., assignor to Cavalier Corporation, Chattanooga, Tenn., a corporation of Tennessee

Application February 7, 1941, Serial No. 377,909
2 Claims. (Cl. 219—20)



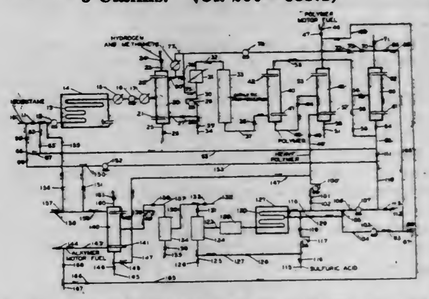
1. In an electric range circuit; power input leads including a neutral wire and two hot wires; a plurality of separate heating unit circuits including manual switches connected across said leads; a multi-pole double-throw switch having one set of fixed poles connected to one hot wire; a single pole timer; the other fixed poles of the switch being connected through the timer to the same hot wire; the movable poles of the switch being respectively connected in the separate heating unit circuits; means for selectively engaging any one of the movable poles of the switch with its related fixed pole of the second set while retaining the other movable poles of the switch engaged with their related fixed poles of the first set; a motor; one of said separate circuits including a plurality of multi-heat selectors operated by said motor and connected across said hot wires through the related movable switch pole, each selector having a pair of outlet terminals; manually controlled means in said selectors for varying the average thermal output over a period of time across each of said pairs of outlet terminals; range heating units connected respectively across certain of said pairs of outlet terminals; and a convenience outlet having one lead connected to one terminal of a pair of outlet terminals and having the other lead connected to said neutral wire.

2,327,633

PRODUCTION OF MOTOR FUEL

Frederick E. Frey, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application October 2, 1939, Serial No. 297,600
3 Claims. (Cl. 260—683.4)



3. A process for reacting a low-boiling isoparaffin with low-boiling olefins and olefin polymers, which comprises passing a stream comprising an intimate liquid mixture of a sulfuric acid alkylation catalyst and a low-boiling isoparaffin and normally liquid olefin polymers through an elongated reaction zone under alkylating conditions to produce isoparaffins in the motor fuel range, adding at least one point subsequent to the inlet of and along the length of said reaction zone a normally gaseous olefin to supply additional olefin reactant to said zone and in amounts such as to maintain a relatively low olefin concentration in said reaction zone, and recovering from an effluent of said zone a hydrocarbon fraction containing isoparaffins boiling in the motor fuel range so produced.

2,327,634

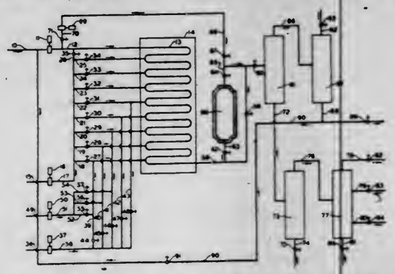
PROCESS FOR PRODUCING HYDROCARBONS

Frederick E. Frey and Harold J. Hepp, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware

Original application October 19, 1936, Serial No. 106,482. Divided and this application April 27, 1940, Serial No. 332,090
2 Claims. (Cl. 260—683.4)

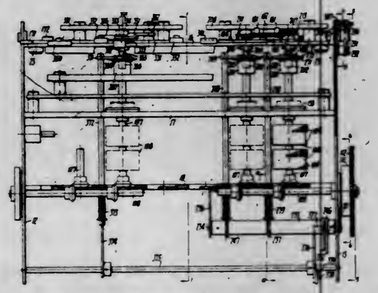
2. The process of producing normally liquid

synthetic predominantly branched paraffins lying within the motor fuel boiling range by the juncture of lower boiling paraffins with normally gaseous olefins which comprises maintaining a stream of lower boiling paraffins in a single continuous extended reaction zone at a pressure of at least 2000 pounds per square inch and at a reaction temperature between 750° and 1100° F. for a period of time not exceeding about 30 minutes and such that the decomposition of paraffins is less than 5 weight per cent, dispersing normally gaseous olefins at a plurality of separate points in said stream during said period of time in such manner that the concentration of unreacted olefin at no point in said stream exceeds 5 weight per cent of the total mixture, and



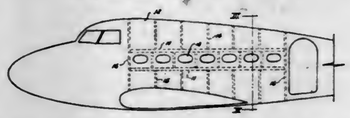
in a final portion of said zone after said points of olefin introduction and after reaction between said lower boiling paraffins and said olefins is essentially complete introducing free hydrogen at a plurality of separate points in an amount at each point before the last such that insufficient free hydrogen is present to react with all of the olefinic material present and in an amount at the last point not substantially in excess of that required to react with any olefinic material but sufficient to substantially reduce the amount of such olefinic material, said reaction conditions of temperature and pressure being maintained after the introduction of said hydrogen to cause said hydrogen to react with said olefinic material, the entire process being conducted in the absence of catalyst.

2,327,635
CALCULATING MACHINE
Carl M. Friden, Oakland, Calif., assignor to Friden Calculating Machine Co., Inc., a corporation of California
Application July 23, 1938, Serial No. 220,981
4 Claims. (Cl. 235—63)



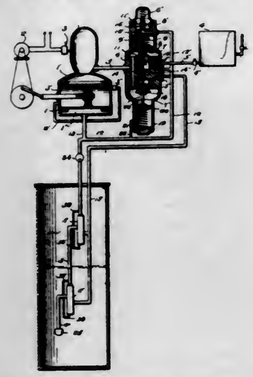
2. In a calculating machine, a shiftable register, shifting means for said register, resetting means for said register, drive means for said shifting and resetting means including a cyclically operable clutch, control means associated with said shifting means for determining operation thereof by said clutch to shift said register to any one of a plurality of predetermined positions, and means controlled by said control means for determining operation of said resetting means by said clutch at the end of a shifting operation.

2,327,636
AIRCRAFT FUSELAGE CONSTRUCTION
John Gerber, Burbank, Calif., assignor to Lockheed Aircraft Corporation, Burbank, Calif.
Application February 20, 1940, Serial No. 319,848
1 Claim. (Cl. 244—120)



An aircraft fuselage comprising a front portion, a rear portion and a spaced pair of upper and lower intermediate portions connected to the front and rear portions, a continuous circular transverse bulkhead frame member secured to the marginal edge of each front and rear portion adjacent the respective edge of the intermediate portions and forming reinforcing elements associated with each front and rear portion and the contiguous ends of the intermediate portions, a continuous longitudinal member secured to each lower edge of each upper portion and each upper edge of each lower portion and connected at each end to a respective transverse circular member, a series of spaced intermediate members interconncting adjacent pairs of longitudinal members, an outer skin covering all of said members, said outer skin having a series of window receiving openings formed therein between adjacent pairs of intermediate transverse members.

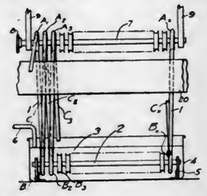
2,327,637
DEEP WELL PUMP
Thaddeus S. Harris, Waverly, Ill.
Application June 10, 1940, Serial No. 339,715
4 Claims. (Cl. 103—5)



1. In a deep well pumping plant, the combination of a double acting pump, an intake chamber and a discharge chamber on said pump, means for operating said pump, a storage tank, a well, a discharge passage from said discharge chamber, a discharge control unit connected to said discharge passage, a main discharge control chamber in said unit, a secondary or jet passage control chamber in said unit, each of said chambers being connected to said discharge passage,

a cylinder extended from said main control chamber, a plunger in said cylinder, a spring disposed to support said plunger against the discharge pressure, a diaphragm chamber connected to said cylinder, back of said plunger, a diaphragm across said chamber, a pressure release port from that side of said diaphragm chamber which is adjacent to said cylinder, a valve controlling said port, said valve being fixed to said diaphragm, a spring disposed opposite to said valve to support said diaphragm, that side of said diaphragm chamber containing said spring being open to atmospheric pressure, a valve chamber, with opening from said main control chamber, a valve controlling said opening, said valve being fixed to said plunger, a port and passage from said valve chamber to said tank, also a second port from said valve chamber, a valve controling said port, said valve being connected to said plunger, a passage connecting said port to said intake chamber, a port from said jet passage control chamber, a cylinder extended from said chamber, a plunger in said cylinder, a spring supporting said plunger, a valve controling said port, said valve being fixed to said plunger, a passage from said cylinder back of said plunger to said intake chamber, a booster jet unit, said unit comprising a jet chamber, said chamber being connected by a passage to the said port from said jet passage control chamber, a jet nozzle opening from said jet chamber, a main intake passage extended downwardly from said intake chamber, an elongated cone shaped expansion tube disposed over said jet nozzle, said tube being connected into said intake passage, a cylinder extended downwardly from said jet chamber, a plunger in said cylinder, a spring supporting said plunger, a plunger rod fixed to said plunger and extended upwardly through said jet nozzle, radially disposed longitudinal channels disposed at the top of said rod and a passage from said cylinder, at a point under said plunger and extending to the large end of said expansion tube.

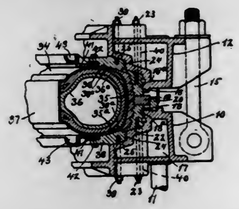
2,327,638
MANUFACTURE OF RUBBER PRODUCTS AND APPARATUS THEREFOR
Marion M. Harrison, Peninsula, Ohio, assignor to Harrison & Morton Laboratories, Inc., Akron, Ohio, a corporation of Ohio
Application September 7, 1940, Serial No. 355,779
20 Claims. (Cl. 18—24)



1. Apparatus for the formation of rubber articles which comprises a first tank adapted to hold latex, a second tank adapted to hold a vulcanizing bath, submerged in each tank a shaft with a plurality of sheaves thereon, above each of said shafts another shaft with a plurality of sheaves thereon, a flexible, elastic mandrel passing progressively over the upper and lower sheaves associated with each tank from one end of each tank to the other, and from the first tank to the second tank and means for maintaining the mandrel under tension thruout.

2. Apparatus for the manufacture of latex tubing which comprises in combination with a tank adapted to hold liquid latex, a shaft disposed horizontally below the liquid level in the tank, on the shaft means having on the periphery a plurality of grooves, said grooves being concentric with the shaft, a shaft above and parallel to the aforementioned shaft and having thereon means provided on the periphery with grooves concentric with the upper shaft, and a flexible, elastic mandrel pseudo-helicoidally surrounding said shafts and passing progressively in the two sets of grooves from one end of the shafts to the other.

2,327,639
CONVERTIBLE TIRE VULCANIZER
James C. Heintz, Lakewood, Ohio
Application January 22, 1940, Serial No. 314,928
11 Claims. (Cl. 18—18)



10. A pneumatic-tire treading vulcanizer which comprises two separable annular sections, each of which sections comprises two matrices and a steam jacket with seats thereon complemental to seating surfaces of the matrices and with the matrices seated thereon, one of the matrices being a tread matrix adapted to vulcanize a portion of the tread of the tire and the other matrix being a side-molding matrix adapted to vulcanize at least a portion of the side wall of the tire, the seating surfaces of the tread matrix comprising a substantially cylindrical seating surface and an adjoining substantially conical seating surface, and the seating surfaces of the side-molding matrix comprising a substantially cylindrical seating surface and an adjoining substantially conical seating surface, the conical seating surface of the tread matrix and the substantially cylindrical seating surface of the side-molding matrix meeting in a line substantially nearer the tire than the line of union of the seating surfaces of each individual matrix whereby the area of each matrix heated by contact with the steam jacket through said seating surfaces is large with respect to the volume of the respective matrices.

2,327,640
SURFACING MAT FOR LANDING FIELDS
Adolph R. Hendry, Portland, Mich.
Application May 29, 1941, Serial No. 395,766
2 Claims. (Cl. 94—30)



1. A conformable surfacing structure for emergency landing fields or other substantial areas comprising a plurality of flexible, overlap-

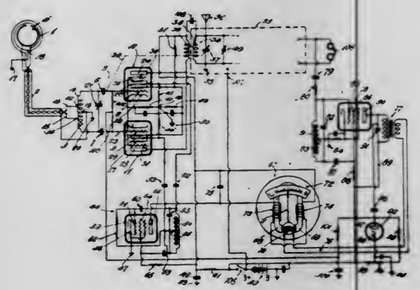
ping articulated link units adapted to be disposed in side by side and end to end relation, including transverse tie rods disposed through the overlapped ends of said link-like elements, pairs of said tie rods having connecting portions at their ends, and anchoring stakes of a length many times greater than the thickness of said structure driven into the ground and having T-heads engaging certain of the tie rod end connecting members of adjacent units.

2,327,641

RADIO COMPASS

Frederick J. Hooven, Dayton, Ohio, assignor to Radio Corporation of America, New York, N. Y., a corporation of Delaware

Application February 12, 1936, Serial No. 63,663
12 Claims. (Cl. 250—11)



1. In a radio compass system, a directional receiving means, a non-directional receiving means, an oscillator, a modulator responsive to the combined outputs of said directional receiving means and said oscillator, a tuned impedance coupled to said non-directional receiving means, means for coupling said impedance to the output of said modulator including means for maintaining the phase angle between the voltage induced in said impedance by said modulator and the voltage induced in said impedance by said non-directional receiving means substantially independent of the phase angle between the resultant current in said impedance and the resultant voltage across said impedance, a signal receiving system connected to said impedance, an indicator responsive to the combined outputs of said receiving system and said oscillator for indicating the relative phase angle of the output of said receiving system and the output of said oscillator.

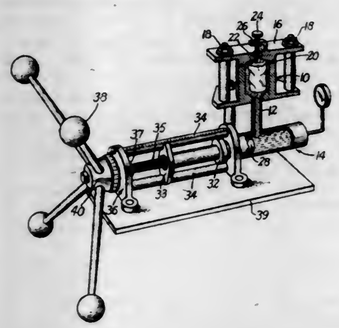
2,327,642

METHOD AND APPARATUS FOR MEASURING POROSITY OF SOLIDS

William L. Horner, Dallas, Tex., assignor to Core Laboratories, Inc., Dallas, Tex., a corporation of Delaware

Original application January 3, 1938, Serial No. 183,018. Divided and this application August 8, 1940, Serial No. 351,891
13 Claims. (Cl. 73—51)

1. In the art of measuring in a porous body the space filled with gas, the method comprising determining the volume of a sample of the body by immersing it in liquid, forcing the liquid under pressure into the pores of said body to compress the gas in said pores and to occupy the space occupied by the gas, and measuring the



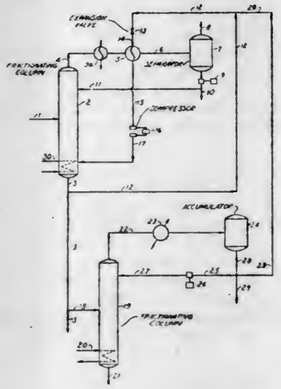
liquid while under pressure necessary thus to supplant the gas.

2,327,643

FRACTIONAL DISTILLATION

Glen S. Houghland, New York, N. Y., assignor to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware

Application August 16, 1941, Serial No. 407,137
7 Claims. (Cl. 62—175.5)



1. In the fractional distillation of a volatile mixture of relatively narrow boiling range involving the cooling of distillate vapors by indirect heat exchange with a cooling medium to condense at least a portion of said vapors and the use of thus-produced condensate as reflux in the fractionating zone, the improvement which comprises withdrawing from the fractionating zone liquid which has been enriched by fractionation with the heaviest component of the feed, reducing thus-withdrawn liquid to a pressure at which its boiling point will be below the condensation temperature of distillate vapors to be condensed, using material thus reduced in pressure as cooling medium to accomplish condensation of distillate vapors and thereby vaporizing material so used, compressing thus-produced vapors to the pressure existing in the fractionating zone and returning thus-compressed vapors to said zone.

2,327,644

VERMIFUGE AND METHOD OF MAKING SAME

Arthur H. Howard, Toronto, Ontario, Canada

No Drawing. Application December 22, 1939, Serial No. 310,607. In Canada November 6, 1939
4 Claims. (Cl. 167—53.1)

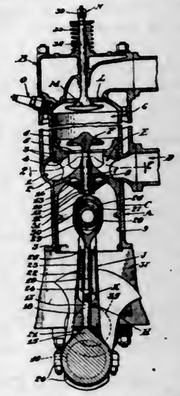
1. As an improved vermifuge, a hydrochloric acid extract of the areca nut.

2,327,645

INTERNAL COMBUSTION ENGINE

Owen R. Hughes, Alhambra, Calif.

Application September 8, 1941, Serial No. 410,021
20 Claims. (Cl. 123—47)



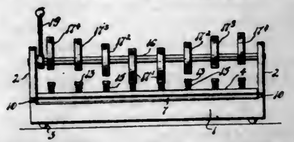
9. In an internal combustion engine, a cylinder having an intake port, a cylinder head having an exhaust port, an overhead poppet exhaust valve controlling said exhaust port, a reciprocal piston in said cylinder provided at its upper end with an intake valve port and a duct leading therefrom and opening thereon for registration with said intake port, a poppet intake valve carried by the piston for controlling said intake valve port, a crank shaft, a connecting rod between the piston and crank shaft and means operated by the crank shaft for operating said intake and exhaust valves, said intake port including an annular intake duct interiorly of the piston, said piston having a circumferential intake duct exteriorly thereof for registry with said annular duct and into which the first named piston duct opens, said annular and circumferential intake ducts forming when in full registry an annular chamber of circular cross section and surrounding the piston.

2,327,646

PAPER PUNCH

Charles Hutchinson, Kamloops, British Columbia, Canada

Application June 9, 1941, Serial No. 397,337
1 Claim. (Cl. 164—91)



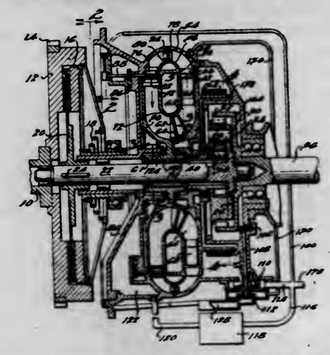
A stationery paper punch comprising in combination, a substantially rectangular base, a substantially rectangular punch-block designed to be received into said base but detachable therefrom, said punch-block having at least one edge longitudinally grooved medially of its thickness, said block having also a plurality of apertures intersecting said groove, a row of spring-pressed punch studs, one of said punch studs being in each of said apertures, a rotatable cam-shaft of square cross section above said studs, a plurality of cams in staggered relation on said shaft capable of depressing said studs through said groove and thereby perforating the edge of sheets of paper in said groove, a handle for rotating said cam-shaft in said cams, said cams being movable along said cam-shaft into or out of alignment with said studs.

2,327,647

TURBO TRANSMISSION

Joseph Jandasek, Detroit, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application December 2, 1939, Serial No. 307,285
11 Claims. (Cl. 74—189.5)



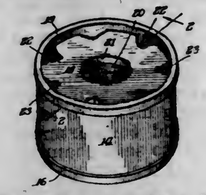
1. In a transmission for a throttle controlled engine having a source of fluid pressure, a driving shaft, a driven shaft, power transmitting means including planetary gearing interposed between the driving and driven shafts, a turbo unit comprising a rotatable impeller element driven by the planetary gearing to impart energy to a circulating medium and a rotatable turbine element concentrically mounted on the driving shaft to absorb energy from the circulating medium, a one-way driving connection between said turbine element and the driving shaft, and means actuated by said fluid pressure and influenced by throttle position to render inoperative the turbo unit.

2,327,648

FILTER PACK

Walter Kasten, Franklin, Mich., assignor to Ralph L. Skinner, Detroit, Mich.

Application October 17, 1942, Serial No. 462,345
5 Claims. (Cl. 210—184)



1. In an edge-filter cartridge, having a casing containing a plurality of parallel filter-packs each

having an internal passage open at least at one end and means for holding said filter-packs in place, the novel features being that said holding-means includes a member fixed to said casing and having a flanged opening therethrough in register with each of the filter-packs and with its flange snugly occupying the end portion of said filter-pack passage, and a second-member fixed to said casing and overlying the opposite ends of said filter-packs and having a plurality of flanged apertures therethrough outside of said packs and with their flanges engaging and positioning the external surfaces of said filter-packs, whereby the fluid to be filtered may flow through one of said members, through the walls of said filter-packs into their internal passages, and from the latter through the openings of said other member.

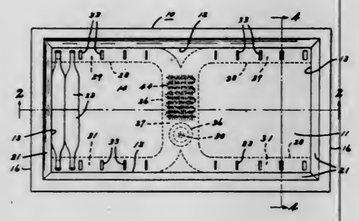
2,327,649

REFRIGERATING APPARATUS

Lloyd M. Keighley, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware

Application March 12, 1941, Serial No. 382,977

5 Claims. (Cl. 62—102)



1. A dry bottled beverage storing and refrigerating apparatus comprising in combination, a cabinet having a bottom, side and end walls forming an elongated open top compartment therein, a door or doors normally closing the open top of said compartment, means cooperating with the bottom of said compartment and forming a duct system within said cabinet, said duct system including a chamber extending transversely across the bottom of said elongated compartment within the area defined by the vertical projection of said compartment side and end walls, said duct system including a first conduit extending longitudinally of the cabinet along the bottom of said compartment, said first conduit communicating with said compartment and being connected to one end of said chamber, said duct system also including a second conduit extending longitudinally of the cabinet along the bottom of said compartment in spaced apart relation to said first conduit, said second conduit communicating with said compartment and being connected to the other end of said chamber, a cooling element of a refrigerating system disposed in said duct system forming means, means adapted to circulate air through said duct system forming means, and means for operating said circulating means to cause same to circulate air from said compartment through one of said conduits into said chamber and for forcing the air out of said chamber through the other conduit into said compartment whereby the air flows transversely across said elongated compartment.

2,327,650

WIRE CONNECTING SLEEVE

Charles H. Klein, Cleveland, Ohio, assignor to The National Telephone Supply Company

Original application January 4, 1940, Serial No. 312,387, now Patent No. 2,272,244, dated February 10, 1942. Divided and this application February 17, 1941, Serial No. 379,249

7 Claims. (Cl. 287—109)



1. A joint structure comprising a malleable seamless metal sleeve having a longitudinal bore extending therethrough, and malleable metal core-forming members extending longitudinally into said sleeve and having adjacent ends spaced relatively close to each other in the region of the longitudinal center portion of the sleeve, the metal of the sleeve at spaced locations along the intermediate portion of the sleeve being annularly and radially inwardly upset and compacted against and around said core-forming members and forced into "necking" engagement with the periphery of each of the core-forming members, the metal of the sleeve at spaced locations in the region of the end portions of the sleeve being annularly and radially inwardly upset and compacted against and around said core-forming members and forced into frictional engagement with the periphery of each of the core-forming members.

2,327,651

TAP-OFF CONNECTING DEVICE

Charles H. Klein, Cleveland, Ohio, assignor to The National Telephone Supply Company, a corporation of Ohio

Application December 15, 1941, Serial No. 423,025

2 Claims. (Cl. 287—75)



1. A wire tap-off connecting device adapted to slip over an uncut line wire for connecting a tap-off wire thereto comprising a channelled piece of metal having substantially parallel off-set end portions adapted to be compressible about the uncut line wire and the tap-off wire respectively and having an intermediate channelled connecting portion with substantially undistorted side walls to permit the uncut line wire to pass therebetween and with an apertured bottom wall to receive the tap-off wire.

2,327,652

PLASTIC COMPOSITION FOR LAMINATED GLASS INTERLAYERS

Lucas P. Kyrides, Webster Groves, Mo., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application April 27, 1940, Serial No. 332,038

7 Claims. (Cl. 260—36)

1. A plastic composition comprising a vinyl acetal resin and embodying, as a modifying agent therefore, an ester selected from the group consisting of dibenzyl and ditetrahydrofurfuryl esters of thiodiglycolic acid and homologues thereof.

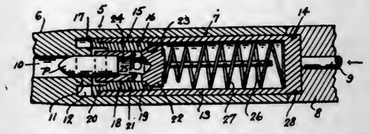
2,327,653

PNEUMATIC CARTRIDGE AND GUN

Elmer Lisle, Milwaukee, Wis.

Application April 23, 1941, Serial No. 389,995

1 Claim. (Cl. 124—11)



The combination of a gun having a cartridge receiving chamber, an annular boss formed on the inner end of the barrel of the gun and extending into the cartridge chamber with a bore therein aligning with the bore of the gun, said boss being of lesser diameter than that of the cartridge chamber, a compressed air cartridge having an enlarged bore in its forward end disposed in the cartridge chamber with its bore disposed rearwardly of the boss of the gun and in alignment therewith when in normal position, a spring closed valve in the forward end of the cartridge and having a projectile receiving bore communicating with the compressed air chamber of the cartridge, said valve having its forward end extending into the bore thereof in close opposed relation to the boss of the gun, and means carried by the gun to simultaneously force the cartridge toward the barrel of the gun and open the valve by pressing it against the boss of the gun to eject a projectile retained by the valve in alignment with the bore of the gun.

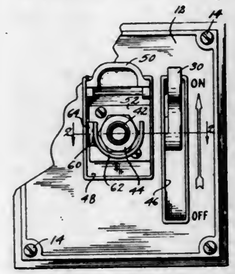
2,327,654

FITTING GUARD FOR VALVES

Robert D. McIntosh, River Forest, Ill., assignor to The Imperial Brass Manufacturing Company, Chicago, Ill., a corporation of Illinois

Application October 13, 1941, Serial No. 414,830

3 Claims. (Cl. 284—4)



1. A valve safety outlet device comprising a box, a cover plate for the box, a valve in said box having a stem extending laterally therefrom, an outlet connection facing the cover plate and a handle on the stem having an elongated portion extending through the cover plate and substantially flush with the outer surface thereof in closed position and adapted to be lifted outwardly therefrom to open position, said cover plate having an aperture for the outlet connection, and a guard having one end non-rotatably connected to the stem and having a collar at the other end encompassing a space slightly greater in area than the outlet connection, said guard having an initial position inside the box remote from the outlet connection when the valve is closed and a position wherein the collar is projected from the box through the aperture and surrounds the outlet connection when the valve is open.

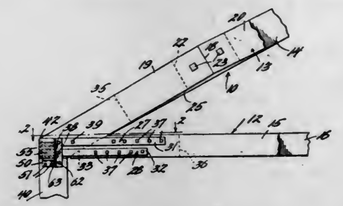
2,327,655

HEEL CONNECTION

Charles Mackintosh, Los Angeles, Calif.

Application January 19, 1942, Serial No. 427,382

13 Claims. (Cl. 108—23)



1. A truss construction comprising in combination, an upper chord, a lower chord, and a connection between said chords at the adjoining ends thereof, said connection comprising a plurality of vertically spaced U-shaped straps, each of said straps embracing the end of at least one of said chords and separately secured to said chords by fastening means disposed in a single substantially straight line and means connecting said portions of the straps together to form a unitary connection element which will permit some independent movement of said straps to accommodate any possible changes in the vertical transverse dimensions of the members of the truss.

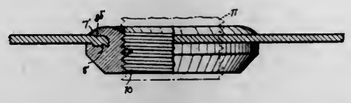
2,327,656

CONTAINER

John B. Meek, Cleveland, Ohio, assignor to The Buckeye Forging Company, Cleveland, Ohio, a corporation of Ohio

Application April 13, 1942, Serial No. 438,808

3 Claims. (Cl. 285—49)



1. A container having a sheet metal wall formed with an opening, a fitting comprising a body portion provided at one end with a circumferential flange in engagement with one side of said wall and a neck extending through said opening, said flange being formed with inner and outer annular recesses and a rib therebetween concentric to said neck, the outer end portion of said neck being swaged over into engagement with the opposite side of said container wall and serving to bend said wall over said rib and into said recesses, the bending of the container wall into the outer recess forming on its upper side between said rib and the outer wall of said outer recess an annular groove into which a portion of the swaged over neck projects, whereby said projecting portion of the neck co-acts with said rib and outer side wall of said outer recess to interlock the container wall to the walls of the fitting.

2,327,657

AREA MEASURING DEVICE

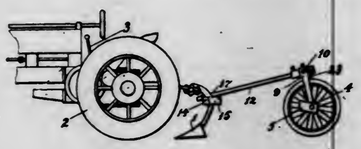
Leon Middleton, Quitaque, Tex.

Application April 22, 1940, Serial No. 330,846

1 Claim. (Cl. 33—142)

In combination with an agricultural implement, an area measuring machine for attachment to the said implement having a measuring wheel

adapted to engagement with the ground, a frame comprising a fork member embracing the said wheel having a coupling bar adjustably attached thereto for connection with the said implement, a clamp pivotally attaching the said bar to the said implement, a brake member operating on the said wheel and pivotally supported by the said



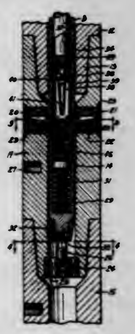
frame, a bell crank member pivotally supported by the said coupling bar having an operative connection with the said brake and means comprising a pin rigidly supported by the said attaching clamp adapted to be engaged by one leg of the said bell crank to rotate the same and operate the said brake member.

2,327,658

METHOD OF AND MEANS FOR ORIENTING TOOLS IN WELL BORES

Leonidas C. Miller, Dallas, Tex., assignor of one-half to Eastman Oil Well Survey Company, Dallas, Tex., a corporation of Delaware, and one-half to Eastman Oil Well Survey Corporation, Long Beach, Calif., a corporation of California

Application December 12, 1939, Serial No. 308,801
12 Claims. (Cl. 255—1.6)



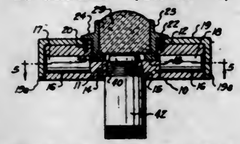
1. The method of orienting a tool within a well bore including, lowering the tool into the bore on a hollow drill stem which drill stem carries a magnet, lowering within the drill stem an instrument having an indicating element which is arranged to co-act with the magnet so as to assume a predetermined position with relation to the stem, recording on the element the angular position of the low side of the bore relative to the stem, withdrawing the instrument from the drill stem, causing the recording element to assume the same relative position within a reading device as said element had assumed within the drill stem, said device having an indication representative of the position of the tool, determining the difference between the position of the low side of the hole as indicated by the recording element, and the position of the tool as indicated by the reading device to ascertain the position of the tool within the bore relative to the low side of the bore, and then rotating the drill stem to move the tool into the desired position.

2,327,659

READING INSTRUMENT

Leonidas C. Miller, Dallas, Tex., assignor of one-half to Eastman Oil Well Survey Company, Dallas, Tex., a corporation of Delaware, and one-half to Eastman Oil Well Survey Corporation, Long Beach, Calif., a corporation of California

Application June 1, 1940, Serial No. 338,444
13 Claims. (Cl. 33—1)



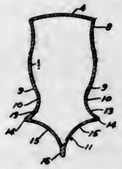
2. The combination with an indication medium having an indication thereon of a reading device including, a body having means for receiving said medium, means within the body co-acting with the medium for causing the medium to assume a predetermined position within said body, and an indicating dial on said body for correlating the indication on said medium with azimuthal north to ascertain the azimuthal position of the indication on said medium.

2,327,660

MARINE VESSEL

John Napoli, Monterey, Calif.

Application July 8, 1940, Serial No. 344,323
2 Claims. (Cl. 114—56)



1. A hull comprising an integral structure having an upper part normally disposed substantially above the load water line and a lower normally submerged part extending longitudinally beneath the upper part, the said upper and lower parts of the hull being of substantially equal depths, the said lower part having outwardly curved upper sides joined to the sides of the upper part of the hull, and lower curved sides joined to outer edges of the upper sides of the lower part of the hull, the said lower curved sides being joined to a keel and forming a longitudinally disposed substantially V-shaped structure extending above the keel, the upper curved sides and lower curved sides forming a substantially sharp outwardly projecting lateral edge substantially wider than the hull's upper part, the said lower part having a pointed forward end, and the said lower part of the hull having a cargo carrying space joining the space above in the upper part of the hull.

2,327,661

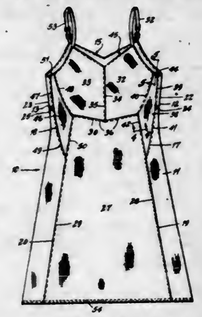
GARMENT

Loretta Novy, St. Louis, Mo., assignor to Weil-Kalter Manufacturing Company, St. Louis, Mo., a corporation of Missouri

Application August 15, 1941, Serial No. 406,967
1 Claim. (Cl. 2—73)

A form-fitting garment comprising a front skirt panel of material cut on the straight, a rear skirt panel of material cut on the straight, said panels being joined together on their two edges

for a distance extending upwardly from the bottoms thereof, said rear skirt panel extending from the waist to the bottom, and the front panel extending from the bottom to the waist, and having an extension above the waist, at the middle part thereof, breast portions of material cut on the bias, said breast portions being sewed to the front panel and its extension, and having side edges extending upwardly as continuations of the side edges of the front panel, rear upper panels secured along the upper edge of the rear skirt panel, and extending upwardly therefrom, said rear upper panels being cut on the bias, the lateral edges of the rear panels extending



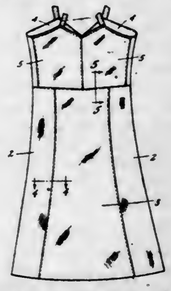
upwardly from the lateral edges of the rear skirt panel, shoulder straps joining each rear panel with a corresponding breast portion, and an elastic panel on each side, each of said elastic panels having a tapered portion secured to the upper parts of the adjacent edges of the front and rear skirt panels below the waist, and each elastic panel having an upper portion with its lateral edges secured to adjacent edges of the corresponding breast portion and upper rear panel, to separate the latter, said elastic panel permitting lateral expansion of the garment in the breast portion, the waist portion, and the portion below the waist.

2,327,662

GARMENT

Loretta Novy, St. Louis, Mo., assignor to Weil-Kalter Manufacturing Company, St. Louis, Mo., a corporation of Missouri

Application November 26, 1942, Serial No. 466,998
1 Claim. (Cl. 2—73)



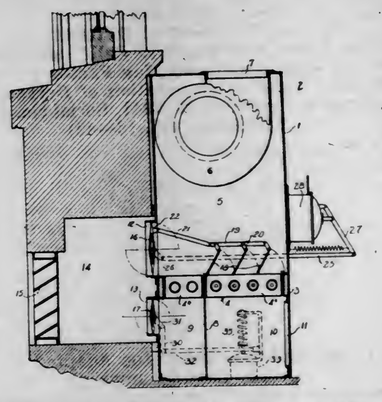
In a slip or like garment, a skirt portion and an upper portion, comprising a front skirt panel having a lower edge, lateral edges and an upper edge, the panel being narrower at its upper part than at its lower part, and having a width to extend around the sides of the garment into the rear thereof, to dispose its lateral edges at the rear of the garment, the upper edge of the front skirt panel extending at least as high as the waist of the garment, and at its front middle portion extending upwardly above the waist toward the top of the garment and converging into substantially a point, the front panel being cut on the straight at its middle front part, a rear skirt panel cut on the bias, said rear skirt panel having lateral edges joined to the lateral edges of the front skirt panel, and an upper edge extending upwardly at least as high as the waist of the garment, a pair of rear upper sections joined together at the middle of the back and each extending laterally from the junction, and disposed on the bias, the said rear upper panels being secured at their bottom edges to the upper edge of the skirt portion, and having outer lateral edges extending upwardly therefrom, a pair of breast panels cut on the bias, each breast panel being secured to the outer lateral edge of a corresponding rear upper panel, and to the upper edge of the front panel including the converging portion thereof.

2,327,663

HEATING AND VENTILATING APPARATUS

Gerald E. Otis, Moline, Ill., assignor to The Herman Nelson Corporation, Moline, Ill., a corporation of Illinois

Application December 6, 1940, Serial No. 368,763
13 Claims. (Cl. 236—37)



7. In apparatus for the delivery of thermally conditioned air to a space, a fan housing having two fresh air intakes and a recirculated air intake, heating means for heating fresh air passing through one of said fresh air intakes and through said recirculated air intake, operatively interconnected dampers for the other of said fresh air intakes and for said recirculated air intake, means responsive to the temperature in the space for controlling said interconnected dampers and means responsive to the temperature of said heating means for controlling the flow of air through said one fresh air intake.

2,327,664

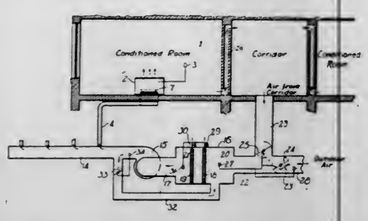
METHOD OF AND APPARATUS FOR AIR CONDITIONING

Gerald E. Otis, Moline, Ill., assignor to The Herman Nelson Corporation, Moline, Ill., a corporation of Illinois

Application December 6, 1940, Serial No. 368,764
2 Claims. (Cl. 257—3)

2. The method of thermally conditioning air, which comprises moving air along a confined

path providing intakes into said path from a source of indoor air and from a source of outdoor air, thermally conditioning the intaken air at a point along said confined path, controlling the selection of the source and of the proportionate volumes of air taken in from said sources in accordance with the relative temperatures of the outside air and of the intaken air at a posi-



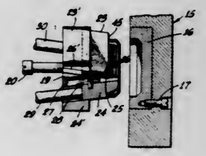
tion ahead of said point of thermal conditioning but beyond the points of intake, advancing said conditioned air under a pressure head for delivery and by-passing any excess of such conditioned air over delivery demand back to said confined path ahead of said point of thermal conditioning so as to maintain said pressure head substantially constant.

2,327,665

DIE CONSTRUCTION

Roy L. Peat, Los Angeles, Calif., assignor, by mesne assignments, to Max Factor & Co., Los Angeles, Calif., a corporation of Delaware

Application November 21, 1941, Serial No. 419,926
2 Claims. (Cl. 18—42)



1. In a moulding apparatus adapted to form container covers having inwardly extending threads, the combination of: a female die adapted to form the outer surfaces of the container cover; a male die block provided with a collapsible male die adapted to form the inner surfaces of the container cover, said collapsible male die comprising a cylindrical, stationary, central body portion, three substantially axial recesses formed in the walls of the body portion, each of said recesses including a pair of side walls radial with respect to the body portion, and a bottom wall in a plane inclined toward the axis and top of the body portion; a guiding slot in the die block opposite each of said recesses, said slot having a wall parallel to and facing the bottom of the opposing recess; and a movable male die portion slidably positioned in each of said recesses, said movable portion extending into and in slidable contact with the wall of an opposing guide slot, whereby said movable portions may be simultaneously moved along said inclined bottom walls of said recesses and opposing walls of the guiding slots to strip a container cover from said male die and to disengage said movable portions from inwardly extending threads formed on the container cover, to permit said container to be removed without deformation.

2,327,666

COMBINED CLOCK AND LAMP

Viggo Peterson, Brooklyn, N. Y.

Application August 1, 1942, Serial No. 453,243
6 Claims. (Cl. 240—2)



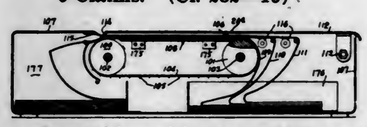
1. A combined clock and lamp comprising a base upon which a clock having a pair of side projections may rest, a standard on the back of said base, a pair of horizontal arms slidably mounted horizontally on said standard and having openings for engaging over said side projections, means for urging said arms towards each other, a tube vertically adjustably mounted on said standard and having a cam portion for moving said arms away from each other when the tube is raised, a reflector for a lamp and provided with a vertical stem passing through said tube, latch means on said standard and stem for holding said stem in selected positions, and another cam on said tube for opening said latch means when the tube is raised.

2,327,667

PINWHEEL REGISTER

William C. Pfeiffer, Dayton, Ohio, assignor to The Egry Register Company, Dayton, Ohio, a corporation of Ohio

Original application February 6, 1941, Serial No. 377,715. Divided and this application November 27, 1941, Serial No. 420,718
9 Claims. (Cl. 282—15)



9. An autographic register comprising a casing, a compartment within said casing for receiving a pack of pre-folded plural copy forms having an aligning hole in each form, a writing table, means for individually supporting the plural webs of said pre-folded pack for directing the same in a plane of movement substantially parallel to the plane of said writing table, an endless belt positioned adjacent said table, means for supporting and driving said belt, a plurality of needles in a portion of the length of said belt for engaging the webs to move a predetermined increment thereof across said table, and a pin carried by said belt in a portion thereof that is needle free for a length that is at least equal to the length of the lineal path of the belt across the writing table for engaging said holes to shift the webs with respect to one another prior to engagement of the webs by said needles, said needles releasing the webs prior to engagement of said webs by the pin.

2,327,668

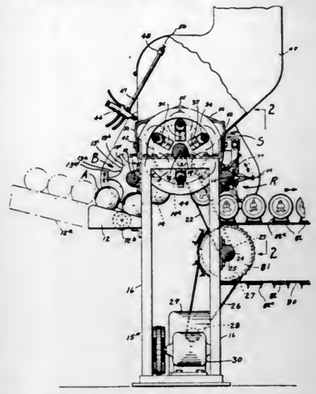
APPARATUS FOR STENCILING ARTICLES

Dietrich G. Rempel, Barberton, Ohio, assignor to The Sun Rubber Company, Barberton, Ohio, a corporation of Ohio

Application March 15, 1940, Serial No. 324,128
13 Claims. (Cl. 101—114)

1. Apparatus for stenciling articles comprising a unit including a pair of relatively movable

mating-mask sections, means for moving said mask sections toward and from mating relation about an article to be stenciled, means for inserting articles between the sections to be held there-



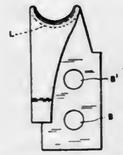
by upon the same moving toward mating relation, and means for removing the articles from between the sections upon the same moving from mating relation.

2,327,669

PRESSED SHEET METAL HOOK AND METHOD OF FORMING SAME

Joseph O. Richard, Detroit, Mich.

Application January 26, 1942, Serial No. 428,296
6 Claims. (Cl. 29—150)



1. A pressed sheet metal hook comprising a flat securing portion apertured for engagement of fasteners, and a tapering return bend portion laterally offset with respect to said securing portion not to obstruct the apertures therein, said return bend portion being of a concavo-convex cross sectional contour forming a hollow reinforcing rib extending around the bend and projecting radially inwardly thereof and the length of the return portion being nearly equal to that of the securing portion.

2,327,670

ISOMERIZING HYDROCARBONS

William E. Ross and John Anderson, Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application January 24, 1942, Serial No. 428,116
13 Claims. (Cl. 260—683.5)

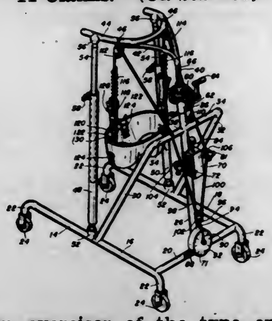
1. A process for the conversion of normal and branched chain saturated hydrocarbons to branched and more highly branched chain saturated hydrocarbons respectively which comprises contacting an isomerizable saturated hydrocarbon at isomerizing conditions with a fluid melt comprising aluminum chloride, sulfur dioxide and zinc chloride in a molar ratio of about 2:1:½, respectively.

2,327,671

WALKER MECHANISM FOR INVALIDS

Joseph A. Rupprecht, Seattle, Wash.

Application September 10, 1941, Serial No. 410,273
11 Claims. (Cl. 272—70)



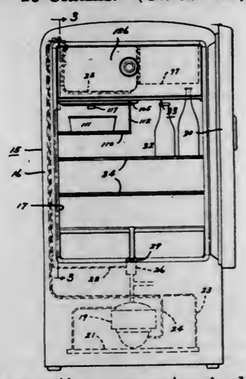
1. In an exerciser of the type employing a wheel carriage and a superstructure thereon adapted to partially support the human body by the armpits and from which body receiving means may be suspended, a gauge scale on said frame, suspension means associated with said scale for suspending a weight from said superstructure, and a body receiving element depending from said cable means whereby a body in said element will have its weight translated to said gauge scale, and clamp means to engage said suspension means to secure said body receiving element in adjusted position without disturbing the point of suspension of said element.

2,327,672

REFRIGERATING APPARATUS

Edmund F. Schweller, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware

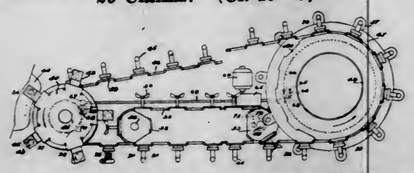
Application April 16, 1941, Serial No. 388,838
19 Claims. (Cl. 62—89)



1. A refrigerating apparatus including a cabinet having walls defining a chamber therein provided with an access opening normally closed by a door, a partition cooperating with said cabinet chamber walls and with the inner face of said door dividing the cabinet chamber into an upper compartment and a lower compartment, said partition normally preventing communication of air between said compartments, a closed primary refrigerating system associated with said cabinet and including an evaporator disposed within said upper compartment at one side thereof and forming walls of a freezing chamber therein, means for cooling the interior of said lower compart-

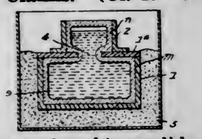
ment, means forming walls of a food storage chest within said upper compartment adjacent said evaporator, and resilient means acting between a wall of said cabinet chamber and one wall of the food storage chest for maintaining another wall of said chest in intimate thermal contact with a side wall of said evaporator.

2,327,673
MACHINE FOR MAKING GLASS ARTICLES
Clare B. Shillinger, Toledo, Ohio, assignor to Owens-Illinois Glass Company, a corporation of Ohio
Application July 29, 1939, Serial No. 287,353
29 Claims. (Cl. 49—5)



1. Apparatus for forming glass articles, comprising a container for a pool of molten glass, an endless chain conveyor, blank holding units carried by the conveyor and each comprising a spindle, means for driving the conveyor and directing said spindles in a horizontal path extending beneath said container, suction gathering molds, means for causing said molds to travel over the container in a path substantially parallel with said spindle path and gather blanks of molten glass from the container while the spindles travel beneath the container, means for transferring the blanks to said spindles while the molds and spindles are traveling in parallel paths, and means cooperating with the said spindles for developing the blanks.

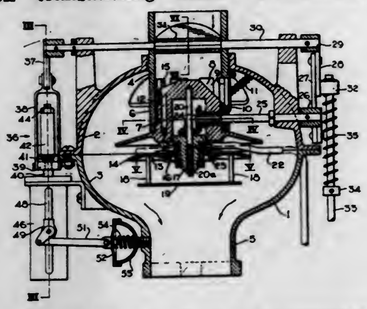
2,327,674
METHOD OF HEAT CASTING REFRACTORY BLOCKS
Harold T. Smyth, Louisville, Ky., assignor to Corhart Refractories Company, Louisville, Ky., a corporation of Delaware
Application May 22, 1940, Serial No. 336,645
4 Claims. (Cl. 49—79)



1. The method of making solid cast refractories which includes pouring molten material into a mold provided with a gate through a font mold of volume insufficient to prevent pipe formation, removing the font mold, breaking away the font shell formed therein at the completion of the draining of molten material therefrom, protecting the space which was below the gate with a heat conserving cover during a substantial part of the solidification which produces the pipe, thereafter removing the cover and filling the pipe with additional molten material.

2,327,675
CARBURETOR
Charles R. Snyder, Miami Beach, Fla.
Application December 10, 1940, Serial No. 369,417
7 Claims. (Cl. 261—50)

1. In a carburetor of the type having a mixing chamber provided with inlet and outlet passages, fuel vaporizing means in said mixing chamber and means for conducting fuel under pressure to said vaporizing means, a throttle valve disposed in the inlet passage, resilient manually operable means for opening said throttle valve, valve means in said fuel conducting means for controlling the flow of fuel to said vaporizing means, motion transmitting means connecting said

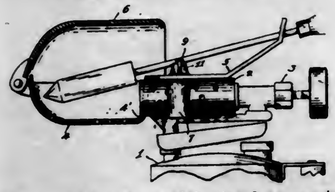


throttle and fuel valves, means connected with one of said valves for interrupting the movement of said valve toward an open position, and means connected with said movement interrupting means and operative upon a decrease in the suction created by the engine equipped with the carburetor to render said movement interrupting means operative.

2,327,676
PLATING PROCESS
James W. Spence, New York, N. Y., assignor to Du-Repel Corporation, Indianapolis, Ind., a corporation of Indiana
No Drawing. Application January 9, 1940, Serial No. 313,140
3 Claims. (Cl. 204—34)

1. Process for plating chromium upon a metallic member comprising placing said member in a boiling cleaning solution, making said member alternately cathodic and anodic while in said solution, rinsing said member after removal from said solution, making said member anodic while in a sulphuric acid-glycerine bath consisting of 66% sulphuric acid, 5% glycerine and the balance being water, plating said member with chromium by electrolysis in a chromic acid plating bath where the temperature of said member is elevated, and then placing said member in a mass of slowly cooling molten material.

2,327,677
MEANS FOR CLAMPING FURNACES TO TORCHES
Ernest A. Starbuck, Peoria, Ill.
Application July 31, 1941, Serial No. 404,848
5 Claims. (Cl. 126—239)



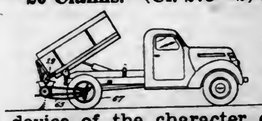
1. The combination with the burner tube of a torch, and a furnace, of means to clamp the tube and furnace together including dual spaced abutment means fixed relatively to said furnace, the said burner tube lying between the two, a bolt suspended at one end from the furnace at each side of said tube and free to swing, and each lying between said tube and an adjacent abutment means, and at its free end adapted to abut each of them, and means to positively shift each of the two bolts causing them to coact and to engage and clamp the tube between them and clamp the latter to said furnace.

2,327,678
SHIELD
Gertrude Stovall, Los Angeles, Calif.
Application September 16, 1941, Serial No. 411,040
1 Claim. (Cl. 2—174)



A shield for application to the head of a person comprising a divided frustro-conical annulus of flexible sheet material, means for holding said annulus in various contracted positions with the divided portions overlapped to vary the diameter and circumferential dimensions thereof, said annulus being formed with a series of holes along its inner marginal portion, and a line rove through said series of holes having one end engaged with said annulus.

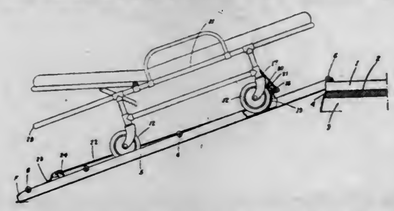
2,327,679
MATERIAL SPREADER
Eskil W. Swenson, Cherry Valley, Ill.
Application October 14, 1940, Serial No. 361,088
20 Claims. (Cl. 275—2)



1. In a device of the character described, a hopper consisting of front and rear walls and side walls, each of the said side walls consisting of a pair of panels having adjoining inner vertical edges hinged together at their top portions to permit division of the said hopper whereby an opening in the bottom thereof may be enlarged, a pair of rolls rotatably mounted in the bottom of the hopper, each roll being mounted in one half of the said hopper, resilient means urging the halves of the hopper together so as to restrain enlarging the spacing of the rolls from one another whereby the rolls will crush material passing therebetween but permit uncrushable material to also pass, means for rotating the rolls in opposite directions so that material within the hopper will be disposed to pass therebetween, and means for suspending the said hopper from the rear of a truck.

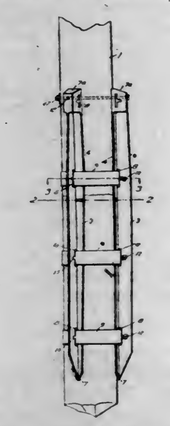
2,327,680
LOADING APPARATUS FOR AMBULANCES
Joseph G. Tavaris, Sutter Creek, Calif., assignor to American Legion Amador Post #108, Inc., Jackson, Calif., a corporation of California
Application October 23, 1942, Serial No. 463,090
10 Claims. (Cl. 214—85)

1. Ambulance loading apparatus comprising a track unit onto which a gurney is adapted to be wheeled from one end, means mounting said track unit for movement between a position within the ambulance and a position extending at an incline from the ambulance to the ground, and means on the track unit operative to releasably secure



a gurney on said track unit; said last named means including a downwardly opening vertically movable hook, and a manually actuated lever arranged to shift said hook vertically whereby to engage the same in holding relation with an element on the gurney.

2,327,681
POLE REINFORCEMENT DEVICE
Jewell W. Vanderveer, Erie, Pa.
Application October 21, 1940, Serial No. 362,106
2 Claims. (Cl. 20—100)

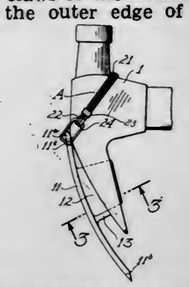


1. In a pole reinforcement device the combination of a reinforcement member adapted to extend along and in engagement with the pole having a transverse opening therein, a band extending through the opening and having a lip engaging the member, the lip of the band having a transverse opening and a connection secured to the opposite end of the band and extending through the opening in the lip and the member and exerting a clamping pull on the band.

2,327,682
ADZ ATTACHMENT FOR HAMMERS
Leland M. Van Slyke, North Hollywood, Calif.
Application July 19, 1940, Serial No. 346,359
1 Claim. (Cl. 145—29)

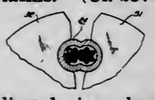
In an adz attachment for a claw hammer, an adz member having a cutting edge at one end and a wedge lug at the back side thereof adapted to receive at the opposite sides of the wedge lug the claws of the hammer, said adz member having also a transverse flange adjacent the end of the wedge lug nearest the cutting edge, the outer

sides of the claws of the hammer being adapted to rest on the outer edge of the flange, and



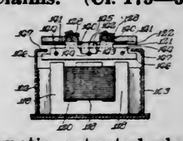
means for securing the adz member to the hammer.

2,327,683
WIRE HOLDING DEVICE
Otto P. Warner and Frank Stuart, Cleveland, Ohio, assignors to The National Telephone Supply Company, a corporation of Ohio
Application June 4, 1942, Serial No. 445,739
4 Claims. (Cl. 287—78)



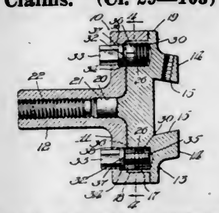
1. A wire holding device adapted to encompass and be compressed upon adjacently disposed wires comprising a hollow metal sleeve having two wire-receiving portions facing each other and arranged to be forced toward each other upon the wires, said two wire-receiving portions being integrally joined by inwardly collapsible side walls to complete the said sleeve, the distance between the collapsible side walls being reduced intermediate the two wire-receiving portions, whereby application of opposingly directed pressure upon the two wire-receiving portions forces the inwardly collapsible side walls and the two wire-receiving portions against the wires with the wires firmly engaging each other to prevent relatively longitudinal movement therebetween.

2,327,684
RELAY MECHANISM
Charles Fredricks Warrick, Detroit, Mich., assignor of one-half to The Imperial Brass Manufacturing Company, Chicago, Ill., a corporation of Illinois
Original application May 18, 1938, Serial No. 208,728, now Patent No. 2,249,994, dated July 22, 1941. Divided and this application July 15, 1940, Serial No. 345,655
5 Claims. (Cl. 175—336)



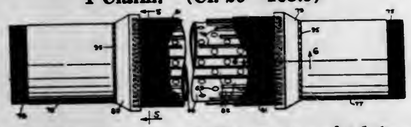
1. In a magnetic actuated electric relay including a casing member and a pole piece therein, the combination of an armature actuated mechanism comprising a lever member, a universal spring connection member suspending one end of the lever relative to the casing, an actuator member having its axis extending from the spring connection toward the pole piece and universal spring connections along the axis urging said actuator against the lever member, an armature member having an axis extending across the axis of the actuator intermediate the spring connections and a universal spring connection attaching said armature member to said lever member and holding the armature away from the pole piece, said connection comprising in each case an aperture means on one member and a projection on the other extending loosely therethrough and a coiled spring seated on the apertured member surrounding the projection on the other having an extension hooked into said projection to permit relative tilting of the members so connected in any direction.

2,327,685
CUSHIONING TOOL HOLDER
William J. Weberg, Chicago, Ill.
Application July 25, 1941, Serial No. 403,953
8 Claims. (Cl. 29—103)



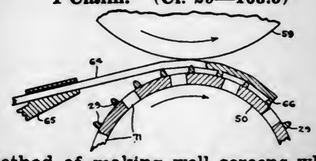
1. In a rotary tool holder, a rotary base member, a tool supporting member adapted to hold a tool for feeding in a direction extending axially of said tool holder, and yielding connecting means therebetween permitting limited relative axial movement of said members, said yielding connecting means being maintained under sufficient compression to feed a tool to the work through the distance of relative movement of said members.

2,327,686
METHOD OF MAKING DEEP WELL SCREENS
Howard O. Williams, Minneapolis, and Albert A. Jens, St. Paul, Minn., assignors to Edward E. Johnson, Incorporated, St. Paul, Minn.
Application August 1, 1938, Serial No. 222,410
1 Claim. (Cl. 29—163.5)



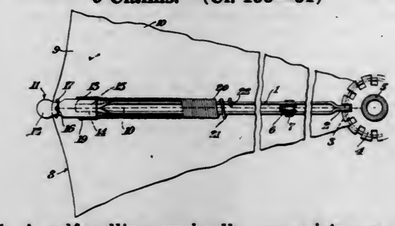
A method of making well screens embodying an inner prefabricated perforated pipe base and an outer screening surface formed with inner longitudinal supporting elements caused to engage and be immovably held upon the outer surface of the pipe base so as to form longitudinal channels running along the outer surface of the pipe base into which the perforations therethrough enter, which consists in forming an integrally united screen member comprising spaced longitudinal supporting elements and circumferential elements all welded together to form an integral cellular structure having a series of longitudinally extended spaces of predetermined width between all pairs of longitudinal elements and a continuous series of helical inwardly expanded slots, providing a pipe base having at normal temperatures an outer diameter greater than the inner diameter of the cylinder outlined by the inner margins of said longitudinal elements, forming in said pipe base longitudinal rows of openings through the walls thereof staggered in alternate rows with portions of the pipe base between each pair of rows unperforated and said unperforated portions being spaced apart distances corresponding to the spaces between said longitudinal elements, causing the integral screen member to be brought to a relatively much higher temperature than the pipe base so that the longitudinal elements of the screening member may be slipped over the outer surface of the pipe base, positioning the screening member when at said higher relative temperature so the longitudinal elements integral therewith are placed along the several unperforated portions of the pipe base between rows of perforations therethrough, and thereafter equalizing the temperature of said screen member and pipe base, whereby the longitudinal elements of the screen member are immovably united with the unperforated portitons of said pipe base on the outer surface thereof thus forming a united and substantially integral well screen device having channels beneath the screening surface running along and over the rows of perforations through the pipe base.

2,327,687
METHOD OF MAKING DEEP WELL SCREENS
Howard O. Williams, Minneapolis, and Albert A. Jens, St. Paul, Minn., assignors to Edward E. Johnson, Incorporated, St. Paul, Minn.
Original application August 1, 1938, Serial No. 222,410. Divided and this application April 15, 1940, Serial No. 329,748
1 Claim. (Cl. 29—163.5)



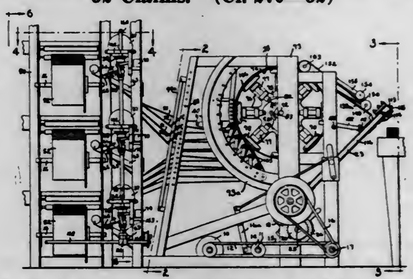
A method of making well screens which consists of providing a perforated pipe base of desired length, supporting said pipe base throughout its length by means permitting it to be rotated and advanced, said means comprising a plurality of members engaging the pipe base in such manner as to hold it in rigid fixed alinement in respect to the instrumentalities operating thereon as it is rotated and advanced, providing a plurality of rod members and holding them so that in a circumferential area along a plane transverse to their length they are caused to contact the outer surface of the pipe base in equally spaced relation, continually holding advancing parts of said rod members in such relation as the pipe base is continuously rotated and advanced, rotating together the pipe base and said holding members and the rod members on the pipe base and simultaneously advancing the pipe base and rod members longitudinally thereof so that successive portions of the rod members will be successively held in said circumferential area in contact with the pipe base and equally spaced one from the other, holding a wire to engage the outer limits of said rod members successively in said circumferential area so that as the pipe base and rod members are rotated and advanced the wire will be laid helically upon the outer limits of said rod members in said circumferential area, and progressively applying welding heat to said wire and to each successive crossing point of said rod members, said welding heat operating to weld the wire and rod members together at each crossing point, and by continual rotation and advancement of the pipe base and of the helical coils of wire thereon causing said helical coils after said welding has taken place to progressively cool and thereby to contract and bind the rod members firmly upon the unperforated portions of the pipe base.

2,327,688
MANUFACTURE OF UMBRELLAS
Arthur Wright, Forest Hills, N. Y.
Application May 28, 1940, Serial No. 337,570
9 Claims. (Cl. 135—31)



1. A self-rolling umbrella comprising a rib, a tip rotatable thereon having a cylindrical periphery and a coil spring on the rib tightly carried around said periphery.

2,327,689
COLLATING MACHINE
Clayton E. Wyrick, Dayton, Ohio, assignor to The Egry Register Company, Dayton, Ohio, a corporation of Ohio
Application October 21, 1940, Serial No. 362,006
32 Claims. (Cl. 270—52)

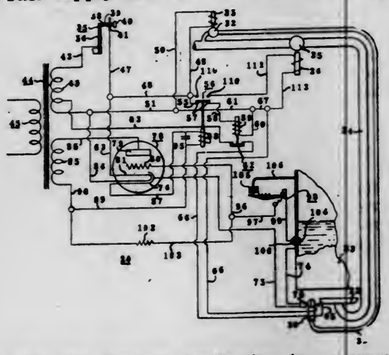


5. In a machine for collating and interleaving a plurality of paper and carbon webs adapted to be fed into the machine transversely thereof, means for initially transversely aligning carbon and paper webs in adjacent paired relation and for changing the direction of movement of said webs from transverse to longitudinal of the machine, a common feeding means for continuously feeding a pair of said webs in said relation, means for separating said webs and for establishing positive transverse alignment thereof, means for applying a pair of continuous lines of adhesive along the underside of each of the paper webs marginally spaced from the edge thereof, means for aligning said carbon web with respect to said paper web while separated and while applying said adhesive to provide a margin between the edges of said webs, cylinder means for collecting and withdrawing said interleaved web stack from said separating and adhesive applying means and causing adherence of said webs to each other, said withdrawing means providing means for feeding said web stack through cut-off means to periodically sever same.

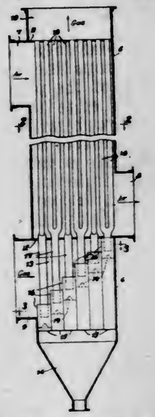
2,327,690
CONTROL APPARATUS
Harold S. Ackerman, Pittsburgh, Pa., assignor to Hubbard and Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application November 19, 1940, Serial No. 366,281
2 Claims. (Cl. 158—28)

1. In a burner control system, a pilot burner, a

main burner adjacent thereto and ignitable therefrom, electrically-operable means for effecting supply of fuel to said main burner, a source of electrical current, a circuit for energizing said fuel supply means from said source, said circuit including the plate, cathode, and the conductive space of an electron tube, and means for blocking the supply of fuel to said main burner in the absence of a state of combustion in proximity thereto, said last-mentioned means comprising a grid element associated with the recited elements of said electron tube and effective to suppress the conductivity of said circuit through said tube space to a value insufficient to effect operation of said fuel supply means, and means for rendering said grid element ineffective to so suppress conductivity of said circuit during the evolution of heat by burner operation, said last-recited means comprising a grid-discharge circuit including a heat-absorbing member mounted adjacent said burners and subject to heating by the thermal radiation from combustion thereat, said heat-absorbing member being formed of thermosensitive material having adequate electrical conductivity for such grid discharge when but only when so heated.

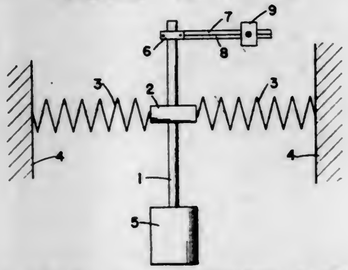


2,327,691
DUST COLLECTOR
Thomas B. Allardice, Mountain Lakes, N. J.
Application December 17, 1940, Serial No. 370,444
2 Claims. (Cl. 183—34)



1. A dust collector having a casing with a gas inlet and a gas outlet, comprising a plurality of rows of parallel, substantially vertically extending, involute tubes having tangential inlets in their upper ends extending into said inlet, the tubes of succeeding rows with respect to gas flow extending sufficiently above the upper ends of the tubes of preceding rows that the inlets of the tubes of the succeeding rows are completely above the upper ends of the tubes of the preceding rows, a plurality of rows of gas outlet tubes having their lower ends extending into the upper ends of said involute tubes and having their upper ends connecting with said gas outlet, and dust collecting means below and connecting with the lower ends of said involute tubes.

2,327,692
GRAVITY METER
Leland L. Antes, Houston, Tex., assignor to Standard Oil Development Company, a corporation of Delaware
Application April 7, 1942, Serial No. 437,953
2 Claims. (Cl. 265—1.4)



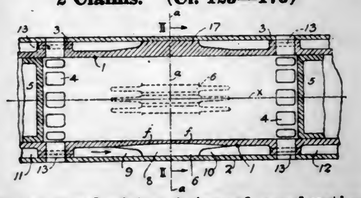
1. A gravity meter comprising a lever suspended intermediate its ends by a pair of oppositely disposed, horizontally aligned torsion springs, a mass secured to one end of said lever arm, a laterally extending bi-metallic strip carried by the other end of said lever arm, and a compensating mass slidingly mounted on said bi-metallic strip.

2,327,693
APPARATUS USEFUL IN DIRECTIONAL WELL DRILLING
Arthur L. Armentrout, Los Angeles, Calif.
Application April 4, 1941, Serial No. 386,851
3 Claims. (Cl. 255—1.6)



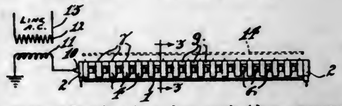
1. Well drilling apparatus for use on a tubular well drilling string comprising a curved tubular string section, an impact bit and means for operating the bit comprising an element on the bit, an element on said section, one element being a tubular body, the other a tubular mandrel shiftably and telescopically related to the body, a hammer mechanism in the body operable by telescopic movement of the elements to impact downward blows to the bit, and means for maintaining a lubricant bath in the body.

2,327,694
CYLINDER FOR OPPOSED-PISTON INTERNAL COMBUSTION ENGINES
Joseph Barraja-Frauenfelder, Upper Montclair, and Oscar G. Schrom, Montclair, N. J., assignors to American Locomotive Company, New York, N. Y., a corporation of New York
Application February 20, 1943, Serial No. 476,590
2 Claims. (Cl. 123—173)



1. An opposed-piston internal combustion engine power cylinder comprising a cylinder liner having external integral circumferentially-spaced heat transfer fins extending across the transverse center plane of the cylinder combustion chamber parallel to the axis of said liner, the liner in the spaces between said fins having its outer face at each side of said plane inclining inwardly toward said axis, said liner in said spaces thereby decreasing in thickness in a direction toward said plane and being of a minimum thickness substantially at said plane; and a jacket surrounding said liner, spaced therefrom at each end of said fins providing chambers and engaging said fins providing a sleeve therefor closing said spaces, the closed spaces providing passages connecting said chambers and said chambers being provided one with an inlet and the other with an outlet for the flow of a cooling fluid medium through said chambers and passages.

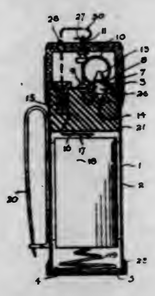
2,327,695
STATIC ELIMINATOR IN PRINTING
Theodore John Beregh, Patchogue, N. Y.
Application October 2, 1940, Serial No. 359,301
2 Claims. (Cl. 175—264)



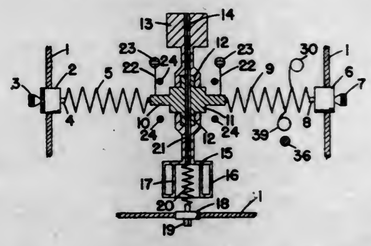
1. A static eliminator for printing operations, consisting of a gas filled high tension tube, a plurality of conducting bands positioned around the said high tension tube and in capacity relation thereto, a conducting discharge point adjacent each of the said bands and adapted to be placed in close proximity to a sheet or web of paper to be printed:

2,327,696
SAFETY LAMP
Gordon Norman Bishop, Vancouver, British Columbia, Canada
Application March 6, 1942, Serial No. 433,614
2 Claims. (Cl. 240—10.6)

2. In a lamp having a casing, a battery hermetically sealed within the casing, an open circuit including a bulb, said circuit having a terminal on one end of the casing and a flexible connector adapted to be connected together to close the circuit, an opaque cover for the casing enclosing the bulb, the terminal and a portion of the flexible connector, said cover having two apertures one of which is adapted for alignment with the terminal and the other being adapted to support the outer end of the flexible connector in exposed position.



2,327,697
GRAVITY METER
Frank G. Boucher, Tulsa, Okla., assignor to Standard Oil Development Company, a corporation of Delaware
Application February 7, 1941, Serial No. 377,816
3 Claims. (Cl. 265—1.4)



1. A gravity meter, comprising a moving system including a horizontally arranged body having a mass extending horizontally from one side thereof, torsional means normally holding said mass and said body in a horizontal position, means for applying a force to said mass through the center of gravity of said body, and means for resisting the effect of said force on said body arranged in the same horizontal plane as the force applying means.

2,327,698
POULTRY FEED COMPRISING WOOL
Joseph W. Creely, Oaklyn, and John A. Levering, Haddonfield, N. J., assignors to Eavenson & Levering Co., a corporation of New Jersey
No Drawing. Application June 6, 1942, Serial No. 446,136
3 Claims. (Cl. 99—4)

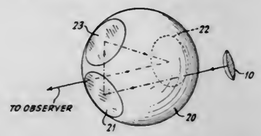
1. A poultry feed containing from 0.5% to 12% of short wool fibers obtained as waste fibers in a process of wool manufacture having an average length of not over ¼-inch, mixed with conventional feeding ingredients principally of vegetable origin.

2,327,699
CONDUCTOR SUPPORT
Thomas H. Dunn, St. Louis, Mo., assignor to The Ohio Brass Company
Application October 30, 1942, Serial No. 464,152
4 Claims. (Cl. 191—43)



3. A conductor support or ear comprising in combination, a supporting member and a longitudinal member forming a unit, the longitudinal member provided with lips forming a groove of uniform width to receive a trolley wire to guide a moving current collector, the lips being bendable onto the wire, the longitudinal member having two portions with the supporting member located in vertical alignment with the union of the two portions, the lips of one portion being of maximum thickness and depth for not less than half the length of the portion and then tapering to a minimum at the end of the ear whereby a current collector approaching the ear will ride onto the ear and any rebound of the current collector will be taken up by the lips having the maximum thickness and depth and the trolley wire protected from said rebound, the other portion of the longitudinal member extending from the supporting member to the end of the ear and the lips of said portion tapering in thickness and depth to a minimum at the end of the last said portion, whereby when the lips are bent onto the wire the current collector will contact and ride on the running surface of the wire a sufficient distance from the end of the ear so that the collector will pass onto the wire beyond the ear smoothly and without rebound to injure the wire and means associated with the ear to indicate the direction of installation of the ear upon the wire with reference to the direction of travel of the current collector.

2,327,700
OPTICAL IMAGE REVERSING AND/OR INVERTING SYSTEM
William C. Eddy, Chicago, Ill., assignor to Radio Corporation of America, a corporation of Delaware
Application July 23, 1941, Serial No. 403,653
4 Claims. (Cl. 88—1.5)

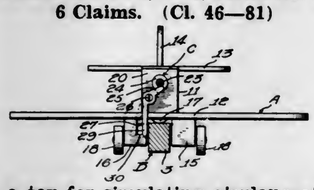


1. An optical device comprising a solid body formed as a solid of revolution, said body having a plurality of facets formed on the outer surface thereof, each of said facets being positioned in a predetermined angular relationship relative to each other and each formed as a planar surface of an area less than that of any section along a major axis of the solid, said solid also having a substantially planar surface through which entering light may be directed therein to impinge successively upon the light reflecting facets so as to reverse and invert the entering optical image rays, said spherical surface also having a planar surface at which a reversed and inverted image of the entering optical image is adapted to emerge.

2,327,701
PAINT AND VARNISH REMOVER COMPOSITION
Carleton Ellis, Montclair, N. J., Carleton Ellis, Jr. and Bertram Ellis and Bank of Montclair, executors of said Carleton Ellis, deceased, assignors to Chadeloid Chemical Company, a corporation of West Virginia
No Drawing. Application March 28, 1940, Serial No. 326,386
10 Claims. (Cl. 252—169)

1. A finish remover composition, substantially devoid of suspended inorganic substances insoluble therein, and adapted for softening old paint and varnish film preparatory to removal thereof, which remover comprises at least one volatile solvent selected from the group consisting of benzene, toluene, acetone, methyl ethyl ketone, methylene chloride, ethylene chloride, carbon tetrachloride, methyl alcohol, ethyl alcohol and ethyl acetote; and a solid substituted paraffin selected from the group consisting of solid nitrated paraffin wax and solid halogenated paraffin wax, solid nitrated scale wax, solid halogenated scale wax, solid nitrated sweater oil, solid halogenated sweater oil, solid nitrated heavy viscous liquid paraffin and solid halogenated heavy viscous liquid paraffins, the proportion of said solid substituted paraffin being not substantially less than 1% and being sufficient to form an evaporation-retarding film on the surface of said composition on exposure to the atmosphere, whereby further evaporation of the volatile solvent is retarded.

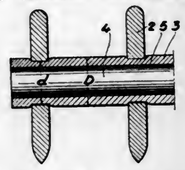
2,327,702
TOY FOR SIMULATING AIRPLANE ATTACKS
Robert C. Flynt, Winston Salem, N. C., assignor to Brown-Rogers-Dixson Co., Winston Salem, N. C., a corporation of North Carolina
Application March 2, 1943, Serial No. 477,740
6 Claims. (Cl. 46—81)



1. In a toy for simulating airplane attack, an airplane; means for directing the airplane to move along a predetermined path; a projectile mounted in the nose of the airplane; a projector tending to project said projectile forwardly from said nose; releasable means mounted on said airplane for holding said projectile against being so projected; and means mounted in the path of movement of said releasable means and engageable with said releasable means for operating the latter to effect releasing of said projectile.

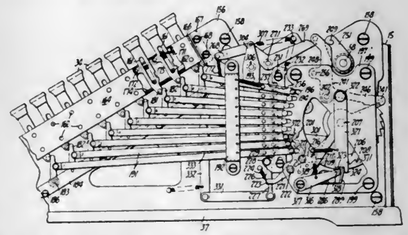
2,327,703
GUARD GRATING FOR TURBINE PLANTS
Carl Filip Fredén, Munkfors, Sweden
Application May 11, 1940, Serial No. 334,543
In Sweden May 11, 1939
5 Claims. (Cl. 210—169)

1. A guard grating for turbine plants, comprising grating irons and transverse irons to which the grating irons are fixed, said transverse irons consisting of relatively thick walled tubes passing through openings in the grating irons and spacing the latter one from the other, said tubes being provided with enlargements between the grating irons to retain the latter on the tubes, each tube having inserted therein elongated reinforcing



means elastically secured to the inner wall of the tube.

2,327,704
CALCULATING MACHINE
Carl M. F. Friden and James H. Gemmell, Oakland, Calif., assignors to Friden Calculating Machine Co., Inc., a corporation of California
Application October 27, 1936, Serial No. 107,806
9 Claims. (Cl. 235—441)



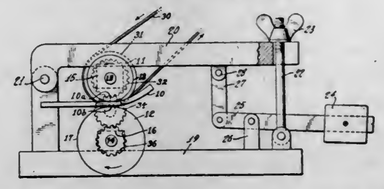
2. In a calculating machine having ordinally shiftable numeral wheels and cyclically operable actuating means therefor, automatic control mechanism for predetermining a selected number of cycles of operation of said actuating means, and selectively operable control means for said mechanism for determining a registration on said numeral wheels or for determining shifting of said numeral wheels by said operation of said actuating means.

5. In a calculating machine, numeral wheels, actuating means for said numeral wheels, a clutch for effecting cyclic operation of said actuating means from a source of power, a control member operable to control one or more complete cycles of movement of said clutch, means for controlling said control member to effect engagement of said clutch for one or more cycles of operation thereof, and booster means associated with said controlling means and brought into play during the last of said cycles for maintaining said control member in clutch engaging position for an additional cycle of operation.

2,327,705
LUBRICANT
Per K. Frolich, Westfield, and Henry B. Kellog, Union City, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application July 6, 1940, Serial No. 344,218
9 Claims. (Cl. 252—59)

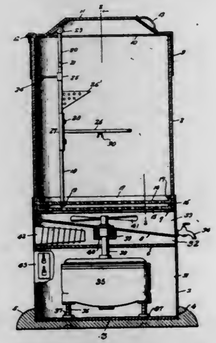
1. A lubricating oil composition comprising a petroleum lubricating oil containing in solution an interpolymer having a molecular weight above 2000 formed by the copolymerization of ethylene and another olefine at a pressure of at least 500 atmospheres and a temperature of 100° C. to 400° C., the interpolymer being added in sufficient amount to modify the viscosity index properties of the oil.

2,327,706
METHOD OF CURVING MATERIAL
Ralph T. Halstead, Somerville, N. J., assignor to Johns-Manville Corporation, New York, N. Y., a corporation of New York
Application May 9, 1941, Serial No. 392,747
4 Claims. (Cl. 18—56)



4. The method of developing a uniform curvature in a flat, thermo-setting fibro-cementitious sheet which consists in advancing the sheet in uncured brittle state through the bite between spaced, smooth-surfaced pressure rolls, simultaneously applying thereto a pressure of approximately 1,000 lbs. per linear inch of sheet width along the line of contact, simultaneously rotating the roll surfaces at substantially different peripheral speeds in the direction of movement of the sheet at the line of contact whereby one face of the sheet is uniformly stretched relatively to the other, thereby curving the sheet in the direction of the face having the lower rate of advance, and finally curing the curved sheet by application of heat and pressure.

2,327,707
STERILIZER
Leo A. Heintzelman, Grand Rapids, Mich.
Application December 22, 1942, Serial No. 469,829
4 Claims. (Cl. 21—91)

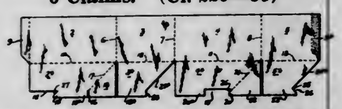


1. In a sterilizer for surgical instruments and the like, a container, means dividing the container transversely into motor, heater, agitator and sterilizing chambers, respectively, arranged one above the other in the order named, the agitator chamber having a perforated top establishing communication between said agitator chamber and the sterilizing chamber, and said agitator chamber and sterilizing chamber being adapted to contain sterilizing fluid, a motor in said motor chamber, an agitator in said agitator chamber to which the motor is operatively connected, an upwardly opening hinged lid for the top of the sterilizing chamber, and instrument supporting means in said sterilizing chamber, connected to said lid for lifting in a straight line under opening of said lid.

2,327,708
SAFETY MOTOR FUEL
Walter A. Herbst, Union, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application December 31, 1940, Serial No. 372,569
16 Claims. (Cl. 44—79)

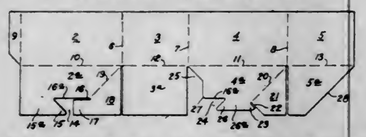
1. The method of controlling the inflammability in motor fuels for high-compression spark-ignition engines, which comprises blending from 0.5% to 5% by volume of a noninflammable organic halide boiling below the limit of about 60° C. (140° F.) with a hydrocarbon fraction boiling substantially in the gasoline boiling range having an end boiling point below 437° F. and having a closed-cup flash point less than 30 Fahrenheit degrees below the boiling point of said organic halide to raise the closed cup flash point of the blend to above 124° F.

2,327,709
BOTTOM STRUCTURE FOR FOLDING PAPER BOXES
Ross A. Himes, Oakland, Calif.
Application February 24, 1941, Serial No. 380,250
6 Claims. (Cl. 229—39)



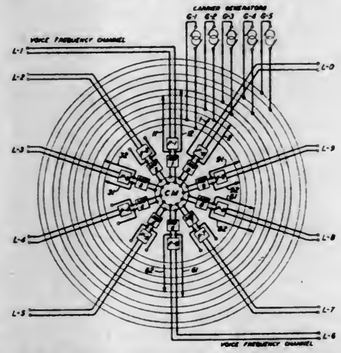
1. A folding paper box having foldably connected side and end walls, side bottom sections and end bottom sections foldably connected to the lower edges of the respective side and end walls and adapted to lie flat between the side and end walls when they are folded flat, a glue flap foldably connecting one side and one end bottom section, a second glue flap foldably connecting the other side and end bottom section, said foldable glue flaps being disposed between the side and end bottom sections which they connect, and assuming a folded position only in the open position of the box, said glue flaps automatically extending the bottom sections when the side and end walls are extended and directing the bottom sections to assume predetermined positions with relation to each other, and a lateral interlock between the bottom sections formed by a lug on one of the side bottom sections positioned to extend in under an interlock with a glue flap on the other side bottom section when the blank assumes box form.

2,327,710
BOTTOM STRUCTURE FOR FOLDING PAPER BOXES
Ross A. Himes, Oakland, Calif.
Application March 28, 1941, Serial No. 385,669
4 Claims. (Cl. 229—41)



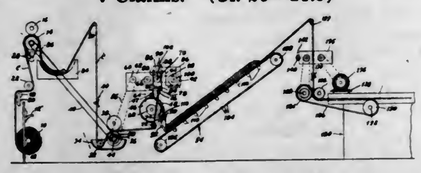
1. A box blank cut and creased to form a pair of side walls and a pair of end walls, said side and end walls being alternately foldably connected in end-to-end series, a side bottom section foldably connected to each side wall, an end bottom section foldably connected to each end wall, a glue flap connected by a diagonal crease line to each side bottom section, an extension on the outer free side of each side bottom section, each extension having an outer edge parallel to the fold lines connecting the side bottom sections with the side wall sections and one extension extending farther than the other, a pair of opposed lugs formed one in each end of the lesser extension, and a single lug formed on the inner end of the greater extension.

2,327,711
COMMUNICATION SYSTEM
William H. T. Holden, Woodside, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 31, 1941, Serial No. 417,323
4 Claims. (Cl. 179—15)



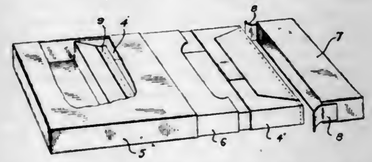
1. In a telephone system, a multichannel transmission medium, a plurality of two-way modulator-demodulator units connected to said medium, a plurality of carrier sources, and means connecting the same carrier source to any two of said units between which communication is desired, there being as many conversational channels possible at one time as there are carrier sources of different frequencies, the highest frequency of the carrier sources being less than twice the lowest frequency of the carrier sources and the spacing between carrier frequencies being not less than three times the voice band.

2,327,712
FABRIC FINISHING METHOD
Harold I. Huey, Saylesville, Horace G. Killam, Providence, and William W. Russell, East Providence, R. I., assignors to Sayles Finishing Plants, Inc., Saylesville, R. I., a corporation of Rhode Island
Application August 11, 1941, Serial No. 406,394
7 Claims. (Cl. 26—18.5)



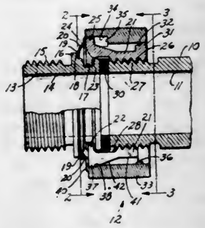
1. In a method of producing natural shrinkage in a continuous strip of cotton cloth and for maintaining such shrinkage in tentering, smoothing, drying and batching the cloth, while continuously advancing the cloth at substantially a uniform, high rate of speed, the steps which comprise: wetting out the cloth, squeezing the cloth to remove excess moisture, and relaxing the cloth in loosely folded condition while supporting the cloth between its selvages in a manner and for a sufficient time to produce substantially complete shrinkage of the cloth by swelling of its wet fibres, without drying the cloth; advancing the cloth between said squeezing and relaxing steps by carrying the strip about a horizontal axis at a rate timed to substantially equal the rate of squeeze to prevent the exertion of substantial longitudinal tension on the cloth; tentering the cloth and during the initial stages of the tentering carrying the cloth forwardly while supporting it between its selvages; pressing and ironing the cloth while advancing the cloth about a horizonal axis; timing the rate of tentering the cloth with relation to the rate of pressing and ironing to prevent the exertion of substantial longitudinal tension on the cloth advancing between said steps; and batching the cloth without exerting substantial longitudinal tension thereon.

2,327,713
ANTISTATIC PHOTOGRAPHIC PACKAGE
George Francis Hunter, Woodbridge, N. J., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application March 17, 1941, Serial No. 383,881
10 Claims. (Cl. 206—62)



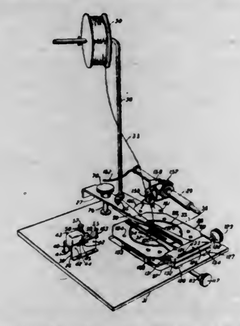
2. A package comprising a lightproof container, a sheet of photographic material in said container, said sheet being enclosed in an envelope comprising a fold of paper which covers said sheet on both surfaces and along one edge, said envelope being composed of a felted, lightproof, antistatic, flexible, wrapping paper, the inner surface strata of said paper being soft, nonabrasive, resilient, of reduced contact area and having a physical density relative to water as 1.00 of 0.60 to 0.70 and the outer surface being a lightproof paper strata of 0.80 to 0.90 in physical density.

2,327,714
COUPLING
William C. Iftiger, Sr., Santa Fe Springs, Calif.
Application June 4, 1940, Serial No. 338,776
5 Claims. (Cl. 285—150)



1. A coupling for connecting a first member with a second member, said second member being externally threaded, comprising: walls on said first member forming an external annular groove; a plurality of jaws internally threaded at their forward ends and having adjacent their rear ends inwardly directed flanges rotatably disposed in said groove; walls on said jaws forming an external annular groove and an outwardly directed flange at the forward end of each of said being adapted in its most forward position to rejaws; means resiliently urging said jaws radially inward; lugs projecting outwardly from said jaws; an axially movable collar surrounding said jaws and having slots therein in which said lugs are slideably disposed to permit axial movement of said collar relative to said jaws, said collar strict outward deflection of said jaws by engagement therewith at both forward and rear ends of said jaws; and walls forming on the interior surface of said collar a shoulder located forward of the rear engaging portions of said jaws acting as a stop to prevent rearward movement of the collar in the tightened condition of the coupling.

2,327,715
PUNCH DEVICE
William E. Ingerson, North Plainfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Original application May 8, 1941, Serial No. 392,505. Divided and this application March 5, 1942, Serial No. 433,475
4 Claims. (Cl. 164—86)

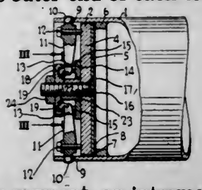


1. A punch device comprising a plate, a punch head, a plunger type punch and die, mounted in said punch head, adapted to be used in cooperation to punch out a disc from sheet material, a receptacle provided in said plate to receive the disc, said receptacle being of such form and dimensions that it will hold the disc in a required precise position in said plate and said punch head being movable along said plate to carry said punch and die into and out of registry position relative to said receptacle.

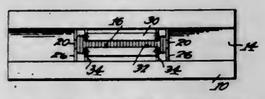
2,327,716
CLOSURE
George T. Jacocks, New Rochelle, N. Y., assignor to Heat Transfer Products, Inc., New York, N. Y., a corporation of New York
Application February 11, 1941, Serial No. 378,385
3 Claims. (Cl. 220—57)

1. A closure for a hollow vessel of the type wherein an abutment for a head is provided on the vessel and the vessel side wall, formed with an orifice, and serving as a stress member in forcing the head against the abutment, the combination of a plurality of levers disposed radially of the head, each lever being formed with a substantially convex spherical surface on its

outer end, ring segments, each formed on the inner surface with a spherical concavity, one positioned in each orifice of the sidewall and serving to transmit stress on the levers to the vessel wall, the outer end of each lever cooperating with a ring segment, an intermediate portion of the lever cooperating with the head in compression adjacent the abutment and the inner end of the lever cooperating with the head in tension adjacent its geometrical center.

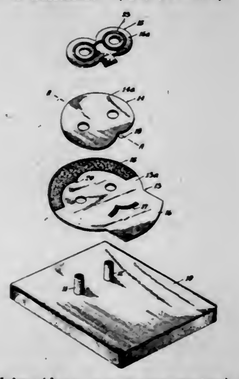


2,327,717
SKATE SHARPENER
Gustav Russell Johnson, East Providence, R. I.
Application December 8, 1941, Serial No. 422,120
5 Claims. (Cl. 76—83)



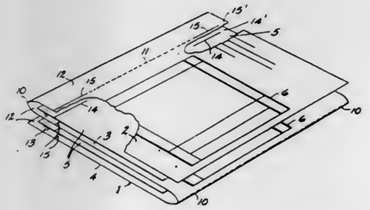
1. In a device of the class described, a handle, a generally cylindrical sharpening element, a U-shaped frame member, bearings in the legs of said member for rotatably mounting said element, a second U-shaped frame member extending oppositely to the first named member and embodying a blade guide, the legs of said second member extending through a portion of the first named member and penetrating the handle to hold both frame members and the cutter thereto.

2,327,718
TOY
Kenneth S. Kassler, Princeton, N. J.
Application October 3, 1942, Serial No. 460,588
4 Claims. (Cl. 35—28)



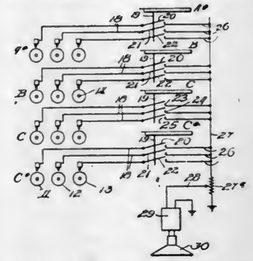
1. In combination, an amusement device comprising a plurality of separable pieces which when assembled one above another produce a figure, each of said pieces having a contour and design elements peculiar to a portion of the figure, and means engageable with said pieces for determining their proper registry with respect to each other, said engaging means comprising pegs upstanding from the lower of said pieces and providing salient features to the figure so that the assembled pieces and pegs will bear a significant relationship to each other and produce a figure.

2,327,719
MANIFOLDING ASSEMBLY
James Gordon Kerr, Washington, D. C., assignor to Gilman Fanfold Corporation, Niagara Falls, N. Y., a corporation of Delaware
Original application March 7, 1941, Serial No. 382,120. Divided and this application June 2, 1942, Serial No. 446,997
5 Claims. (Cl. 282—11.5)



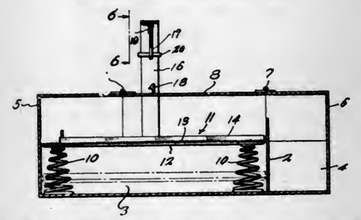
4. In a manifolding assembly, in combination, long continuous record and transfer strips superposed in transfer relation and having longitudinally spaced transverse weakened severance lines providing for severance of the assembly into leaves or form lengths and forming leaf sets of record and transfer leaves, attaching means attaching the record and transfer strips together along a longitudinal marginal portion of the assembly and forming a longitudinal binding for the strips, longitudinal weakened severance lines in the respective record strips substantially coterminous with the assembly and extending over marginal end portions of the respective record leaves adjacent to the said transverse weakened severance lines, said longitudinal severance lines extending along the assembly adjacent to said longitudinal binding and providing for severance of the record leaves of each said set from the binding, said longitudinal weakened lines having elongated slits extending through the strips and positioned at marginal end portions of the respective record leaves, said transfer strip or strips having elongated longitudinal slits extending therethrough and positioned only at respective marginal end portions of the said transfer leaves and extending along and adjacent to said binding and providing for partial separation of the respective transfer leaves from the binding, said elongated transfer strip slits being longitudinally spaced apart so as to leave an elongated integral attaching strip section for the transfer strip at each leaf set for permanently attaching each transfer leaf to said binding, said elongated slits of the transfer strip extending a substantial distance along marginal end portions of the respective leaf sets and being positioned respectively adjacent to said transverse weakened severance lines of the record strips and adjacent and substantially parallel to the said elongated slits thereof, whereby marginal end portions of overlying record and transfer leaves may be readily separated from the binding and turned backwardly when in a writing machine to expose an underlying record leaf for the purpose of making erasures or corrections of the inscriptions made thereon.

2,327,720
MUSICAL INSTRUMENT
James A. Koehl, Chicago, Ill., assignor to Central Commercial Company, Chicago, Ill., a corporation of Illinois
Application December 12, 1941, Serial No. 422,732
21 Claims. (Cl. 84—1.01)



1. In an electrical musical instrument employing a keyboard, the playing keys of which are each thereof provided with a set of electric switches, sources electrically connected with assigned switches of the sets of switches of different playing keys, said sources electrically generating for each individual playing key a series of waveforms of electrical oscillations of audible frequency corresponding to tones of different timbre and of pitches, all of which are the same as that of the note associated with said key, and a system of stops for controlling conduction to a load circuit of waveforms of oscillations from selected oscillation sources, said system of stops comprising a set of actuators for corresponding switches of the aforementioned sets of switches of the respective playing keys for open circuiting and thereby rendering said switches electrically inactive upon depression of said keys.

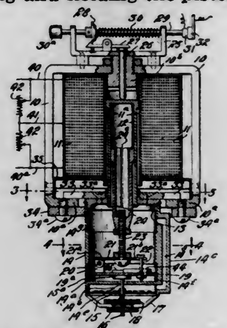
2,327,721
STERILIZER
George J. Konucik, Norfolk, Va.
Application July 7, 1942, Serial No. 450,051
3 Claims. (Cl. 21—87)



1. A sterilizer comprising a container including communicating compartments for the reception of a disinfecting solution and a fume emitting medium, a yieldingly supported article supporting tray mounted for vertical movement in the solution compartment, and means for releasably securing the tray in lowered position.

2,327,722
DASHPOT
Haroutium K. Kouyoumjian, Wakefield, R. I., assignor to Ward Leonard Electric Company, a corporation of New York
Original application March 12, 1940, Serial No. 323,584. Divided and this application November 27, 1940, Serial No. 367,419
1 Claim. (Cl. 188—96)

A dashpot comprising an enclosing cylindrical body portion, a piston within said body portion, a movable element for raising the piston from its normal lowest position to an upper position, said piston being in the form of a plate and having a pivotal connection with said element, and means connecting said piston and said element for restraining and holding the piston in a plane

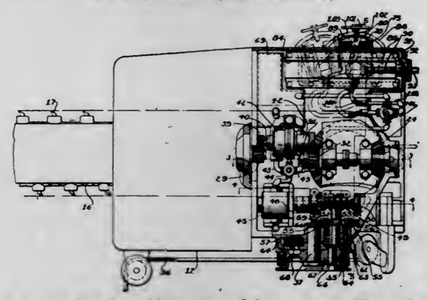


at right-angles to the axis of the body portion in the normal lowest position of the piston and during any upward movement of the piston and for permitting free movement of the piston on its pivot to a position inclined to the axis of the body portion during downward movement of the piston.

2,327,723
MANUFACTURE OF MIRRORS
Andrew Levaggi, Dubuque, Iowa
No Drawing. Application September 7, 1940, Serial No. 355,815
3 Claims. (Cl. 117—35)

1. The process of silver coating glass to form a mirror which comprises coating the surface of the glass with a silver depositing solution, applying by radiation infrared rays from an electric lamp source directly against the surface of said solution for a period of from about five and one-half to seven and one-half minutes, and controlling the intensity and duration of the rays by positioning the source thereof so that continued penetration of the rays to the depth of the solution is effected during their period of application.

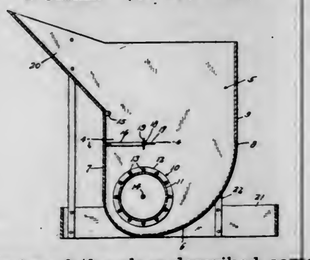
2,327,724
KERF-CUTTING MACHINE
Frank A. Lindgren, Western Springs, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application December 30, 1940, Serial No. 372,304
10 Claims. (Cl. 262—30)



1. In a kerf-cutting machine, a winding drum having a flexible feeding member adapted to be

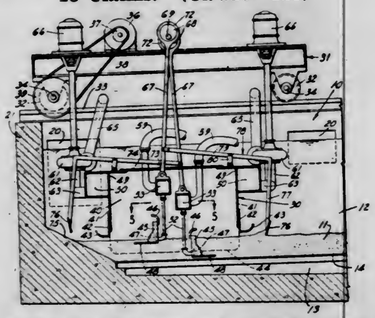
wound thereon for feeding said kerf-cutting machine across a coal face, and means for retarding forward travel of the rear end of said kerf-cutting machine during cutting across a coal face including a rotatable retarding member adapted to have engagement with the ground, and means for restraining rotation of said retarding member.

2,327,725
SELF-FEEDING EXTRUDER
Lon London, Burley, Idaho
Application June 16, 1942, Serial No. 447,297
1 Claim. (Cl. 146—174)
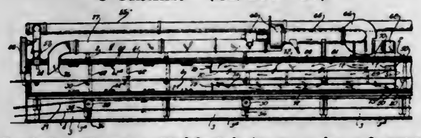


An extruder of the class described comprising a bin-like structure provided with a porous bottom wall, an extruding roll mounted within the lower portion of the bin-like structure and toward one side wall thereof, said one side wall being provided with an adjustable panel hingedly secured at its upper portion to the bin-like structure, said panel being provided with ears at its end portions, a link member for each ear, each of said link members being pivotally secured to the corresponding ear, and being apertured at its opposite end, said bin-like structure including end walls formed with substantially horizontal slots, and detent elements disposed through the openings in the link members and through the slots and being adapted to be clamped against the said end walls to hold the link members and the panel in definitely adjusted relation with respect to the roll.

2,327,726
FILTER BED CLEANING
Charles Lose, Jr., Cranford, N. J.
Application June 6, 1940, Serial No. 339,044
13 Claims. (Cl. 210—128)



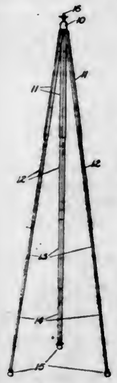
1. A filter bed cleaner adapted for movement in either of two opposite directions over a filter bed of granular material immersed between the influent liquid and the filtrate, comprising a caisson having at its bottom an open mouth close to the surface of said bed, means carried by said cleaner for cleaning the material beneath the caisson during movement of the cleaner in either of said opposite directions, reversible means for driving said cleaner in said opposite directions, two scrapers carried by said cleaner at opposite ends of the caisson and spaced therefrom, the scraper at the front of the caisson in its movement in either direction being raised above the top of the filter bed and the scraper at the rear being in lowered position to smooth the bed behind the caisson and means controlled by said reversible means when it reverses to lower the raised scraper to effective position and to raise the lowered scraper to ineffective position.

2,327,727
BAKER'S BAND OVEN
Kenneth D. Loose, Bronxville, N. Y., and Charles W. Watkins, Dayton, Ohio, assignors to Loose-Wiles Biscuit Company, a corporation of New York
Application July 19, 1940, Serial No. 346,304
8 Claims. (Cl. 107—57)



3. A band oven divided into a series of successive compartments each having a combustion system for circulating hot combustion products from an exterior source through an inlet at one end thereof and out of an outlet at the other end, the walls of such compartments being of material of low thermal capacity as compared to ordinary building brick or metal-lined walls and the direction of flow of said products through said compartments being longitudinal thereof and at high velocity to cause the transfer of heat to the goods on the band to occur mainly by convection and least by radiation.

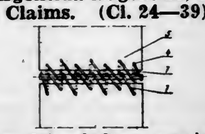
2,327,728
TRIPOD AND OTHER CONSTRUCTIONS
Willis Henry Machin, Middlebury, Conn., assignor, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
Application October 31, 1941, Serial No. 417,371
5 Claims. (Cl. 248—191)



3. A tripod having a head and a plurality of extendable legs attached to said head, each leg having at least two tubular sections one of which is slidable longitudinally within the other, the

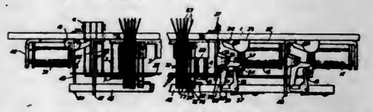
outer section including an end portion of reduced cross section with a sloping internal shoulder at the point where said cross section changes, the inner section fitting closely within said reduced portion and being slidably carried thereby, said inner section having an end portion of enlarged cross section fitting closely within the unreduced portion of the outer section and being slidably supported thereby, said inner section having a correspondingly sloping external shoulder at the point where its cross section changes, a tongue struck inwardly from the sloping internal shoulder of the outer section, a second tongue struck outwardly from the sloping external shoulder of the inner section, said tongues abutting each other and forming a stop limiting the extension of said inner section from the outer section before said sloping shoulders can engage each other.

2,327,729
WIRE BELT JOINT
Emilio Maier, Ramos Mejia, Argentina
Application September 8, 1939, Serial No. 293,931
In Argentina August 10, 1938
2 Claims. (Cl. 24—39)



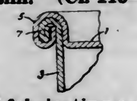
2. A joint for drive belts comprising the combination with a pair of belt ends having a series of longitudinal grooves extending along the wheel-engaging side thereof, of a pair of spiral coils forming a series of loops passing through each of the ridges formed by the grooves in said belt ends, means for hingedly interlocking said opposing sets of loops, said spiral coils being so formed that the convolutions on the grooved side of said belt ends extend longitudinally upon the ridges formed by said grooves and on the other side extend diagonally across the belt ends, the convolutions of one spiral running substantially parallel to the convolutions on the opposing spiral.

2,327,730
SWITCHING MECHANISM
Rudolph F. Mallina, Hastings on Hudson, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 12, 1941, Serial No. 402,224
10 Claims. (Cl. 179—27.54)



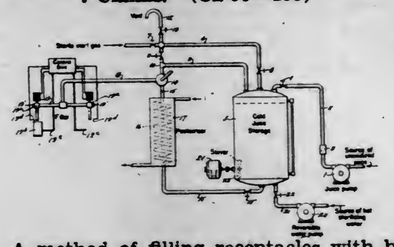
1. In a switching device, a select bar, a plurality of code bars having slots therein, a series of select fingers tensioned only against said select bar, a set of contacts associated with each finger, means for shifting said select bar, means for shifting said code bars, the slots in said code bars being so arranged that the shifting of any combination of said bars aligns the slots for the subsequent free entry therein of a corresponding finger and the select bar being so shaped that on the subsequent shifting thereof, the selected finger is released and enters into the aligned slots, and means thereafter operative through the medium of said finger for causing the actuation of the associated contacts.

2,327,731
METHOD OF FABRICATING METAL DRUMS
Archie W. McClary, Oakland, Calif.
Application June 24, 1940, Serial No. 342,051
1 Claim. (Cl. 113—120)



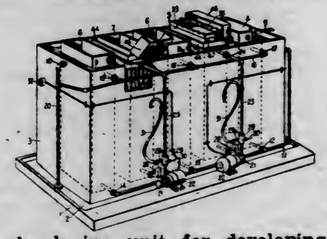
The method of fabricating a container of sheet metal material, comprising telescoping a cylindrical head sheet into a cylindrical wall sheet, with rim portions of each in substantial contact throughout the extent of said rim portions, welding said rim portions along a substantially continuous path around said rim portions and in so doing, heating said path material to a temperature rendering the material along said path readily flowable under pressure, and folding said rim portions during such condition of said path material to an angle of the order of 90° or more to permit any necessary relative movement between unwelded sections of said rim portions during folding.

2,327,732
FILLING METHOD
Ronald B. McKinnis, Winter Haven, Fla., assignor, by mesne assignments, to Ronald B. McKinnis, doing business as McKinnis Foods, Winter Haven, Fla.
Application March 12, 1941, Serial No. 383,041
7 Claims. (Cl. 99—155)



1. A method of filling receptacles with heated liquids which are subject to oxidation and bacterial contamination comprising storing a a cold liquid under a super-atmospheric pressure of inert gas, forcing the liquid to a heating step by the pressure head of the gas, and intermittently withdrawing the liquid from the heating step into receptacles while maintaining a constant volume of liquid between the heating step and the receptacles to prevent cooking of the liquid.

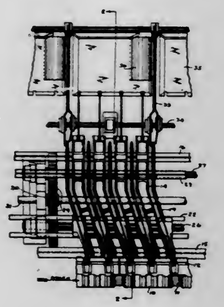
2,327,733
FILM DEVELOPING TANK
Walter B. Moore, Coshocton, Ohio
Application December 14, 1939, Serial No. 309,221
2 Claims. (Cl. 95—89)



1. A developing unit for developing photo-

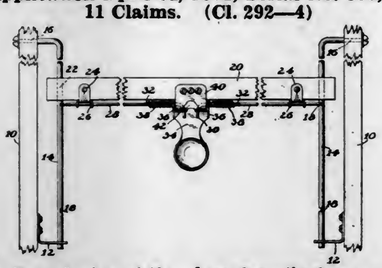
graphic film comprising a series of tanks in which the film is adapted to be successively disposed, a large tank surrounding all of the first-named tanks, all of said tanks being in spaced relationship, the larger tank being adapted to receive water or other liquids to maintain the smaller tank at a predetermined temperature, a pump disposed outside of said large tank and connected to one of said small tanks, the body portion of said one of said small tanks being provided with a series of small spaced inlets on the opposite sides of the tank at the upper end thereof, said film being supported transversely relative to the sides having inlets formed therein, said body portion being provided with an outlet adjacent its lower end but spaced above the lower end, means for driving said pump so that the liquid will be forced through the inlets in the body portion of the tank and will be withdrawn simultaneously from the outlet disposed at the lower end of the tank so as to circulate the liquid downwardly past the film disposed in the tank, and an overflow channel member disposed in surrounding relationship to the upper outer edge of said body portion of the small tank, said body portion having a plurality of spaced openings formed in the wall thereof at the bottom of the channel member so that the liquid dripping into said channel member will be returned to said body portion of the small tank.

2,327,734
COOLING BED
Myles Morgan, Worcester, Mass., assignor to Morgan Construction Company, Worcester, Mass., a corporation of Massachusetts
Application June 20, 1940, Serial No. 341,532
1 Claim. (Cl. 80—42)



A cooling bed for hot metal bars comprising a series of stationary parallel generally horizontal racks provided with notches in their upper surfaces arranged to support the bars substantially horizontally with the bars extending across the racks and at oblique angles therewith, a series of movable racks located between the stationary racks and parallel therewith, the movable racks having notches in their upper surfaces, and means to actuate the movable racks in such a manner as to advance the bars along the stationary racks from one set of notches to another with a step-by-step movement in a direction at right angles with the bars and at oblique angles with the movable racks and the stationary racks, whereby different points on the bars will be in contact with the stationary racks after each such advancing step.

2,327,735
TRIP LOCK
Herbert W. Neunherz, Gardner, Mass.
Application April 24, 1941, Serial No. 390,153
11 Claims. (Cl. 292—4)



4. In a device of the class described, a support, a U-shaped bracket depending therefrom, a rod journaled in said bracket and having an angular projection, a cam on said bracket extending from between its legs angularly partly across one leg in a direction away from said rod, means continually urging said projection against said cam, and means to slide said projection over said cam to thereby move said rod in a direction against the action of said urging means.

2,327,736
GOLF BAG SUPPORT
Ernest W. Pearson, Middletown, Conn.
Application April 13, 1942, Serial No. 438,701
3 Claims. (Cl. 248—96)

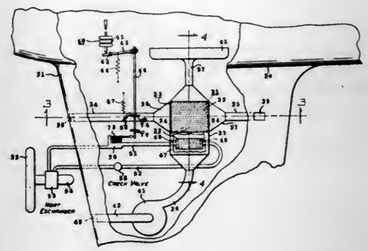


3. A golf bag support comprising a supporting bar formed of flat stock with offset ends formed into round pintles providing shoulders, uprights having holes at their upper ends for placement on said pintles over the ends thereof, a retaining bar having holes at its opposite ends distanced to substantially the same amount as said pintles and movable to position on said uprights over the lower ends thereof to a position near said supporting bar to prevent separation of said uprights and thereby retain them in position on said supporting bar and against said shoulders to prevent said uprights from movement toward each other, and a strut having holes to receive said uprights and movable over the latter from the lower ends thereof and positioned between said retaining bar and the bottoms of the uprights for spaced support of the latter.

2,327,737
AIR CONDITIONING APPARATUS
Thomas S. Pendergast, Marion, Ohio, assignor to Universal Cooler Corporation, a corporation of Michigan
Application March 5, 1941, Serial No. 381,834
5 Claims. (Cl. 244—118)

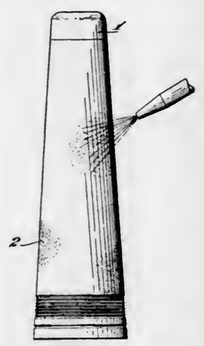
1. In combination, an aircraft having a cabin

and a hollow section; a heat exchanger in said section and having a passage therethrough and an air inlet and an air outlet; duct means passing through the hollow section and heat exchanger; duct means forming another passage through the heat exchanger separate from the first mentioned passage, said second mentioned duct means leading from the exterior of the air-



plane to the interior of the cabin; compressing means for forcing air through the second mentioned passage and into the interior of the cabin; a second heat exchanger in the second mentioned passage; and means responsive to the temperature within the cabin for controlling the rate of heat exchange between the second heat exchanger and the air passing through the second mentioned passage.

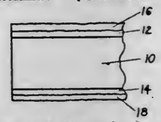
2,327,738
TEXTILE CORE
Eugene L. Perry, Bloomfield, N. J., assignor to Universal Winding Company, Cranston, R. I., a corporation of Massachusetts
Application March 13, 1942, Serial No. 434,560
6 Claims. (Cl. 242—122)



4. A textile core having an integument firmly adhering thereto and constituting a winding surface, said integument consisting essentially of a material composed of 1 part film-forming ingredients and approximately 2 parts filler, said film-forming ingredients having the following composition:

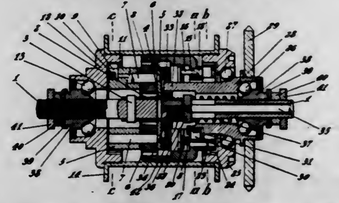
	Per cent
Chlorinated rubber	13
Cellulose aceto-butyrate	26
Urea-formaldehyde butanol	13
Diethylene glycol diabietate	43
Oil modified alkyd resin	5

2,327,739
SELENIUM RECTIFIER
Carl E. Peters, St. Louis, Mo., assignor to B-L Electric Company, St. Louis, Mo., a corporation of Missouri
Application May 14, 1942, Serial No. 442,984
5 Claims. (Cl. 175—366)



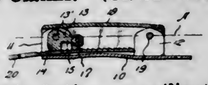
1. The method of forming a base plate for selenium rectifiers so it will have a layer of selenium on two of the opposed surfaces thereof, that comprises the heating of the base plate until the base plate is hot enough to melt selenium rubbed against the opposed surfaces thereof but it is cool enough so the molten selenium will adhere to and solidify on the opposed surfaces, rubbing a stick of selenium against one of the said opposed surfaces of the heated base plate to form a thin coating of selenium on that surface, subsequently rubbing said stick of selenium against the other of the opposed surfaces, and subjecting the base plate to pressure to flatten out any projections thereon.

2,327,740
CHANGE SPEED GEAR FOR THREE GRADUATED SPEED RATIOS
Pierre Pfister, Sonceboz, Switzerland
Application February 17, 1942, Serial No. 431,227
In Switzerland March 21, 1941
2 Claims. (Cl. 74—280)



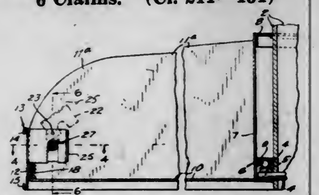
1. Change speed gear for three graduated speed ratios comprising a rigid axle, a driving wheel rotatable thereabout, a planetary gear driven by said driving wheel and revolving round said axle, three ratchet gears constituting respective rotary connections, the first one thereof between the pinion support of said planetary gear and the mechanism to be driven, the second one between said driving wheel and the internally toothed wheel of said planetary gear, the third one between said internally toothed planetary wheel and the mechanism to be driven, each ratchet gear having two pivotally mounted pawls, the outer ends of which are engaged, under the effect of springs, in the toothing of the co-ordinate ratchet wheel, an annular disk reciprocatable along said rigid axle, two pins fixed in said disk and projecting with canted ends towards the pawls of the third cited ratchet gear, so as to lift said pawls out of engagement upon movement of said disk against the action of restoring springs, and a controlling organ reciprocatably mounted upon said rigid axle and adapted to put said disk and pins in disengaging position, said controlling organ being provided to take two further predetermined positions, so as to connect the driving wheel for rotation with said pinion support of the planetary gear and with said internally toothed wheel of the same, respectively.

2,327,741
BUCKLE
Asby Tom Poole, Greybull, Wyo.
Application August 22, 1942, Serial No. 455,801
2 Claims. (Cl. 24—170)



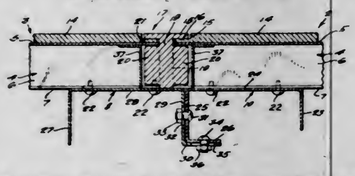
2. A buckle including a resilient base having an intermediate bowed portion, a gripping cam pivoted at one end of the base, an operating lever therefor pivoted at the opposite end of the base, and a slot and pin connection between the cam, lever and base, whereby the bowed portion of the base is flexed and tensioned as the cam is moved into gripping position, to effectively hold the cam against movement while in use.

2,327,742
BIN
Philip Rosenberg, New York, N. Y.
Application January 12, 1942, Serial No. 426,403
6 Claims. (Cl. 211—131)



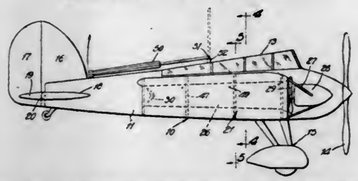
1. A bin including, in combination, a bin floor member having an upstanding peripherally extending flange, a series of vertically disposed dividers that extend toward the center of the floor member for separating the bin into a plurality of sector-like compartments, means providing projections at opposite sides of each divider near the outer end thereof, wall members each forming the outer boundary of one of the sector-like compartments, each such wall member being coextensive in length with the outer boundary of one of the compartments, and formed to fit upon the peripherally extending flange of the floor member, each such wall member including at each end thereof an inturned ear having a downwardly opening slot for receiving a portion of the projection at one side of an adjacent divider, and a slotted latch pivotally mounted on the ear and rotatable into embracing relation to the projection embraced by the ear with the latch slot extending substantially at right angles to the ear slot.

2,327,743
SECTIONAL TABLE
Philip Rosenberg, New York, N. Y.
Application March 5, 1942, Serial No. 433,453
3 Claims. (Cl. 311—4)



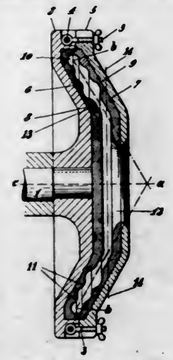
1. A joint bar, adapted for use between the sections of a sectional table of which each section has a sheet metal top and a surface sheet of non-metallic material shouldered to provide a portion of reduced thickness at the end, said joint bar including head portions adapted to overlie the reduced end portions of the surface sheets, and body portions adapted to project beneath the sheet metal tops of the table sections, said head and body portions being separated by slots of fixed width, each of appropriate width to embrace and fit the sheet metal top together with the reduced end of the surface sheet of a table section.

2,327,744
SAFETY AIRPLANE
Jay Lawrence Seat, Portland, Conn.
Application September 4, 1941, Serial No. 409,599
3 Claims. (Cl. 244—15)



1. In an airplane having a fuselage provided with elevator rudders at the rear end thereof, air tunnels disposed at the sides of the fuselage and extending lengthwise thereof, each of said air tunnels comprising a bottom wall, a top wall, and opposed side walls extending the length thereof, said air tunnels having their rear ends terminating short of the respective elevator rudders but in alinement therewith, motor driven push propellers mounted at the front ends of the air tunnels for producing air streams of relatively high velocity through said air tunnels in a front to rear direction, and air deflector means at the rear ends of the air tunnels for selectively directing the air streams leaving the tunnels to a plane above or below the elevator rudders to act thereagainst when the elevator rudders are swung to their up or down positions.

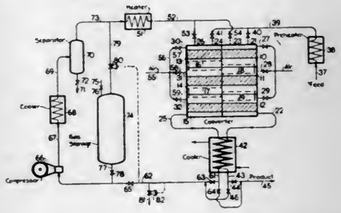
2,327,745
ROTARY CASTING
Edwin Schütz, Baden, Switzerland, assignor to Aktiengesellschaft Oederlin & Co., Baden, Switzerland
Application September 27, 1941, Serial No. 412,585
In Switzerland August 20, 1940
2 Claims. (Cl. 22—65)



1. A rotatable mould for casting several coreless rings by centrifugal action comprising an annular cavity therein consisting of a number of continuously communicated coaxial chambers for generating a corresponding number of rings

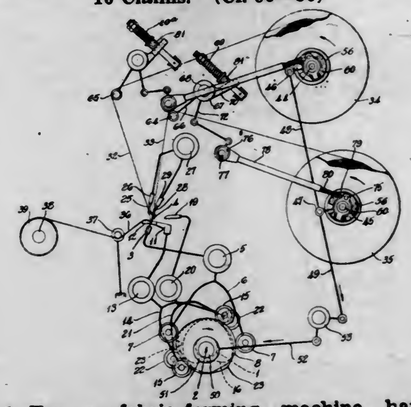
in one casting piece, said cavity presenting constrictions at the places of transition from one chamber to the next one, the circular center lines of said chambers being located on the surface of a rotary cone coaxial with the axis of rotation of the mould, and a pouring gate for the molten metal communicating on the whole circular length with the chamber, the center line of which has the smallest diameter.

2,327,746
PROCESS AND APPARATUS FOR CATALYTIC CONVERSION
Irving I. Shultz, Los Angeles, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application March 3, 1941, Serial No. 381,486
8 Claims. (Cl. 196—52)



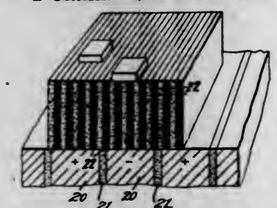
1. In a hydrocarbon treatment or conversion in which a converter providing two contiguous reaction zones each containing a plurality of beds of contact mass is employed, the said contact mass in each reaction zone being alternately on-stream to effect the desired hydrocarbon conversion and in regeneration to effect the removal of deposits of contaminants by combustion, one of said reaction zones undergoing regeneration while the other is on-stream, said on-stream reaction being an endothermic reaction and said regeneration being an exothermic reaction carried out at a higher temperature than the on-stream reaction, the combination of steps comprising passing hydrocarbon vapors under reaction conditions through one of said reaction zones, cycling an inert regenerating gas at elevated temperature through the contiguous reaction zone in which the contact mass is contaminated with combustible deposits from a previous on-stream operation, introducing air into said regenerating gas just prior to its contact with each successive bed of contact mass to burn said deposits therefrom, withdrawing partially converted vapors from the on-stream reaction zone at points between successive beds of said contact mass, passing said partially converted hydrocarbons through indirect heat exchanging means positioned within the reaction zone undergoing regeneration thereby adding heat to said partially converted hydrocarbons by indirect heat exchange with hot regenerating fluid, returning the heated partially converted hydrocarbons to the on-stream reaction zone to contact the subsequent bed of contact mass, simultaneously withdrawing regenerating fluid comprising products of regeneration from the reaction zone undergoing regeneration after passage through each of said beds of contact mass therein, passing said regenerating fluid through indirect heat exchanging means positioned within the on-stream reaction zone to partially cool said regenerating fluid by indirect heat exchange with hydrocarbon vapors, and returning the partially cooled regenerating fluid to the reaction zone undergoing regeneration to contact the subsequent bed of contact mass.

2,327,747
THREAD AND YARN FEEDER
Julius Sirmay, Philadelphia, Pa., assignor to Jacquard Knitting Machine Co., Inc., Philadelphia, Pa., a corporation of New York
Application August 2, 1940, Serial No. 349,580
16 Claims. (Cl. 66—86)



1. For a fabric-forming machine having fabric-forming instrumentalities and a spool to supply yarn thereto, a driven device coupled in a fixed relation to said spool, a driving device, an element engageable with both said driven device and said driving device through which the driving device drives said driven device and therewith the spool, a member over which the yarn passes out of a straight line path between the spool and the fabric-forming instrumentalities, said member being movable as the length of the yarn between the spool and said instrumentalities changes, and means connecting said member to said element through which the position of said member determines the action of the element.

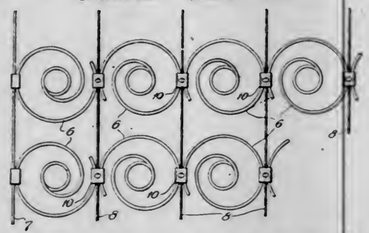
2,327,748
UNIVERSAL WORK-HOLDING PLATE FOR MAGNETIC CHUCKS
Clayton O. Smith, Worcester, Mass., assignor to O. S. Walker Co. Inc., Worcester, Mass., a corporation of Massachusetts
Application April 24, 1941, Serial No. 390,154
1 Claim. (Cl. 175—367)



The combination with a magnetic chuck having at least two parallel and relatively wide poles separated by a relatively narrow non-magnetic space, of an adapter plate comprising a plurality of ferro-magnetic strips fixed together and spaced by alternate non-magnetic strips, said strips being parallel with said space and all being of smaller width, said width being slightly smaller than the width of the non-magnetic space in the chuck, all said strips having their edges aligned to form continuous plane top and bottom surfaces for the plate, the widths of the strips being such, relative to the width of the chuck poles, that four or more

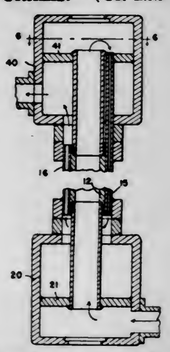
of the ferro-magnetic strips contact each chuck pole, and the thickness of the plate in a vertical direction being at least seven times greater than the width of any of the strips.

2,327,749
CABLE TIED SPRING UNITS
Huot Walter Sternberg, Westport, Conn., assignor to The Owen Silent Spring Company, Inc., Bridgeport, Conn., a corporation of Connecticut
Application September 20, 1940, Serial No. 357,542
3 Claims. (Cl. 5—267)



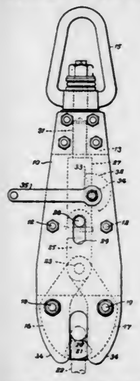
3. In a spring cushion comprising parallel rows of helical wire springs, cable ties interposed between adjacent portions of the terminal convolutions of adjacent springs of adjacent rows, said ties being of shorter diameter than the diameter of the wire stock from which the springs are formed, and clips surrounding said ties and said portions of said springs and secured to said ties and said portions of said springs by indentations impressed in the portions of the clips overlying the outer faces of said ties, producing projections in frictional wedging engagement with said portions of said springs and in compression engagement with said ties, flattening and spreading said ties into frictional engagement with said portions of said springs.

2,327,750
SUPERHEATING FLASH BOILER
Charles S. Turner, Detroit, Mich., assignor to The Detroit Edison Company, Detroit, Mich., a corporation of New York
Application August 2, 1940, Serial No. 349,660
10 Claims. (Cl. 122—235)



5. In combination with a fluid supply source, a combustion chamber and a source of radiant heat, vaporizing and superheating means for the fluid comprising a plurality of multi-tube elements arranged at an angle to the horizontal within the zone of radiant heating, each element comprising metallically integral fluid and superheating tubes, fluid supply headers connected to some of the tubes and vapor transfer headers connected to the remainder of the tubes at one end of said elements, transfer headers connected to some of the tubes and offtake header means connected to the remainder of the tubes at other ends of said elements, and regulable means for supplying fluid to the lower ends of said fluid tubes at a rate not exceeding the rate of vaporization.

2,327,751
HOOK COUPLING
George Rodham Unthank, New Southgate, London, and Henry Arthur John Silley, London, England
Application November 6, 1942, Serial No. 464,752
In Great Britain November 20, 1941
6 Claims. (Cl. 294—83)

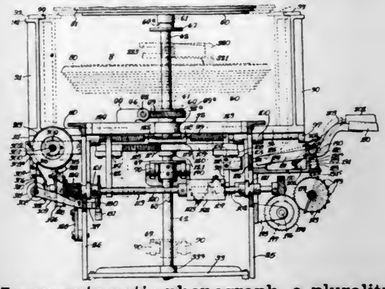


1. A hook coupling of the kind specified including a coupling body bearing a shackle at one end, a pair of hooks pivoted on the body near its other end and arranged to overlap one another in the closed position to form a part of a ring for engagement with an eye of a load, the working ends of said hooks being so shaped that they tend to move into the open position under the pull of the load, a member mounted for limited movement within said coupling body, two links respectively connecting said hooks with said movable member for maintaining said hooks closed when said movable member is in a position such that the load imposes through said links a force capable of displacing said movable member in one sense, a movable detent for retaining said movable member against such displacement, and control means for releasing said detent and thereby permitting said displacement of the movable member as the load opens said hooks.

2,327,752
PLASTIC PUTTYLIKE ASPHALT COMPOSITION AND PROCESS OF MAKING SAME
Jacob van den Berge, Amsterdam, Netherlands, assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application February 9, 1940, Serial No. 318,179. In the Netherlands March 20, 1939
5 Claims. (Cl. 106—281)

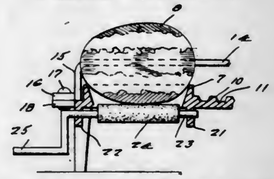
4. The process of making an asphaltic plastic putty-like composition suitable for use in sealing joints and the like comprising blending while hot with a melted complete blown asphalt a sufficient quantity of a viscous paraffinic petroleum oil to produce a binder having a penetration at 25° C. exceeding 50 and a penetration index equal to at least +7, and incorporating a filler into said binder prior to cooling it and while it is still liquid.

2,327,753
AUTOMATIC PHONOGRAPH
Russell I. Wilcox, Brookfield, Ill., assignor to Herbert C. Johnson, Wilmette, Ill.
Application January 10, 1940, Serial No. 313,183
22 Claims. (Cl. 274—10)



7. In an automatic phonograph, a plurality of record carriers supported in stacked relation upon said turntable and adapted to support a record, the carrier next adjacent said turntable being of least diameter with the other carriers progressively increasing in diameter to provide a stack of inverted frusto-conical shape, means for raising said turntable from and lowering it toward a record-playing position, stack-splitting means including a pair of members mounted on the opposite sides of said turntable and movable in aligned paths toward and from the axis of said turntable, said members having means for engaging and supporting the peripheral edges of said carriers, and selector mechanism operative to position said members in a predetermined inward position to engage the periphery of the carrier immediately above the carrier supporting the record selected for play, whereby as the turntable and stack are lowered past said members that portion of the stack above the record selected for play is supported by said members and the other portion of the stack is supported by said turntable with the selected record exposed for play in the lowermost position of said turntable.

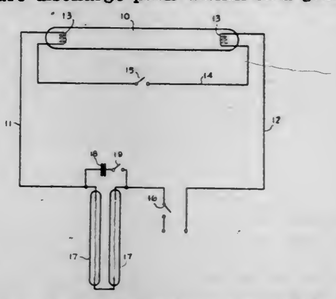
2,327,754
EGG DYEING APPARATUS
Raymond P. Young, Wrightsville, Pa.
Application May 27, 1942, Serial No. 444,733
1 Claim. (Cl. 41—1)



Dyeing apparatus comprising a platform having an opening therein, a rotatable roller mounted at the underside of the platform and partly protruding into said opening, means for rotating the roller, and an upstanding article confining wall on the platform surrounding said opening.

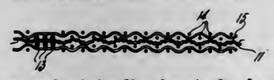
2,327,755
GASEOUS ELECTRIC DISCHARGE DEVICE
David W. Abernathy, Chicago, Ill., assignor to Products Development, Inc., Chicago, Ill., a corporation of Illinois
Application April 1, 1942, Serial No. 437,133
1 Claim. (Cl. 240—78)

In combination, a reflector, gaseous discharge means providing fluorescent illumination arranged within said reflector and adapted to have illumination directed downwardly, an electrical circuit for initiating and maintaining the arc in the gaseous discharge means, said circuit including an A. C. source of potential for operating said gaseous discharge means, a filament heating branch short-circuiting the gaseous discharge means, a capacitive element mounted on said reflector and connected into said circuit in series with the arc discharge path within said gaseous



discharge means, and a resistor element in said circuit serving to cause said capacitive element to be charged while said filament heating branch is short-circuited, said capacitive element impressing its charge across the gaseous discharge means, together with line voltage when the short-circuit is opened, thereby igniting said gaseous discharge means, said resistor element comprising a plurality of incandescent lamps arranged to augment the illumination obtained from said gaseous discharge means, at least one of said lamps being arranged on the outside of said reflector.

2,327,756
ELECTRICALLY CONDUCTIVE FABRIC
Seth Adamson, Rye, N. Y., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application October 15, 1941, Serial No. 414,999
11 Claims. (Cl. 219—46)

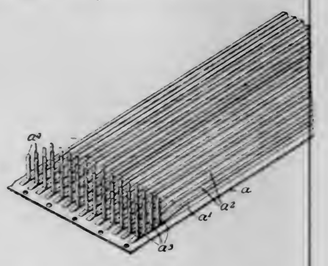


1. A woven electrically heated elastic fabric having a substantial stretch, formed of interwoven textile and elastic threads and having woven in the fabric at spaced intervals as warp or weft heating conductors that normally are held by the fabric weave in a crimped condition whereby these conductors can straighten out at least 25% as the fabric is stretched, and conductor leads extending across and contacting said heating conductors for supplying an electric current thereto.

2,327,757
METHOD OF RAISING SPINES
Harold G. Barrett, Chicago, Ill., assignor to Thermek Corporation, Chicago, Ill., a corporation of Delaware
Original application February 9, 1940, Serial No. 318,097. Divided and this application October 28, 1940, Serial No. 363,119
4 Claims. (Cl. 29—157.3)

1. That improvement in the manufacture of heat transfer walls from a thin flat sheet of stock having parallel ribs on one of its faces which comprises making successive cuts while the sheet is

flat, each cut being made transversely and simultaneously in a common plane through the entire series of ribs on the ribbed face and being of gradually increasing depth and extending longitudinally of the ribs to produce a row of slivers and bending the slivers away from the plane of

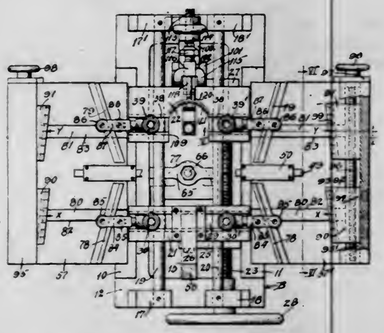


the sheet during each cut to form a row of upstanding spines integral with the sheet, the successive cuts being overlapping longitudinally of the ribs to produce spines of greater length than the spacing between the roots of the spines of successive rows.

2,327,758
LASTING MACHINE

Joseph W. Barna, Chicago, Ill., assignor, by direct and mesne assignments, of forty-nine one-hundredths to C. A. Laystrom, thirty-two one-hundredths to Mary Theresa Barna, five one-hundredths to Carl A. Laystrom, and fourteen one-hundredths to Valentine E. Hoffman, all of Chicago, Ill.

Application April 30, 1942, Serial No. 441,083
9 Claims. (Cl. 12—7)

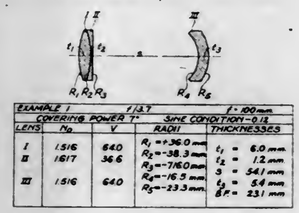


1. In a lasting machine of the class described, a supporting base structure having an opening therethrough, front and rear slider blocks mounted on said base for longitudinal movement toward and away from each other, a screw shaft journaled on said base structure at one side of said opening, connections between said screw shaft and said slider blocks adapted upon turning of said shaft to effect movement of said blocks toward and away from each other, wiper elements supported by said slider blocks, a hook-shaped last jack structure supported on said rear slider block at one end of said base structure opening, said jack structure being of a length to receive comparatively long uppers for extension thereof through said base structure opening.

2,327,759
TELEPHOTO OBJECTIVE

Harold F. Bennett, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application July 26, 1941, Serial No. 404,216
15 Claims. (Cl. 88—57)



EXAMPLE I		f/3.7	f = 100 mm.
COVERING POWER T°		SURFACE CONDITION—0.12	
LENS	No.	V	RADII	THICKNESSES
I	1.516	64.0	R_1 = +36.0 mm	t_1 = 6.0 mm
			R_2 = −38.3 mm	t_2 = 1.2 mm
II	1.617	36.6	R_3 = −71.60 mm	s = 54.1 mm
			R_4 = −16.5 mm	t_3 = 8.4 mm
III	1.516	64.0	R_5 = −23.3 mm	BF = 23.1 mm

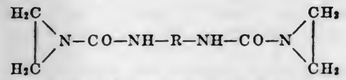
1. A telephoto objective comprising a front positive component consisting of a biconvex element cemented to the front of a negative element and a rear negative meniscus component axially spaced behind the doublet a distance between 0.45 and 0.9 times the focal length of the objective, with the radius of curvature of the convex face of the meniscus component greater than that of its concave face.

2,327,760
FIBROUS MATERIALS

Herbert Bestian, Frankfort-on-the-Main-Hochst, and Max Otto Schürmann, Dormagen, Germany; vested in the Alien Property Custodian

No Drawing. Application July 19, 1941, Serial No. 403,232. In Germany July 19, 1940
18 Claims. (Cl. 8—116)

1. The process of improving the properties of cellulose fibrous material which comprises impregnating the material with a member of the group consisting of compounds of the general formula:



wherein R stands for a member of the group consisting of aliphatic and carbocyclic radicals, and the derivatives of the said compounds, wherein at least one hydrogen atom of the nuclear bound ethylene group is substituted by a hydrocarbon radical, and subsequently drying and baking the impregnated material in order to simultaneously enhance tensile strength, crease-resistance, hydrophobic properties and to diminish the tendency to splitting, shrinking and swelling of the cellulose material.

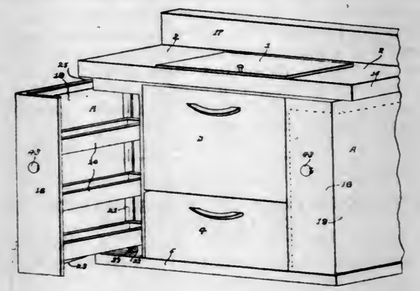
2,327,761
RANGE

Almer H. Brodbeck, St. Louis, Mo., assignor to American Stove Company, St. Louis, Mo., a corporation of New Jersey

Application July 18, 1941, Serial No. 403,052
11 Claims. (Cl. 126—37)

1. In a range or the like, a base, a cabinet provided with a top and positioned on said base, said range base and cabinet top extending beyond said cabinet at one side thereof to provide a housing which is open at its front and at one side, a storage compartment in said housing, said compartment having a vertically disposed side wall and a vertically disposed front wall, said walls forming a closure for the side and front respectively of said housing and constituting an end

and a portion of the front wall of the range, and said compartment being movably supported on

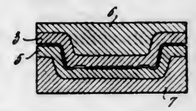


said range structure for movement outwardly and inwardly with respect to said housing.

2,327,762
METHOD OF FORMING DIES AND THE LIKE

Arthur W. Bull, Grosse Pointe, Mich., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

Application October 28, 1939, Serial No. 301,707
6 Claims. (Cl. 204—6)

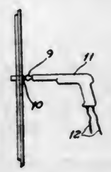


1. The method of forming a punch and die from a pattern comprising the steps of electroforming a layer of metal upon the pattern, removing the layer from the pattern, electroforming a second layer of metal upon the pattern face of the first named layer, electroforming a third layer of metal upon the exposed face of the second layer, and removing the first and third layers from engagement with the second layer.

2,327,763
METHOD OF FIRING EXPLOSIVE RIVETS

Lawton A. Burrows and Melvin A. Cook, Woodbury, and Robert M. Girdler, Sewell, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application June 13, 1941, Serial No. 397,878
1 Claim. (Cl. 219—13)

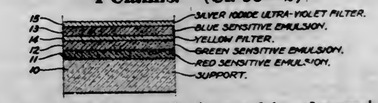


The method of firing charges in explosive metal rivets, which comprises effecting the heating of the charged rivet by means of induction applied at the head end from a high frequency electric current and thereby causing the ignition of said explosive charge, whereby said rivet head is not heated materially above the temperature necessary to cause the ignition of said charge, thus preserving the surface structure of the metal rivet.

2,327,764
ULTRAVIOLET FILTER

Burt H. Carroll, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application May 9, 1941, Serial No. 392,725
4 Claims. (Cl. 95—2)

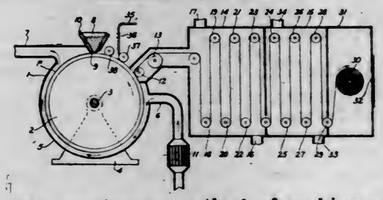


1. A multi-layer photographic element comprising a support having thereon a plurality of differently sensitive emulsion layers and an ultraviolet absorbing layer comprising a water-permeable colloidal material containing a light-insensitive, grainless silver iodide substantially transparent to all visible light.

2,327,765
MANUFACTURE OF VINYL RESIN FILM AND SHEETING

Emmett K. Carver, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application December 9, 1939, Serial No. 308,500
2 Claims. (Cl. 18—57)



1. The continuous method of making a synthetic resin film or sheet which normally adheres tenaciously to metallic and other surfaces upon which it is cast from solution, which comprises depositing a solution of the resin in a volatile organic solvent in the form of a film on a film-forming surface composed of a permanent support having thereon a coating of gelatin maintained in a swollen condition by impregnation with water, solidifying the film by removing solvent therefrom while the film remains on the swollen gelatin surface and thereafter stripping the film from the swollen surface.

2,327,766
PREPARATION OF VITAMIN E IN CONCENTRATED FORM

John D. Cawley, Rochester, N. Y., assignor to Distillation Products, Inc., Rochester, N. Y., a corporation of Delaware

No Drawing. Application January 7, 1941, Serial No. 373,467
4 Claims. (Cl. 167—81)

1. The process of preparing vitamin E which comprises in combination subjecting a vegetable oil which contains vitamin E to high vacuum, unobstructed path distillation, separating a fraction which contains most of the vitamin E content of the starting oil and associated with substantial amounts of impurities contained in the starting oil, extracting this fraction with a solvent selected from the group consisting of lower mono- and polyhydric aliphatic alcohols and ether derivatives thereof whereby the vitamin E content of the fraction dissolves in the said solvent but the oil portion of the fraction remains relatively undissolved therein, separating the solvent extract, and recovering the vitamin E therefrom.

2,327,767

SALT COMPOSITION

Francis Stapleton Chambers, Jr., Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application September 26, 1940, Serial No. 358,419
10 Claims. (Cl. 23—104)

1. A sodium nitrite composition of enhanced resistance to caking, said composition comprising dry sodium nitrite granules coated with a relatively small proportion of a finely divided alkali metal carbonate, said nitrite granules being free from compounds capable of reacting with the carbonate coating to form water insoluble carbonates.

2,327,768

THREAD GUIDE FOR SEWING MACHINES

Andrew B. Clayton, Union, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey

Application March 6, 1942, Serial No. 433,539
8 Claims. (Cl. 112—218)



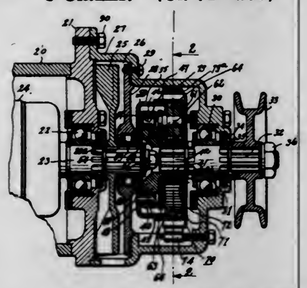
1. In a sewing machine, the combination with a frame having an external groove, of a thread-guiding tube fitted within said groove and having a sinuous slot formed in one wall thereof for the lateral passage of a thread into the tube.

2,327,769

GENERATOR OVERDRIVE

Edward M. Claytor, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application April 2, 1941, Serial No. 386,494
3 Claims. (Cl. 74—290)



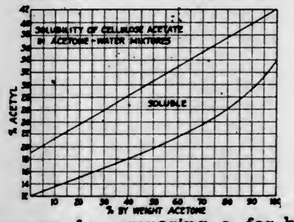
1. An overdrive transmission comprising a frame part supporting a bearing, a second frame part supporting a bearing in alignment with the first named bearing, means for detachably securing the frame parts together to prevent separation of the bearings, a drive shaft supported by the first bearing, a driven shaft supported by the second bearing; a sub-assembly unit for connecting the shafts and separable as a unit from the shafts, said sub-assembly comprising a one-way clutch having a driving member detachably connected with the driving shaft and maintained in connected relation by the attachment of the frame parts together, and said one-way clutch having a driven member detachably connected with the driven shaft, and said sub-assembly comprising also sun, planet and ring gears, said sun gear being rotatably supported by the driving clutch member, said ring gear being connected with the driven clutch member, a carrier attached to the driving clutch member and pivotally supporting the planet gears; brake means for normally preventing rotation of the sun gear and electromagnetic means operable to control the brake means.

2,327,770

METHOD OF PREPARING FAR-HYDROLYZED CELLULOSE ESTERS

Carlton L. Crane, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application November 23, 1940, Serial No. 366,856
15 Claims. (Cl. 260—230)



1. A process for preparing a far-hydrolyzed cellulose ester which comprises dissolving a lower fatty acid ester of cellulose in a solvent therefor comprising an organic solvent which is water-miscible and has a boiling point less than that of water, adding a mineral acid hydrolyzing catalyst and a compatible hydrolyst thereto and maintaining at, at least room temperature but below the boiling point of the solvent, accompanied by additions of water from time to time to keep the cellulose ester in solution, until the cellulose ester has an acyl content between 28% and 13%.

2,327,771

AMINOTRIAZINE - ALDEHYDE - HALOGENATED ACETONE CONDENSATION PRODUCT

Gaetano F. D'Alelio, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

No Drawing. Application January 15, 1941, Serial No. 374,561
20 Claims. (Cl. 260—42)

1. A composition of matter comprising the condensation product of ingredients comprising essentially an aminotriazine, an aldehyde and a halogenated acetone.

2,327,772

PLASTICIZED AMINOPLAST

Gaetano F. D'Alelio, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

No Drawing. Application January 16, 1941, Serial No. 374,736
17 Claims. (Cl. 260—33)

1. A composition of matter comprising an aminoplast modified with a nitrogeneous compound selected from the class consisting of (1) aryl compounds having attached to the aryl nucleus at least one sulfonamide radical and at least one ureidomethylamino radical and (2) aldehyde reaction products of the aryl compounds of (1).

2,327,773

AMINOPHENOLS AND THE PREPARATION THEREOF

Joseph B. Dickey, Rochester, N. Y., and Arzy R. Gray, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application June 27, 1940, Serial No. 342,800
9 Claims. (Cl. 260—345)

1. A N-(2-tetrahydrofuryl)-alkyl-p-aminophenol.

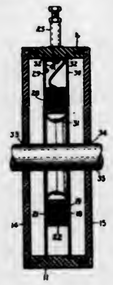
5. A process for preparing a N-(2-tetrahydrofuryl)-alkyl-p-aminophenol comprising condensing, with the elimination of water, a hydroquinone with a (2-tetrahydrofuryl)-alkyl primary amine.

2,327,774

HIGH FREQUENCY CURRENT TRANSFORMER

Theodore M. Dickinson, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application October 31, 1940, Serial No. 363,715
5 Claims. (Cl. 175—358)



1. A current transformer comprising a secondary unit including an annular magnetic core member and a secondary winding having its turns distributed around said core member, an electrostatic shield comprising a pair of non-magnetic metal sheets arranged adjacent the opposite sides of said core member and having aligned central openings, the edges of said openings being belled toward each other and secured together, the opening so formed in said shield being of such a diameter relative to the inner diameter of said unit that the belled portions engage with the inner surface of said unit to firmly support said unit between said sheets, a support for said shield, and insulating members secured to said support and spaced from the opposite sides of said shield, said insulating members having openings in axial alignment with the opening in said shield for receiving a primary conductor.

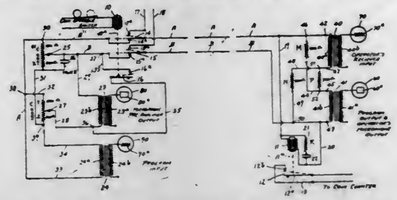
2,327,775

TWO-WIRE, TWO-WAY, LOCAL-CENTRAL STATION TRANSMISSION SYSTEM

Arthur W. Donelson, Flint, Mich.

Application June 6, 1942, Serial No. 446,128
11 Claims. (Cl. 179—6)

1. A system including a local station and a central station and but two wires therebetween, an operator's receiver input structure at the central station, including a tube with a grid therein, and an operator's microphone and program output structure at the central station, including a tube with a plate therein, said structures each including a transformer coupling to said wires, a Wheatstone bridge structure operatively interposed between said wires and structures, a program input structure at the local station, including a tube with a grid therein, a microphone preamplifying output structure at the local station, including a tube with a plate therein, said



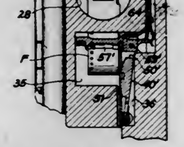
two last mentioned structures each including a transformer coupling to said wires, and a Wheatstone bridge structure operatively interposed between said wires and the two last mentioned transformer coupled structures, the legs of each bridge being balanced.

2,327,776

THREADING MECHANISM FOR MOTION PICTURE APPARATUS

Henry N. Fairbanks, Rochester, N. Y., and Roger W. Wallace, Washington, D. C., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application August 22, 1941, Serial No. 407,926
10 Claims. (Cl. 88—17)



1. In a film feeding mechanism the combination with a film gate including a gate member movable to and from film engaging position, means for intermittently feeding a film through said gate, means for constantly feeding a film to said gate, a film loop guide movable to and from a loop forming position between said constant feed means and said gate including two spaced film engaging surfaces and adapted to engage opposite surfaces of said film to determine both the maximum and minimum size of the film loop, and means for moving said loop guide to and from its loop forming position when said gate member is moved from and toward its film engaging position, respectively.

2,327,777

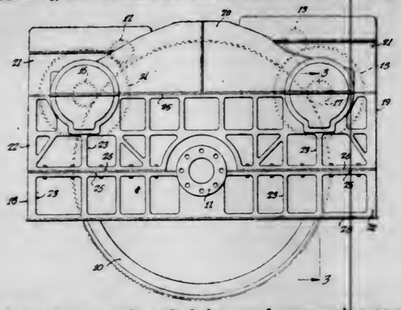
GEAR HOUSING

Louis W. Falk, Milwaukee, Wis., assignor to The Falk Corporation, Milwaukee, Wis., a corporation of Wisconsin

Application May 23, 1941, Serial No. 394,777
7 Claims. (Cl. 74—606)

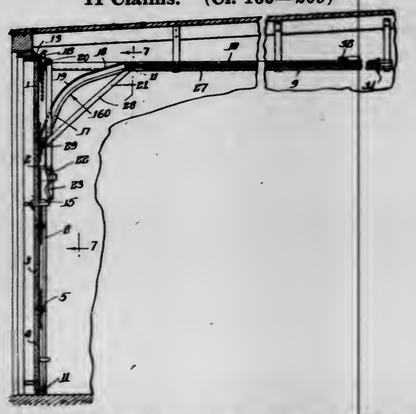
1. A gear housing having a main load bearing wall composed of a pair of parallel horizontally spaced thick upright metal slabs, each of said

slabs having a series of windows formed therein to form a truss-like structure, means closing the



windows in one of said slabs, and connector means welded to said slabs to rigidly unite the same.

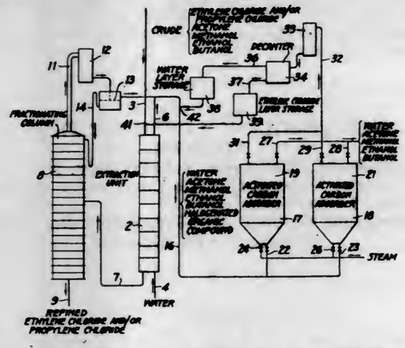
2,327,778
GARAGE DOOR
William D. Ferris and Cecil R. Wolf, Sterling, Ill.; Birdie D. Ferris, executrix of said William D. Ferris, deceased, assignors to Frantz Manufacturing Co., Sterling, Ill., a corporation of Illinois
Application February 5, 1941, Serial No. 377,498
11 Claims. (Cl. 160—209)



1. In a garage door construction in which the door is of the sectional form in which the horizontal sections are hinged together at their horizontal meeting edges, vertical tracks for the sides of the doorway, horizontally disposed tracks overhead, and intermediate track sections connecting the upper ends of the vertical tracks with the outer ends of the horizontally disposed tracks, each intermediate track section having a middle curved portion and having straight end portions, together with means on the door for engaging said tracks and track sections.

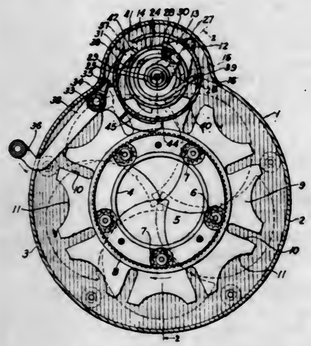
2,327,779
SEPARATION OF MIXTURES CONTAINING SOLVENTS
Webster E. Fisher, Rochester, N. Y., and Will H. Shearon, Jr., Nashville, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application November 10, 1939, Serial No. 303,924
6 Claims. (Cl. 210—62)

3. A process for the separation of mixtures containing substantial amounts of halogenated hydrocarbons, alcohols, ketones, and water, which comprises spraying water into the dispersed mixtures to dissolve the alcohol and ketone components thereof, separating the aqueous halogenated hydrocarbon component from the alcohol and ketone solution still containing small amounts of halogenated hydrocarbon, subjecting the aqueous halogenated hydrocarbon content from the separation to distillation for volatilizing any small amount of alcohols, ketones, and water therein, condensing the alcohols and ketones separated in this distillation and passing the condensed alcohols and ketones together with the



alcohols and ketones from the first separation and still containing small amounts of halogenated hydrocarbon, into contact with activated carbon for adsorbing said small amounts of halogenated hydrocarbon, periodically during the operation of the process passing steam through the activated carbon containing adsorbed halogenated hydrocarbon for removing the same from the carbon, condensing the halogenated hydrocarbon removed by the steam, and returning the aqueous halogenated hydrocarbon to the step wherein the original mixture of halogenated hydrocarbons, alcohols, ketones and water is sprayed with water.

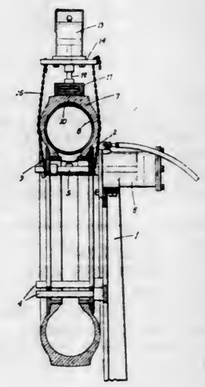
2,327,780
CAMERA SHUTTER
Carl C. Fuerst, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application September 6, 1941, Serial No. 409,855
10 Claims. (Cl. 95—63)



1. In a camera shutter including an apertured support, a plurality of pivotally mounted shutter leaves positioned to open and close the aperture to make an exposure, a blade ring, a master

member, and connections between the blade ring and shutter leaves for operating the leaves from the blade ring, the combination with said blade ring and said master member, of connections between the blade ring and master member for transmitting motion from the master member to the blade ring including a Geneva driver connection to the master member, and a Geneva driven member connected to the blade ring, a shutter trigger and means carried by the trigger for releasing the Geneva driver to make an exposure.

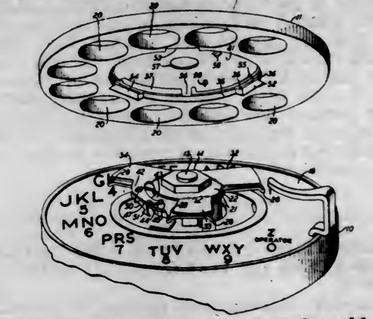
2,327,781
TIRE REPAIRING MOLD
Edwin A. Glynn, Lodi, Calif., assignor to Super Mold Corporation of California, a corporation
Application January 12, 1942, Serial No. 426,383
5 Claims. (Cl. 18—18)



3. A tire repair mold comprising a stand, a relatively movable ring member to engage and support one bead portion of a tire disposed away from the stand and facing the same, a relatively stationary ring member to engage the other bead of a tire disposed between the movable ring and stand and supported from the latter, means disposed radially in from the tire engaging area of the members removably supporting the movable member from the stand, a power cylinder mounted on the stand with its axis parallel to that of the ring members and so that the stationary ring member is between the cylinder and movable ring member, a piston rod projecting from the cylinder past the stationary member and through the movable member clear of the tire engaging portions thereof and a detachable connection between the rod and said movable member.

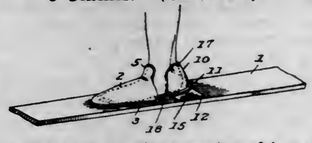
2,327,782
CALLING DIAL DEVICE
Harold W. Goff, Manhasset, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application April 16, 1942, Serial No. 439,229
5 Claims. (Cl. 179—90)

1. A spider type support comprising a fixed plate and a rotatable plate, said plates being of spider-like form, means holding said plates in face-to-face relation, latch means comprising a flexible arm on one of said plates and a notched enlarged central portion on the other of said plates providing a step engaged by said arm, and



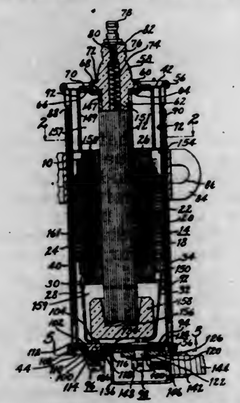
said latch means cooperating to releasably hold said plates in relatively rotated positions.

2,327,783
WATER SKI BINDING
Daniel B. Hains, Bayville, N. Y., assignor to Winner Manufacturing Company, Inc., Trenton, N. J., a corporation of New Jersey
Application January 7, 1941, Serial No. 373,513
5 Claims. (Cl. 9—21)



5. In combination with a water ski, a ski binding comprising a flexible vamp for encompassing the forepart of the foot, a U-shaped rigid strip adapted to fit over the ends of the vamp and fasten it to the ski, a plate, a flexible counter mounted on said plate for encompassing the heel of the foot, said plate being adjustably mounted on the ski.

2,327,784
IGNITION COIL
Herman L. Hartzell, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application September 28, 1939, Serial No. 296,904
4 Claims. (Cl. 175—361)



1. A terminal for an ignition coil comprising a casing having a head member with a socketed aperture therethrough for the location and sup-

port of an electric terminal, a recessed rivet having a flange and whose shank is disposed in the aperture of said end member socket, a gasket of rubber bonded cork engaging the bottom of said end member socket for sealing the juncture against fluid flow, an insulating disc disposed between the gasket and rivet flange and commensurate in area with that of the socket, said rivet being peened over against a metallic washer on the opposite side of the said member for effecting seal and insulation of the rivet relative to the head member.

2,327,785

COMPOSITION OF MATTER AND METHODS AND STEPS OF MAKING AND USING THE SAME

Mortimer T. Harvey, East Orange, N. J., assignor to The Harvel Corporation, a corporation of New Jersey

No Drawing. Application May 13, 1939, Serial No. 273,415
8 Claims. (Cl. 260—19)

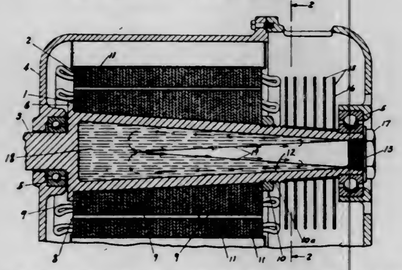
1. A composition of matter, capable of augmenting the frictional characteristics of a friction element, comprising a substantially dry and infusible composition obtained by heat converting to a substantially dry and infusible material, a mixture of a heat polymerizable oil, a dialkyl sulphate, furfuraldehyde and a product selected from the group consisting of cashew nut shell liquid and residue of cashew nut shell liquid obtained by distilling cashew nut shell liquid until the quantity by weight of the residue is between about 40 to 60% of the quantity by weight of said cashew nut shell liquid.

2,327,786

COOLING METHOD AND APPARATUS

Ralph M. Heintz, Shaker Heights, Ohio, assignor to Jack & Heintz, Inc., Cleveland, Ohio, a corporation

Application September 15, 1941, Serial No. 410,939
3 Claims. (Cl. 171—252)



2. A motor having a shaft with a conical axial bore therein, a rotor mounted on said shaft and surrounding the larger end portion of said bore, cooling means on said shaft adjacent the smaller end portion of said bore, means for sealing said bore, and a cooling medium expansible by the running heat of said rotor, sealed in said bore.

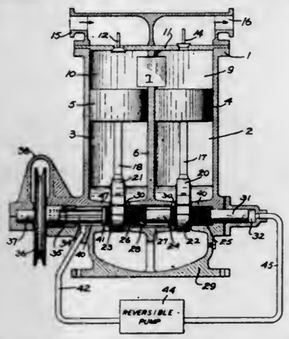
2,327,787

VARIABLE DISPLACEMENT PUMP

Ralph M. Heintz, Cleveland, Ohio, assignor to Jack & Heintz, Inc., Cleveland, Ohio

Application January 5, 1942, Serial No. 425,595
5 Claims. (Cl. 103—37)

1. A variable displacement pump comprising a pair of adjacent cylinders, a piston in each cylinder, the space above said pistons being interconnected to form a pump chamber, inlet and outlet valves in the walls of said pump chamber, an eccentric connected to operate each piston, a drive shaft, a pair of helically threaded members rotated by said shaft, the threads on said members being oppositely pitched, helical threads on each of said eccentrics meshing with one of said



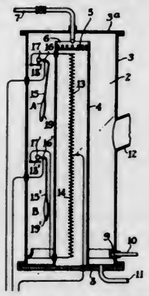
members, means for axially moving said shaft with respect to said eccentrics, and means for rotating said shaft, said axially moving means comprising external hydraulic control means arranged to apply hydraulic pressures selectively on opposed cross sectional areas of said shaft.

2,327,788

DISTILLATION PROCESS AND APPARATUS

Kenneth C. D. Hickman, Rochester, N. Y., assignor to Distillation Products, Inc., Rochester, N. Y., a corporation of Delaware

Application June 4, 1941, Serial No. 396,569
6 Claims. (Cl. 202—52)



1. In an arrangement of the class described, a still comprising an evaporating element, means for heating said element, a condensing element in cooperative distilling relation to said heating element, displaceable vane-like means suspended between said elements in the path of the vapor flowing therebetween, and means responsive to the displacement of said displaceable means for controlling said heating means.

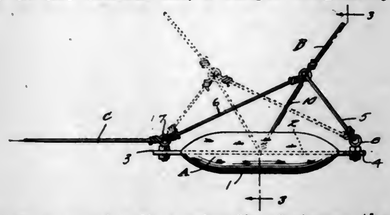
2,327,789

FISHING TACKLE FLOAT

Joseph M. Hixon, Attica, Ind.

Application February 10, 1942, Serial No. 430,276
1 Claim. (Cl. 43—49)

A fishing tackle float of the character specified, comprising an elongated float of cylindrical form in cross section, a straight central fin extending from the bottom of the float into the water, said fin being provided near its bottom edge with a centrally disposed perforation, a controlling line extending laterally and at an angle from one side of the float to the trolling boat or shore, a diagonally disposed connecting line extending between the controlling line and one upper corner of the central fin, a longer diagonally disposed connecting line extending between the controlling line and the opposite upper corner of the fin, eye bolts for attaching the diagonally disposed connecting lines to the fin, and a transverse intermediate stay line extending from the controlling line and connected to the perforated portion of the fin.

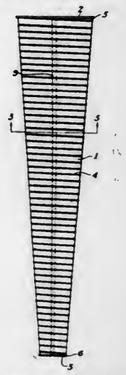


2,327,790

CAMERA BELLOWS AND METHOD OF MAKING SAME

Roy S. Hopkins, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application September 23, 1941, Serial No. 411,999
10 Claims. (Cl. 95—39)



1. A camera bellows comprising a truncated cone-shaped flexible member, and a support therefor comprising a spiral-shaped spring metal band firmly attached to the outside of the flexible member throughout its length whereby said bellows may fold as the convolutions of the spiral spring member may approach adjacent convolutions.

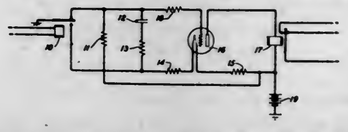
2,327,791

TIME DELAY APPARATUS

Andrew L. Hopper, River Edge, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application August 19, 1941, Serial No. 407,410
6 Claims. (Cl. 250—27)

1. A time delay device comprising a thermionic discharge device, a responsive device connected in the output circuit thereof, a condenser connected to the control circuit of said discharge device, a single battery for supplying anode potential, filament current, and bias potential for said device, circuits for initially charging the condenser to said battery potential, a single pole double throw switch arrangement for completing the filament circuit of said device and for changing the connections to said condenser for first



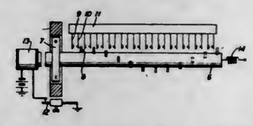
discharging the condenser, and then charging the condenser through a high impedance to the value required to initiate a discharge through said thermionic discharge device to actuate said responsive device.

2,327,792

SELECTOR

Francis A. Hubbard, Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application December 9, 1941, Serial No. 422,206
6 Claims. (Cl. 200—93)



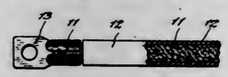
1. A relay comprising a stator having coils in quadrature responsive to selective energization to set up a field in a predetermined number of rotational positions, a polarized rotor, a set of contacts for each rotational position of said rotor, magnetic means for moving said rotor longitudinally, and means responsive to said longitudinal movement of said rotor for operating a rotatably selected set of said contacts.

2,327,793

ELECTRICAL RESISTOR

Herbert M. Hucke, Haddonfield, N. J., assignor to United Air Lines Transport Corporation, Chicago, Ill., a corporation of Delaware

Original application May 10, 1940, Serial No. 334,419. Divided and this application November 24, 1941, Serial No. 420,167
7 Claims. (Cl. 201—75)



1. An electrical resistor having a body of jute, granular graphite distributed throughout its length and carried by said jute, and a flexible rubber covering encompassing said jute and granular graphite and extending throughout the length of said resistor.

2,327,794

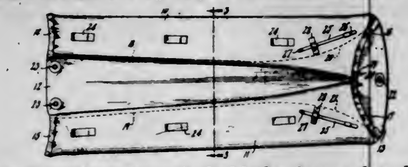
WATER TOBOGGAN

Victor H. Hurt, Cranston, R. I., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

Application January 7, 1943, Serial No. 471,539
9 Claims. (Cl. 9—2)

1. A reversible water toboggan comprising two inflated elongated pontoons retained in laterally spaced relation by a connecting apron that has an upwardly inclined bow flap, the toboggan be-

ing adapted when turned so that one face is up to provide space for a person to lie between the pontoons on the apron, and when turned so that



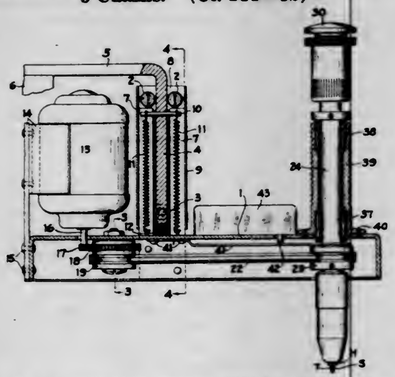
the other face is up to hold the forward ends of the pontoons close together so that a person may lie on the pontoons to paddle with his arms.

2,327,795

AUTOMATIC SCREW DRIVER

Miller R. Hutchison, Jr., Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application May 15, 1941, Serial No. 393,570
5 Claims. (Cl. 144—32)



1. An automatic screw driving machine for driving successive screws of a screw stick into work, comprising, in combination, a support, a motor carried thereby, a screw driver of a type adapted to use screw sticks and to drive one screw from the head of another screw, means for mounting said screw driver on said support independently of and in lateral spaced relation to said motor to permit the ready insertion of screw sticks in said screw driver without necessitating the disconnection of the latter from said support, an electric circuit including the motor, a switch in said circuit, of a type normally open, a bearing in the support for movably carrying the screw driver, and connections between the motor and screw driver for rotating the latter from the former, means including said switch actuated by moving a screw carried by the screw driver into contact with work for moving the switch from its normal open position to a closed position whereby said screw contacting with the work may be driven into the work by said motor.

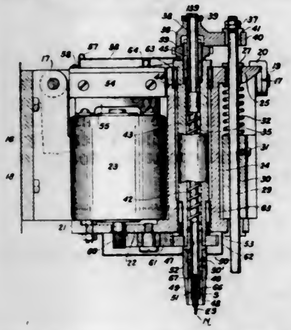
2,327,796

AUTOMATIC SCREW DRIVER

Miller R. Hutchison, Jr., Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application June 24, 1941, Serial No. 399,472
9 Claims. (Cl. 144—32)

9. A mechanism for driving an end screw of a screw stick, in which each screw is connected to the next adjacent screw by a narrow neck solely through said narrow neck, including, in combination, a frame, a foot treadle pivotally attached thereto, arms carried by the pivotal support for the treadle and movable thereby, a chassis, a movable mount carried by the frame and comprising a slideway and carriage between the frame and chassis on which the latter may slide, spring means for holding the chassis in a raised position, the chassis being engaged by the arms for movement thereby when the foot treadle is moved, a screw driver rotatably and slidably mounted on the chassis, a spring tending to move the screw driver toward work to receive a screw, a motor carried by the chassis, driving connections between the motor and screw driver for turning the screw driver by the motor, a



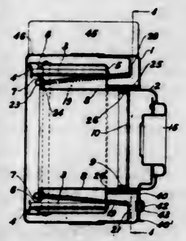
switch, and a circuit including the switch and motor, means for operating the switch through movement of the screw driver relative to the chassis when a screw is contacted with work by moving the chassis through the foot treadle, and mechanism for advancing a screw automatically as said screw driver moves under the impulse of the first mentioned spring as the chassis is moved from the work, comprising a plunger for advancing the screw stick one step, a plunger advancing spring, and means including the chassis spring and fixed stop for the screw driver for causing a screw to be advanced in the screw driver when pressure on the foot treadle is released.

2,327,797

FOLDING CAMERA

Miller R. Hutchison, Jr., Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application December 6, 1941, Serial No. 421,976
8 Claims. (Cl. 95—32)



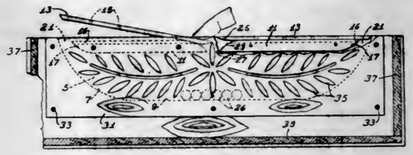
4. In a folding camera, the combination with a camera body, of a camera front movably mounted on the camera body for movement to a picture-taking and a folded position, and forming a two-part camera, complementary-shaped walls on the camera body and camera front shaped to fit loosely, a soft gasket between the loosely fitting walls to form a light-tight connection between the camera parts, means separate from said loosely fitting walls for accurately guiding the movement of the camera front on said camera body.

2,327,798

PROTECTIVE STORAGE RECEPTACLE

Isadore Kamman, Gardner, Mass., assignor to Kamman Furniture, Inc., Philadelphia, Pa., a corporation of New York

Application February 9, 1942, Serial No. 430,115
1 Claim. (Cl. 206—10)



A protective storage drawer having a wooden front with its back face cut away to form a recess extending along the back face of the front, with curved end walls and substantially straight bottom, a pair of spacer blocks secured in the recess adjacent the top of the drawer front, spaced from the ends of the recess and from one another to provide filling openings, one of the ends of each block being downwardly curved, a perforated panel covering the recess and secured to the back face of the drawer front and to the spacer blocks, the top edge of the panel being substantially flush with the top of the drawer front, and a pair of removable closures supported by the spacer blocks with their top surfaces substantially flush with the top of the drawer front, the closures normally closing with a loose fit the top of the recess and one end of each closure overlying the curved end of a spacer block to facilitate the removal of the closure to permit protective material to be supplied through the filler opening to the interior of the recess.

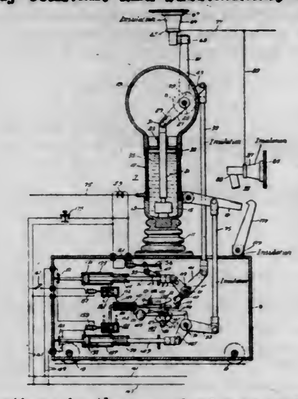
2,327,799

CIRCUIT BREAKER

Werner Kaufmann, Berlin-Siemensstadt, Otto Flögel, Berlin, Adolf Thewalt, Berlin-Siemensstadt, and Leopold Ferschl, Berlin, Germany, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application November 15, 1940, Serial No. 365,824
In Germany August 25, 1939
21 Claims. (Cl. 200—89)

1. Electrical switching apparatus for controlling a circuit, comprising a circuit interrupter having circuit interrupting contacts actuating means therefor and means for extinguishing arcs drawn by said contacts, a second pair of contacts ·turally associated with the interrupter and ·ically connected in shunt relation directly ·· said circuit interrupting contacts, separate actuating means for said second pair of contacts, said circuit interrupting contacts being normally closed and said second pair of contacts normally open, means operable to cause opening of said circuit interrupting contacts, and means including a timing device for initiating closing operation of said second pair of contacts a predetermined time interval after opening of said circuit interrupting contacts, said timing device providing a predetermined time interval which is substantially constant and substantially unaffected



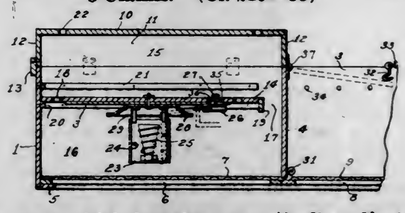
by variations in the speed of movement of said circuit interrupting contacts and other operating conditions.

2,327,800

ELECTRICALLY HEATED CHICKEN BROODER

Albert L. Kaysing, St. Louis, Mo., assignor to J. A. Smith Company, St. Louis, Mo., a partnership composed of Albert L. Kaysing, T. D. Shaffer, and S. B. Margulis

Application May 4, 1942, Serial No. 441,639
3 Claims. (Cl. 219—35)



3. In a chick brooder, a vertically adjustable substantially horizontal partition dividing the same into superimposed upper and lower chambers and whereby the height of the lower chamber may be selectively varied; an electrical heating device carried at the under side of said partition as a unit movable therewith and comprising a tube, a heating element therein and spaced from the tube side wall, a heat deflector sheet fixed between said partition and tube, and an outwardly flared downwardly directed flanged element positioned intermediate said sheet and tube and spaced above the latter for directing heat downwardly into the lower chamber and toward the side walls of the latter.

2,327,801

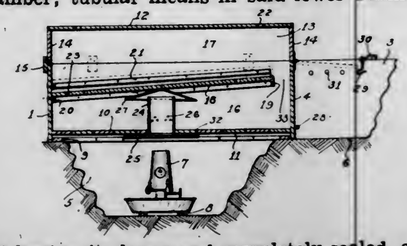
CHICKEN BROODER

Albert L. Kaysing, St. Louis, Mo., assignor to J. A. Smith Company, St. Louis, Mo., a partnership composed of Albert L. Kaysing, T. D. Shaffer, and S. B. Margulis

Application May 4, 1942, Serial No. 441,640
2 Claims. (Cl. 119—32)

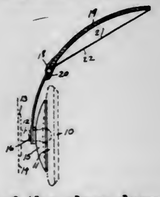
1. In a chick brooder, a housing having a partition thereacross to form an upper and a lower chamber, said partition normally being lower at its rear than at its front and provided with a

downwardly directed flange along said front, said front terminating short of the length of said chambers so as to provide a vertical passageway between said front and the adjacent wall of said chambers; a heater entirely below said lower chamber; tubular means in said lower chamber



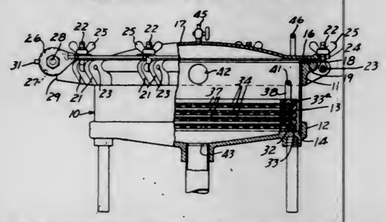
and having its lower end completely sealed, and spaced from said heater to transfer heat from the latter into said lower chamber, and a conical deflector at the under side of said partition above the tubular means to direct the heat laterally into said lower chamber.

2,327,802
SHIELD FOR REARVIEW MIRRORS
Carl D. Kelly, Portland, Oreg.
Application August 15, 1941, Serial No. 407,026
3 Claims. (Cl. 88—77)



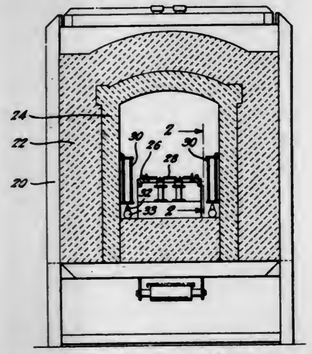
1. A device of the class described consisting of a translucent cover for the front of a rear view mirror, a back hinged along one side of said cover and adapted to extend behind said mirror, suction cups attached to said back and adapted to engage the rear side of said rear view mirror and means for urging said back to a position in front of said mirror or away from same.

2,327,803
FILTER
James M. Kidd, Birmingham, Ala.
Application December 9, 1940, Serial No. 369,175
2 Claims. (Cl. 210—185)



1. In a pressure filter, a filter casing having an upper inlet and a bottom outlet for the filtrate, a movable cover for the casing, a series of superposed perforated plates in the casing in spaced relation with the marginal walls thereof, spacer rings between the plates around the outer edges thereof, a sheet of filter cloth over each of the plates, said plates and filter cloth being free of mechanical engagement with each other, the marginal edges of the filter cloths being held in leak-proof engagement on the plates by the weight of the plates and rings above, a seat in the casing for receiving the lowermost of said rings with a leak-proof fit, and lifting pins secured to said lowermost ring and extending upwardly past the superposed rings and plates by means of which the whole series of filter plates may be lifted from the casing.

2,327,804
HEAT-TREATING APPARATUS
Roland P. Koehring, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Original application May 9, 1938, Serial No. 206,727. Divided and this application February 28, 1941, Serial No. 381,184
1 Claim. (Cl. 13—20)



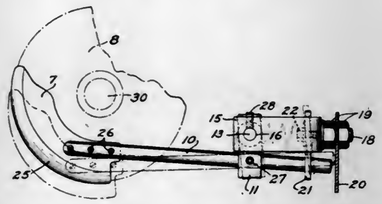
In a high temperature heat treating furnace comprising in combination; a heating chamber, electrical heating means within the chamber for heating the chamber to the desired temperature, said heating means comprising a plurality of electrically connected tubular resistance elements, a plurality of refractory throat portions one of each being adapted to be fitted into each of said resistance elements, a plurality of jets aligned with said resistance elements for injecting controlled atmosphere into the furnace at high velocity and into said elements whereby the furnace atmosphere is entrained by said injected atmosphere through the cooperation of said throat portions for causing circulation of the furnace atmosphere and thereby equalizing temperatures within the furnace.

2,327,805
POROUS METAL
Roland P. Koehring, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
No Drawing. Application April 4, 1941, Serial No. 386,918
8 Claims. (Cl. 75—22)

1. In a method of making articles from porous iron the steps comprising, coating iron particles with a material taken from the class consisting of lead and litharge, molding the iron powder to the desired shape in the loose non-compacted condition and then sintering the coated article at a temperature above the melting point of lead and below the melting point of iron for a time sufficient to cause the lead to become molten and flow uniformly over the particles of iron, said sintering being carried out under suitable reducing conditions, and then cooling the article so formed.

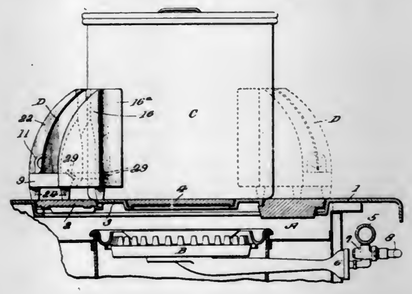
5. A filter element comprising a highly porous mass of iron particles bonded together by means of lead wherein each particle of iron is coated substantially completely with lead in the form of a thin film thereover, said article being made by sintering together loose non-compacted metal powder.

2,327,806
SHOE MACHINERY
Clarence L. Logemann, Milwaukee, Wis.
Application February 15, 1943, Serial No. 475,889
12 Claims. (Cl. 51—274)



1. In combination with an abrasive wheel rotatable about an axis, a guard plate disposed adjacent to a side of the wheel and having an arcuate edge projecting outwardly beyond the adjacent peripheral edge of the wheel, and mounting means for said plate formed to produce limited free swinging thereof toward and away from the wheel axis by work pressed against the abrasive wheel surface.

2,327,807
BOOSTER BURNER
William Lotter, Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo., a corporation of New Jersey
Application January 16, 1940, Serial No. 314,141
16 Claims. (Cl. 126—39)

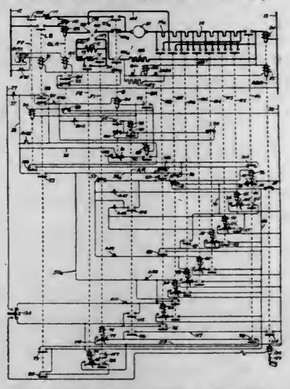


1. A heating device for application to the outer face of a side wall of a cooking utensil comprising, a base. a fuel supply manifold carried by said base, a face plate and a pair of end walls extending upwardly from said base to form three sides of a chamber having open upper and lower ends, said end walls being adapted to engage said cooking utensil side wall to close the open side of said chamber, a gaseous fuel burner supported by and positioned at the side of said base and in the lower end of said chamber, said burner being in the form of a plurality of separated burner units each of which has a plurality of burner orifices, and vertically disposed baffles intermediate the ends of adjacent burner units, said baffles being connected to said face plate and extending toward the side wall of said utensil.

2,327,808
PHOTOGRAPHIC EMULSION FOR SPRAYING UPON SURFACES AND ITS APPLICATION
Wesley G. Lowe and Gerard J. Clarke, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application August 8, 1941, Serial No. 406,024
9 Claims. (Cl. 95—7)

1. A photosensitive emulsion adapted to be coated onto surfaces at ordinary temperature by spraying essentially consisting of a silver halide dispersed in a solution of one part of a far hydrolyzed lower fatty acid ester of cellulose in 30–50 parts of a solvent mixture consisting of 10–50% of water, 5–30% of a water-miscible organic solvent, having a boiling point above 110° C., the high boiling solvent not being present in an amount which will cause fogging of the emulsion and substantially the remainder a water-miscible organic solvent having a boiling point below 110° C. which when mixed with water is a solvent for the cellulose ester.

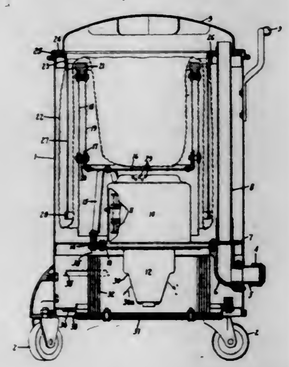
2,327,809
MOTOR CONTROL SYSTEM
Charles MacDonald, Evanston, Ill., Jacob W. McNairy, Bridgeport, Conn., and John F. Tritle, Erie, Pa., assignors to General Electric Company, a corporation of New York
Application August 22, 1941, Serial No. 407,872
24 Claims. (Cl. 172—179)



12. The combination with a traction motor, of an acceleration resistance for said motor, said motor being provided with a field winding, a plurality of normally open electromagnetically operated resistance switches for short-circuiting said resistance in steps, a control relay having a normally closed switch, connections for sequentially closing said resistance switches through said normally closed relay switch, a normally open switch for said control relay, an operating coil for said control relay responsive to the current in said motor during dynamic braking of said motor for opening said normally closed relay switch in response to a predetermined current and closing said normally open relay switch, a normally open switch movable to closed position to shunt said field winding provided with an operating coil controlled by said normally open relay switch, a manually operated acceleration controller normally in a predetermined position to establish a dynamic braking circuit for said motor including said resistance and movable from said predetermined position to establish a supply circuit for said motor through said resistance, a normally open auxiliary relay switch provided

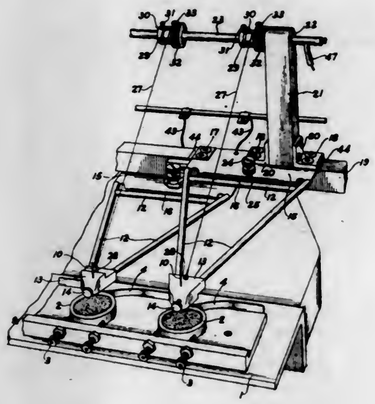
with an operating coil, switching means closed in response to the return of said acceleration controller to said predetermined position for energizing the coil of said auxiliary relay, whereby said auxiliary relay is operated to set up a circuit for the operating coil of said field shunting switch for closure of said field shunting switch when said control relay closes its normally open switch in response to a predetermined dynamic braking current, a braking controller movable from a predetermined position to another position to initiate dynamic braking for said motor, a normally closed first holding switch operated by an intermediate one of said resistance switches connected in circuit with the operating coil of said auxiliary relay, a second holding switch operated by said braking controller connected in parallel with said normally closed first holding switch, said second holding switch being closed when said braking controller is in said predetermined position, but opened to give the control of said auxiliary relay operating coil to said first holding switch when said braking controller is moved to initiate dynamic braking, whereby when said intermediate resistance switch closes said first holding switch is opened to deenergize said auxiliary relay thereby to open the operating coil circuit of said field shunting switch and establish full excitation of said field shunting switch, a normally open third holding switch on said auxiliary relay for deenergizing said intermediate resistance switch and all preceding closed resistance switches when said auxiliary relay opens, and a normalily closed holding switch on said field shunting switch which is closed when said field shunting switch opens thereby to set up a circuit for reclosure of said short-circuiting switches under the control of said control relay.

2,327,810
VACUUM CLEANER
Joseph A. McAnerney, New York, N. Y., assignor to Electric Vacuum Cleaner Company, Inc., a corporation of New York
Application December 26, 1939, Serial No. 311,353
1 Claim. (Cl. 230—232)



In combination, a motor, a centrifugal fan driven thereby and discharging axially around the motor, and walls defining a cup-shaped space having an open top spaced from the fan and a discharge passage from and presented to said space between the fan and said top, said walls including a cylinder of a plurality of layers of corrugated paper with the ends of the corrugations presented to said passage.

2,327,811
ENGRAVING MACHINE
Daniel B. McRae, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application April 1, 1942, Serial No. 438,301
8 Claims. (Cl. 33—23)



1. An engraving machine, including, in combination, a table on which work to be engraved may be placed, an engraving tool mounted over the table, a mount for the engraving tool comprising a spring arm tending to thrust the engraving tool toward work carried by the table and a heatable member supporting said spring arm and opposing said spring movement, and means for heating said heatable member whereby said spring arm may move the engraving tool into contact with work.

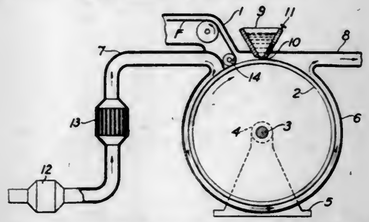
2,327,812
FUNGICIDE AND METHOD OF MAKING THE SAME
Sisto E. Marsico, Aspinwall, Pa.
No Drawing. Application April 29, 1941, Serial No. 390,921
8 Claims. (Cl. 167—16)

1. A fungicide which comprises a stable mixture of chloroform liniment extract of Cicuta plant and a chloroform liniment extract of copper sulphate.

2,327,813
PHOTOGRAPHIC SOLUTION
Gale F. Nadeau and William M. Tucker, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application August 3, 1939, Serial No. 288,178
15 Claims. (Cl. 95—88)

3. A solution for application to a photographic film base, the solution comprising a metal-corrosive, spirit-soluble dye, an organic solvent for the dye, and an amino alcohol selected from the group consisting of dialkyl amino alcohols and di-(hydroxy alkyl amino) alcohols, said amino alcohol being present in an amount sufficient to retard corrosion of a metal when the solution is in contact with a metal.

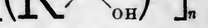
2,327,814
MANUFACTURE OF PHOTOGRAPHIC FILM SUPPORTS
Gale F. Nadeau and Austin J. Gould, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application December 16, 1939, Serial No. 309,634
2 Claims. (Cl. 18—57)



1. A continuous process for the manufacture of cellulose nitrate film base which comprises dissolving at a temperature of 5–20° C. a cellulose nitrate having a nitrogen content of 11.7–12.25% in a liquid which is an active solvent for the cellulose nitrate only at a temperature below 20° C., which liquid is selected from the group consisting of pure ethanol and solvent mixtures containing 93–100% by weight ethanol and from 7–0% by weight of acetone, casting the resulting solution in the form of a film on a film-forming surface at a temperature approximately 5–20° C. above the temperature at which the cellulose ester is dissolved, whereby the film sets to a clear, transparent, self-supporting gel, stripping the film from the film-forming surface while containing approximately 60% solvent and removing residual solvent from the film.

2,327,815
ALUMINIUM SALT OF HYDROXY CARBOXYLIC ACIDS
Joseph G. Niedercorn, Riverside, and William O. Dawson, Greenwich, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application January 31, 1941, Serial No. 376,852
7 Claims. (Cl. 260—448)

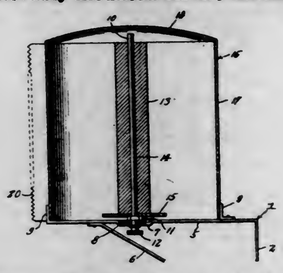
1. A 100% basic complex aluminum salt having the following general formula:



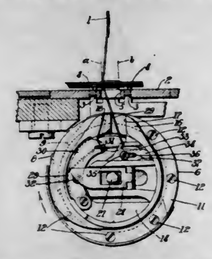
where R is selected from the group consisting of (1) the acid radicals of three molecules of a member of the group consisting of lactic, gluconic and alpha-hydroxyisobutyric acids, (2) the normal acid radicals of three molecules of a member of the group comprising tartaric and malic acids, and (3) the normal acid radical of one molecule of citric acid, M is a member of the group consisting of sodium and potassium, n is one when R is defined as (1) and (3) and two when R is defined as (2).

2,327,816
TOILET PAPER ROLL HOLDER
Vernon F. Olson, Zumbrota, Minn.
Application April 19, 1943, Serial No. 483,624
3 Claims. (Cl. 242—55.5)

1. A toilet paper roll holder comprising a bracket including a horizontal arm, means for mounting said arm on a support, a cross member on the arm, upstanding lugs on the cross member and the arm, a vertical spindle on the bracket, an inverted, substantially cup-shaped cover removably mounted on the bracket and engaged between the lugs, and a core, for receiving a roll of paper, rotatably mounted on the spindle, the cover having a vertical slot therein for the passage of the paper.



2,327,817
STITCH-FORMING MECHANISM FOR SEWING MACHINES
Frank Parry, Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application September 3, 1942, Serial No. 457,150
5 Claims. (Cl. 112—158)

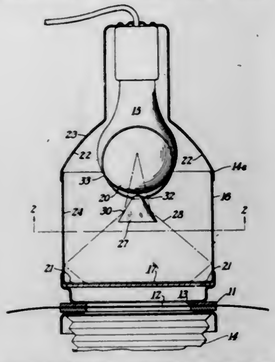


1. In a zigzag sewing machine, an endwise reciprocatory thread-carrying needle having laterally vibratory movements of variable amplitude, a circularly moving loop-taker cooperating with said needle in the formation of lock-stitches, a thread-case for an interlocking bobbin-thread disposed within said loop-taker and restrained against movement with said loop-taker, a thread-guide for directing the interlocking bobbin-thread in a predetermined relation with respect to said needle, and means providing for variation of the position of said thread-guide in accordance with selected amplitudes of vibration of said needle.

2,327,818
ILLUMINATING MEANS FOR ENLARGERS
Charles W. Peterson, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application December 3, 1941, Serial No. 421,466
7 Claims. (Cl. 88—24)

1. In a photographic enlarger, the combination with a negative positioned in said enlarger, a diffusing light bulb for illuminating said negative and having a central portion which is nearer an area of said negative than the remainder of said bulb, a lamp house for said bulb, of a blocking member smaller than the diameter of said lamp and positioned in said lamphouse directly below

said portion to intercept the direct light rays from said portion only to prevent said direct rays from passing directly to said area, means on said blocking member for reflecting said rays in a



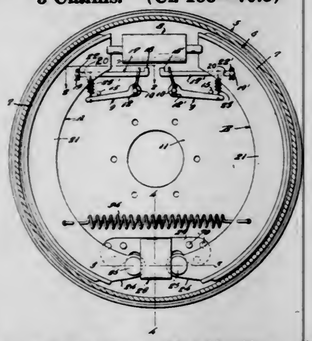
direction toward said negative, and a second reflector positioned to receive said reflected rays and to reflect the latter to said negative adjacent the edges thereof to provide uniform illumination thereof.

2,327,819

SELF-ADJUSTING BRAKE

William S. Robeson, Detroit, Mich.

Application October 9, 1941, Serial No. 414,344
3 Claims. (Cl. 188—79.5)



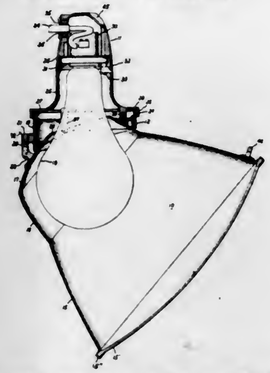
1. An automatic self-adjusting hydraulic wheel brake of the type involving a brake drum including a backing plate, a pair of lined brake shoes mounted at their lower ends for movement toward and away from the radially inward surface of said brake drum, and a wheel cylinder operatively connected between the upper ends of the brake shoes, an open ended boxing secured to said backing plate between the lower ends of the brake shoes, pins journaled in said lower ends, said pins having buttress portions slidable along the ends of the boxing toward the center of the wheel as the brake lining and the surface of the brake drum wear, a shoe retracting spring stretched between lower portions of said brake shoes, said retracting spring also acting to jam said buttress portions in new positions along the ends of the boxing as the shoes move further upwardly and outwardly toward conformance with the brake drum, and automatic adjustment means active to prevent the brake shoes from returning to their original positions beyond an amount sufficient to permit release of the brake shoes from the working surface of the brake drum.

2,327,820

LIGHT PROJECTOR

Stephen C. Rogers, Marblehead, Mass., assignor to General Electric Company, a corporation of New York

Application May 30, 1942, Serial No. 445,133
5 Claims. (Cl. 240—3)



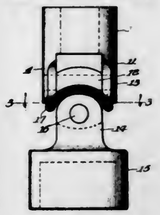
1. In a light projector, the combination of a conoidal reflector, a supporting yoke for said reflector, a housing projecting from the side of said reflector, an adjustable mounting between said reflector and said yoke, a sighting notch on said housing, a sighting bead mounted on said reflector arranged in respect to said sighting notch to provide a sighting line parallel to the axis of said reflector, and gripping means combined with said sighting bead, whereby said reflector may be adjusted relatively to its yoke.

2,327,821

UNIVERSAL JOINT FRICTION ATTACHMENT

Theodore O. Rueb, Chicago, Ill., assignor to The Sherman-Klove Co., Chicago, Ill., a corporation of Delaware

Application June 12, 1942, Serial No. 446,737
4 Claims. (Cl. 64—17)



1. A universal joint having oppositely pivotally connected forked members and having a resilient ring interposed between the ends of the opposed forks and frictionally engaging with said ends, said ring being stressed to place tension on said members and to cause friction between the ring and the ends of the forks.

2,327,822

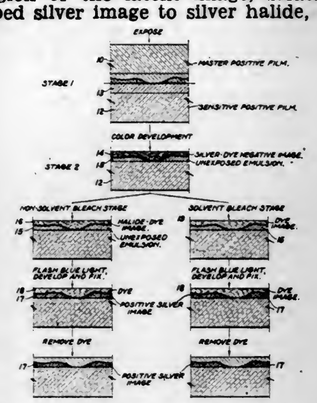
REVERSAL DUPLICATING PROCESS

Harold D. Russell and Howard A. Miller, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application August 6, 1941, Serial No. 405,660
3 Claims. (Cl. 95—6)

1. A method for obtaining contrast control in photographic reversal printing processes which

comprises exposing a colorless light-sensitive silver bromide emulsion layer through an original transparency, developing a yellow dye image in the region of the latent image, bleaching the developed silver image to silver halide, exposing



the originally unexposed silver halide through the dye image with light absorbed by the dye image, developing and fixing the film, then removing the dye image.

2,327,823

CATTLE MARKER

William F. Schacht, Huntington, Ind.

Application August 22, 1941, Serial No. 407,968
9 Claims. (Cl. 40—3)

1. An animal marker or the like, comprising a relatively rigid indicia bearing plate provided with an integral shank extending from its upper edge and rolled to form a closed eye, said eye being openable upon application of relatively heavy stress, an offset portion extending inwardly of the eye at the outer end of the shank; and a shoulder on the base of the shank underlying the outer end of the rolled shank and upon which the said outer end seats.

3. An animal marker or the like, comprising a relatively rigid indicia bearing plate; an integral shank extending from the upper edge of said plate; a spaced pair of tongues extending from the outer edge of said shank; said shank and



tongues being rolled to form spaced eyes having their common axis disposed parallel with the plane of the plate; each said eye being openable upon application of relatively heavy stress; an offset portion extending inwardly of each eye at the outer end of each tongue; and a shoulder on the base of the shank underlying and forming a seat for the outer end of each rolled tongue; said shoulder comprising a transverse rib pressed outwardly from the material of the shank.

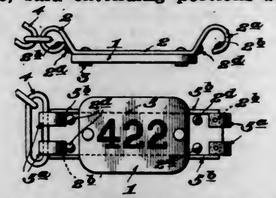
2,327,824

CATTLE MARKER

William F. Schacht, Huntington, Ind.

Application October 30, 1941, Serial No. 417,195
11 Claims. (Cl. 40—3)

1. An animal marker or the like comprising a non-metallic indicia bearing plate, a metallic strip secured to and extending across the back of said plate and extending beyond the sides of said plate, said extending portions being rolled



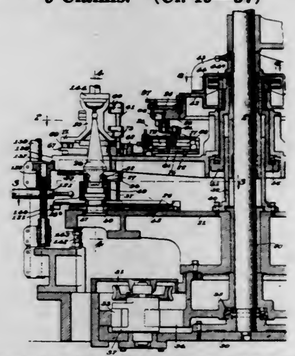
to form eyes; a chain having links at each end adapted to be engaged with the respective eyes; and means for preventing opening of the eyes.

2,327,825

APPARATUS FOR MAKING GLASSWARE

Harold R. Schutz, Toledo, Ohio, assignor to Libbey Glass Company, a corporation of Ohio

Application March 29, 1940, Serial No. 326,635
9 Claims. (Cl. 49—37)



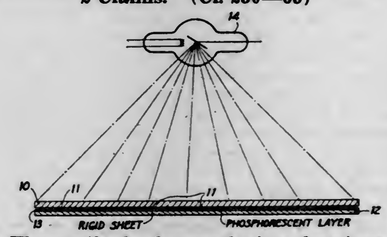
1. Apparatus for fabricating glass articles comprising, in combination, a work-holder for supporting a work-piece of plastic glass, an elevator in which the holder is supported, a press mold positioned above the said holder, automatic means for bringing the press mold into register with the holder, said elevator comprising relatively rotatable sections formed with cooperating cam surfaces, and means dependent on said registration of the press mold and holder and automatically operated at a predetermined time after such registration, to rotate one said section and thereby elevate the said work-piece holder.

2,327,826

METHOD OF REPRODUCING DRAWINGS

Harold F. Sherwood, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

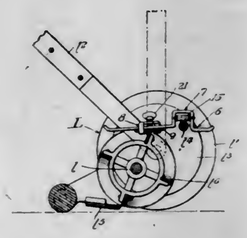
Application May 1, 1942, Serial No. 441,353
2 Claims. (Cl. 250—65)



1. The method of reproducing drawings and

the like which comprises making on a rigid sheet a design having areas which are rendered luminescent when activated by X-rays, exposing said sheet to X-rays whereby said areas are activated, holding said sheet while luminescent from such activation in contact with a second sheet carrying a layer which is rendered luminescent by the light emitted from the first sheet and holding said second sheet while thus luminescent in contact with a third sheet carrying a photographic layer sensitive to the luminescent light emitted from the second sheet.

2,327,827
LAWN MOWER SHARPENER
Alfred Silfen, Berkeley, Ill.
Application March 10, 1941, Serial No. 382,508
1 Claim. (Cl. 76—82.1)
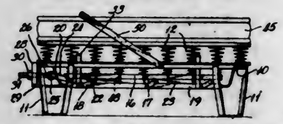


A sharpener of the back and forth movement type designed for use in sharpening a lawn mower having a horizontal rotor with spaced apart bevel edged peripheral blades and in addition a horizontal tie rod above and slightly forwards of the rotor, and comprising a one-piece flat metal bar having the portion thereof directly inwards of one of its end parts bent upwards to form an integral inverted U-shaped tie rod straddling guide with the outer side piece thereof materially longer than, and in parallel relation with, the inner side piece, said bar having its end extremities bent upwards to form handles, and in addition having said one end part extending at right angles to the outer end piece of the guide and its other end part of materially greater length than said one end part and extending downwards at an angle of approximately 170° with respect to said one end part, a cross pin underlying and extending lengthwise of the cross-piece of the guide and having the ends thereof fixedly secured to the upper ends of the guide side pieces so that it serves to prevent spreading of said side pieces and also the end parts, and means on, and adjustable longitudinally of, said other end part of the bar for retaining a blade sharpening file against the bottom face of said other end part and also guiding the blade at the top of the lawn mower rotor with respect to the file during use of the sharpener, said bar being adapted when in its normal operating position with the guide in straddled relation with the tie rod to have said one end part project forwards from the tie rod and extend horizontally and its said other end part extend rearwards and downwards over said blade at the top of the rotor, said other end part of the bar being of such length that when the bar is in its normal operating position the handle at its outer extremity is in substantially the same horizontal plane as the handle at the outer extremity of said one end part.

2,327,828
COLLOIDAL CARBON ANTIHALATION LAYER
Norwood L. Simmons, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application March 26, 1941, Serial No. 385,277
10 Claims. (Cl. 95—8)



1. The method of preparing anti-halations for photographic supports, which comprises mixing a carbon pigment with a water-insoluble, alkali-soluble, synthetic colloidal material, subjecting the mixture to vigorous shearing forces while in the condition of a highly viscous, plastic mass, so that a dispersion of the carbon pigment in the colloidal material is formed which may be diluted with organic liquids without precipitating the carbon pigment from the dispersion, diluting said dispersion with an organic liquid, and coating it on a photographic support.

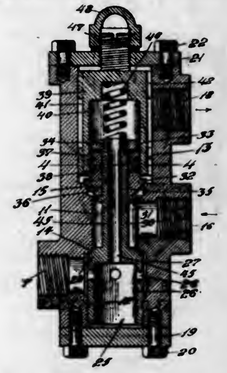
2,327,829
BED SPRING GAUGE
Huot W. Sternberg, Westport, and Rudolph O. Smith, Milford, Conn., assignors to The Owen Silent Spring Company, Inc., Bridgeport, Conn., a corporation of Connecticut
Application October 24, 1939, Serial No. 300,992
4 Claims. (Cl. 73—51)



3. In an apparatus of the character described, comprising a frame, a series of springs arranged in transverse rows, a movable support for the lower ends of each row of springs, and a toggle connection between said support and said frame, means for opening and closing said toggle to raise and lower the support for said springs, means bearing upon the upper ends of the springs and connected to the frame for preventing upward movement of the upper ends of the springs as the lower ends are raised, said means for opening and closing said toggles comprising a bar connected to the joints of said toggles, a threaded member pivotally connected to said bar, a second threaded member cooperating with said first threaded member and a bracket on the frame in which said second threaded member is supported for rotation and against longitudinal movement, an indicating bar connected to the frame and projecting upwardly along the side of the support for the springs, and means on said support and said indicating bar indicating the compression of the springs and the stiffness of the springs to be located in a corresponding section of the bed spring.

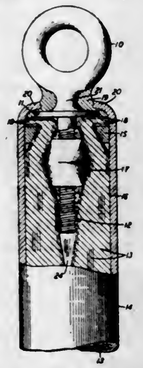
2,327,830
LOADING VALVE
Robert Stevenson and Alexander W. Keema, Providence, R. I., assignors to Merit Engineering, Inc., a corporation of Rhode Island
Application September 18, 1942, Serial No. 458,901
5 Claims. (Cl. 137—153)

1. In a loading valve, a body provided with a pair of oppositely facing valve seats, said body being provided with an inlet port communicating with the body between said valve seats, outlet ports one on either side of the pair of valve seats, a plunger in said body provided with a surface to engage one seat upon movement in one direction and a surface to engage the other seat upon movement in the other direction to control the outlet ports communicating with the inlet port,



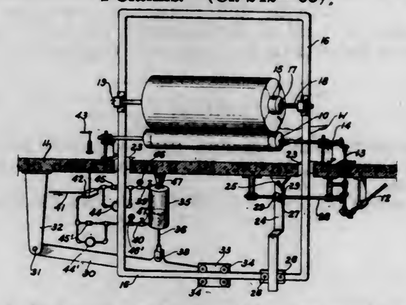
and means for exposing the opposite ends of the plunger to the same fluid pressure, said plunger presenting different diameters to said fluid pressure and controllable resilient means pressing on the plunger end of lesser diameter to assist the plunger in its action.

2,327,831
CABLE PULLING ATTACHMENT
Stanford M. Sutton, Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application November 24, 1942, Serial No. 466,823
12 Claims. (Cl. 24—123)



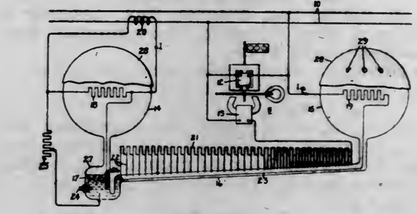
1. A pulling attachment for metallic sheath multi-conductor cables comprising a threaded member embedded in the end of the cable and coaxially disposed with respect to the sheath thereof, a nut mounted on said threaded member and bearing against said conductors, a ring positioned over the ends of said conductors, said conductors passing through said ring and bent over the top thereof, a flange integral with said threaded member in contact with said bent-over conductors for clamping said conductors against said ring and means surrounding said threaded member adjacent the end of said cable sheath for sealing said cable and making a connection thereto.

2,327,832
WEB WINDING APPARATUS
Carl P. Vogel, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application December 30, 1941, Serial No. 424,931
4 Claims. (Cl. 242—65)



1. In a web winding machine the combination with a driving cylinder, a wind-up roll for the web disposed above said driving cylinder and in rolling contact with the same to be rotated thereby, a supporting frame rotatably supporting said wind-up roll and adapted to move vertically, and rock longitudinally, relative to the axis of said driving cylinder to move the wind-up roll vertically, and rock the same longitudinally, relative to the driving cylinder while the wind-up roll is being rotated by the driving cylinder, means for continually rocking said supporting frame during the time the web is being wound on the wind-up roll, and fluid operated means acting on said supporting frame below the wind-up roll and adapted to move said wind-up roll vertically relative to said driving cylinder for varying the amount of pressure between the two in accordance with the change in size of the wind-up roll.

2,327,833
VOLT AMPERE MEASUREMENT REGULATOR
Russell A. Warner, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application October 27, 1942, Serial No. 463,493
5 Claims. (Cl. 171—95)



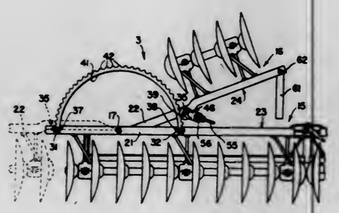
1. In a voltampere measuring system a regulator for obtaining a current proportional to another current comprising a sealed vessel having two gaseous expansion chambers connected by a U tube, the two chambers being normally sealed from each other by a heavy liquid conductor contained in the U tube, said expansion chambers being of substantially the same size and having substantially similar heat loss characteristics and containing substantially similar electric heaters, whereby when energized by substantially equal currents they produce substantially equal pressures on the liquid seal, a resistance external to the vessel but connected to the interior of the U tube by numerous tap connec-

tors, and means connecting one of said heaters in an electric circuit in series with said resistance and liquid conductor whereby variation in the position of the liquid conductor in the U tube varies said resistance and the current flow in the heater connected in series therewith, an increase of current through the heater connected in series with said resistance producing a pressure on said liquid seal which tends to move it in a direction to decrease such current.

2,327,834
DISK HARROW

Charles H. White, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois

Application August 13, 1941, Serial No. 406,606
15 Claims. (Cl. 55—81)



1. In a disk harrow, the combination of two oppositely extending disk gangs, each of said gangs comprising sections pivotally connected together for relative movement, mechanism optionally connectable with the sections of either gang for swinging one section thereof relative to the other, and means on the sections of both gangs adapted to receive said mechanism and support the latter in operative position for swinging one section of the gang relative to the other.

2,327,835
FUEL FOR GAS GENERATING AND DISPENSING SYSTEMS

Loyd J. White, San Antonio, Tex., assignor to Southern Steel Company, San Antonio, Tex., a corporation of Texas

No Drawing. Application December 6, 1941, Serial No. 421,994
2 Claims. (Cl. 44—52)

1. As a fuel for liquefied gas dispensing systems, a mixture of propane and gasoline consisting of between 70 parts propane, by volume, to 30 parts gasoline and 30 parts propane to 70 parts gasoline.

2,327,836
GLOVE

Ellery G. Willard, Johnstown, N. Y.

Application April 1, 1940, Serial No. 327,357
1 Claim. (Cl. 2—159)

A glove for golfers and the like comprising, in combination, front and back sections secured together to provide open-ended finger stalls, the front section extending beyond the palm and partially surrounding the wrist and having a thumb opening; the back section terminating short of the knuckles on the hand of the wearer and having a binding extending across the knuckle portion of the hand between the knuckles and the finger webs, thereby permitting freedom of move-

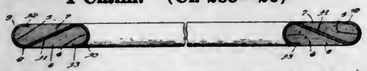


ment of the knuckle joints; and means to secure the glove on the wrist of the wearer.

2,327,837
GASKET

Ray W. Williams, Blue Island, Ill., assignor to United Conveyor Corporation, a corporation of Illinois

Application April 6, 1942, Serial No. 437,817
1 Claim. (Cl. 288—26)

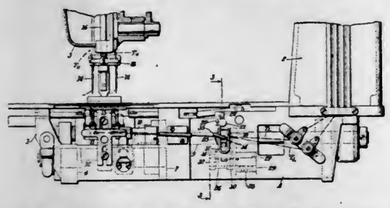


In a gasket-casing, a one piece annular body comprising inner and outer rounded edges formed as inwardly open substantially semi-cylindrical cross-sectioned portions joined by an annular frusto-conical portion integral and tangential at its inner and outer edges with alternate edges of said edge portions, whereby to provide opposite, complemental wedge-shaped recesses, the opening thereof forming substantially the whole of said opposite faces.

2,327,838
THREAD-CONTROLLING MECHANISM FOR SEWING MACHINES

Frederick F. Zeier, Fairfield, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey

Application April 10, 1941, Serial No. 387,809
5 Claims. (Cl. 112—246)



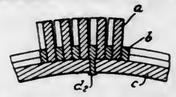
1. In combination with a threaded reciprocatory needle and a complemental thread-carrying looper, a thread-controlling mechanism including spaced thread-guides through which the looper-thread passes, a vibratory arm provided with laterally spaced thread-engaging limbs positioned to straddle at least one of said thread-guides, an oscillating lever pivotally supported at one end and provided at its other end with a socket adapted to receive said vibrating arm, a

rotary shaft, means operatively connecting said oscillating lever to said rotary shaft, and means for connecting said vibratory arm in the socket of said oscillating lever for circular adjustment about the longitudinal axis of said arm so that in one position of adjustment both of said thread-engaging limbs are effective on the looper-thread and operate to proportion the looper-thread and the needle-thread to produce an elastic stitch and in another position of adjustment only one of the thread-engaging limbs is effective on the looper-thread and operates to proportion the looper-thread and the needle-thread to produce an inelastic stitch.

2,327,839
TURBINE CONSTRUCTION

Hans Zschokke, Zurich, Switzerland, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland

Application March 24, 1941, Serial No. 385,036
In Switzerland March 26, 1940
1 Claim. (Cl. 253—39)

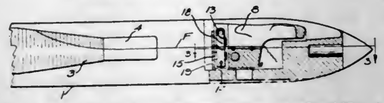


A rotor for a steam or gas turbine, said rotor including an annular metallic blade-carrying member, a plurality of metallic rooted blades mounted on the periphery of said blade-carrying member and a plurality of metallic spacers for spacing the blades about the periphery of the blade carrying member, wherein the blade roots and the spacers have substantially equal thicknesses in the direction of the periphery of the blade-carrying member, and wherein the metal of the blade-carrying member is a structural steel having a coefficient of expansion of about 14–15 x 10^{-6}, the metal of the blades is an austenite steel having a coefficient of expansion of about 17–19 x 10^{-6}, and the metal of the spacers is selected from the group consisting of such chromium steels containing from about 10 to about 35% chromium with remainder iron as have coefficients of expansion from about 11 x 10^{-6} to about 12 x 10^{-6} and such nickel steels containing from about 20 to about 60% nickel with remainder iron as have coefficients of expansion of approximately 8.5 x 10^{-6}, whereby the expansion of the blade roots and spacers, together, is maintained at a value not greater than that of the blade-carrying member.

2,327,840
LOOM SHUTTLE

Carl D. Brown, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a corporation of Maine

Application August 8, 1941, Serial No. 406,017
5 Claims. (Cl. 139—212)

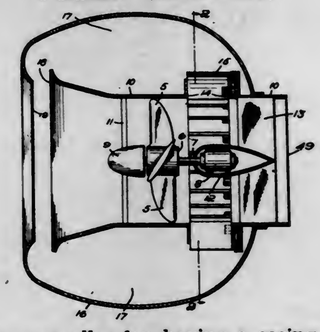


2. A loom shuttle comprising a shuttle body adapted to carry a supply of filling thread, thread delivery means including a longitudinal thread passage for the running filling thread, tension means in said thread passage comprising a pair of opposed movable friction pads adapted to grip said running filling thread to thereby tension the same, at least one of said pads having the property of being attracted by a magnet, a magnet adjustably positioned to attract the last said pad toward the other said pad for the purpose described, and a stop means for limiting the movement of said pads in the direction of said magnet.

2,327,841
PROPELLER FAN

Harold F. Hagen, Wellesley, Mass., assignor to B. F. Sturtevant Company, Hyde Park, Boston, Mass.

Original application June 12, 1940, Serial No. 340,126. Divided and this application November 29, 1941, Serial No. 420,930
6 Claims. (Cl. 230—114)

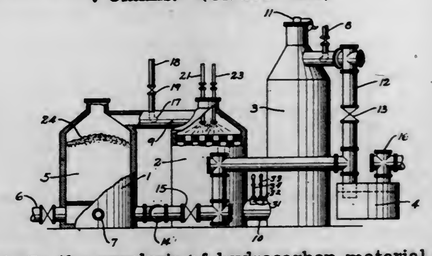


1. In a propeller fan having a casing with an air inlet and an outlet and having propeller blades mounted therein between said inlet and outlet, means forming a recirculated air outlet in said casing between said blades and said first mentioned outlet, means comprising an extension from said casing and forming an air guiding passage for air from said recirculated air outlet to said inlet, and means for spinning the air in said passage.

2,327,842
PRODUCTION OF VALUABLE HYDROCARBONS

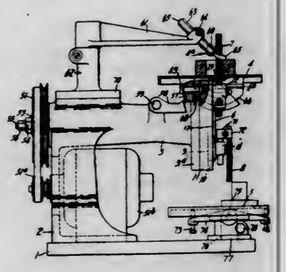
Newcomb K. Chaney, Moylan, Pa., assignor to The United Gas Improvement Company, a corporation of Pennsylvania

Application March 31, 1938, Serial No. 199,115
7 Claims. (Cl. 204—168)



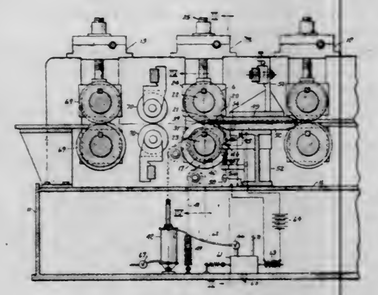
1. In the pyrolysis of hydrocarbon material in vapor phase with the production of valuable hydrocarbons, the step comprising favoring a hydrocarbon-producing reaction involved in said pyrolysis by contacting said vapor phase material undergoing pyrolysis with a catalyst for said hydrocarbon-producing reaction by dispersing said catalyst in finely divided form in said vapor phase material by means of an electric arc, while minimizing the heating effect of said arc upon the vapor phase material involved in said pyrolysis by contacting said arc with less than the preponderant portion of said vapor phase material.

2,327,843
FILING MACHINE
John Jesionowski, Hartford, Conn.
Application August 27, 1940, Serial No. 354,409
14 Claims. (Cl. 29—76)



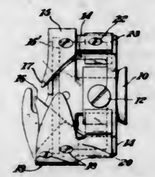
1. In a filing machine, a reciprocable file carrying slide, crank mechanism for operating the same including an adjustable member for adjusting the stroke of said mechanism and a rotatable power driven member carrying said adjustable member at one end thereof, and means for adjusting said first mentioned member to vary the stroke of said crank mechanism including a tensioning spring within said power driven member and a friction clutch having a friction member tensioned by said spring and carried by said power driven member and adjustable from the remote end of the latter.

2,327,844
APPARATUS FOR MAKING METALLIC SURFACING SHEETS
Dwight A. Johnston, Youngstown, Ohio, assignor to McKay Machine Company, Youngstown, Ohio, a corporation of Ohio
Application September 14, 1939, Serial No. 294,902
5 Claims. (Cl. 153—77)



1. Apparatus for imparting transversely extending deformations in metal sheets having longitudinally extending deformations comprising in combination a pair of spaced parallel shafts, freely rotating annular rings journaled on said shafts and arranged in pairs to provide guiding passes coincident with said longitudinal deformations, complementary deforming dies keyed to said shafts intermediate said rings, and means to rotate said shafts in unison but in opposite directions whereby a metal sheet may be deformed transversely while passing longitudinally between said shafts and while being guided by said rings.

2,327,845
ROTARY HOOK FOR SEWING MACHINES
John D. Karle, Roselle Park, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application November 5, 1940, Serial No. 364,373
3 Claims. (Cl. 112—228)

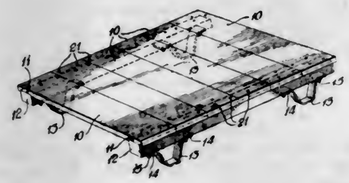


1. A rotary hook for sewing machines comprising a cup-shaped body formed with a rim portion and a centrally located hub, the rim portion being formed with a loop-seizing beak and a gap adjacent said beak, a guard-plate secured to the outer periphery of the rim portion and fan-blades carried by said guard-plate.

2,327,846
GRINDING WHEEL
Samuel S. Kistler, West Boylston, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts
No Drawing. Original application August 19, 1939, Serial No. 291,008. Divided and this application January 16, 1941, Serial No. 374,706
6 Claims. (Cl. 51—295)

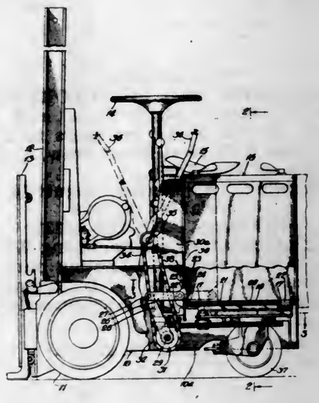
1. As a new article of manufacture, a grinding wheel comprising abrasive grains, acid insoluble organic bond holding the abrasive grains together, and a filler of polyvinyl chloride.

2,327,847
SKID PLATFORM
George Quayle, Philadelphia, Pa., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn., a corporation of Connecticut
Application December 5, 1941, Serial No. 421,730
4 Claims. (Cl. 248—120)



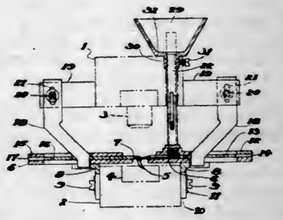
3. In a skid platform of the class described, a floor comprising a series of wood boards in juxtaposed side by side position, the underside of said floor having a groove transversely of said boards near each side edge of said floor and with both sides of each groove displaced from the side edges of the floor, a wood stringer in each of said grooves and secured in said grooves and relatively to said boards to form an assembled skid floor, a portion of each stringer extending downwardly and outwardly of said grooves, legs for said skids having flanges to be applied to the extending undersurfaces of said stringers, and bolts adapted to pass vertically through said flanges and said stringers to secure said legs to said stringers.

2,327,848
INDUSTRIAL TRUCK
Charles S. Schroeder, Philadelphia, Pa., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn., a corporation of Connecticut
Original application August 3, 1940, Serial No. 350,728. Divided and this application January 28, 1942, Serial No. 428,473
10 Claims. (Cl. 214—113)



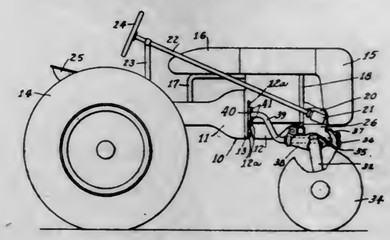
1. In a truck of the class described, a main frame, front and rear supporting wheels for said main frame, a battery compartment, bearing means on said main frame supporting said battery compartment for longitudinal sliding movement relatively to said main frame, and means for moving said compartment on said bearing means.

2,327,849
AUTOMATIC FEEDING DEVICE
Bruce Elder Wolfe, Lancaster, Pa., assignor to Hamilton Watch Company, Lancaster, Pa.
Application June 11, 1941, Serial No. 397,645
8 Claims. (Cl. 78—96)



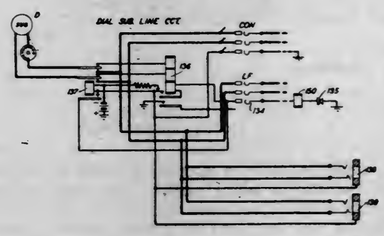
8. In a device of the character described, a pair of die assemblies arranged for controlled relative movement with respect to each other, a workpiece feeder member, a workpiece stop member, supply means for guiding a workpiece into operative position with respect to said feeder member, cam members independently adjustably carried on one of said die assemblies and engaging the workpiece feeder member and said workpiece stop member to operate said members to properly position said workpiece with respect to the die assemblies.

2,327,850
VEHICLE
David B. Baker, Riverside, and William O. Bechman, Chicago, Ill., assignors to International Harvester Company, a corporation of New Jersey
Application March 24, 1941, Serial No. 384,786
8 Claims. (Cl. 280—111)



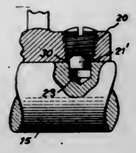
1. In a vehicle, the combination of a longitudinal main frame having a rear part and a front part, a support carried on the front part, an arched axle structure including an upper portion disposed transversely of the front part adjacent the support, and a brace member connected at one end to the frame adjacent the rear part and extending generally alongside the frame toward the support, said member including a pivot portion connecting the support and the upper portion of the axle structure and providing a bearing on which the axle structure may oscillate with respect to the support.

2,327,851
PRIVATE BRANCH EXCHANGE SYSTEM
Henry M. Bascom, New York, and Frederick R. Lamberty, Brooklyn, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application April 11, 1942, Serial No. 438,580
9 Claims. (Cl. 179—27)



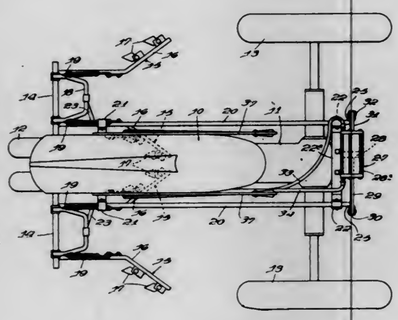
1. In a common battery telephone system, a manual switchboard, an automatic exchange, manual and dial subscribers' lines appearing in multiple jacks of the switchboard, a predetermined negative potential source connected to the sleeve terminals of said jacks, said dial lines also appearing in automatic switches at said exchange which switches connect ground to the associated multiple jack sleeve when a line is seized thereby, a cord circuit at said switchboard for connecting to said lines a sleeve circuit in each end of the cord including means for conditioning said cord to conversation responsive to connection of either end of the cord to any idle one of said lines, and other means in each cord sleeve to cause said cord to be conditioned for conversation when said cord is connected to a dial line whose sleeve circuit is at ground potential.

2,327,852
DRIVE CONNECTION
James W. Batchelder, Waterbury, Conn.
Application January 9, 1942, Serial No. 426,147
5 Claims. (Cl. 287—52.08)



5. Means for holding two relatively movable members against more than a predetermined movement comprising a tapered threaded bore in one of said members and an aperture in the other of said members and a tapered threaded set screw adapted to be threaded into said tapered bore until it locks by frictional engagement of the threads, said set screw having an unthreaded end adapted to extend into said aperture when said screw is locked.

2,327,853
POWER LIFT MECHANISM FOR TRACTORS
Bert R. Benjamin, Oak Park, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application June 30, 1942, Serial No. 449,105
12 Claims. (Cl. 97—50)



1. In combination, a tractor having a longitudinally extending body portion, a pair of soil-tilling rigs respectively connected at each side of the tractor for vertical height-changing movement with respect thereto, lifting levers respectively connected at each side of the tractor, lift rods for each rig to connect the same respectively to the lifting levers to cause height-changing movement of said rigs pursuant to pivotal movement of said levers, a pair of longitudinally extending shaft members having crank arms respectively at each end, bearing elements mounted on the tractor for connecting the shaft members at each side of said tractor, force-transmitting members connected respectively to the lifting levers and to the crank arms at one end of the shaft members, and fluid-pressure means at an end of the tractor and respectively connected to the crank arms at the other end of the shaft members for rocking said shaft members about their longitudinal axes to cause the aforesaid pivotal movement of the lifting levers for changing the height of said rigs.

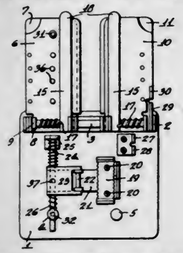
2,327,854
CRAYON
Per Johan Berggren, New York, N. Y.
No Drawing. Original application October 6, 1937, Serial No. 167,538. Divided and this application September 19, 1940, Serial No. 357,354
4 Claims. (Cl. 106—19)

1. A crayon of the type described, comprising a mixture of substantially five parts by weight of carnauba wax and substantially one part by weight of triple pressed stearic acid, and having approximately ninety drops of olive oil per ounce of mixture incorporated therein.

2,327,855
PREPARATION OF 2,3 DICHLORDIOXANE
William P. Bitler, Haverstraw, and Leonard Nicholl, Nyack, N. Y., assignors to Kay-Fries Chemicals, Inc., West Haverstraw, N. Y., a corporation of New York
No Drawing. Application August 30, 1941, Serial No. 409,038
4 Claims. (Cl. 260—338)

1. The process for manufacturing 2.3 dichlordioxane which consists in heating para-dioxane to a temperature of 80 to 90° C., adding sulfuryl chloride gradually to the heated material to completion of the reaction.

2,327,856
FILM SPLICER
Jacques Bolsey, New York, N. Y.
Application April 25, 1940, Serial No. 331,493
10 Claims. (Cl. 154—42)

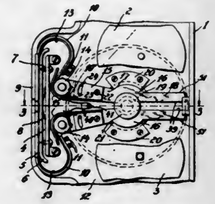


1. In a film splicing apparatus a base, a pair of table plates for receiving a film, a pair of cover plates holding said film on said table plates, said table and cover plates forming juxtaposed units consisting each of a table plate and a superimposed cover plate, means hingeably supporting said plate units in such a manner that they are adapted to be shifted to and from each other and to be swung with respect to each other, the cover and table plates of the respective units having cooperating contiguous overlapping shearing edges, thereby enabling cutting of the film ends with the inner contacting edges of said plates and splicing of the film ends by means of the same film plates, and spring-like acting means arranged in such a manner as to hold the plates of one plate unit pressed against the corresponding plates of the other plate unit only when in operative cutting and splicing position, but permitting free shifting of the plate units to and from each other when in inoperative position.

2,327,857
FILM THREADING SYSTEM
Jacques Bolsey, New York, N. Y.
Application October 26, 1940, Serial No. 326,915
15 Claims. (Cl. 88—17)

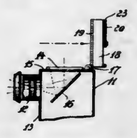
1. In a motion picture apparatus, a film gate,

stationary loop-forming members cooperating with said film gate for substantially automatic threading of a film, two transport sprockets for transporting said film through said apparatus, two film guides, each arranged between one of said sprockets and said stationary loop-forming members guiding the film transported by said sprockets against the inner faces of said stationary loop-forming members, compelling thereby said film to move along said inner faces of said



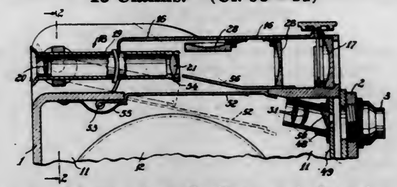
stationary loop-forming members and past said film gate, and two members each carrying one of said sprockets and one of said film guides slidably between two positions one of which is nearer to the corresponding loop-forming member and the other farther therefrom, enabling thus moving of said sprockets and said film guides after threading from said nearer to said farther position, thereby shortening the film loop portions being adjacent to said loop-forming members and moving these film loop portions out of contact with these loop-forming members.

2,327,858
EXPOSUREMETER
Jacques Bolsey, New York, N. Y.
Application December 31, 1940, Serial No. 372,505
In Switzerland November 8, 1940
8 Claims. (Cl. 88—23)



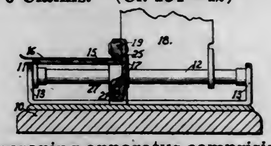
1. In a reflex camera a camera casing, a frontal lens in the front wall of said casing, a viewing member in the top wall of said casing, a reflecting mirror within said casing adapted to reflect the light rays entering the casing through said lens onto said viewing member and thus to project an image of the object to be photographed on this member, a photo-electric exposuremeter comprising a photo-electric cell and a pointer, and means securing at least said photo-electric cell to the top wall of said camera casing movably between a position in which the light-sensitive surface of said photo-electric cell faces said viewing member and the image projected on it, and a position in which this surface is facing the object to be photographed, said securing means and that part of said camera casing which is located between said securing means and the front edge of said camera casing being arranged and shaped in such a manner that light rays emitted or reflected by the object to be photographed in direction of said camera casing are unobstructedly impinging upon the light-sensitive surface of said photo-electric cell when the same is in a position in which this surface is facing the object to be photographed.

2,327,859
COMBINED VIEW-FINDING AND FOCUSING DEVICE
Jacques Bolsey, New York, N. Y.
Application March 28, 1941, Serial No. 385,633
13 Claims. (Cl. 95—44)



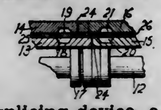
1. Combined view finding and focusing device for motion picture cameras provided with a movable support carrying at least two camera lenses adapted to be moved alternately into and out of picture taking position, said device comprising a stationary view finder objective, and a viewing ocular adapted to be turned to and fro between view-finding position cooperating with said view finder objective, and focusing position cooperating with one of the camera leases which is moved out of picture taking position.

2,327,860
FILM SCRAPING DEVICE
Jacques Bolsey, New York, N. Y.
Application October 27, 1942, Serial No. 463,463
6 Claims. (Cl. 154—42)



5. A film scraping apparatus comprising a base, a plate supporting the film during scraping, said plate having a straight cutting edge, a cutting device for cutting off the film lying on said plate along said cutting edge so that after cutting the film portion to be scraped off is lying on said plate adjacent to said cutting edge, a scraper head, guiding means for said scraper head enabling its to and fro movement parallel to said cutting edge, and at least one hinge member connecting said guiding means and said scraper head, said hinge member positioned during scraping under the plane of said supporting plate and having its axis of turning parallel to said cutting edge, so as to enable tilting of said scraper head between inoperative position under the plane of said supporting plate and operative position in contact with the film portion lying on said supporting plate adjacent to said cutting edge.

2,327,861
FILM SPLICING DEVICE
Jacques Bolsey, New York, N. Y.
Application October 27, 1942, Serial No. 463,464
2 Claims. (Cl. 154—42)

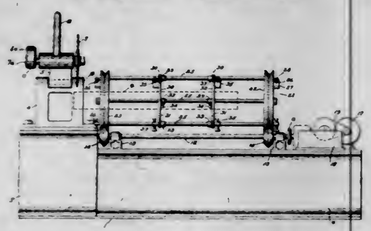


1. In a film splicing device, a film clamp having a pair of coacting film clamping jaws, at least one of said jaws being provided in the clamping face thereof with a groove extending parallel with and close to a side edge of said jaw to prevent cement from flowing inwardly beyond said groove between the film and said jaw.

2,327,862
PHONOGRAPH RECORD
Joseph N. Borglin, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 3, 1940, Serial No. 359,547
11 Claims. (Cl. 106—37)

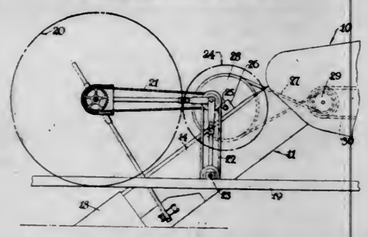
1. A phonograph record having a record surface comprising polymerized rosin and shellac in such proportions that the ratio of polymerized rosin to shellac is not less than about 1 to 4 and not over about 3 to 1.

2,327,863
CUTTING-OFF MACHINE
Floyd G. Bovard, Akron, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a corporation of New Jersey
Application July 24, 1942, Serial No. 452,242
17 Claims. (Cl. 51—105)



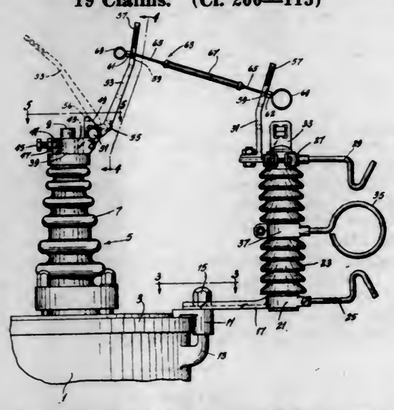
1. A machine for the purpose described comprising, a base, a cutting unit mounted on the base and comprising a disc of abrasive material and a motor to rotate the disc, means to hold the work adjacent to the disc and continuously rotate the work in one direction and rotatable means supported by the base to support and to rotate the work supporting means at a relative slow speed, compared to that of the disc, the axes of rotation of the said means being parallel and spaced apart and means to move the disc into engagement with the rotating work.

2,327,864
HARVESTER
John R. Brogard, St. Joseph, Mo., and Fred B. De Blieck, East Moline, Ill., assignors to International Harvester Company, a corporation of New Jersey
Application August 11, 1941, Serial No. 406,263
1 Claim. (Cl. 56—122)



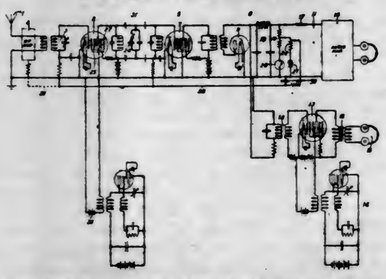
In a harvester thresher, a separator, a scoop-type platform feeder pivotally mounted on the separator, grain-cutting means mounted on the feeder, a conveyer mounted on the scoop-type platform feeder at the rear of the cutting means for conveying cut grain into the separator, a first rotatable reel carried by the feeder and positioned above the cutting means for urging the standing grain into the cutting means, and a second rotatable reel carried by the feeder and positioned closely adjacent the rear of the first reel and closely above the conveyer whereby the grain is stripped from the first reel and forced down on the conveyer.

2,327,865
ELECTRICAL PROTECTIVE DEVICE
Kenneth R. Brown, Des Moines, Iowa, Murray C. Cooley, University City, and Herbert H. Wefeler, Webster Groves, Mo., assignors to W. N. Matthews Corporation, St. Louis, Mo., a corporation of Missouri
Application August 1, 1941, Serial No. 405,044
19 Claims. (Cl. 200—115)



1. Protective apparatus comprising a line wire connection having a conducting arm, an insulator supporting said connection, conducting means for supporting said insulator and having an adjustable support, gap means between said line wire connection and the support and located on said insulator, a conducting arm having an adjustable rotary connection with respect to a second insulator and extending upwardly, said arm being adjustable into the plane of the arm of said line wire connection, means biasing said second arm from the first arm, and a laterally located removable fuse link attached to said arms.

2,327,866
MODULATOR
Horace T. Budenbom, Short Hills, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 16, 1933, Serial No. 676,135
2 Claims. (Cl. 250—20)



1. In a signal receiving and translating system, a bias controlled modulator stage comprising a vacuum tube having a cathode, an anode and at least two grids interposed between the anode and cathode, one of said grids having impressed thereon the signal voltage and the bias control voltage, said other grid having impressed thereon an alternating voltage, whereby space-path modulation is effected in said tube, means responsive to the output of said modulator for causing said bias voltage to automatically vary in proportion to the received signal intensity, whereby the output of said modulator stage is maintained more nearly constant than the input over a wide range of received signal intensities.

2,327,867
AMMUNITION
Gordon M. Calhoun, Bridgeport, Conn., assignor to Remington Arms Company, Inc., a corporation of Delaware
No Drawing. Application August 8, 1940, Serial No. 351,919
7 Claims. (Cl. 52—4)

1. In the manufacture of ammunition priming compositions by the wet mixing of ingredients including lead nitrate and lead hypophosphite, the method of improving the workability of the wet mixture and the stability of the finished mixture under storage which comprises adding thereto a tri nitro hydroxy benzol during mixing.

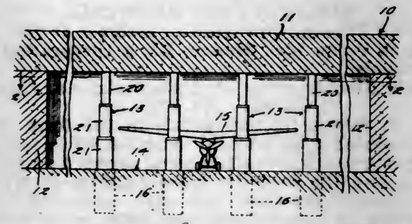
7. An ammunition priming composition of ingredients and proportions substantially as follows:

	Per cent
Lead hypophosphite	8 to 10
Lead nitrate	10 to 12
Lead styphnate	28 to 33
Barium nitrate	14 to 23½
Glass	30
Trinitroresorcin	.5 to 2

2,327,868
TREATMENT OF GLASS SURFACES
Walter E. Campbell, Tarentum, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
No Drawing. Application August 28, 1941, Serial No. 408,653
5 Claims. (Cl. 41—40)

1. A process of treating a glass surface, which comprises applying a film of adhesive to the glass surface and subjecting the treated surface to temperatures reduced sufficiently to cause chipping off of adhesive and glass therefrom.

2,327,869
ROOF AND ITS SUPPORT
Dean W. Carlson, Vallejo, Calif.
Application July 2, 1942, Serial No. 449,412
7 Claims. (Cl. 108—1)

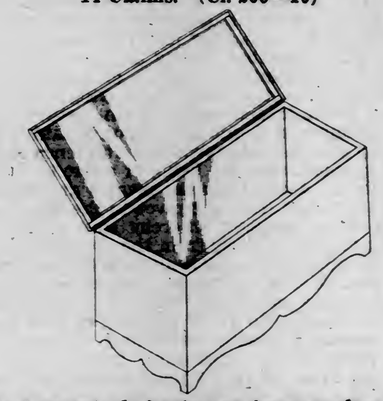


1. In combination with a roof, a multiplicity of supporting means therefor, each means being retractile independently of the remainder to enable a body to be passed over it while retracted.

2,327,870
METAL SURFACE FINISHING
Charles D. Coxe, Bridgeport, Conn., assignor to Remington Arms Company, Inc., a corporation of Delaware
No Drawing. Application December 16, 1939, Serial No. 309,576
4 Claims. (Cl. 204—36)

1. The process of finishing the surfaces of ferrous articles comprising: subjecting the articles to anodic oxidation in a sodium hydroxide solution with a specific gravity of substantially 1.3 to 1.4 and at a temperature between substantially 248° and 266° F. for substantially 30 minutes with a current density of substantially 100 amperes per square foot of article surface to form a steely gray hard tenacious oxide film covered with an exterior softer oxide film on the surface of the articles; and then removing the exterior oxide film leaving exposed the steely gray hard tenacious oxide film.

2,327,871
CEDAR CHEST
Ernest C. Crocker, Belmont, Mass., assignor, by mesne assignments, to The Lane Company, Inc., a corporation of Virginia
Application July 3, 1940, Serial No. 343,903
14 Claims. (Cl. 206—10)



1. A receptacle having an inner surface made of cedar-oil-bearing wood and coated with a urea-aldehyde condensation product.

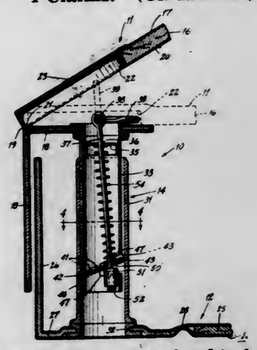
13. Method of controlling the rate of emanation of cedar aroma from and preventing the formation of gummy deposits upon the inner cedar aroma emanating surfaces of receptacles having an inner surface made of cedar-oil-bearing wood which comprises coating the same with an aqueous solution of a urea-aldehyde condensation product capable of polymerizing in bulk to a non-tacky condition in 1 to 4 hours.

2,327,872
METHOD OF MAKING SYNTHETIC MATERIALS SUCH AS FIBERS
Joseph Dahle, Boston, Mass., assignor to Pro-phylac-tic Brush Company, Northampton, Mass., a corporation of Delaware
No Drawing. Application July 1, 1940, Serial No. 343,439
1 Claim. (Cl. 18—54)

The method which comprises forming into a predetermined shape a mass of a polyvinyl compound containing unreacted hydroxyl groups, stretching the shaped mass beyond its elastic limit and while maintaining such stretched condition reacting said compound with a substance

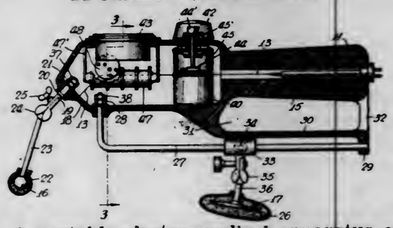
capable of reacting with the hydroxyl groups, said substance being selected from the group consisting of a carboxylic acid, an aldehyde and a ketone.

2,327,873
LOCKING POST CONSTRUCTION
James C. Dawson, Jr., Kirkwood, Mo.
Application August 3, 1942, Serial No. 453,314
4 Claims. (Cl. 129—13)



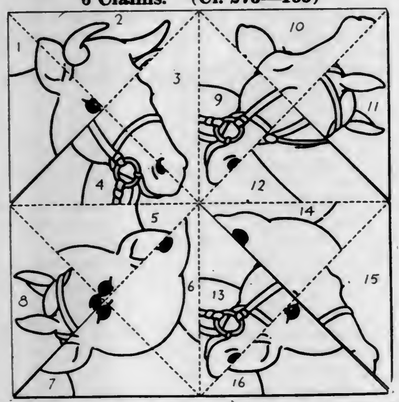
4. In a mechanism of the kind described, a first tubular member, a second tubular member adapted to be telescoped into the first, a notch in the inner member having an upper edge extending a substantial angular distance around the member, a dog, said dog having a portion in said notch, interengaging means between said inner member and said dog opposite said notch, whereby said dog may pivot with reference to said inner member, said dog being of a size to extend through the notch from the pivot a greater distance than that from the pivot to the inner wall of the outer member, whereby said portion of the dog may pivot away from the open end of the outer member into engagement with said inner wall, said portion having an angular dimension to engage the said inner wall for a substantial angular distance to avoid marring of said inner wall, releasing means extending through the inner member and engageable with the dog to draw the same about its pivot toward the open end of the outer member to remove its projecting portion from engagement with the inner wall of the outer member, and means resiliently urging the dog into said engagement in opposition to the releasing means.

2,327,874
PORTABLE ELECTROMEDICAL APPARATUS
Herman de Jong, New York, N. Y., assignor to Modern Inventions Corporation
Application April 16, 1942, Serial No. 439,177
14 Claims. (Cl. 128—405)



1. A portable electro-medical apparatus comprising a combined casing and a handle unit, an electrode near the forward end of said unit having a universal joint mount and a second electrode having a sliding mount along said casing and a universal joint between said sliding mount and the electrode for adjustment in position and inclination of the latter, said electrodes in adjusted position being substantially rigid with said casing, whereby the apparatus held by the handle may be positioned with its electrodes against the patient.

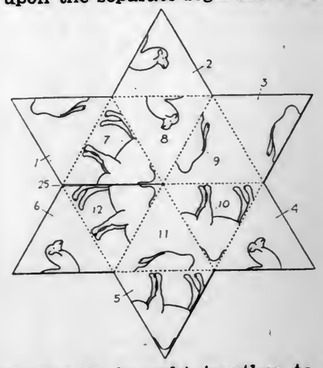
2,327,875
FOLDING PICTURE PUZZLE
Harold Edborg, Chicago, Ill., assignor to Strombeck Press, Inc., Moline, Ill., a corporation of Illinois
Application January 10, 1942, Serial No. 426,307
6 Claims. (Cl. 273—155)



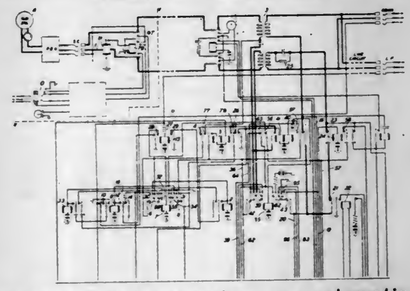
1. A picture puzzle comprising a square sheet provided with medial fold lines dividing the sheet into squares, each of said squares being provided with a pair of diagonal fold lines, said sheet being foldable in either direction on each of said fold lines, one of said squares being cut in two along the diagonal from the corner of the sheet to the center thereof, an adjacent square being cut along the diagonal from the corner of the sheet to the center of the square, and the remaining two squares being cut from the edges of the sheet at the ends of the medial fold lines dividing said remaining two squares from the first two squares, the last mentioned cuts extending from their origins at the edges of the sheet along the diagonals of the said remaining two squares to the centers thereof, at least some of the triangles formed by the diagonals in said squares being provided with indicia, four of which cooperate to show a visual image of a well known object, the size of one of said squares, when the sheet is properly folded.

2,327,876
FOLDING PICTURE PUZZLE
Harold Edborg, Chicago, Ill., assignor to Strombeck Press, Inc., Moline, Ill., a corporation of Illinois
Application January 10, 1942, Serial No. 426,308
2 Claims. (Cl. 273—155)

1. A folding picture puzzle in the form of a six-pointed star formed from sheet material, opposite reentrant angles being connected by fold lines and the material being foldable in either direction along these fold lines, said fold lines meeting at substantially the geometrical center of the puzzle and one of the fold lines being incised from said center to the reentrant angle at one end of said fold line, adjacent reentrant angles being connected by fold lines so that the points of the star can be folded in either direction with relation to the body thereof, and partial pictures upon the separate segments of the puzzle which may be brought together to form a complete picture by proper folding along the fold lines.



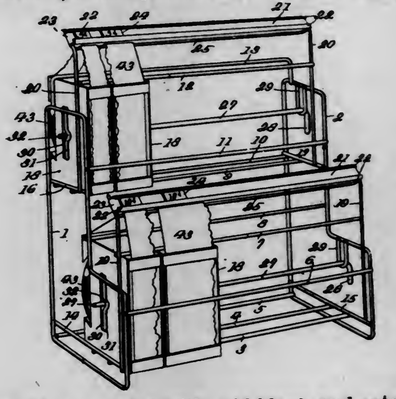
2,327,877
TELEPHONE CALL DIVERTING SYSTEM
Edson L. Erwin, Towaco, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application March 31, 1942, Serial No. 437,007
9 Claims. (Cl. 179—27)



1. In a telephone system, an automatic exchange, an operator's position thereat, a central office, a trunk line extending from said exchange to said central office and terminating in automatic switches thereat, a subscriber's line terminating in said exchange adapted to transmit groups of dial impulses to extend said line to said trunk and to control said automatic switches at the central office, means in said trunk at the exchange responsive to a reversal of current over said trunk to disconnect said line from the trunk and connect it to the operator's position, and other means in said trunk effective in response to a predetermined minimum time interval between successive groups of dial impulses transmitted to cause a current reversal to be transmitted over said trunk to said exchange.

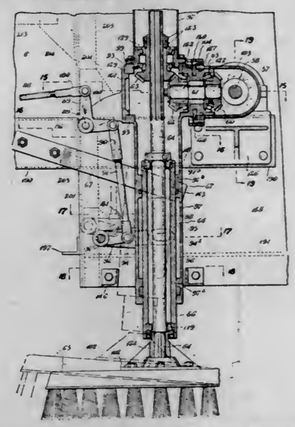
2,327,878
DISPLAY AND DISPENSING MEANS
Edward Ezrol, Brooklyn, N. Y., assignor to Herbert Robinson and Otto A. Golluber, doing business under partnership name Robinson and Golluber, New York, N. Y.
Application February 1, 1941, Serial No. 377,027
1 Claim. (Cl. 312—39)

A display device of the character described, particularly adapted for displaying and dispensing lace, ribbon, braid and the like material, and consisting essentially of a one-piece blank of sheet material foldable to provide a container for housing said material to be displayed and dispensed, said blank including a section defining and constituting the front wall of said container, said section being provided with a window-opening therein, a transparent cover for said opening



integrally associated with said blank and extending over the entire extent of said opening, and means for defining a passageway behind and essentially coextensive with said front wall between the latter and the material in the container when the blank is folded into container form, whereby the material may pass through said passageway along essentially the entire extent of said front wall.

2,327,879
STREET SWEEPER
Alvin J. Farrar, Cleveland, Ohio, assignor to The Van Dorn Iron Works Company, Cleveland, Ohio, a corporation of Ohio
Application May 14, 1940, Serial No. 335,110
6 Claims. (Cl. 15—87)



1. In a street sweeper, a curb-broom attachment comprising a downwardly-extended shaft, means for rotating the shaft, a broom secured to the lower end of the shaft, a sleeve axially fixed to the shaft and in which the latter rotates, and means for lifting and lowering the broom comprising a rotatable support, arms secured to said support and having free ends which enclose the

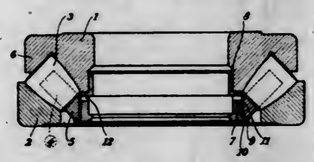
sleeve, outwardly-extended pins secured to said sleeve, the free ends of the arms being formed with elongated slots intersected by said pins, and actuating means for the support.

2,327,880

AXIAL BALL OR ROLLER BEARINGS

Gustav Wallentin Fernström, Gothenburg, Sweden, assignor to Aktiebolaget Svenska Kullagerfabriken, Goteborg, Sweden, a corporation of Sweden

Application October 16, 1940, Serial No. 361,378
In Sweden December 15, 1939
4 Claims. (Cl. 308—231)



1. A thrust anti-friction bearing comprising a pair of bearing rings and a set of rolling bodies interposed between the said bearing rings, one of the said bearing rings having a flange at its outer periphery, a sleeve extending into and secured within the bore of the said flanged bearing ring and extending axially toward the other bearing ring, there being a radially extending flange at the end of the said extension, a cage having a substantially cylindrical bore journaled on said sleeve and a substantially plane surface bearing against the flange of the said sleeve, the said cage having tongues projecting between and partially embracing the rolling bodies so as to retain the latter, the flanged ring, the sleeve, the set of rolling bodies and the cage being interconnected to form a separate handling unit independent of the other bearing ring.

2,327,881

TWO-PIECE WAISTLINE BELT FOR UNIFORMS AND OTHER GARMENTS

Abraham Friedman, New York, N. Y.

Application February 11, 1942, Serial No. 430,334
6 Claims. (Cl. 2—74)



1. A two piece waistline belt, comprising a straight top belt section of cylindrical form for attachment to the bottom edge of the bodice portion of a garment, and a substantially arcuate bottom belt section having its concaved side stitched to the free bottom edge of said top section and its convexed side flared downwards and outwards for attachment to the top edge of the skirt portion of said garment which has its top portion flared downwards and outwards.

2,327,882

BITUMINOUS BASE DISPERSION FOR USE IN THE PRODUCTION OF COLORED BITUMEN DISPERSIONS

Leonard Gowen Gabriel and John Alfred Rawlinson, London, England

No Drawing. Application August 16, 1940, Serial No. 352,944. In Great Britain August 25, 1939
5 Claims. (Cl. 106—277)

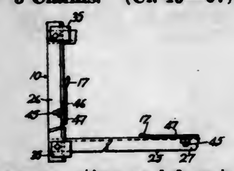
1. A process for the preparation of stable bituminous base dispersions for use in the production of colored bitumen dispersions having very low viscosity which comprises mixing a substance selected from the group consisting of bitumen and aqueous bitumen dispersions with an aqueous dispersion of a bentonite to form a stable bituminous dispersion of very low viscosity, the total amount of water present in the two components being such that the resultant dispersion contains not more than 25% by weight of bitumen calculated upon the weight of said resultant dispersion excluding the weight of said bentonite; and allowing said dispersion to stand.

2,327,883

SKELETON MOLD

Henry J. Galey, Tarentum, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania

Application January 16, 1940, Serial No. 314,071
3 Claims. (Cl. 49—67)



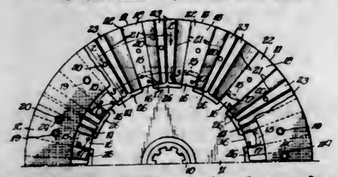
1. A glass supporting and forming mold comprising a continuous upright wall body having a curved glass receiving upper edge and being free from inner transverse and longitudinal structural elements, side frame members disposed at opposite outer sides of the wall body along the lower portions thereof in such position that the wall projects thereabove, end frames members disposed across the end portions of the side frame members and opposite end portions of the wall body, devices rigidly and releasably connecting the frame members, and additional means rigidly and releasably connecting the frame members to the wall body, said devices including demountable and adjustable fastening elements to provide a frame structure capable of receiving wall bodies of various sizes.

2,327,884

CLUTCH PLATE

George I. Goodwin, Detroit, Mich.

Application March 29, 1940, Serial No. 326,753
15 Claims. (Cl. 192—107)



2. In a clutch plate, a pair of annular friction facings, a disk provided with a number of circumferentially spaced projections which terminate short of the facings, and cushioning means for the facings carried by the projections.

2,327,885

AMMUNITION MANUFACTURE

Robert H. Grace, Bridgeport, Conn., and Isaac F. Walker, Wilmington, Del., assignors to Remington Arms Company, Inc., a corporation of Delaware

No Drawing. Application May 13, 1939, Serial No. 273,583
6 Claims. (Cl. 117—89)

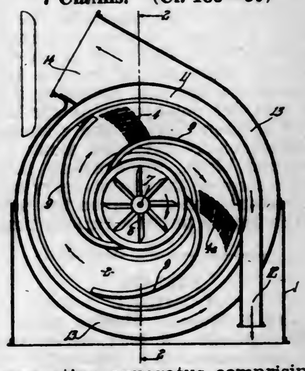
1. The method of manufacturing corrodible metal ammunition components comprising the steps of copper plating the component; subjecting the plated component to a solution containing an acid selected from the group consisting of phosphoric, sulphuric, chromic and molybdic acids; and then affixing a coating to the plated and passivated component comprising applying a composition thereto including wax and an aliphatic monoamine having at least six carbon atoms in one aliphatic chain.

2,327,886

APPARATUS FOR SEPARATING DUST AND OTHER SUSPENDED MATTER FROM AIR AND OTHER GASES OR VAPORS

Eugene Jenö Haber, Sanderstead, England, assignor to Matthews & Yates Limited, Swinton, Manchester, England

Application September 14, 1940, Serial No. 356,868
In Great Britain July 14, 1939
7 Claims. (Cl. 183—80)



1. A separating apparatus comprising an annular separating chamber for the gas or vapour to be treated, an annular receiving chamber for the clean gas or vapour, a plurality of cooperating annular coned diaphragms forming separating walls between said chambers, and a large number of small openings formed in said diaphragms, means for causing the gas or vapour to undergo a rotary movement in said receiving chamber, means operably associated with said openings for causing the gas or vapour to undergo an abrupt change in direction as it passes therethrough, and an annular receiving chamber for the dirty gas or vapour surrounding the peripheries of said diaphragms and into which the dirty gas or vapour enters after the clean gas or vapour has passed through the said openings.

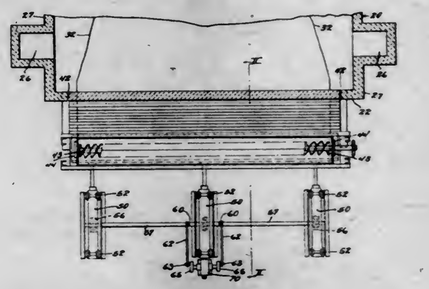
2,327,887

BLANKET FEEDER FOR GLASS DRAWING TANKS

Howard L. Halbach and Walter G. Koupal, Clarksburg, W. Va., and William Owen, Pittsburgh, Pa., assignors to Pittsburgh Plate Glass Company, a corporation of Pennsylvania

Application February 14, 1940, Serial No. 318,878
10 Claims. (Cl. 49—54)

1. In a method of treating granular glass making material upon a molten glass bath in a melting tank having entrance and exit extremities which comprises distributing a relatively thin series of successive layers of the material in side by side relation substantially across the width of the tank adjacent the entrance extremity thereof for forming a bath-covering blanket, moving said



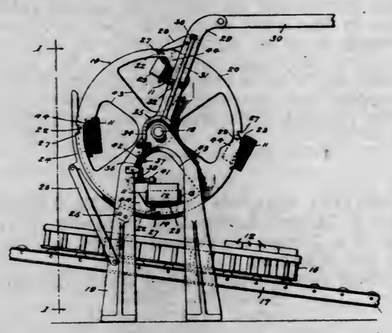
layers successively in side by side relation toward the exit end of the tank to provide space on the bath for succeeding layers in the successive application thereof, and melting said layers of material progressively into the molten bath as they move toward the exit extremity of the tank.

2,327,888

CAN HANDLING MACHINE

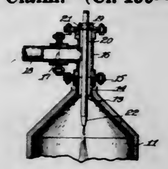
Edwin Earl Hanson, Snohomish, Wash.

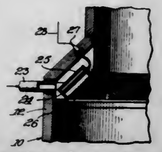
Application July 16, 1942, Serial No. 451,175
9 Claims. (Cl. 198—211)



1. A can handling machine comprising a supporting frame, a rotatable wheel-like can conveyor mounted on said frame for rotation about a single horizontal axis, said conveyor having circumferentially spaced trays into which the cans roll at a receiving station and by which the cans are conveyed to a dumping station, said trays being pivotally mounted on axes parallel with the axis of rotation of the conveyor to permit them to dump the cans on end at said dumping station, means for turning said conveyor in one direction step-by-step to successively present said trays at said receiving and dumping stations, and means for holding said trays against dumping while moving from said receiving station to said dumping station, permitting said trays to tilt to can-dumping position at said dumping station, and for restoring said trays to can-receiving position as they move from said dumping station to said receiving station.

2,327,889
APPARATUS FOR EVAPORATING FLUID MATERIALS
Raymond R. Haugh, Chicago, Ill., assignor to Vernon C. Usher, Chicago, Ill.
Application December 16, 1939, Serial No. 309,690
1 Claim. (Cl. 159—4)

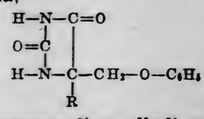




Apparatus of the character described for the evaporation of fluids, which comprises a container, an outlet conduit at the upper end of said container, an inlet pipe positioned within said outlet conduit, said inlet pipe being provided with a small orifice adapted to produce a fluid spray, another inlet in said container, said second inlet being spaced away from said first-mentioned inlet and being adapted to permit the introduction of superheated steam into the container, a screen within said container extending about said second inlet and forming a chamber thereabout, heater means in said container for heating the steam introduced through said second inlet, an outlet in the lower portion of the container for removing solids or liquids therefrom, and means connected with said outlet conduit for evacuating said container whereby the superheated steam introduced through said second inlet passes upwardly through the container to said outlet conduit.

2,327,890
SUBSTITUTED PHENOXYALKYL ETHERS
Henry R. Henze, Austin, Tex., assignor to Parke, Davis & Company, Detroit, Mich., a corporation of Michigan
No Drawing. Application April 17, 1940, Serial No. 330,064
5 Claims. (Cl. 260—309)

1. Hydantoin-substituted phenyl methyl ethers of the formula,



and their corresponding alkali metal, alkaline earth metal, and magnesium hydantoinate salts, R being a lower alkyl radical, prepared for use as a therapeutic agent.

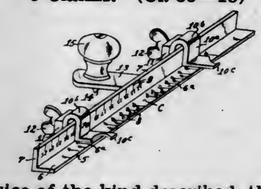
2,327,891
TURN KNOB
William P. Herman, Providence, R. I.
Application January 26, 1942, Serial No. 428,329
5 Claims. (Cl. 287—53)

1. In a combination turn knob and mandrel, a turn knob comprising an integral one-piece body of resilient rubber having a manually engageable head portion and a shank portion integral therewith, said knob having a central axial passageway extending through the shank portion into the head portion, said head portion having a recess of greater diameter than said passageway and with abrupt shoulders, a mandrel adapt-



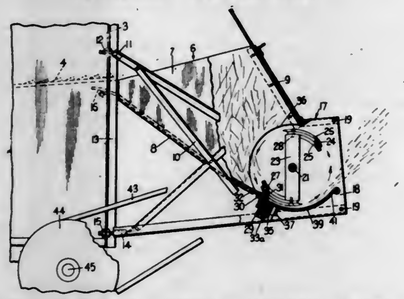
ed to receive said turn knob, said mandrel having an enlarged head adapted to nest within the knob recess and having abrupt shoulders adapted to interlock with said knob head shoulders to lock said knob on said mandrel.

2,327,892
POLYGON SQUARE
Herald B. Hidy, Wentzville, Mo.
Application March 19, 1942, Serial No. 435,376
3 Claims. (Cl. 33—18)



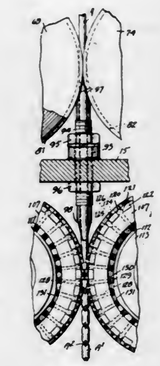
1. A device of the kind described, the same being generally T-shaped in plan, the upper cross-stem thereof being in the form of an elongated, straight-edged work bar or lay-out bar, right angled in cross-section and including a relatively narrow and flat polygon blade for laying out the sides of polygon figures, and a similar circle blade perpendicularly extended along a margin of the polygon blade, for drawing circles, the medial lower stem of the device carrying a pivot pin at its free outer end, whereon the device may be rotated in laying out the various figures.

2,327,893
COMBINE
Cecil B. Hobson, Marion, Ohio
Application September 9, 1941, Serial No. 410,187
10 Claims. (Cl. 146—123)



1. In combination with a combine having a discharge outlet for straw or similar material, a hopper for receiving the straw having a downwardly extending bottom wall down which the straw will travel by gravity, a cutting mechanism in the bottom of the hopper, a discharge outlet in the hopper adjacent the cutting mechanism and beyond the cutting mechanism, said cutting mechanism embodying a rotatable cutting member formed of a plurality of longitudinally extending circumferentially spaced blades and a stationary blade carried by the bottom wall of the hopper at its lower end behind the rotatable member, said rotatable member rotating toward said bottom wall so that the blades thereof will move into shearing relationship with said stationary blade, and a curved plate forming a continuation of the bottom wall and extending from said stationary blade rearwardly and upwardly through said discharge outlet to a point above the lowermost point of the path of movement of said blades of said rotatable member whereby said plate cooperates with the rotatable member so as to distribute the straw over a wide area.

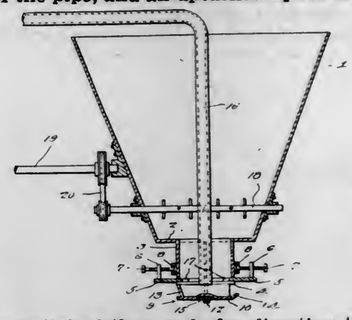
2,327,894
AMMUNITION
Joseph H. Hodgson, Westport, John R. Balder, Stratford, and Francis E. James, Fairfield, Conn., assignors to Remington Arms Company, Inc., a corporation of Delaware
Application August 31, 1940, Serial No. 354,996
9 Claims. (Cl. 29—1.22)



1. In a machine for forming slugs from wire, a pair of feed rolls arranged to receive and feed wire between them, and a pair of moulding wheels arranged to receive said wire between them from said feed rolls and to mould the wire into slugs, each of said moulding wheels having upon its periphery a series of sequentially arranged half-mould cavities, and drive means for driving both said pair of feed rolls and said pair of moulding wheels simultaneously in wire feeding direction at a uniform speed, the uniform peripheral speed of said feed rolls being greater than the uniform peripheral speed of said moulding wheels.

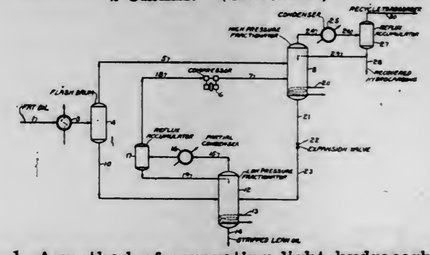
2,327,895
SAND SPREADER
Justin A. Holden, Brattleboro, Vt.
Application January 22, 1942, Serial No. 427,820
1 Claim. (Cl. 275—2)

A sand spreader comprising a hopper for the reception of sand, a discharge spout depending from said hopper, a spreading nozzle mounted beneath said spout for receiving the sand therefrom, a pipe extending downwardly through the hopper and the spout into the nozzle for discharging exhaust gases into said nozzle for blasting the sand therefrom, said nozzle including a plate, a substantially U-shaped wall rising from said plate, a spreader for the exhaust gases on the plate in opposed relation to the discharge end of the pipe, and an upturned lip on the plate



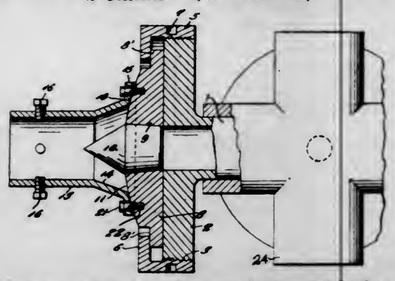
at the outlet of the nozzle for directing the discharging sand upwardly.

2,327,896
METHOD OF STRIPPING ENRICHED ABSORBENT MEDIUM
Glen S. Houghland, New York, N. Y., assignor to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware
Application August 31, 1940, Serial No. 354,997
2 Claims. (Cl. 196—8)



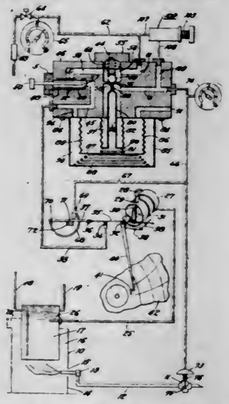
1. A method of separating light hydrocarbons from an absorption oil which has been enriched therewith by contact with a hydrocarbon-containing gas including the steps of flashing enriched absorption oil to produce a vapor containing most of the light hydrocarbons originally present in the enriched oil but not entirely free from light fractions of the oil itself and a liquid containing most of the absorption oil but not entirely free of light hydrocarbons, passing said liquid to a first fractionating zone and therein stripping substantially all the remaining light hydrocarbons out of said liquid at a temperature not higher than about 400° F. and under a pressure low enough to permit said stripping at the prevailing temperature, withdrawing stripped absorption oil as a bottoms product from said first zone, withdrawing an overhead vaporous product from said first zone consisting of light hydrocarbons and light fractions of absorption oil, introducing at least a part of said overhead product in vaporous condition and flash-vaporized material from said flashing step into a second fractionating zone, maintaining in said second fractionating zone a pressure higher than that existing in said first zone, fractionating said overhead product and flash-vaporized material in said second fractionating zone to obtain a bottoms liquid, including light hydrocarbons and light absorption oil fractions, separate from said liquid produced in said flashing step and overhead vapors consisting of light hydrocarbons free of absorption oil constituents, separately withdrawing said overhead vapors and said bottoms liquid from said second fractionating zone and introducing the latter into said first fractionating zone.

2,327,897
FLOATING TOOLHOLDER
Joseph A. Howard, Roscoe, Calif.
Application March 18, 1942, Serial No. 435,225
2 Claims. (Cl. 279—16)



1. In a tool holder for use in turret lathe and with a reamer, a shank for insertion in said turret and provided with a disk-like concentric head on one end thereof, having a front face perpendicular to the axis of said shank, a bar fitting flat against said face to extend across the same, and having a longitudinally arcuate front face and side edges converging toward said face, a center extending forwardly from said bar centrally thereof for insertion in a hole to be reamed to thereby axially align the bar with said hole, means to fasten said bar to said head in axially aligned position, a collet for holding a reamer with the tail end on said center, said collet interfitting with the front face and sides of said bar, and means to mount said collet on said bar to float thereon.

2,327,898
CONTROL MECHANISM
Earl A. Hubley, Quincy, Mass., assignor to Mason-Neilan Regulator Co., Boston, Mass., a voluntary trust of Massachusetts
Application November 27, 1942, Serial No. 467,281
9 Claims. (Cl. 137—153)



1. In a control mechanism, the combination with a primary fluid pressure system having a source of fluid under pressure, a secondary fluid pressure system, a pilot valve including a body having an inlet port connected with a source of fluid under pressure and an outlet port connected with a region of low pressure, an inlet valve and an exhaust valve controlling said ports, yielding means resistant to the opening of said exhaust valve, a valve for varying the pressure in said primary system, a first bellows responsive to a change of pressure in said primary system, a second bellows responsive to a change of pressure in said secondary system opposing the action of said first bellows, said bellows being in operative connection with said inlet and exhaust valves to vary the flow of fluid through said secondary system on a change of pressure in said primary system to provide a proportional change of pressure in said secondary system, and a second valve for varying an independent flow of fluid directly to said secondary system to which said second bellows reacts against said resilient means to open said exhaust valve and provide a corresponding flow of fluid from said secondary system and thereby maintains a minimum pressure therein as determined by said resilient means and by the rate of flow initially established by said second valve.

2,327,899
COMPOSITION FOR PROTECTION AGAINST LIGHT OF SHORT WAVE LENGTH
Samuel Isermann, Summit, and Ernst Ohlsson, Short Hills, N. J.
No Drawing. Application April 14, 1939, Serial No. 267,908
8 Claims. (Cl. 167—90)

1. A light intercepting cosmetic composition characterized by its ability to intercept light of short wave length, neutral action toward nerve endings near the surface of the skin of human beings and continuous film formation when deposited upon the surface of the skin, said composition comprising an ester consisting of a polyhydroxy alcohol mono substituted with p-amino benzoic acid.

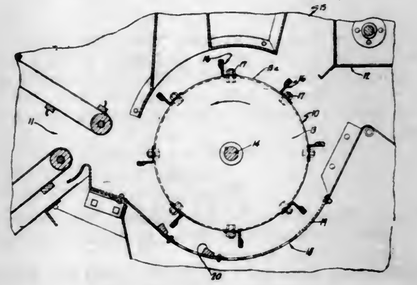
2,327,900
ABRASIVE FACED WHEEL
Edwin C. Jarm, West Springfield, Mass., and Le Verne Verzier, Waterbury, Conn., assignors to The Lea Manufacturing Co., Waterbury, Conn., a corporation of Connecticut
Application January 9, 1941, Serial No. 373,800
4 Claims. (Cl. 51—301)



1. An abrasive faced wheel comprising a wheel body having a peripheral firmly adherent sizing coat of glue and carbon black, and a layer of thermoplastic abrasive compound superposed on said sizing coat in firm adherence therewith and set to substantially non-plastic state.

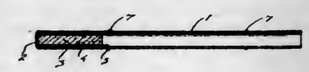
2,327,901
THRESHER CYLINDER
Arnold E. W. Johnson, Oak Park, and Russel D. Acton, Chicago, Ill., assignors to International Harvester Company, a corporation of New Jersey
Application June 30, 1941, Serial No. 400,363
3 Claims. (Cl. 130—27)

1. In a thresher having a rotatable cylinder and a plurality of threshing elements extending radially outwardly therefrom and each having a leading radial face determined by the direction of rotation of the cylinder, the combination with each threshing element, of a resilient mass of rubber or the like bonded to the leading face of the threshing element and being composed of a thick portion adjacent the outer edge of the threshing element and a thin portion adjacent the inner edge of the threshing part so shaped as to provide flat surfaces generally parallel to one another and to the leading face and a curved surface joining the flat surfaces, the thickness of the thick portion being relatively great in comparison with the width or radial dimension



thereof and being sufficiently greater than the thickness of the thin portion as to cause the center of mass of the thick portion to be spaced from the leading face a greater amount than the flat surface of the thin portion, whereby the thick portion moves outwardly under the action of centrifugal force due to rotation of the cylinder, causing its flat surface to be toughened for threshing because of tensioning of the thick portion due to its outward movement and presenting a threshing edge outward beyond the threshing element.

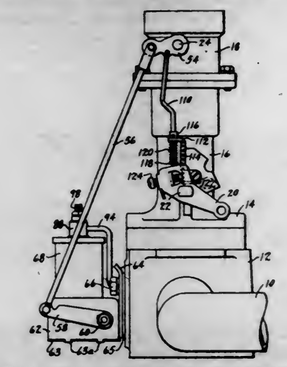
2,327,902
SAFETY BLASTING CAP
John G. Johnson, Lead City, S. Dak.
Application November 14, 1940, Serial No. 365,701
2 Claims. (Cl. 102—27)



1. A blasting cap comprising a rolled tube of absorbent paper capable of constituting a flexible casing of uniform diameter for the reception of a fuse in one end, said casing including an internally reduced, closed end portion constituting a chamber at the other end of the tube, an explosive in said chamber, and clamps detachably secured to the casing for contracting the casing and frictionally securing same on a fuse.

2,327,903
AUTOMATIC CHOKE MECHANISM AND CHOKE VALVE
Clarence H. Jorgensen, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application October 17, 1934, Serial No. 748,605
13 Claims. (Cl. 261—39)

1. A choke valve for carburetors having an air intake passage, comprising a larger main part and a smaller secondary part, said main part being constructed to constitute the greatest restriction to flow of air to the intake passage when the valve is in closed position and means for causing said secondary part to restrict the flow of air into the said passage to a greater



degree than the main part of said valve when the valve is partly open.

2,327,904
DOOR AND REGULATOR HANDLE
Isaac S. Keeler and Gerald V. Jakeway, Grand Rapids, Mich., assignors to Keeler Brass Company, Grand Rapids, Mich.
Application September 9, 1940, Serial No. 356,010
7 Claims. (Cl. 292—347)

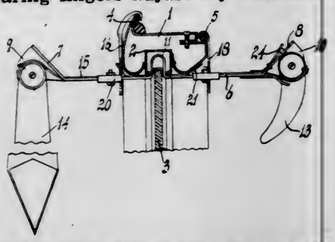


1. In a handle, the combination of a tapered longitudinally curved handle bar of flattened cross section and having recesses in its outer and inner edges and an undercut at the heel thereof, a spindle socket member slotted to receive said handle bar and having flanges secured to the sides thereof, said handle bar having a spindle receiving recess alined with said socket, the walls of the recess complementing the walls of the socket, a casing member of channel cross section formed of plastic material and having an inwardly facing longitudinal groove fittingly receiving the outer edge of said handle bar, a lug portion engaging said recess therein, and a lug at the heel thereof engaging said undercut at the heel of said handle bar, said casing member being of substantially greater width than said handle bar and having spaced internal rib-like portions engaging the sides thereof, an internal web portion fittingly receiving the inner end of said socket member, a backing member also formed of plastic material having a longitudinal groove receiving the inner edge of said handle bar, and a lug engaging said recess therein, said backing member fitting between the flanges of said casing member and having autogenous fused connection thereto.

2,327,905
MOUNT FOR DIRECTION SIGNALS
Robert H. Kershaw, Long Beach, Calif.
Application October 27, 1941, Serial No. 416,629
3 Claims. (Cl. 116—52)

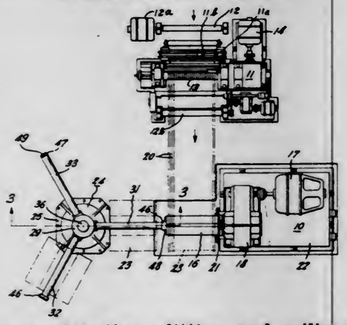
3. A mount adapted to be positioned on a vehicle door, said door including a movable window, said mount comprising a plate, an ear formed at each end of the plate, an operating finger journaled on one of the ears, a signal means journaled

on the other ear, a flexible strap secured at one end to the actuating finger, and at the other end to the signal means, said flexible strap extending longitudinally over said plate, and fastening hooks mounted on the plate and engaging the door frame whereby the plate is mounted on the door, and bearing fingers adjustably mounted on said



plate, said fingers bearing against the door frame, a channel extending transversely across the plate, said channel being adapted to enter the window channel in the door, said first mentioned channel having a cut away portion over which said flexible strap extends, and is adapted to flex upwardly when the window enters said first mentioned channel.

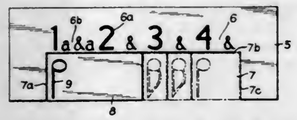
2,327,906
STRIP COIL HANDLING
Joseph E. Kiefer, New Bremen, Ohio, assignor to The Streine Tool and Manufacturing Company, New Bremen, Ohio, a corporation of Ohio
Application April 2, 1941, Serial No. 386,491
13 Claims. (Cl. 164—65)



9. In combination, slitting and coiling apparatus including a slitting device and a coiling reel which pulls the strips from the slitting device and coils the strips into an axially extending series of strip coils, and a coil carrier having a series of radially extending horizontal arms, a fixed support rotatably mounting said arms for movement about a vertical axis while maintaining the top surfaces of the arms substantially level with the top of the reel, said support being axially spaced from the end of the reel to provide for swinging movement of one arm into alignment with the reel and close to the end of the reel while swinging another arm to a position remote from the reel.

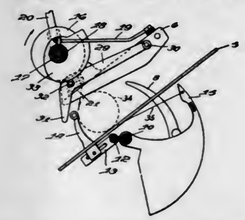
2,327,907
APPARATUS FOR MUSICAL INSTRUCTION
Ralph Knox, Jr., Denver, Colo.
Application April 6, 1942, Serial No. 437,741
10 Claims. (Cl. 84—472)

1. Apparatus of the character described, comprising a member having portions forming an edged enclosure, a scale on said member adjoining said enclosure divided into units of a musical measure, and a plurality of pieces of different lengths arranged for interchangeable insertion in said enclosure in register with the rim thereof, each piece bearing a musical symbol on its face and being of a length corresponding to the



multiple of the scale unit coinciding with the musical symbol it bears, and said symbol being so arranged on the piece that it is brought into visible alinement with its proper unit on the scale when the piece is so inserted in the enclosure.

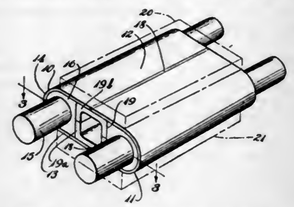
2,327,908
BINDER
Andrew Kowalsky, Perdido Beach, Ala., assignor to International Harvester Company, a corporation of New Jersey
Application February 23, 1942, Serial No. 431,949
5 Claims. (Cl. 56—449)



1. For a binder having bundle-forming mechanism including a deck and a breastplate spaced apart and adapted to receive a bundle therebetween, a presser arm alternately extended and retracted through said deck, and an intermittently driven discharge arm movable to discharge a completed bundle: bundle-retaining means comprising a retaining member and the said presser arm; means mounting the member on the breastplate for swinging movement between two positions; said member including a portion adapted to extend, in one position of the member, at least partially across the space between the deck and breastplate and complementing the presser arm for entire coverage of said space to retain the bundle being formed; and cam means mounted with and operated by the intermittent drive of the discharge arm and having high and low portions engageable with the retaining member to respectively maintain the member in bundle-retaining position and to effect release of the member from said position upon movement of the discharge arm to discharge the bundle.

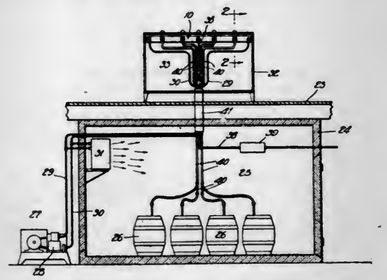
2,327,909
SECTIONAL TRACK BLOCK
Alvin S. Krotz, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application October 17, 1942, Serial No. 462,331
5 Claims. (Cl. 305—10)

1. A block for an articulated block track, said block comprising a pair of end sections, each section comprising a frame structure having top and bottom walls terminating in an end wall and an opposite open end, a connector member extending between said walls, and a body of resilient material embracing said connector member between the latter and said walls, said end



sections being assembled with their open ends in facing relation.

2,327,910
BEVERAGE COOLING APPARATUS
Morton Levine, Richmond Hill, N. Y., assignor to Herbert Levine and Arthur E. Levine, jointly, both of Brooklyn, N. Y.
Application March 18, 1941, Serial No. 383,901
8 Claims. (Cl. 62—141)



1. In a beverage service and cooling apparatus, a source of beverage supply, a mechanical refrigerator unit, said refrigerator unit including circulated expanded gas, a service bar, an elongated cooling manifold at said service bar, a row of taps at said service bar, pipes leading from the source of beverage supply to the respective taps having portions extending transversely through the cooling manifold, and expanded gas supply and return pipes respectively connected adjacent the opposed ends of the manifold and to the refrigerating unit, whereby the portions of the pipes leading from the beverage supply to the taps are uniformly subjected to the action of the expanded cooling gas as it passes through the cooling manifold.

2,327,911
CELLULOSE DERIVATIVE AND PROCESS OF MAKING SAME
Leon Lilienfeld, deceased, late of Vienna, Germany, by Emerich Hunna, executor, Vienna, Germany; Antonie Lilienfeld, administratrix of said Leon Lilienfeld, deceased, assignor to Lilienfeld Patents Inc., Boston, Mass., a corporation of Massachusetts
No Drawing. Application January 17, 1940, Serial No. 314,359. In Great Britain March 14, 1930
12 Claims. (Cl. 260—231)

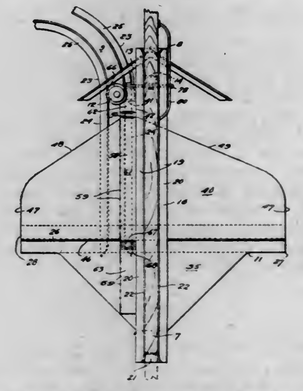
1. Process for the manufacture of an alkyl derivative of cellulose which is at least partially soluble in aqueous alkali solutions, but substantially insoluble in water, which process comprises acting upon cellulose, without extraneous heating of the reacting mass, with at least one inorganic ester of a monovalent alcohol, in the presence of an amount of caustic alkali which, calculated as NaOH, is only a minor fraction of the weight of water present, whereby less than one alcohol radical combines with one $C_6H_{10}O_5$-molecular unit of the cellulose.

2,327,912
DRESSING OF FABRICS AND ARTIFICIAL STRUCTURES
Leon Lilienfeld, deceased, late of Vienna, Germany, by Emerich Hunna, executor, Vienna, Germany; Antonie Lilienfeld, administratrix of said Leon Lilienfeld, deceased, assignor to Lilienfeld Patents Inc., Boston, Mass., a corporation of Massachusetts
No Drawing. Application January 17, 1940, Serial No. 314,358. In Great Britain March 14, 1930
31 Claims. (Cl. 117—143)

2. The process of producing adherent water insoluble dressing on fabrics with water insoluble lower alkyl cellulose which is dissolvable by dilute aqueous caustic soda solution at low temperatures approximating the freezing point but not dissolvable by the same at ordinary room temperature, which comprises impregnating a cotton fabric with a dilute aqueous caustic soda solution of said lower alkyl cellulose, and thereafter coagulating the lower alkyl cellulose on the fabric by exposure to an acid, such alkyl cellulose, when in the form of a film of 0.05 millimeter thickness, having a Schopper fold test of at least 45.

11. A process of making shaped artificial structures which comprises first reacting upon cellulose with an alkylating agent in the presence of water and caustic alkali, in the absence of extraneous heating, the said water being in an amount several times greater than the amount of said caustic alkali, to form an alkyl derivative of cellulose, dissolving said alkyl derivative of cellulose in an aqueous caustic alkali solution, giving such solution the shape of the artificial structure desired and subjecting the shaped solution to the action of a coagulating agent.

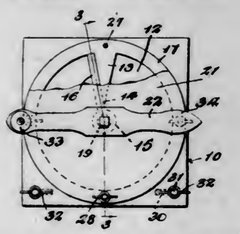
2,327,913
MINE HOISTWAY CAGE
Armistead R. Long, Fayetteville, W. Va., and John B. Long, United States Navy, Portsmouth, Va.
Application December 1, 1942, Serial No. 467,550
3 Claims. (Cl. 214—122)



1. In a hoist for mine cars, the combination with spaced, upright, stationary guides and a

hoist frame movable between said guides, provided with channel assemblies for receiving said guides, of a cage pivotally carried by the lower portion of said frame to oscillate in the frame, said cage comprising a platform for the load having its lateral margins in close proximity to said channel assemblies, a substructure beneath said platform pivotally securing the same to the hoist frame, and a superstructure above the platform comprising a cross beam of a length less than the width of said platform, side plates for each side margin of the platform, said side plates being rigidly secured to the platform and disposed next adjacent to and but slightly spaced from said channel assemblies, the confronting faces of said plates defining the lateral bounds for accommodating the mine car on the platform and the outer faces of the plates spaced from the channel assemblies just sufficient for clearance as the cage oscillates in the frame, whereby cars of maximum width consistent with spacing of the guides, may be accommodated on the platform between said side plates, a vertical support member for each side plate, said vertical support members having major portions secured to the outer faces of their respective side plates and minor inwardly offset portions extending above the upper portions of their respective side plates, said inwardly offset portions of the vertical supporting members being secured to the ends of said cross beam, and two flanged dumping wheels carried by said cross beam, said dumping wheels located one at each end of the beam and disposed with the plane of rotation of its flange in substantially the same plane as the major portion of its adjacent support member.

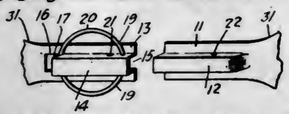
2,327,914
MATERIAL MIXING DEVICE
Joseph A. Lynch, Middletown, N. Y.
Application January 15, 1941, Serial No. 374,588
1 Claim. (Cl. 259—101)



In a device of the character described comprising a body member having an annular chamber, said chamber having an axial bearing, a shaft journalled in the bearing, a planiform piston carried by the shaft of a size to snugly traverse the walls of the chamber, said piston having a plurality of angular slots extended transversely therethrough, a removable closure for the chamber having an axial opening for the shaft, a segmental-shaped abutment fixed in the chamber, the apex of which stops short of the shaft, and having side walls complemental to the faces of the piston, and a double grip handle member fixed to the shaft.

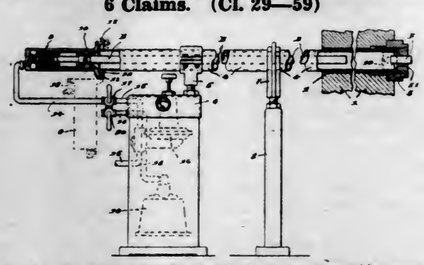
2,327,915
SEAL
Alexander S. Mackey, Ottawa, Ontario, Canada
Application January 2, 1942, Serial No. 425,421
4 Claims. (Cl. 292—324)

1. A seal forming an endless ring when locked comprising a band having a locking tongue at one end and a tongue receiver at the opposite end designed to be positioned in opposed relation to one another for slidable engagement to form, when engaged, a continuous ring-like seal, said locking tongue and tongue receiver being formed with channelled ribs telescopically engageable, said rib on the tongue receiver being shorter than that of the tongue and being open at its inner and outer ends, a split ring carried by the tongue receiver, having free ends normally engaging the sides of the latter's rib, a



section of said ring extending across the inner open end of said rib and engageable by the rib of the tongue to dislodge the ring upon full engagement of said ribs, the latter having orifices in their sides registering with one another upon full engagement of the ribs and disposed in the path of the free ends of the ring, said orifices receiving the free ends of the ring when dislodged and a casing enclosing the tongue receiver having an accessible opening adjacent to the outer end of the tongue receiver.

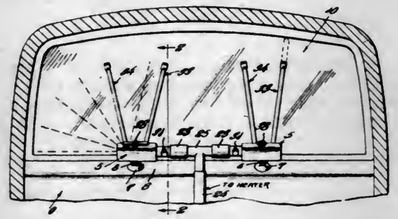
2,327,916
BREECH LOADING BAR STOCK MECHANISM FOR AUTOMATIC METALWORKING MACHINES
Eugene S. Mariotte, North Syracuse, N. Y., assignor to W. C. Lipe, Inc., Syracuse, N. Y., a corporation of New York
Application June 25, 1941, Serial No. 399,642
6 Claims. (Cl. 29—59)



1. In a bar stock feed for automatic metal working machines, a feed tube having an openable breech member at one end, a push plunger movable in the tube, means for actuating the plunger in the tube from the breech end toward the delivery end of the tube to feed the bar stock, the breech member being movable for removing the plunger from the tube and permitting insertion of a new stock bar in the tube in front of the plunger, and means for withdrawing the plunger back into the movable breech member of the tube preliminarily to opening the breech member.

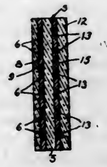
2,327,917
WINDSHIELD DEFROSTER ATTACHMENT
Michael P. Marong, Warsaw, N. Y.
Application November 21, 1941, Serial No. 420,020
1 Claim. (Cl. 20—40.5)

A windshield defroster for attachment on top of the instrument panel of an automobile and connection to a hot air pipe upstanding alongside the central portion of said panel, said defroster comprising an elongated substantially rectangular hollow block having open and closed ends, respectively, the open end forming an inlet for hot air, and said block having a pair of longitudinally spaced apertures in one side thereof, means to attach said block to said panel upon opposite sides of said pipe, selectively, with said open end facing said pipe and said apertured side facing said windshield, a pair of tubular slotted defroster arms having right angled hot air inlet ends journaled in said apertures, respectively,



for swinging adjustment of said arms into upstanding position relative to said block and alongside said windshield when the block is attached upon either side of said pipe, means to connect the open end of said block to said pipe from either side of the pipe, and releasable means carried by said block to frictionally lock said right angled ends of said arms in said pair of apertures.

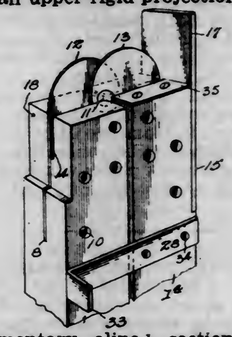
2,327,918
HEAT REJECTING GLASS
Robert A. Miller, Tarentum, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
Application January 23, 1941, Serial No. 375,583
4 Claims. (Cl. 88—60)



1. A heat rejecting glazing unit comprising a panel formed of a glass plate, horizontal bands of reflecting material arranged on one surface of the glass plate in spaced relation, a second plate of glass covering the banded surface of the first glass plate, a third plate of glass, having horizontal bands of reflecting material arranged on one surface thereof in spaced relation, said third plate covering the unbanded surface of the first glass plate, the horizontal bands of each plate being laterally in register, and interposed layers of plastic material uniting the glass plates.

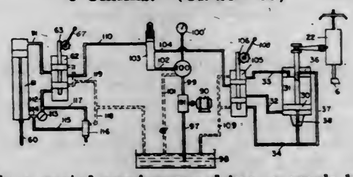
2,327,919
FIELD STRETCHER
Francis E. Montgomery, Washington, D. C.
Application June 24, 1942, Serial No. 448,296
3 Claims. (Cl. 5—82)

3. The combination in a folding stretcher having parallel side bars each including two alined sections each section having a hinge-plate and a hinge pin connecting the plates and offset from two adjoining corners of the section-ends, each said plate having a projecting head in a plane at right angles to the axis of the hinge pin and said section-ends having recesses to receive said heads whereby twisting movement of the hinge joints is prevented, and one hinged end of each bar having an upper rigid projection overlapping



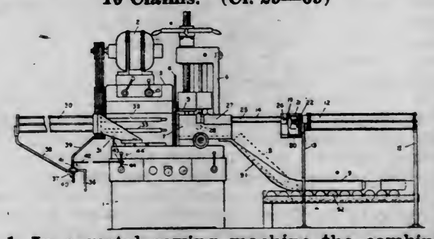
its complementary alined section to prevent transverse depression of the section-joints.

2,327,920
METAL SAWING MACHINE
Johan Gustaf Moohl, Cleveland Heights, Ohio, assignor to The Motch & Merryweather Machinery Company, Cleveland, Ohio, a corporation of Ohio
Application July 25, 1941, Serial No. 404,020
8 Claims. (Cl. 29—69)



1. In a metal sawing machine, a work-holding vise comprising a fixed jaw and a movable jaw, a fluid pressure cylinder having a piston connected to said movable jaw, a pressure supply source, valve means for introducing fluid under pressure alternately to each end of said cylinder, and means carried by and movable with said piston for relieving fluid pressure in each end of said cylinder when said piston reaches a predetermined point in its travel adjacent the opposite end of said cylinder.

2,327,921
METAL SAWING MACHINE STOCK FEED MECHANISM
Johan Gustaf Moohl, Cleveland Heights, Ohio, assignor to The Motch & Merryweather Machinery Company, Cleveland, Ohio, a corporation of Ohio
Application February 5, 1942, Serial No. 429,668
10 Claims. (Cl. 29—69)



1. In a metal sawing machine the combination of a movable circular saw, stock feeding mechanism for holding a plurality of cylindrical

work pieces in the path of travel of said saw comprising a holding member having parallel, opposed vertical walls forming a space adapted to receive said work pieces in an axially parallel position and vertically superimposed one upon the other, the width of said space being such that alternate work pieces contact one only of said opposed walls and a horizontally inclined surface located at the bottom of said space, said inclined surface extending from one of said vertical walls and being adapted to be contacted with the bottommost of said work pieces whereby the latter is caused to roll against the other of said vertical walls.

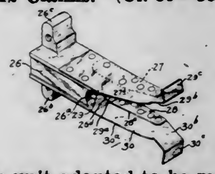
2,327,922

CARTRIDGE GUIDE FOR AUTOMATIC MACHINE GUNS

Frederick T. Moore, deceased, late of West Hartford, Conn., by Phoenix State Bank and Trust Co., administrator, Hartford, Conn., assignor, by mesne assignments, to Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn., a corporation of Connecticut

Application May 31, 1938, Serial No. 210,948

12 Claims. (Cl. 89—33)



12. A guide unit adapted to be mounted in the feed channel of an automatic machine gun in either of two relatively reversed positions, the said unit being provided with two apertured lugs at opposite sides thereof and each adapted to project into a notch in the floor of the channel and to be engaged by a retaining pin and the said unit comprising two spaced plates having similar faces which in each of the said positions are engageable with successive portions of a cartridge belt as the belt is fed through the channel and which serve to force the belt rearward in the event that it enters the channel in front of its normal path of movement.

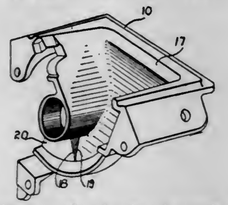
2,327,923

FEED CUP FOR GRAIN DRILLS

David M. Morris, Richmond, Ind., assignor to International Harvester Company, a corporation of New Jersey

Application March 10, 1941, Serial No. 382,567

1 Claim. (Cl. 221—139)



In combination, a feed wheel, and a cup member supporting the feed wheel for rotation and being recessed to form with the feed wheel an enclosed space decreasing in cross-sectional area toward a discharge point, the member having a surface in the recess extending toward the plane of the feed wheel at an acute angle with respect thereto, then in a plane at right angles to the plane of the feed wheel, and finally generally parallel to the plane of the feed wheel.

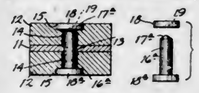
2,327,924

MULTIPART RIVET

Wilfred V. Mounts, Stratford, Conn., assignor to Remington Arms Company, Inc., a corporation of Delaware

Application August 24, 1940, Serial No. 354,002

3 Claims. (Cl. 85—37)



1. A multi-part rivet, the parts of which are adapted to be rigidly secured together by a heat produced weld or solder joint, comprising a rivet pin member and a rivet head member, said pin and head members having cooperative centralizing formations upon their contacting surfaces.

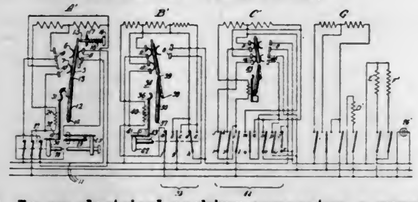
2,327,925

ELECTRICAL SYSTEM

Joseph W. Myers, Philadelphia, Pa., assignor to Proctor & Schwartz, Inc., Philadelphia, Pa., a corporation of Pennsylvania

Original application May 16, 1940, Serial No. 335,584. Divided and this application January 23, 1941, Serial No. 375,700

12 Claims. (Cl. 219—20)



1. In an electrical cooking apparatus, a supply line, an electric cooking unit connected to said line, additional load devices comprising at least one other cooking unit connected to said line, switching means and connections controlled thereby for greatly increasing the energization of said first-mentioned unit to heat the same rapidly to a desired temperature level, contacts on said switching means to open at least one conductor of the supply line and thus drop at least a portion of the additional load during the increased energization of said first-mentioned unit, switching means for controlling the current supply to said first-mentioned unit, means for positively restoring the dropped load when said last-named switching means is in off position, and a common actuating means for said last-named switching means and said load restoring means.

2,327,926

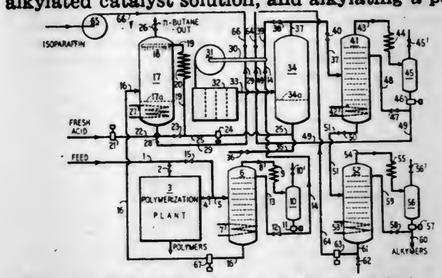
REACTION OF HYDROCARBONS

Eugene H. Oakley, Richmond, and Lloyd F. Brooke, Berkeley, Calif., assignors to Standard Oil Company of California, San Francisco, Calif., a corporation of Delaware

Application September 27, 1939, Serial No. 296,776

4 Claims. (Cl. 260—683.4)

4. Process of making high antiknock motor fuel hydrocarbons from a mixture of relatively light hydrocarbons containing isobutane, isobutene, 1-butene, normal butane and 2-butene which comprises removing isobutene and 1-butene from said mixture by subjecting said mixture to polymerizing conditions, separating normal butane and 2-butene from the remaining mixture by fractional distillation, absorbing 2-butene in an alkylation catalyst thus separating 2-butene from normal butane and forming an alkylated catalyst solution, and alkylating a portion of said isobutane with said alkylated catalyst solution thus forming high antiknock motor fuel hydrocarbons.



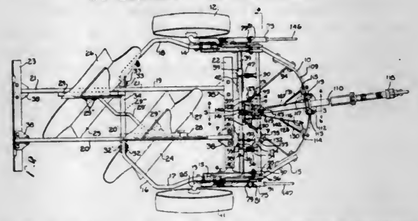
2,327,927

ROLL-OVER PLOW

John R. Orelind, Canton, Ill., assignor to International Harvester Company, a corporation of New Jersey

Application May 16, 1940, Serial No. 335,435

20 Claims. (Cl. 97—26)



1. In a roll-over plow, a main frame including side members, a revolvable frame pivoted between the side members of the main frame, said revolvable frame including a longitudinally extending member a portion of which on one side of the pivot connection with the main frame carrying a forward plow bottom and extending adjacent to one of the side members of the main frame, the portion of which extending rearwardly of the pivot connection being adjacent to a trailing plow bottom on the revolvable frame, and both the side member of the main frame and said latter portion of the longitudinally extending member adjacent to the respective forward and trailing plow bottoms being bent vertically upwardly to provide added clearance for passage of dirt from the respective plow bottoms.

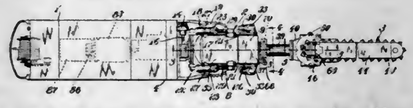
2,327,928

MINING APPARATUS

Charles F. Osgood, Claremont, N. H., assignor to Sullivan Machinery Company, a corporation of Massachusetts

Continuation of application Serial No. 140,681, May 4, 1937. This application May 18, 1940, Serial No. 336,053

20 Claims. (Cl. 262—28)



1. In a mining apparatus, in combination, a portable base, a turntable rotatable upon said base upon an upright axis and having an opening in the top thereof, a kerf cutter, and means for adjusting said kerf cutter through a wide range of horizontal cutting positions including an elongated boom structure, said kerf cutter being pivotally supported on the forward end of said boom structure, and means for supporting said boom structure on said turntable for bodily adjustment upwardly and downwardly between substantially parallel, differently elevated positions and for selectively effecting such adjustments and also at will rearward inclination of said boom structure in its differently elevated positions, said supporting means including link devices pivotally mounted on said turntable respectively at a point adjacent the back of the latter and at a point forward of the rearward edge of said opening, and connected at their opposite ends to said boom structure at points which are both in advance of said second-mentioned point when said boom structure is in lowered horizontal position, the rearward end of said boom structure when said boom structure is horizontal and in lowered position being forward of said first-mentioned point and to the rear of said second-mentioned point whereby upon rearward inclination of said boom structure at various elevations thereof the rearward end of said boom structure is positionable within the opening in the turntable, certain of said link devices having means for varying their effective lengths.

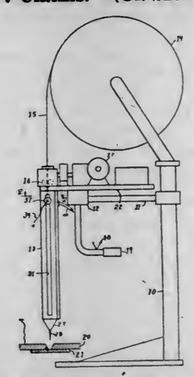
2,327,929

WELDING MACHINE

James B. Quigley, Hammond, Ind., assignor to Graver Tank & Mfg. Co., Inc., a corporation of Delaware

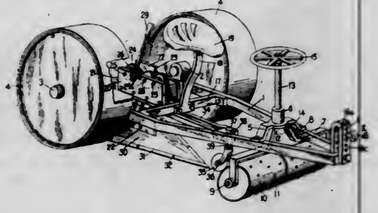
Application August 21, 1942, Serial No. 455,628

7 Claims. (Cl. 219—8)



1. In a welding machine for coated electrodes, means adapted to feed a continuous electrode, a tubular electrode holder adapted to receive the electrode from the feeding means, said holder having a longitudinal slot in the tubular wall thereof, a member slidably disposed within said holder and adapted to surround the electrode received therein, a contactor extending from the outside of said holder through said slot into said slidable member, an electrical binding post attached to said contactor on the outside of said holder, and means associated with said contactor and adapted to cause the same to engage and disengage the electrode surrounded by said slidable member, said contactor having a portion within said slidable member adapted to pass through the coating of the electrode upon engaging the same.

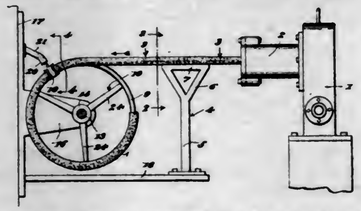
2,327,930
SOD CUTTER
Boivin Clark Ranney, Gahanna, Ohio
Application January 13, 1941, Serial No. 374,164
4 Claims. (Cl. 97—226)



1. Apparatus for cutting sod comprising a frame, means for supporting the frame for movement along the surface of the sod, said means comprising a pair of rollers disposed on opposite sides of the frame at the rear end thereof, a pair of rollers disposed in side-by-side relationship at the forward end of the frame, said rear rollers overlapping the paths of the forward rollers, a yoke rotatably supporting said forward rollers and pivotally connected to the forward end of the frame, steering means for swinging said yoke about its pivot, said forward rollers being provided with roughened surfaces and being independently rotatable to facilitate steering, said rear rollers being hollow so that they may be filled with water or other heavy substance, a sod cutting mechanism supported by said frame, said sod cutting mechanism comprising a sod undercutting plate of triangular form with its apex directed forwardly, said plate being substantially horizontally disposed and being bowed upwardly and transversely and being inclined upwardly towards the rear end thereof, a vertically disposed plate in alignment with the apex of said sod undercutting plate and having its lower end connected to said sod undercutting plate, said vertical plate being mounted for vertical movement in guides carried by said frame, means for moving said plate vertically and holding it in adjusted position, said means comprising gear and rack mechanism, said sod undercutting plate being disposed below the level of said rear rollers and having its rear portion extending laterally beneath said rollers, a forwardly projecting arm carried by said vertically disposed plate, said arm carrying at its forward end a vertically disposed rotatable edge cutting disc, said disc being carried by a rearwardly extending yoke which is rotatably mounted and is normally held downwardly by resilient means, said disc being disposed in front of said sod undercutting plate in alignment with the apex thereof and the joint between said forward rollers, said disc normally being disposed at a lower level than that of said undercutting plate.

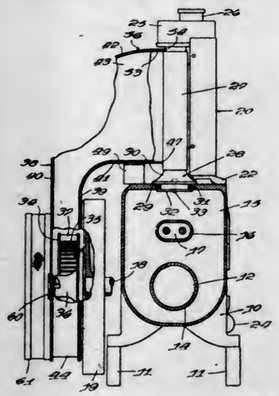
2,327,931
METHOD AND APPARATUS FOR FORMING AIR-CELLED STEERING WHEEL CUSHIONS
Morris B. Ratner, Phoenix, Ariz., assignor to Isabelle Ratner
Application November 16, 1939, Serial No. 304,840
2 Claims. (Cl. 18—45)

1. The method of forming a steering wheel cushion comprising the placing of split tubular sponge rubber stock to and around a circular ring-like form to completely enclose the form, anchoring the stock to the under face of the form to prevent separation of the stock away from the form during blowing of the stock while the stock is subjected to a high temperature, then pressing the stock upon the form for ejecting air from between the stock and form, then placing the stock and form within a hot mold in spaced relation with respect to the walls of the mold in a manner whereby an instantaneous blowing of



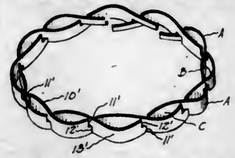
the stock will take place while the stock is firmly anchored against sagging movement away from the lower face of the form, and then subjecting the mold to a greater heat to expand and vulcanize the tubular stock to the capacity of the mold.

2,327,932
INTERNAL COMBUSTION ENGINE
Albert W. Scarratt, Kenilworth, and Gustave E. Lundberg, Riverside, Ill., assignors to International Harvester Company, a corporation of New Jersey
Application August 10, 1942, Serial No. 454,206
9 Claims. (Cl. 123—174)



1. In an internal combustion engine having a water jacket and including a fly-wheel rotatable on a horizontal axis, the combination of a radiator supported in vertically extended relation above the engine and at a level above the fly-wheel and including coolant-circulating connections to the water jacket; a fan carried by the fly-wheel concentrically thereof and at the outer side of the fly-wheel away from the water jacket; a unitary, sheet-metal housing structure formed to enclose the fan and fly-wheel and having a portion extending upwardly to cover one side of the radiator, to provide a conduit for an air stream from the fan to the radiator; said housing having an opening alined with the outer, radial face of the fan for the direct inlet of air unobstructed by the fly-wheel; a removable screened cover over said opening; and means detachably securing said housing structure to the engine and to the radiator.

2,327,933
PISTON RING EXPANDER
Arthur W. Shattuck, Jr., Dallas, Tex., assignor to Koppers Company, Pittsburgh, Pa., a corporation of Delaware
Application April 1, 1938, Serial No. 199,334
17 Claims. (Cl. 309—43)



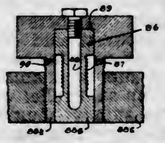
1. A piston ring expander adapted to be interposed between the piston ring and bottom of the ring groove of a piston including, a pair of flexible split rings of flat ribbon-like material, each having curved portions forming bearing surfaces to engage the piston ring, said surfaces being connected by an elongate curved arch which has its high point forming a bearing surface for engaging the bottom of the groove, the rings having means in their edge portions for interconnecting said rings so that they may lie in the same ring groove with the curved piston ring bearing surfaces of one ring disposed opposite the groove bearing surfaces of the other ring.

2,327,934
PISTON RING EXPANDER
Allen W. Morton, Baltimore, Md., assignor to Koppers Company, Pittsburgh, Pa., a corporation of Delaware
Application October 28, 1939, Serial No. 301,839
3 Claims. (Cl. 309—43)



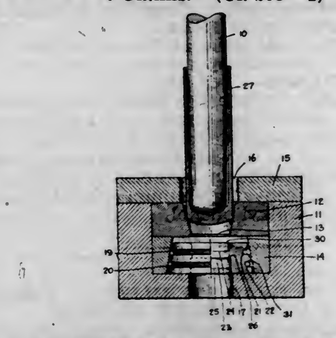
1. A ring expander for insertion in a ring groove behind a sealing ring, and comprising at least two approximately polygonal springs of strip material assembled side by side, and each having a gap to permit expansion and contraction, the proximate edges of said springs being curved to produce narrowed portions which subtend the major portions of the sides of the polygons, so that when the polygonal springs are thus assembled, with their angles staggered, they interengage to prevent relative rotation, and their combined width when assembled is only slightly less than the groove width.

2,327,935
EXPLOSION PRESSURE GAUGE
Edward E. Simmons, Jr., Pasadena, Calif.
Original application February 23, 1940, Serial No. 320,327, now Patent No. 2,292,549, dated August 11, 1942. Divided and this application January 1, 1942, Serial No. 425,357
4 Claims. (Cl. 201—63)



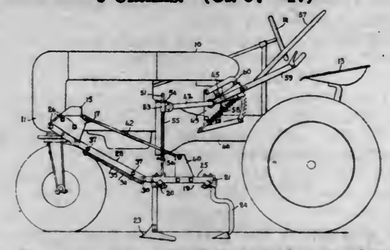
1. A pressure responsive apparatus comprising, in combination, a member having a bore subject to fluid pressure at one end, a dynamometer stud disposed in said bore and having a front end and a rear end, said rear end of the stud being held against movement in said bore while said front end of the stud has a sliding fit in said bore and is adapted to have axial movement in response to a fluid pressure force applied thereto from the end of the bore subject to pressure, said stud having a peripheral portion subject to strain in response to said axial movement, and a continuous solid filament of electrical conducting material bonded throughout its effective length to said peripheral portion of the dynamometer stud and whose electrical resistance varies with its strain whereby the resistance of said filament is responsive to strains in said stud arising from the fluid pressure force applied to the free end thereof.

2,327,936
TUBE DRAWING APPARATUS
Raymond E. Slater, New Rochelle, N. Y., assignor to Remington Arms Company, Inc., a corporation of Delaware
Application May 1, 1942, Serial No. 441,283
7 Claims. (Cl. 205—4)



1. In a means for stripping a walled article from a punch; continuous means to engage the end of the article; and means to substantially completely support the outer wall of the article adjacent said continuous means in conjunction with said punch with sufficient force to prevent crumpling of the wall of said article as the article is stripped from the punch.

2,327,937
AGRICULTURAL IMPLEMENT
Hiram P. Smith, Canton, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application December 31, 1940, Serial No. 372,584
6 Claims. (Cl. 97—47)



1. In a row-crop cultivator, in combination, tool-supporting means having spaced portions adapted for the attachment thereto of a working tool attachment, a working tool attachment including a tool-carrying frame adapted for the attachment thereto of working tools at various

locations along the tool-carrying frame and spaced with respect to each other depending upon the spacing width of the crop rows being worked upon, means for connecting the attachment to the tool-supporting means including spaced link members pivotally connected respectively to the spaced portions thereof and to the tool-carrying frame in spaced relation with respect to each other, said link members respectively having one end offset with respect to its other end and thereby being reversible so that the members may be adjusted to converging or diverging positions with respect to each other to vary the distance between the points of connection of the same along the tool-carrying frame, whereby clearance is provided on the frame for a different spacing thereon of the working tools.

2,327,938

PRODUCTION OF PHENOLS AND OLEFINS

Donald R. Stevens, Swissvale, and Joseph B. McKinley, Pittsburgh, Pa., assignor to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware

No Drawing. Application March 19, 1940, Serial No. 324,884
7 Claims. (Cl. 260—621)

1. A process of producing olefins and phenols comprising heating an alkyl phenol having at least one branched-chain alkyl substituent in the presence of an organic molecular compound of aluminum chloride in an amount equivalent to 0.1 to 1.0 per cent of aluminum chloride based on the weight of alkyl phenol.

2,327,939

METHOD OF HEAT-STERILIZING FRESH LATEX AND PRODUCT THEREOF

William D. Stewart, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application December 6, 1940, Serial No. 368,910
14 Claims. (Cl. 260—815)

1. The method of sterilizing freshly-collected latex which comprises adjusting the pH of the latex to not less than 9.8 nor more than 10.0 and thereafter heating the latex at a temperature below 75° C. but above 45° C. for at least 10 hours.

2,327,940

METHOD OF PRESERVING LATEX AND PRODUCT THEREOF

William D. Stewart, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application December 21, 1940, Serial No. 371,202
13 Claims. (Cl. 260—820)

1. The method of preserving latex which comprises adjusting the pH of the latex to not less than 9.8 nor more than 10.0 and adding a small proportion of a quinoline compound.

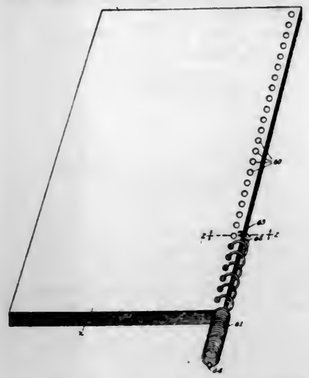
2,327,941

CLOSELY WOUND COIL BINDER

Rudolf Tauber, New York, N. Y.

Application December 19, 1942, Serial No. 469,756
5 Claims. (Cl. 281—21)

2. As a new article of manufacture, a book binder comprising a straight cylindrical compactly wound coil of wire, one end of the coil being conically pointed and bent angularly outward from the next adjacent coil while retaining the curvature of the coil, the opposite end



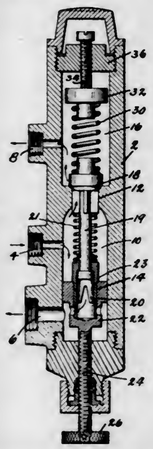
of the coil being expanded to a diameter in excess of the cross-section of the wire.

2,327,942

VALVE ASSEMBLY

Ralph S. Thoresen, Greenwich, Conn., assignor to Petroleum Heat and Power Company, New York, N. Y., a corporation of Delaware

Application May 8, 1941, Serial No. 392,452
3 Claims. (Cl. 137—153)



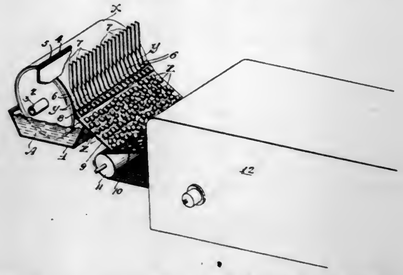
3. A valve assembly for oil burners comprising a valve housing provided internally with a supply chamber and a relief chamber in axial alignment, an inlet port in communication with said supply chamber, an outlet port leading from said supply chamber, an outlet port leading from the relief chamber, a relief port intermediate said axially aligned chambers providing the only communication between said chambers, a relief valve for said relief port for controlling the flow of oil from the supply chamber to the relief chamber, a stem on said relief valve, a discharge valve within the supply chamber intermediate the outlet and inlet ports and carried on the stem of the relief valve, an adjustable seat for said discharge valve, and a rod carried by said seat and extending to the exterior of the housing for manual adjustment of said seat.

2,327,943

PROCESS OF DRYING CORNSTARCH AND SIMILAR MATERIALS

Louis P. Tiers, Wilmette, Ill., assignor to Proctor & Schwartz, Incorporated, Philadelphia, Pa., a corporation of Pennsylvania

Application March 10, 1939, Serial No. 261,095
5 Claims. (Cl. 127—71)



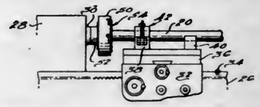
1. The process of drying starch and other substances of like characteristics, which consists in filtering out finely divided particles of the substance from suspension in a liquid to form a penetrable sheet like mass thereof, scoring the sheet to divide it into a series of ribbons, breaking the ribbons into units of approximately uniform lengths after said scoring, and spreading the units to dry in the presence of a gaseous medium for evaporating excess moisture therefrom.

2,327,944

APPARATUS FOR MACHINING SERRATIONS IN METALLIC BODIES

René H. Toubhans, Dearborn, Mich., assignor to Century Motors Corporation, Dearborn, Mich., a corporation of Michigan

Application December 19, 1941, Serial No. 423,641
13 Claims. (Cl. 29—105)



1. A cutting tool comprising, in combination, a rotatable head having an axial end face and a radially disposed recess in said face arranged with its center line substantially in a plane perpendicular to the axis of rotation of said head, a cutting element rotatably mounted in said recess, said cutting element having a cutting edge in substantial parallelism with the axis of rotation thereof in said head, and means releasably clamping said element against rotational movement in said recess.

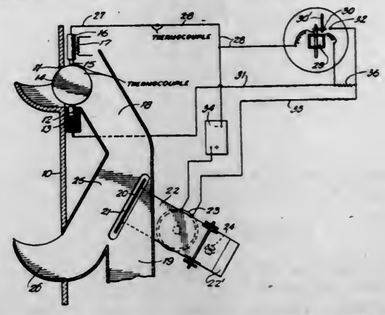
2,327,945

APPARATUS FOR SEPARATING GENUINE FROM SPURIOUS COINS

Fred E. A. Wallin, Chicago, Ill., assignor to N. Marshall Seeburg, Chicago, Ill.

Application April 15, 1940, Serial No. 329,675
14 Claims. (Cl. 194—100)

1. A coin separator comprising a heated contact and an unheated contact adapted to be engaged simultaneously by a coin, a moving coil relay having its coil in series with said contacts and adapted to be energized by the thermoelectric current produced between the heated contact and the coin, a pair of contacts controlled by said relay, one of said relay contacts being connected to one side of said coil and physically carried by said coil, a work circuit connected to said relay contacts, means in said work circuit arranged to control the disposition of a coin after the coin has passed said heated and unheated contacts, a source of direct current in said work circuit, and a high resistance connected to the other relay



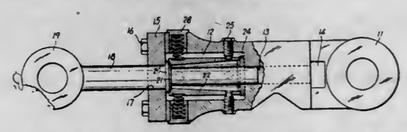
contact and to the other side of said coils, the polarity of said source being arranged so that a slight current normally flows from the source through said coil in a direction to move the coil in the direction to separate the relay contacts.

2,327,946

SAFETY COUPLER

Willard H. Ward, St. Johnsbury, Vt., assignor to Fairbanks, Morse & Co., Chicago, Ill., a corporation of Illinois

Original application March 27, 1940, Serial No. 326,137. Divided and this application April 11, 1942, Serial No. 438,563
7 Claims. (Cl. 74—584)



1. A safety coupler of the character described, comprising a body, a rod slidable in the body and projecting outwardly from one end thereof, said rod having a shoulder normally bearing against an internal surface of the body to limit the extent of outward movement of the rod relative to the body, and yieldable means adapted to prevent inward movement of said rod relative to the body, said means comprising a longitudinally split sleeve disposed about said rod and held against endwise movement in the body, said sleeve having a bevelled end surface engaging said rod shoulder, and springs on said body bearing laterally on said sleeve and adapted to oppose diametrical expansion of the sleeve caused by the action of said rod shoulder on the bevelled end of the sleeve.

2,327,947

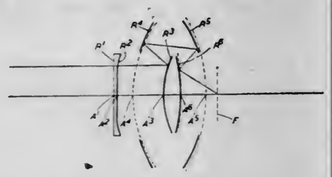
OPTICAL OBJECTIVE

Arthur Warmisham, Leicester, England, assignor to Taylor, Taylor & Hobson Limited, Leicester, England, a company of Great Britain

Application February 19, 1942, Serial No. 431,580
In Great Britain February 20, 1941
19 Claims. (Cl. 88—57)

1. An optical objective comprising at least three curved surfaces in axial alignment, of which at least two are reflecting surfaces of substantial curvature supplying the optical power

of the objective and of which at least three are spheroidal surfaces each consisting of a surface

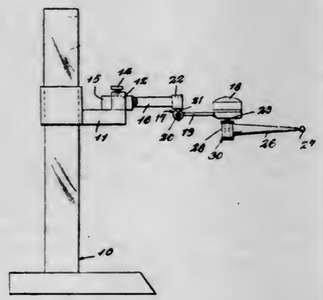


of revolution generated by rotation about the x-axis of a curve of the form

$$x = \tfrac{1}{2}\frac{y^2}{r_0} + Ay^4 + \ldots$$

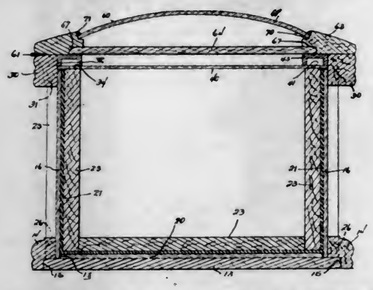
higher powers of y wherein x and y are the variable parameters of a Cartesian system of coordinates having origin at the vertex and with the x-axis coincident with the optical axis r_0 (which may have any desired value, finite or infinite) is the radius of the osculating sphere at the vertex, the vertex curvatures and the axial separations of the curved reflecting surfaces being so inter-related that the objective will have a predetermined focal length and zero or other predetermined field curvature, whilst the coefficients A . . . determining the deviations of the spheroidal surfaces from their osculating spheres are chosen substantially to balance out at least three of the four aberrations coma, spherical aberration, astigmatism and distortion of the objective.

2,327,948
HEIGHT GAUGE ARM ATTACHMENT FOR UNIVERSAL DIAL INDICATORS
Clyde W. Webster, Silvis, Ill.
Application March 11, 1943, Serial No. 478,792
1 Claim. (Cl. 33—172)



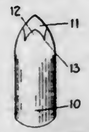
In combination with a height gauge having a dial gauge universally swivelled thereon, said dial gauge having a downwardly projecting threaded shank, an internally threaded sleeve on the shank and having a knurled head at its upper end, an indicator arm having an apertured boss complemental to the sleeve and rotatable thereabout, said boss being of a length greater than the sleeve, and a headed screw having a shank threadedly engaged in the lower end of the sleeve, whereby tightening of the screw will effect frictional binding engagement between the knurled head, the boss and said headed screw.

2,327,949
CASKET
George L. West, Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
Application May 7, 1942, Serial No. 442,051
4 Claims. (Cl. 27—3)



1. A burial casket comprising a rectangular base slab, lower rails surrounding the edges of the base slab and defining inner shoulders, a horizontal vitreous plate lying flat against the base slab, upright vitreous plates disposed against said shoulders at the ends and sides of the base slab, upper rail structure surrounding the upper edges of the upright plates to form a rectangular retaining frame for the plates, upright pillars covering the outer upright corners formed by the upright plates and connected rigidly to the upper and lower rails, and a lid having a rectangular frame hinged to the upper rail structure and including a vitreous panel surrounded by and connected to the lid frame.

2,327,950
PROJECTILE
Ernest G. Whipple, Stratford, Conn., assignor to Remington Arms Company, Inc., a corporation of Delaware
Original application December 16, 1939, Serial No. 309,567. Divided and this application April 16, 1942, Serial No. 439,195
3 Claims. (Cl. 102—91)

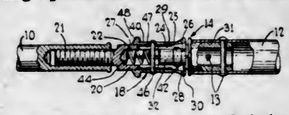


1. In a bullet, the combination of a relatively hard jacket having a closed base and a thinned nose edge remote from said base, indentations in said nose edge forming scallops of tapering thickness; and a relatively soft metal core a portion of which extends within and is held inside of said jacket and a portion of which projects forwardly beyond all of said scalloped edge.

2,327,951
COUPLING DEVICE
Michael J. Zaleske, Union, N. J., assignor to Ideal Clamp Manufacturing Co., Inc., Brooklyn, N. Y., a corporation of New York
Application October 11, 1941, Serial No. 414,547
9 Claims. (Cl. 287—104)

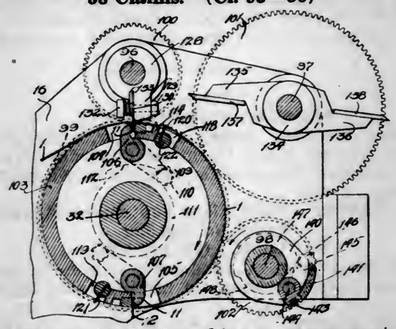
1. A coupling device comprising a body member having a plurality of integral, resilient fingers which normally hold themselves in substantially parallel relation and define a normally

contracted socket, transverse grooves on the insides of said fingers between the extremities of said socket, a plug member having a stem shaped to fit into said socket and hump means on said stem to project into said grooves when the stem is fitted into said socket, said hump means being operative to spring said fingers out-



wardly as said stem is inserted into or withdrawn from said socket, means slidably mounted on said body member for movement from and to a position confining said fingers against such outward movement, and means yieldably holding said last-recited means in its confining position.

2,327,952
METHOD AND MACHINE FOR FORMING BLANKS FOR PAPER RECEPTACLES
Fred R. Zimmerman, Chicago, Ill., assignor, by mesne assignments, to Dixie-Vortex Company, Chicago, Ill., a corporation of Delaware
Application January 19, 1939, Serial No. 251,717
38 Claims. (Cl. 93—36)



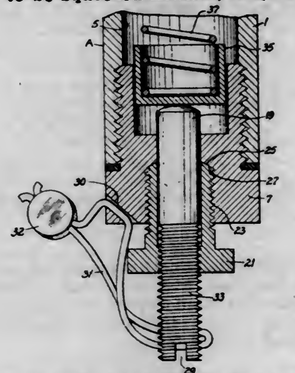
1. The method of making a paper container blank, including the steps of making a pair of spaced transverse folds in a stock strip, one said fold being near an end of said strip, severing said strip between said folds to remove a blank therefrom, and forming a similar but opposite fold near the other end of the severed blank.

11. In a machine for making container blanks, feeding means for advancing a stock ribbon through the machine, folding means arranged to provide a plurality of spaced transverse folds in said ribbon, cutting means arranged to sever a blank by cutting said ribbon between adjacent transverse folds, and additional folding means to provide another transverse fold in the severed blank.

2,327,953
SAFETY APPARATUS
Orren E. Zoder, St. Louis, Mo., assignor, by mesne assignments, to Zoder, Incorporated, St. Louis, Mo., a corporation of Missouri
Original application May 25, 1940, Serial No. 337,182, now Patent No. 2,284,709, dated June 2, 1942. Divided and this application May 15, 1942, Serial No. 443,075
4 Claims. (Cl. 287—114)

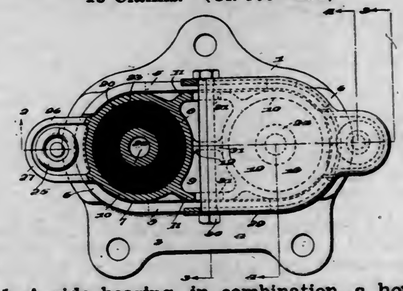
1. Adjustable abutment apparatus comprising a fluid-containing member, an opening in said member, a cylindric inner portion and a larger threaded outer portion forming parts of said opening and a tapered portion between the threaded portion and the inner cylindric portion,

a gland, exterior threads on the gland cooperating with said threaded portion, a circular and completely continuous chamfered portion on the end of the gland cooperating with said tapered portion to be squeezed inward, a cylindric open-



ing in the gland of substantially the same diameter as the cylindric inner portion of said opening, a cylindric adjustment plug closely fitting said inner cylindric portion and the opening in the gland, whereby threading of the gland into the threaded portion of the opening forces the chamfer against said tapered portion to grip the adjustment plug when the gland is tightened.

2,327,954
SIDE BEARING
Donald S. Barrows and Emil H. Blattner, Rochester, N. Y., assignors to The Symington-Gould Corporation, Rochester, N. Y., a corporation of Maryland
Application September 7, 1939, Serial No. 293,843
15 Claims. (Cl. 308—138)

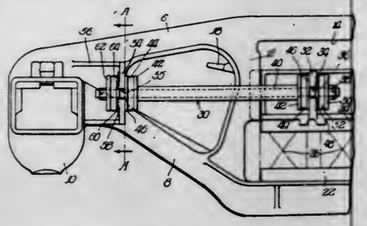


1. A side bearing, in combination, a housing comprising a plurality of tubular members, a cap having a bearing plate spaced above said housing, deformable resilient material positioned in each of said tubular members, prongs depending from said bearing plate and positioned within said deformable material, the greater portion of said prongs being in intimate contact with said deformable material and spring means of different character interposed between said housing and cap.

2,327,955
CAR TRUCK
Walter H. Baselt, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application December 5, 1940, Serial No. 368,617
21 Claims. (Cl. 105—197.2)

20. In a railway car truck, a side frame having

a bolster opening, a bolster resiliently supported in said opening, and means maintaining said bolster therein, said means consisting of guide means on the bolster abutting the inboard edges of the frame, and a rigid member resiliently con-



nected to said bolster and to the outboard face of said frame, said rigid member being substantially the sole means operable to prevent disassembly of said bolster by relative inboard movement thereof with respect to said frame.

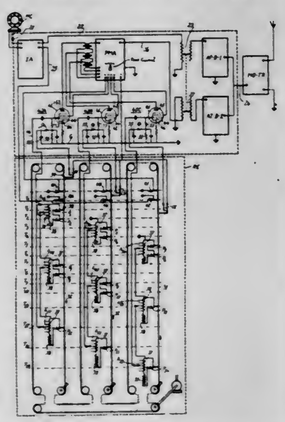
2,327,956

MAGNETIC RECORDING AND REPRODUCING

Semi Joseph Begun, Cleveland, Ohio

Application December 16, 1940, Serial No. 370,417

17 Claims. (Cl. 179—100.2)



1. In a signal transmission system, a long endless signal recording and reproducing carrier, signal transducing means cooperating with said signal carrier for recording or reproducing a signal record while said carrier moves past said transducing means, said transducing means including at least two recording elements and an array of signal reproducing elements arranged so as to reproduce a signal recorded on one portion of said moving carrier with a predetermined sequence of different time delays, and at least two reproducing channels having different operating characteristics supplied by said array of reproducing elements, said carrier having at least two sections, one part of said array of reproducing elements being arranged to cooperate with one of said sections and another part of said array of reproducing elements being arranged to cooperate with another of said sections, each of said sections having a signal recording element, the output of at least two of the signal reproducing elements of two of said carrier sections being impressed on each of at least two of said reproducing channels.

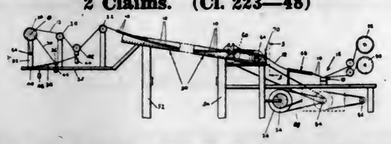
2,327,957

APPARATUS FOR PRODUCING THREADED SPANGLES

Louis Brandt, New York, N. Y., assignor to Joseph Brandt & Bro. Inc., New York, N. Y.

Application May 15, 1941, Serial No. 393,679

2 Claims. (Cl. 223—48)



1. Apparatus for feeding spangles to a machine by which the spangles are arranged and secured substantially in flatwise position on a string which is threaded through said spangles, said apparatus comprising means for supporting said spangles and for effecting movement thereof to said machine, means mounting said string for the movement thereof into said machine simultaneously with the movement of the spangles to the machine, a barrier between said machine and some of the spangles on said string for preventing the movement of spangles to said machine, and a rotary member having an eccentric part operable to engage said string intermittently and to raise the latter intermittently in relation to said barrier for rendering said barrier ineffective to prevent movement of spangles to the machine.

2,327,958

FLUXING COMPOSITION

Charles A. Carey, Arlington, Mass., assignor to Dewey and Almy Chemical Company, North Cambridge, Mass., a corporation of Massachusetts

No Drawing. Application September 14, 1939, Serial No. 294,939

14 Claims. (Cl. 148—23)

8. The process of producing a non-recaking fluxing material composed of a metallic halide, a halogen derivative of an amine, and an insoluble alkaline compound which at elevated temperatures is capable of liberating the amine portion of the halogen derivative, which comprises converting the substances which tend to bring about caking into non-caking constituents by reacting them with the alkaline compound.

2,327,959

VALVE OPERATING MEANS

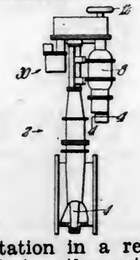
Joseph A. Cerow, Jr., Suffield, Conn., assignor to The Chapman Valve Manufacturing Co., Indian Orchard, Mass., a corporation of Massachusetts

Application November 25, 1941, Serial No. 420,410

3 Claims. (Cl. 137—139)

1. Apparatus for operating the spindle means of a valve or the like to open and close the wedge thereof comprising, a reversible motor and driving connections positively connecting the same to a spindle means, starting switch means, a limit switch means for inclusion in a circuit to cut the circuit when the wedge reaches the limit of its movement in opening or closing, direction switch means for inclusion in a circuit to energize said motor from a power supply so that it operates in one of two directions for opening or closing the wedge, stop switch means for inclusion in a circuit connected to and positively operated by the driving connections, and circuit means including said motor, starting switch means, limit switch mechanism, direction switch means and stop switch means for connection to

a power supply, all adapted whereby as said wedge reaches the limit of movement in one direction with the motor operating in a certain direction the said direction switch means is operated by the limit switch means to energize the



motor for rotation in a reverse direction and arranged so that as the motor stops for reversal it is cut off from the power supply by the stop switch until a subsequent operation of the starting switch.

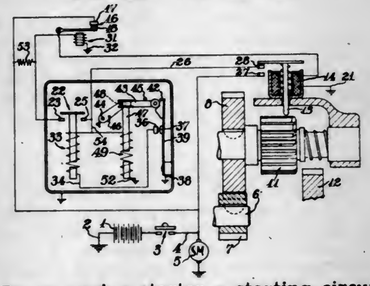
2,327,960

ENGINE STARTER GEARING

Frank T. Christian, Elmira, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application November 27, 1941, Serial No. 420,662

4 Claims. (Cl. 290—38)



1. In an engine starter a starting circuit including a motor, a pinion actuated by the motor to engage and rotate a member of an engine to be started, a detent for opposing rotation of the pinion, electro-magnetic means energized upon closure of the starting circuit for actuating the detent to engage the pinion, electro-magnetic means energized upon actuation of the detent for causing release of the actuating means, and means for delaying effective energization of the releasing means for a predetermined time.

2,327,961

NITRO GLYCOL

Edward F. Degering, West Lafayette, Ind., and Austin Sprang, Cincinnati, Ohio, assignors to Purdue Research Foundation, La Fayette, Ind., a corporation of Indiana

No Drawing. Application July 17, 1941, Serial No. 402,841

1 Claim. (Cl. 260—635)

4-nitro-3,5-heptanediol.

2,327,962

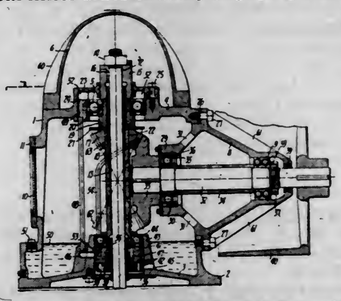
PUMP DRIVE

Frank Babbitt Drake, Berkeley, Calif., assignor to Johnson Gear & Manufacturing Co., Ltd., Berkeley, Calif., a corporation of California

Application October 10, 1939, Serial No. 298,786

8 Claims. (Cl. 184—6)

1. In a right angle pump drive, including a housing having side walls, a top wall, and a bottom wall, a horizontal drive shaft rotatably extending through said side walls at a point therein, a main shaft rotatably extending through said bottom wall and into said housing, a vertical hollow shaft within said housing into which the portion of the main shaft within said housing extends, means adjustably securing said main shaft and said hollow shaft together for rotation as a unit, intermeshing gears, respectively, secured on said hollow shaft and said drive shaft for providing a driving connection within said housing between said drive shaft and said hollow shaft, the lower end of said hollow shaft terminating above said bottom wall and adjacent thereto, a vertically extending screw disposed coaxially with the axis of said hollow shaft and secured in position around the lower end thereof, a chamber rigid with said housing having cylindrical inner sides slidably engaging the periph-



eral surfaces of the screw thread for rotation of the screw within said chamber, the walls of said chamber being ported at vertically spaced points adjacent the upper and lower ends of said thread, said housing communicating with the lower port and a conduit communicating between the upper port and the said gears for conducting oil forced along said screw thread to said gears upon rotation of said screw, said bottom being adapted to support an oil supply with said chamber disposed therein, and an oil seal for preventing oil from leaking from said supply past said vertical shaft at the point where said main shaft passes through the bottom wall, said seal including a vertically disposed tube secured to said bottom wall and disposed around said main shaft and between said main shaft and said hollow shaft, the upper end of said tube terminating at a point above the level of said oil supply.

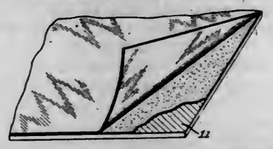
2,327,963

DRAWING BOARD COVER

Sherwin Ward Haas, Philadelphia, Pa., assignor to Keuffel & Esser Company, Hoboken, N. J., a corporation of New Jersey

Application May 9, 1940, Serial No. 334,144

5 Claims. (Cl. 45—131)



1. The combination with a drafting board of a relatively thin flexible washable composite drafting board surface member comprising a lamination of relatively stiff amorphous foil superimposed upon a cushioning lamination of relatively yielding fibrous material and adhered thereto,

whereby a smooth, resilient drawing surface affording sharp definition of pencilled lines over any kind of supporting surface is afforded and which pencil lines are more clearly erased than lines drawn on a wooden surface.

2,327,964
NITRATION OF ALKANES
Edward B. Hodge, Terre Haute, Ind., assignor to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland
No Drawing. Application August 2, 1940, Serial No. 350,153
2 Claims. (Cl. 260—644)

1. A process for controlling the reaction in the production of nitro-alkanes which comprises continuously passing an alkane and nitric acid in the vapor stage through a heated reaction zone, condensing the reaction product to produce a layer of nitro-alkane and a layer of water, the latter containing unreacted nitric acid and controlling the reaction by continuously regulating, during the reaction, the quantity of heat input within a range that will maintain the acidity of the aqueous layer at a substantially constant value which is between 0.1 N to 1.5 N to secure substantially uniform operation.

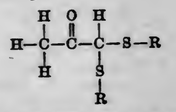
2,327,965
NONREFILLABLE PAPER BOTTLE
Lydia B. Koch, New York, and Irving F. Mandell, New Rochelle, N. Y.; said Mandell assignor to said Koch
Application July 5, 1939, Serial No. 282,924
3 Claims. (Cl. 229—5.6)



1. In the process of forming a top closure for paper bottles adapted to contain liquids, the steps which consist of convexly curving the upper end of the bottle thereby to form an annular bulge, re-entrantly turning the rounded upper edge of the bulge to blend into a straight walled cylinder, forming a transverse inreaching ledge at the lower end of the cylinder, layering the material to reinforce said ledge and bulge, turning the material at an arcute angle to produce an annular reinforcement for the cylinder, disposing a paper disk on said ledge, and spinning all of the several elements extending above said disk to cover the margin therewith, thereby to bind it permanently on said ledge.

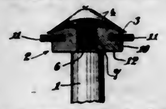
2,327,966
KETO SULPHIDES AND PROCESS FOR MAKING SAME
Glen H. Morey, Terre Haute, Ind., assignor to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland
No Drawing. Application March 8, 1941, Serial No. 382,340
7 Claims. (Cl. 260—590)

1. A keto sulphide characterized by the structure:



in which the R substituents are chosen from the class consisting of alkyl, aralkyl and aryl groups.

2,327,967
SAFETY RAZOR
Peter Nicholas Peters, New York, N. Y.
Application June 3, 1941, Serial No. 396,371
6 Claims. (Cl. 30—77)



1. In a safety razor, a guard member comprising a rigid, unyielding blade contacting portion and a resilient and compressible member extending sufficiently far out of said rigid portion to be flexible for regulating the blade edge exposure.

2,327,968
POROUS XEROGEL
Kurt E. Ripper, Bronxville, N. Y., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application January 28, 1941, Serial No. 376,338
3 Claims. (Cl. 260—72)

3. The process of preparing a porous xerogel which comprises reacting melamine with formaldehyde in the presence of a relatively minor amount of hexamethylenetetramine to form a hydrophilic sol, diluting the sol with an aqueous acid solution to gelatinize the contained emulsoid, prepolymerizing the gel to a state of rigidity without substantial alteration of its volume, drying to remove contained dispersion medium without collapse of the porous structure of the dried gel, polymerizing and hardening the gel to form an insoluble porous xerogel.

2,327,969
HINGE BRACKET FOR FIXTURES
Roy S. Sanford, Oakville, Conn., assignor to The Autoyre Company, Incorporated, Oakville, Conn., a corporation of Connecticut
Application March 16, 1940, Serial No. 324,268
6 Claims. (Cl. 248—205)

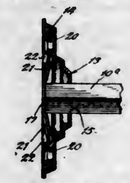


1. A bracket comprising a supporting plate adapted to be secured to a wall or other support, and a cover plate hinged to said supporting plate for carrying a fixture and embossed to provide a hollow space between said plates for enclosing the securing means for said bracket.

2,327,970
BRACKET
Roy S. Sanford, Oakville, Conn., assignor to The Autoyre Company, Incorporated, Oakville, Conn., a corporation of Connecticut
Application April 3, 1941, Serial No. 386,601
5 Claims. (Cl. 248—223)

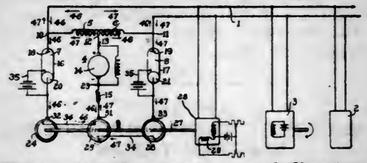
5. In a bracket of the character described, a member having a front face and an angularly extending peripheral flange of stepped cross section, said member having an aperture in the front step thereof for receiving a portion of a fixture supported by said bracket, and a backing plate fixed to said member at the rear of said aperture and

in a second step thereof, said backing plate having apertures therein, a pair of eyelets formed from the material of said second step and extending rearwardly therefrom through said apertures for engaging the material bounding said apertures in said backing plate, said fixture portion



being welded to said backing plate and being supported thereby and being supported at a spaced point therefrom by the material bounding said aperture in said front step, the welded portion of said backing plate being substantially in the plane of the rear edge of said peripheral flange.

2,327,971
POWER TRANSLATING DEVICE
Joseph Slepian, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania
Application December 13, 1923, Serial No. 680,396
82 Claims. (Cl. 175—363)



1. In combination, a source of direct current, a winding connected to said source through a vapor electric device, said vapor device having an anode and a cathode, means including an auxiliary starting anode within said vapor device for starting an arc therein to thereby cause current to flow from said anode to said cathode, and means for periodically energizing said starting means.

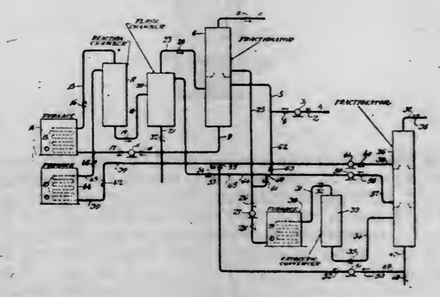
12. In combination, an electric translation circuit including an alternating current circuit and a discontinuous control electric valve provided with an anode, a cathode, and a grid for controlling the current conducted thereby, and a circuit connecting said grid and said cathode including a negative bias potential and a source of periodic positive potential impulses of peaked wave form and substantially greater in amplitude than said bias potential for only a small fraction of a cycle for determining the point in the cycle of alternating current at which said valve is rendered conductive.

79. For use in transferring power between an alternating-current circuit and a direct-current circuit at least one of said circuits having a source of potential, the combination comprising an electric discharge valve having a plurality of principal electrodes and mechanical switching means interposed in series between said circuits, said valve being rendered conductive by the potential from said source when said switching means is closed, means for rendering said valve non-conductive and means operating in synchronism with the current flow in said alternating-current circuit for opening and closing said switching means, the operation of said rendering means and said opening and closing means being so timed that said valve is rendered non-conductive before said switching means is opened.

2,327,972
HIGH STRENGTH CERAMIC SURFACE
Kenneth E. Stettinius and Benjamin F. Dewey, Le Roy, N. Y., assignors to Lapp Insulator Company, Inc., Le Roy, N. Y., a corporation of New York
No Drawing. Application January 17, 1939, Serial No. 251,394
12 Claims. (Cl. 117—16)

1. A porcelain body having a portion of its surface coated with an added ceramic coating, and a multiplicity of particles of ceramic material contained in said coating and held thereby to said body with portions of said particles projecting above said coating to provide a roughened surface, said coating and said particles after firing having coefficients of thermal expansion lower than that of said body.

2,327,973
CONVERSION OF HYDROCARBON OILS
Charles L. Thomas, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application August 25, 1939, Serial No. 291,890
6 Claims. (Cl. 196—52)



1. A process for converting a hydrocarbon oil into substantial yields of relatively high anti-knock gasoline which comprises charging said oil to a primary fractionation step, separating a heavy non-vaporous fraction of the oil, subjecting said fraction to non-catalytic cracking in a primary cracking step by passage through a heating coil and communicating reaction chamber at a temperature and pressure adequate to effect substantial cracking thereof, passing the reaction products into a vaporizing zone at a reduced pressure, separating and recovering therefrom a heavy fraction unsuitable for further conversion, passing the vaporous portion of said reaction products to said primary fractionation step, removing the gas and gasoline, separately removing from said fractionating step, an intermediate-boiling fraction, comprising components of the charging oil not previously subjected to cracking conditions in the process, and contacting the same with a catalyst in a secondary cracking step under conditions adequate to effect substantial cracking thereof, separating gas and gasoline from the products of the secondary cracking step in a secondary fractionation step and recovering the same, returning an intermediate-boiling fraction of insufficiently converted oil separated from the last named products to said secondary cracking step,

and supplying a higher-boiling fraction of said insufficiently converted oil to a secondary heating coil communicating with said reaction chamber of said primary cracking step and subjecting the same in said secondary coil to independently controlled cracking conditions of temperature and pressure.

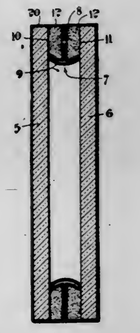
2,327,974

PREFORMED MULTIPANE GLAZING UNIT

Harold M. Woelfel, Montreal, Quebec, Canada, assignor to The Robert Mitchell Co. Limited, Montreal, Quebec, Canada

Application January 30, 1942, Serial No. 428,917

1 Claim. (Cl. 20—56.5)



A preformed multi-pane glazing unit comprising a pair of transparent panes, a T-section spacer interposed between the marginal portions of said panes with the stem portion of the T-section extending outwardly from the head portion in spaced relation to the inner surfaces of said panes, said spacer being made of thin, flexible, resilient metal and having its head portion transversely curved to increase the flexibility thereof and a sealing material filling the space between the stem portion of the T-section and the opposing surfaces of said panes and serving to bond the latter to both the stem and head portions of the T-section.

2,327,975

VULCANIZABLE POLYMERIZATION PRODUCT AND A PROCESS OF PRODUCING SAME

Ewald Zaucker, Schkopau, Germany; vested in the Alien Property Custodian

No Drawing. Application April 3, 1940, Serial No. 327,636. In Germany April 3, 1939

6 Claims. (Cl. 260—23)

1. Process of plasticizing synthetic rubber resulting from the emulsion polymerization of an open chain diolefine having conjugated double bonds which consists in subjecting the synthetic rubber to an oxidizing treatment in the presence only of a stabilizing agent containing an amino group selected from the class consisting of aromatic amines of the benzene and naphthalene series and a substance selected from the group consisting of from difficultly volatile to non-volatile saturated aliphatic and cycloaliphatic carboxylic acids, their hydroxy substitution products and their salts, until the synthetic rubber has become substantially more plastic.

2,327,976

QUENCHING OF METALS

Clifford G. zur Horst, Hampton Township, Allegheny County, Blaine B. Wescott, Churchill, and Leslie W. Vollmer, Pittsburgh, Pa., assignors to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware

No Drawing. Application January 12, 1942, Serial No. 426,536

4 Claims. (Cl. 148—18)

1. An improved quenching oil composition comprising a mineral quenching oil and a thickened vegetable oil in controlled amount adequate to impart to said quenching oil composition an initial five second quenching speed of at least about 22.0 per cent without substantially modifying the stress reducing characteristics of the oil.

2,327,977

QUENCHING OF METALS

Clifford G. zur Horst, Hampton Township, Allegheny County, Blaine B. Wescott, Churchill, and Leslie W. Vollmer, Pittsburgh, Pa., assignors to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware

No Drawing. Application January 12, 1942, Serial No. 426,537

6 Claims. (Cl. 148—18)

1. An improved quenching oil composition comprising a mineral quenching oil and at least about 1.0 per cent by weight of an oil-soluble terpene polymer resin.

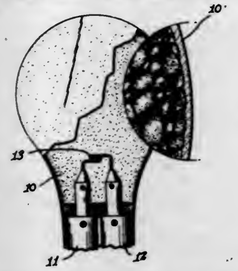
2,327,978

PROCESS OF MAKING REFLECTING ELECTRIC LAMPS

Clarence Birdseye, Gloucester, Mass., and Pincus Deren, Milwaukee, Wis., assignors to Birdseye Electric Corporation, Gloucester, Mass., a corporation of Massachusetts

Original application November 25, 1938, Serial No. 242,216. Divided and this application March 14, 1940, Serial No. 323,928

4 Claims. (Cl. 117—35)



1. A process of making reflecting electric lamps, which includes the steps of chemically etching and then stripping the inner surface of a bulb to provide a shell surface thereon, that is to say, a surface which when observed at a magnification of 300 to 500 appears to comprise shallow, rounded, contiguous depressions or hollows, varied in size, irregular in shape and bounded by slightly curved and straight lines extending in all directions and meeting at vertices sometimes in pairs and sometimes in greater numbers, applying a reflecting metallic coating over the processed area of the bulb surface, and then chemically dissolving part of the coating to provide a translucent area in the bulb, entirely free from the reflecting coating.

DESIGNS

AUGUST 24, 1943

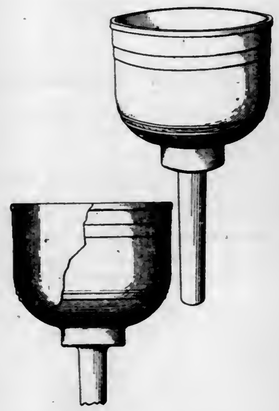
136,200

DESIGN FOR AN UPPER BOWL FOR A COFFEE BREWER

James W. Alsdorf, Winnetka, Ill., assignor to Cory Glass Coffee Brewer Co., not inc., Chicago, Ill., a limited partnership composed of Abram N. Pritzker, and himself

Application June 19, 1943, Serial No. 110,487

Term of patent 7 years



The ornamental design for an upper bowl for a coffee brewer, as shown and described.

136,201

DESIGN FOR A POULTRY WATERING DRIP FOUNTAIN

Charles Brodsky, Brooklyn, N. Y.

Application June 5, 1943, Serial No. 110,371

Term of patent 14 years



The ornamental design for a poultry watering drip fountain, as shown.

136,202

DESIGN FOR A COMBINATION TOAST SERVER AND TOASTER COVER

Richard I. Felver, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania

Application July 31, 1942, Serial No. 107,772

Term of patent 14 years



The ornamental design for a combination toast server and toaster cover, substantially as shown and described.

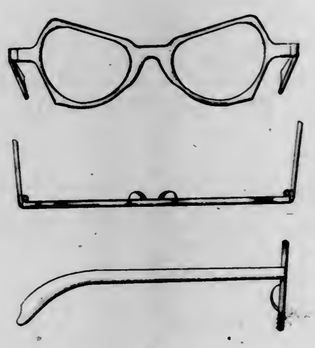
136,203

DESIGN FOR AN EYEGLASS FRAME

Arthur M. Levy, New York, N. Y., assignor to Century-Oxford Manufacturing Corporation, Long Island City, N. Y., a corporation of New York

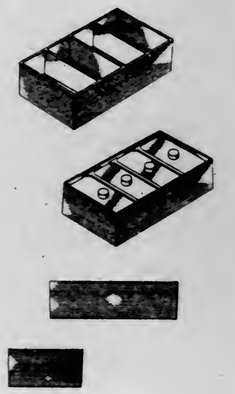
Application April 30, 1943, Serial No. 110,092

Term of patent 3½ years



The ornamental design for an eyeglass frame, substantially as shown.

136,204
DESIGN FOR A BUTTER MOLD OR SIMILAR ARTICLE
John L. Wade, Los Angeles, Calif., assignor of one-third to Ray Swanson, Los Angeles, Calif., and one-third to William Wirt Lake, Pasadena, Calif.
Application January 12, 1943, Serial No. 109,241
Term of patent 7 years



The ornamental design for a butter mold or similar article, as shown.

136,205
DESIGN FOR A PRESSURE GAUGE
Edward H. Wittenberg, Eau Claire, Wis., assignor to National Pressure Cooker Company, Eau Claire, Wis., a corporation of Wisconsin
Application June 24, 1943, Serial No. 110,512
Term of patent 7 years



The ornamental design for a pressure gauge, substantially as shown.

136,206
DESIGN FOR A TEETHER
Paul E. Allen, Skokie, Ill.
Application June 14, 1943, Serial No. 110,447
Term of patent 14 years



The ornamental design for a teether, substantially as shown.

136,207
DESIGN FOR AN ACETYLENE TORCH
Donald H. Black, Salem, Oreg.
Application July 13, 1942, Serial No. 107,515
Term of patent 14 years



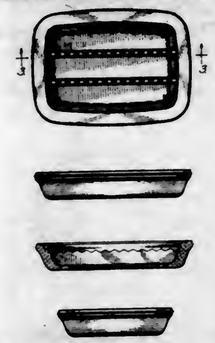
The ornamental design for an acetylene torch, as shown.

136,208
DESIGN FOR A V-SHAPED TREAD MEMBER FOR SHOES
Henry Ghez and Oscar Ghez, New York, N. Y.
Application May 6, 1942, Serial No. 106,804
Term of patent 7 years



The ornamental design for a V-shaped tread member for shoes, substantially as shown and described.

136,209
DESIGN FOR A SOAP DISH
Harry I. Holton, Chicago, Ill.
Application June 24, 1943, Serial No. 110,516
Term of patent 14 years



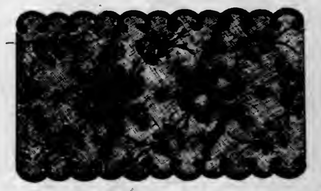
The ornamental design for a soap dish, as shown.

136,210
DESIGN FOR A BADGE OR SIMILAR ARTICLE
George A. Thoresen, Providence, R. I., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application July 6, 1942, Serial No. 107,435
Term of patent 3½ years



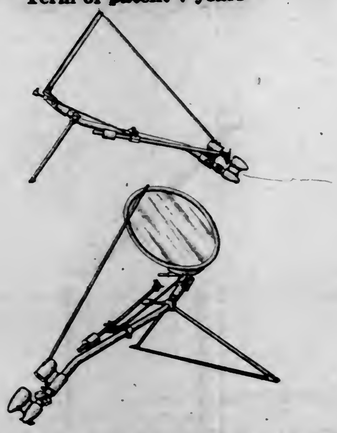
The ornamental design for a badge or similar article, substantially as shown.

136,211
DESIGN FOR AN EMBROIDERED TRIMMING OR SIMILAR ARTICLE
Hans Tobler, Teaneck, N. J.
Application June 19, 1943, Serial No. 110,486
Term of patent 3½ years



The ornamental design for an embroidered trimming or similar article, substantially as shown.

136,212
DESIGN FOR AN OPTICAL COMPARATOR
Lubbert H. Van Dellen, Pella, Iowa
Application April 29, 1943, Serial No. 110,074
Term of patent 7 years



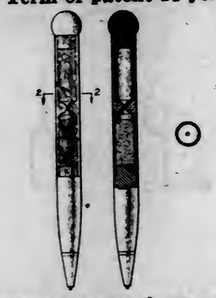
The ornamental design for an optical comparator, substantially as shown and described.

136,213
DESIGN FOR A BOOKMARK OR SIMILAR ARTICLE
Hyman S. Aaronson, Meriden, Conn.
Application May 25, 1943, Serial No. 110,284
Term of patent 7 years



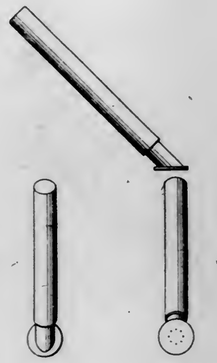
The ornamental design for a bookmark or similar article, substantially as shown.

136,214
DESIGN FOR A COMBINED PENCIL, SANDGLASS TIMER, AND TELEPHONE DIALER
Ernest C. Collopy and Carl J. Collopy, New Bedford, Mass.
Application March 20, 1943, Serial No. 109,783
Term of patent 14 years



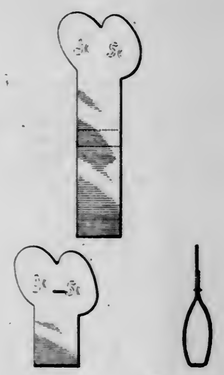
The ornamental design for a combined pencil, sandglass timer, and telephone dialer as shown.

136,215
DESIGN FOR A MOISTENER
Ottmar Kaub, St. Louis, Mo.
Application April 12, 1943, Serial No. 109,957
Term of patent 14 years



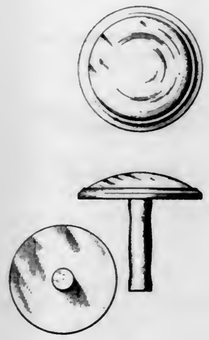
The ornamental design for a moistener, substantially as shown.

136,216
DESIGN FOR A HOSIERY BAND OR THE LIKE
Victor Lebow, New York, N. Y., assignor to Chester H. Roth Co., Inc., New York, N. Y.
Application December 19, 1942, Serial No. 109,067
Term of patent 14 years



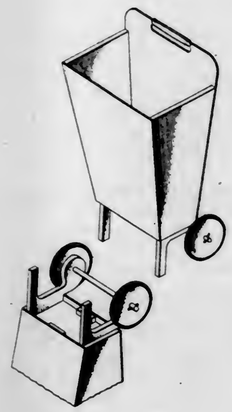
The ornamental design for a hosiery band or the like, as shown.

136,217
DESIGN FOR A MIRROR HEADED CURTAIN TIEBACK
William Lyons, Lynbrook, N. Y., assignor to William Lyons Novelty Co. Inc., New York, N. Y., a corporation of New York
Application March 23, 1943, Serial No. 109,808
Term of patent 7 years



The ornamental design for a mirror headed curtain tieback, substantially as shown.

136,218
DESIGN FOR A MERCHANDISE CART
Jules V. Accardi and Garland E. Watts, El Cerrito, Calif.
Application June 20, 1942, Serial No. 107,269
Term of patent 7 years



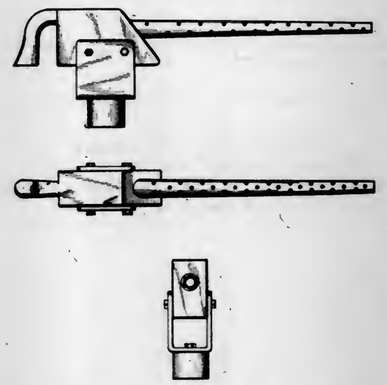
The ornamental design for a merchandise cart, substantially as shown.

136,219
DESIGN FOR A BOTTLE
Robert Milton Breeden, Millville, N. J.
Application October 27, 1942, Serial No. 108,618
Term of patent 7 years



The ornamental design for a bottle, as shown and described.

136,220
DESIGN FOR AN AUTOMOBILE ORNAMENT
Joseph B. Goodie, Towson, Md.
Application June 29, 1943, Serial No. 110,560
Term of patent 7 years



The ornamental design for an automobile ornament, as shown.

136,221
DESIGN FOR A CERAMIC BROOCH PIN
Elliot Handler, Los Angeles, Calif.
Application July 29, 1943, Serial No. 110,785
Term of patent 3½ years



The ornamental design for a ceramic brooch pin, substantially as shown.

136,222
DESIGN FOR A CERAMIC BROOCH PIN
Elliot Handler, Los Angeles, Calif.
Application July 29, 1943, Serial No. 110,786
Term of patent 3½ years



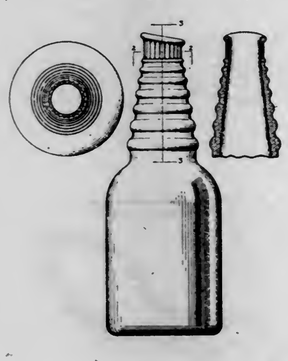
The ornamental design for a ceramic brooch pin, substantially as shown.

136,223
DESIGN FOR A CERAMIC BROOCH PIN
Elliot Handler, Los Angeles, Calif.
Application July 29, 1943, Serial No. 110,787
Term of patent 3½ years



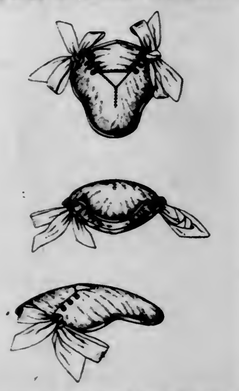
The ornamental design for a ceramic brooch pin, substantially as shown.

136,224
DESIGN FOR A BOTTLE
Ernest A. Hector, Jamestown, N. Y.
Application January 8, 1943, Serial No. 109,222
Term of patent 3½ years



The ornamental design for a bottle, substantially as shown.

136,225
DESIGN FOR A HAT
Samuel Lish, Woodmere, N. Y.
Application June 3, 1943, Serial No. 110,355
Term of patent 3½ years



The ornamental design for a hat, substantially as shown.

136,226
DESIGN FOR A SEWING RIB FOR ATTACHMENT TO INSOLES
Wallace C. Wright, Brookfield, N. H.
Application March 5, 1943, Serial No. 109,677
Term of patent 14 years



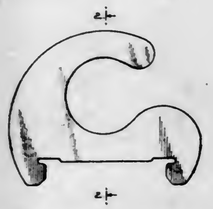
The ornamental design for a sewing rib for attachment to insoles, as shown and described.

136,227
DESIGN FOR AN INSOLE
Wallace C. Wright, Brookfield, N. H.
Application April 10, 1943, Serial No. 109,951
Term of patent 14 years



The ornamental design for an insole, substantially as shown and described.

136,228
DESIGN FOR A HOOK OR SIMILAR ARTICLE
Robert S. Gemmill, New York, N. Y.
Application July 9, 1943, Serial No. 110,640
Term of patent 3½ years



The ornamental design for a hook or similar article, as shown.

136,229
DESIGN FOR A NECKTIE
Maurice Urdang, New York, N. Y.
Application May 26, 1943, Serial No. 110,290
Term of patent 3½ years



The ornamental design for a necktie, as shown.

136,230
DESIGN FOR A NECKTIE
Maurice Urdang, New York, N. Y.
Application May 26, 1943, Serial No. 110,291
Term of patent 3½ years



The ornamental design for a necktie, as shown.

136,231
DESIGN FOR A NECKTIE
Maurice Urdang, New York, N. Y.
Application May 26, 1943, Serial No. 110,292
Term of patent 3½ years



The ornamental design for a necktie, as shown.

136,232
DESIGN FOR A NECKTIE
Maurice Urdang, New York, N. Y.
Application May 26, 1943, Serial No. 110,293
Term of patent 3½ years



The ornamental design for a necktie, as shown.

136,233
DESIGN FOR A NECKTIE
Maurice Urdang, New York, N. Y.
Application May 26, 1943, Serial No. 110,294
Term of patent 3½ years



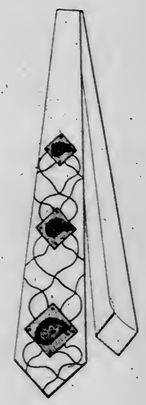
The ornamental design for a necktie, as shown.

136,234
DESIGN FOR A NECKTIE
Maurice Urdang, New York, N. Y.
Application May 26, 1943, Serial No. 110,295
Term of patent 3½ years



The ornamental design for a necktie, as shown.

136,235
DESIGN FOR A NECKTIE
Maurice Urdang, New York, N. Y.
Application May 26, 1943, Serial No. 110,296
Term of patent 3½ years



The ornamental design for a necktie, as shown.

136,236
DESIGN FOR A NECKTIE
Maurice Urdang, New York, N. Y.
Application May 26, 1943, Serial No. 110,297
Term of patent 3½ years



The ornamental design for a necktie, as shown.

136,237
DESIGN FOR A NECKTIE
Maurice Urdang, New York, N. Y.
Application May 26, 1943, Serial No. 110,298
Term of patent 3½ years



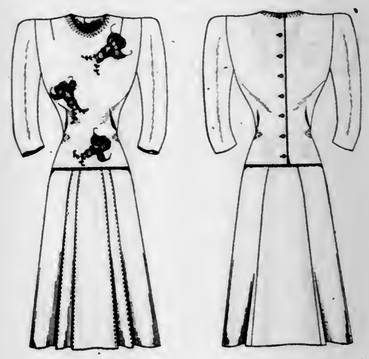
The ornamental design for a necktie, as shown.

136,238
DESIGN FOR A NECKTIE
Maurice Urdang, New York, N. Y.
Application May 26, 1943, Serial No. 110,299
Term of patent 3½ years



The ornamental design for a necktie, as shown.

136,239
DESIGN FOR A DRESS
Marion McCoy, St. Louis, Mo.
Application July 30, 1943, Serial No. 110,795
Term of patent 3½ years



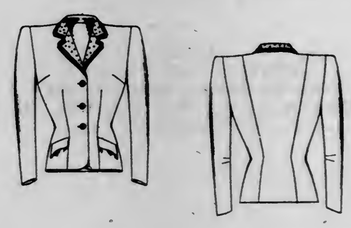
The ornamental design for a dress, substantially as shown.

136,240
DESIGN FOR A DRESS
Marion McCoy, St. Louis, Mo.
Application July 30, 1943, Serial No. 110,798
Term of patent 3½ years



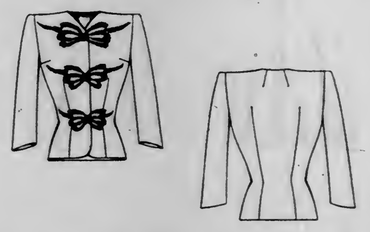
The ornamental design for a dress, substantially as shown.

136,241
DESIGN FOR A JACKET
Barbara Moye, New York, N. Y.
Application July 31, 1943, Serial No. 110,810
Term of patent 3½ years



The ornamental design for a jacket, substantially as shown.

136,242
DESIGN FOR A JACKET
Barbara Moye, New York, N. Y.
Application July 31, 1943, Serial No. 110,811
Term of patent 3½ years



The ornamental design for a jacket, substantially as shown.

136,243
DESIGN FOR A DRESS
Marion McCoy, St. Louis, Mo.
Application July 30, 1943, Serial No. 110,799
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

136,244
DESIGN FOR A DRESS
Marion McCoy, St. Louis, Mo.
Application July 30, 1943, Serial No. 110,800
Term of patent 3½ years



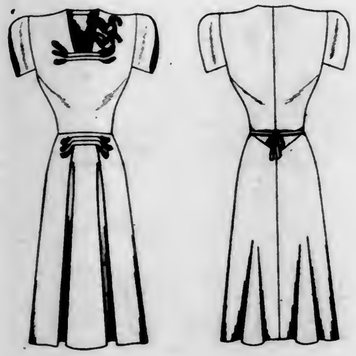
The ornamental design for a dress, substantially as shown.

136,245
DESIGN FOR A DRESS
Marion McCoy, St. Louis, Mo.
Application July 30, 1943, Serial No. 110,801
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

136,246
DESIGN FOR A DRESS
David R. Sadowsky, New York, N. Y.
Application July 31, 1943, Serial No. 110,805
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

136,247
DESIGN FOR A DRESS
David Westheim, New York, N. Y.
Application July 31, 1943, Serial No. 110,817
Term of patent 3½ years



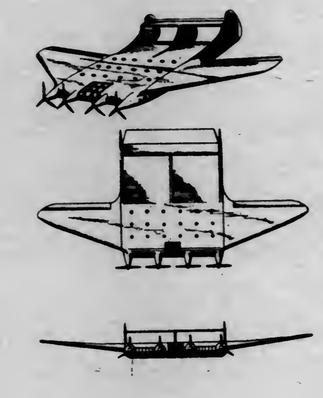
The ornamental design for a dress, substantially as shown.

136,248
DESIGN FOR A DRESS
Samuel Zahn, New York, N. Y.
Application July 31, 1943, Serial No. 110,818
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

136,249
DESIGN FOR AN AIRPLANE
Vincent J. Burnelli, Keyport, N. J.
Application October 7, 1942, Serial No. 108,453
Term of patent 14 years



The ornamental design for an airplane, as shown.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

America National Trust and Savings Association, Bank of, as executor under the last will of Andrew Mattei, also known as A. Mattei, deceased, Fresno, Calif. Brandy. Serial No. 459,799; Aug. 24. Class 46.

Bessire & Company, Inc., Indianapolis, Ind., Louisville, Ky., Columbus, Ohio, Atlanta, Ga., Memphis, Tenn., and Richmond, Va. Dairy, bakery, and confectioner's paper articles. Serial No. 454,396; Aug. 24. Class 37.

Bayer-Semesan Company, Inc., Wilmington, Del. Seed disinfectant and protectant. Serial No. 458,902; Aug. 24. Class 6.

Bobby Trading Company. (See Herschensohn, Arthur.)

Brilhart, Arnold, doing business as String Products Company, Great Neck, Long Island, N. Y. Prepared rosin stringed musical instruments. Serial No. 461,754; Aug. 24. Class 36.

Brookside Sportswear Company. (See Elkind, Ruth.)

Brunswick-Balke-Collender Company, The, Chicago, Ill. Billiard table cushions. Serial No. 461,755; Aug. 24. Class 22.

Bryan Hosiery Mill, Inc., Chattanooga, Tenn. Women's hosiery. Serial No. 459,103; Aug. 24. Class 39.

Buda Company, The, Harvey, Ill. Vehicles and structural parts. Serial No. 459,396; Aug. 24. Class 19.

Bullard Company, The, Bridgeport, Conn. Metal working lathes. Serial No. 461,534; Aug. 24. Class 23.

Cadle, Frank F., doing business as The Eldac Company, Detroit, Mich. Toy tents. Serial No. 461,648; Aug. 24. Class 22.

Chamberlain, F. B., Company, East St. Louis, Ill., and St. Louis, Mo. Medicinal preparation for poultry. Serial No. 461,362; Aug. 24. Class 6.

Clark Thread Company, The, Newark, N. J. Thread. Serial No. 460,829; Aug. 24. Class 43.

Colonial Molasses Co., Inc., Jersey City, N. J. Sweetening syrup. Serial No. 452,680; Aug. 24. Class 46.

Cook Electric Company, Chicago, Ill. Limit switches in heating systems. Serial No. 444,328; Aug. 24. Class 21.

Corn Products Refining Company, New York, N. Y. Modified syrup from corn. Serial No. 460,864; Aug. 24. Class 1.

Crolly Advertising Agency. (See Crolly, Dennis F.)

Crolly, Dennis F., doing business as Crolly Advertising Agency, Wilkes-Barre, Pa. Books of picture stamps. Serial No. 457,523; Aug. 24. Class 38.

Cumberland Dairy Products Co. Inc., Brooklyn, N. Y. Cheese food product. Serial No. 461,278; Aug. 24. Class 46.

Curly Lox Products. (See Plate, Robert T.)

Dalton Hat Company, Yonkers, N. Y. Men's hats. Serial No. 460,986; Aug. 24. Class 39.

Diebold Safe & Lock Company, Canton, Ohio. Index cards, index folders, index guides, etc. Serial No. 461,309; Aug. 24. Class 37.

DiSanto & Company. (See Di Santo, Joseph.)

Di Santo, Joseph, doing business as DiSanto & Company, Duluth, Minn. Butter. Serial No. 459,258; Aug. 24. Class 46.

Eagle Clothes, New York, N. Y. Women's clothing. Serial No. 461,651; Aug. 24. Class 39.

Eastman Kodak Company, Jersey City, N. J., and Rochester, N. Y. Rayon piece goods. Serial No. 459,412; Aug. 24. Class 42.

Eldac Company, The. (See Cadle, Frank F.)

Elkind, Ruth, doing business as Brookside Sportswear Company, New York, N. Y. Knitted sweaters, dresses, skirts, etc. Serial No. 460,893; Aug. 24. Class 39.

Endo Products Inc., New York, N. Y. Vitamin B complex preparation for vitamin deficiencies. Serial No. 461,343; Aug. 24. Class 6.

Essway Manufacturing and Trading Co. (See Wetterhahn, Siegbert.)

Foreman Fabrics Inc., New York, N. Y. Woven textiles in the piece. Serial No. 459,991; Aug. 24. Class 42.

Fouque, Emma J., also doing business as Sandra, Hollywood, Los Angeles, Calif. Beauty preparation in the nature of a skin cream. Serial No. 448,554; Aug. 24. Class 6.

Gastro Food Co., New York, N. Y. Bouillon paste. Serial No. 461,047; Aug. 24. Class 46.

General Dyestuff Corporation, New York, N. Y. Dyestuffs. Serial No. 460,095; Aug. 24. Class 6.

General Dyestuff Corporation, New York, N. Y. Dyestuffs. Serial No. 460,425; Aug. 24. Class 6.

Gruen Watch Company, The, Cincinnati and Time Hill, Cincinnati, Ohio. Watches, watch cases, and watch movements. Serial No. 461,462; Aug. 24. Class 27.

Heiman, Arthur S., Inc., New York, N. Y. Rayon piece goods. Serial No. 461,247; Aug. 24. Class 42.

Heiman, Arthur S., Inc., New York, N. Y. Rayon piece goods. Serial Nos. 461,249–51; Aug. 24. Class 42.

Henry, Sidney, New York, N. Y. Perfume and toilet water, face powder, and lipstick. Serial No. 461,656; Aug. 24. Class 6.

Herschensohn, Arthur, doing business as Bobby Trading Company, New York, N. Y. Permanent waving pads. Serial No. 461,558; Aug. 24. Class 44.

Imperial Chemical (Pharmaceuticals) Limited, Slough, Buckinghamshire, England. Pharmaceutical organic substances being sulphanilamido compounds. Serial No. 461,488; Aug. 24. Class 6.

Kozlowski, Alexander, Bowlus, Minn. Cereal. Serial No. 460,186; Aug. 24. Class 46.

Lanman & Kemp-Barclay & Co. Incorporated, New York, N. Y. Hair tonic. Serial Nos. 458,072–3; Aug. 24. Class 6.

Latouraine Coffee Co., Boston, Mass. Coffee and tea. Serial No. 461,255; Aug. 24. Class 46.

Libby Drug Company, Inc., Wilmington, Del. Preparation for the relief of headache and neuralgia pains. Serial No. 461,222; Aug. 24. Class 6.

Liebovitz, S., & Sons, Inc., New York, N. Y. Negligee shirts, sportswear, jackets, and coats for men and young men. Serial Nos. 461,661–2; Aug. 24. Class 39.

Manross, Park Arthur, London, Ontario, Canada. Non-alcoholic, non-cereal, maltless beverage. Serial No. 455,888; Aug. 24. Class 45.

Mattei, Andrew. (See America National Trust and Savings Association, Bank of.)

McKesson & Robbins, Incorporated, New York, N. Y. Monthly merchandising medium magazine. Serial No. 461,613; Aug. 24. Class 38.

Mid-States Equipment Co. (See Nielsen, Clayton P.)

Morris Morris, doing business as United Chemical Works, Chicago, Ill. Fur cleaners and cleaning compounds. Serial No. 461,283; Aug. 24. Class 4.

Nielsen, Clayton P., also doing business as Mid-States Equipment Co., Chicago, Ill. Portable power driven hand saws. Serial No. 453,204; Aug. 24. Class 23.

North American Fibre Products Company, The, Cleveland, Ohio. Chemical compositions in various applications. Serial No. 460,379; Aug. 24. Class 6.

Paraloy Company, The. (See Williamson, Fred E.)

Penstar Company, Chicago, Ill. Bearings. Serial No. 461,495; Aug. 24. Class 23.

Permold Company, The, Medina, Ohio. Non-ferrous metal castings. Serial No. 461,055; Aug. 24. Class 14.

Physicians & Hospitals Supply Company, Inc., doing business as Ulmer Pharmacal Company, Minneapolis, Minn. Medical preparation and food supplement. Serial No. 458,574; Aug. 24. Class 6.

Plate, Robert T., doing business as Curly Lox Products, Detroit, Mich. Non-electrical hair curlers. Serial No. 459,132; Aug. 24. Class 40.

Polaroid Corporation, Cambridge, Mass. Optical bench elements. Serial No. 439,558; Aug. 24. Class 26.

Premo Pharmaceutical Laboratories, Inc., New York, N. Y. Preparation for coughs, hoarseness, and bronchial irritations. Serial No. 451,776; Aug. 24. Class 6.

Products Engineering Company. (See Spievak, Louis A.)

Rainbow Shops, Inc., Brooklyn, N. Y. Feminine wearing apparel. Serial No. 459,763; Aug. 24. Class 39.

Red Spot Paint & Varnish Co. Inc., Evansville, Ind. Washable interior wall paint. Serial No. 460,745; Aug. 24. Class 16.

Refrigeration Corporation of America, New York, N. Y. Stationary and portable mechanical refrigerators. Serial 461,934; Aug. 24. Class 31.

Renart Sportswear Corp., New York, N. Y. Women's and girls' sweaters. Serial No. 461,101; Aug. 24. Class 39.

Rola Beverage Co. (See Rothstein, Matthias.)

Rola Cola Bottling Co. (See Rothstein, Matthias.)

Rothstein, Matthias, doing business as Rola Cola Bottling Co. and Rola Beverage Co., Erie, Pa. Nonalcoholic beverages, syrups and extracts. Serial No. 461,227; Aug. 24. Class 45.

Rubinstein, Helena, Inc., New York, N. Y. Perfumes and toilet waters. Serial No. 460,679; Aug. 24. Class 6.

Sandra, Hollywood. (See Fouque, Emma J.)

Sears, Roebuck and Co., Chicago, Ill. Corsets and brassières. Serial No. 461,027; Aug. 24. Class 39.

Shlansky, Philip, & Bro., Inc., New York, N. Y. Ladies' and misses' coats. Serial No. 460,813; Aug. 24. Class 39.

Smith, Lee S., & Son Manufacturing Co., Pittsburgh, Pa. Dental anaesthetics. Serial No. 461,352; Aug. 24. Class 6.

Spark-O-Life Company, Kansas City, Kans. Ice cream. Serial No. 453,853; Aug. 24. Class 46.

Speed Products Company, Long Island City, N. Y. Machine staples. Serial No. 460,846; Aug. 24. Class 13.

Spievak, Louis A., doing business as Products Engineering Company, Los Angeles, Calif. Metal and wood working machinery and tools. Serial No. 460,716; Aug. 24. Class 23.
Standard Oil Company of New Jersey, Wilmington, Del. Lubricating oils and greases. Serial No. 461,450; Aug. 24. Class 14.
String Products Company. (See Brilhart, Arnold.)
Strubel, Clarence J. J., Chicago, Ill. Medicinal preparation being a combination of biaud and vitamin B_1. Serial No. 460,541; Aug. 24. Class 6.
Sussman, Henry A., New York, N. Y. Dolls, stuffed animal toys. Serial No. 458,347; Aug. 24. Class 22.
Theobald, Harry J., doing business as The Theobald Industries, Kearny, N. J. Dog food. Serial No. 461,332; Aug. 24. Class 46.
Theobald Industries, The. (See Theobald, Harry J.)
United Chemical Works. (See Morris, Morris.)
United States Rubber Company, New York, N. Y. Button and buttonhole tape. Serial No. 459,696; Aug. 24. Class 40.
Ulmer Pharmacal Company. (See Physicians & Hospitals Supply Company, Inc.)
Valentine Laboratories, Inc., Chicago, Ill. Toothbrushes. Serial No. 461,503; Aug. 24. Class 29.
Van Pelt & Brown, Inc., Richmond, Va. Preparation in liquid or tablet form. Serial No. 461,155; Aug. 24. Class 6.
Wells Lamont Corporation. (See Wells Lamont Smith Corporation.)
Wells Lamont Smith Corporation, Chicago, Ill., now by change of name Wells Lamont Corporation. Work gloves. Serial No. 453,133; Aug. 24. Class 39.
Western Auto Supply Company, Los Angeles, Calif. Felt base floor coverings. Serial Nos. 457,886–7; Aug. 24. Class 20.
Western Auto Supply Company, Los Angeles, Calif. Felt base floor coverings. Serial No. 459,018; Aug. 24. Class 20.
Watterhahn, Siegbert, doing business as Essway Manufacturing and Trading Co., New York, N. Y. Compacts and vanity cases, billfolds, wallets, etc. Serial No. 460,640; Aug. 24. Class 3.
Whelkin Coat Company, Inc., New York, N. Y. Ladies' and misses' suits, coats, and sport coats. Serial No. 460,974; Aug. 24. Class 39.
Williams, J. B., Company, The, Glastonbury, Conn. Toilet preparations. Serial No. 461,214; Aug. 24. Class 6.
Williamson, Fred E., doing business as The Paraloy Company, Chicago, Ill. Phonograph needles. Serial No. 461,859; Aug. 24. Class 36.
Winterthurs Silks Limited, London, England, and Dunfarmline, Scotland. Bolting cloth made wholly of silk. Serial No. 460,102; Aug. 24. Class 42.
Zenith Radio Corporation, Chicago, Ill. National field newspaper. Serial No. 461,643; Aug. 24. Class 38.
Zwillinger, Paul, Hollis, Long Island, N. Y. Watches. Serial No. 461,335; Aug. 24. Class 27.

LIST OF REGISTRANTS OF TRADE-MARKS

Abbott Laboratories, Chicago, to Abbott Laboratories, North Chicago, Ill. N-butyl-ethyl-barbituric acid. 175,580; renewed Nov. 6, 1943.
Acme Steel Company, Chicago, Ill. Metal strapping employed in reinforcing boxes, crates, bales, etc. 402,908; Aug. 24; Serial No. 455,151; published June 8, 1943. Class 13.
Agnite Corporation, Charlotte, Va. Chemical product. 402,982; Aug. 24; Serial No. 460,130; published June 15, 1943. Class 6.
Ahrens Publishing Company, Inc., New York, N. Y., and Chicago, Ill. Periodical. 403,009; Aug. 24. Class 38.
Alien Property Custodian. (See N. V. Perfumery Company.)
Allied Chemical & Dye Corporation, New York, N. Y. Pitch, tar, resin, etc. 402,913; Aug. 24; Serial No. 456,482; published June 15, 1943. Class 1.
American Home Products Corporation, Jersey City, N. J. Medicinal vitamin and mineral preparations. 402,979; Aug. 24; Serial No. 460,104; published June 15, 1943. Class 6.
Amity Leather Products Co., West Bend, Wis. Billfolds. 402,992; Aug. 24. Class 3.
Armstrong, C. M., Inc., New York, N. Y. Lactic acid and lactates. 402,972–3; Aug. 24; Serial Nos. 459,898–9; published June 15, 1943. Class 6.
Atlantic Refining Company, The, Philadelphia, Pa. Petroleum grease. 169,869; renewed July 3, 1943.
Badger Rubber Works, The, Milwaukee and Cudahy, Wis., assignor, by mesne assignments, to United States Rubber Company, New York, N. Y. Nonmetallic tires. 171,731; renewed Aug. 14, 1943.
Barber, W. H., Company, Minneapolis, Minn. Hog oil and antiseptic. 403,002; Aug. 24. Class 6.
Barbera, Edward, Lodi, Calif. Fresh grapes. 402,934; Aug. 24; Serial No. 458,720; published June 15, 1943. Class 46.
Bartmann & Bixer, Inc., New York, N. Y. Made of fabric window curtains. 402,988; Aug. 24. Class 42.
Basic Refractories, Inc., Cleveland, Ohio. Refractory cement preparations. 402,939; Aug. 24; Serial No. 459,042; published June 15, 1943. Class 12.
Battista, Orlando A., Claymont, Del. Newspaper or magazine feature column. 403,003; Aug. 22. Class 38.
Beckher-Otte, Inc., New York, N. Y. Razors and shears. 403,005; Aug. 24. Class 23.
Bell Watch Company, New York, N. Y. Watches. 402,935; Aug. 24; Serial No. 458,722; published June 15, 1943. Class 27.
Bishop & Company, Los Angeles, Calif., assignor to National Biscuit Company, New York, N. Y. Cookies. 177,622; renewed Dec. 25, 1943.
Blue Anchor Beverage Company. (See Friedrich, John, assignor.)
Blumenthal, Henry S., Jackson Heights, Long Island, N. Y. Cementitious material for surfacing or coating walls or floors or the like. 402,898; Aug. 24; Serial No. 447,864; published Feb. 24, 1942. Class 12.
Botany Worsted Mills, Passaic, N. J., and New York, N. Y. Woolen dress goods. 23,936; re-renewed Dec. 19, 1943.
Bovinine Company, The, Chicago, Ill. Vitamin and mineral supplement. 402,986; Aug. 24; Serial No. 460,208; published June 15, 1943. Class 6.
Buchanan, Warren H., New Orleans, La. Composite board. 402,952; Aug. 24; Serial No. 459,590; published June 15, 1943. Class 12.
Bucyrus-Erie Company, Wilmington, Del., and South Milwaukee, Wis. Power shovels. 402,932; Aug. 24; Serial No. 458,677; published June 8, 1943. Class 23.
Budlong, Docherty & Armstrong. (See Greene, William C., Company, assignor.)
Bullard Company, The, Bridgeport, Conn. Metal-working lathes with automatic controller. 402,894; Aug. 24; Serial No. 436,563; published Jan. 28, 1941. Class 23.
Cardox Corporation, Chicago, Ill. Mobile fire extinguishing units. 402,947–8; Aug. 24; Serial Nos. 459,533–4; published June 15, 1943. Class 23.
Caruso Products Distributing Corporation. (See Martorelli, Raffaele, assignor.)
Celotex Corporation, The, Chicago, Ill. Fiber wall board, flooring and wainscoating; acoustical correction tile; etc. 402,899; Aug. 24; Serial No. 450,442; published June 8, 1943. Class 12.
Century Metalcraft Corporation, doing business as Lynn Foods Products Co., Chicago, Ill. Soup mix. 402,996; Aug. 24. Class 46.
Classic Record Company, Pittsburgh, Pa. Phonograph records. 403,016; Aug. 24. Class 36.
Clyde Fashions, Ltd., New York, N. Y. Ladies' and misses' coats, suits, jackets, etc. 403,014; Aug. 24. Class 39.
Cohn-Hall-Marx Co., New York, N. Y. Cotton and cotton and silk mixture piece goods. 175,098; renewed Oct. 20, 1943.
Collins Mfg. Co., Holyoke, to Collins Mfg. Co., North Wilbraham, Mass. Bond writing and printing paper. 171,017; renewed July 31, 1943.
Commander-Larabee Milling Company. (See Minneapolis Milling Co., assignor.)
Commander-Larabee Milling Company. (See Commander Mill Co., assignor.)
Commander Mill Co., assignor, by mesne assignments, to Commander-Larabee Milling Company, Minneapolis, Minn. Wheat flour. 177,216; renewed Dec. 11, 1943.
Coty, Inc., New York, N. Y. Face powder, dusting powder, toilet water, etc. 402,983; Aug. 24; Serial No. 460,136; published June 15, 1943. Class 6.
Coughmaster Company, Inc., Long Island City, N. Y. Cough syrup. 402,962; Aug. 24; Serial No. 459,727; published June 15, 1943. Class 6.
Curtis 1000 Incorporated, St. Paul, Minn. Transparent protecting envelopes. 402,963; Aug. 24; Serial No. 459,728; published June 15, 1943. Class 37.
Dailey Mills, Inc., Binghamton, N. Y. Feed for poultry. 403,006; Aug. 24. Class 46.
David, John, New York, N. Y., by change of name, John David, Inc. Men's dress suits, tuxedo and full-dress suits, etc. 173,792; renewed Oct. 2, 1943.
Davidson Manufacturing Corporation, Chicago, Ill. Lithographic plate. 402,964; Aug. 24; Serial No. 459,729; published June 15, 1943. Class 50.
Davidson Manufacturing Corporation, Chicago, Ill. Zinc plate used in lithography. 402,965; Aug. 24; Serial No. 459,735; published June 15, 1943. Class 50.
Day & Young, Santa Clara, Calif. Fresh pears. 402,938; Aug. 24; Serial No. 458,959; published June 15, 1943. Class 46.
Diamond Importing Company. (See Selwyn, Boris.)
Ditto, Incorporated, Chicago, Ill. Paper for duplicating use. 402,961; Aug. 24; Serial No. 459,701; published June 15, 1943. Class 37.

Ditzler Color Company, Detroit, Mich., assignor to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Japan colors, varnishes, primers, etc. 176,392; renewed Nov. 27, 1943.
Donaldson, James, Company, Inc., New York, N. Y. Grinding machines and parts thereof. 402,904; Aug. 24; Serial No. 452,418; published June 8, 1943. Class 23.
Dorset Ring Co. (See Grunzweig & Zinner.)
Doughboy Mills, Inc., New Richmond, Wis. Dog food. 402,940; Aug. 24; Serial No. 459,071; published June 15, 1943. Class 46.
Drillman, Samuel, doing business under the name of Empire City Flour Co., Brooklyn, N. Y. Wheat flour. 402,936; Aug. 24; Serial No. 458,802; published June 15, 1943. Class 46.
Duffy-Mott Company, Inc., New York, N. Y. Vinegars. 177,025; renewed Dec. 11, 1943.
Duro Company, The, Dayton, Ohio. Pneumatic pressure systems, etc., and parts thereof. 402,984; Aug. 24; Serial No. 460,140; published June 15, 1943. Class 23.
Eckel, Oliver C., doing business as Stic-Klip Mfg. Company, Cambridge, Mass. Metal clips. 402,922; Aug. 24; Serial No. 458,303; published June 8, 1943. Class 13.
Elkhorn Coal Company, Lexington, to Elkhorn Coal Company, Kona, Ky. Coal. 175,541; renewed Nov. 6, 1943.
Empire City Flour Co. (See Drillman, Samuel.)
Estee Bedding Company, Chicago, Ill. Mattresses and box springs. 402,977; Aug. 24; Serial No. 460,093; published June 15, 1943. Class 32.
Eureka Fire Hose Company, assignor, by mesne assignments, to United States Rubber Company, New York, N. Y. Hydraulic and fire hose. 23,616–18; re-renewed Sept. 19, 1943.
Everson, Franklin E., doing business as F. E. Everson, New York, N. Y. Detergent preparation. 402,937; Aug. 24; Serial No. 458,862; published June 15, 1943. Class 4.
Fair Play Caramels, Inc., Johnson City, N. Y. Candy. 402,985; Aug. 24; Serial No. 460,142; published June 15, 1943. Class 46.
Federal Telephone and Radio Corporation, New York, N. Y. Monthly house organs. 402,943; Aug. 24; Serial No. 459,301; published June 8, 1943. Class 38.
Feldman, Robert, doing business as Flameproof Process Company, New York, N. Y. Blackout drapery with fixtures and attachments therefor. 402,991; Aug. 24. Class 42.
Filene's Sons, Wm., Company, Boston, Mass. Hair nets. 177,739; renewed Dec. 25, 1943.
Filice & Perrelli Canning Co., Gilroy, to Filice & Perrelli Canning Company, Incorporated, Richmond, Calif. Canned fruits and vegetables. 170,401; renewed July 17, 1943.
Fisk Rubber Company, The, Chicopee Falls, Mass., assignor, by mesne assignments, to United States Rubber Company, New York, N. Y. Rubber tires. 170,546; renewed July 17, 1943.
Fisk Rubber Company, The, Chicopee Falls, Mass., assignor, by mesne assignments, to United States Rubber Company, New York, N. Y. Rubber tires. 171,418; renewed Aug. 7, 1943.
Fisk Rubber Company, The, Chicopee Falls, Mass., assignor, by mesne assignments, to United States Rubber Company, New York, N. Y. Vehicle tires. 172,443; renewed Aug. 28, 1943.
Flameproof Process Company. (See Feldman, Robert.)
Flynn, John H., Cincinnati, Ohio. Pulley-blocks. 402,916; Aug. 24; Serial No. 457,607; published June 8, 1943. Class 23.
Franchette Corp. (See Hoy, F. P., Inc., assignor.)
Friedrich, John, assignor to Blue Anchor Beverage Company, Philadelphia, Pa. Ginger ale, sarsaparilla and root beer. 177,685; renewed Dec. 25, 1943.
Gold Seal Importers, Inc., New York, N. Y. Ladies' handbags. 402,900; Aug. 24; Serial No. 451,054; published Apr. 14, 1942. Class 3.
Golden Brown Appliance Manufacturing Co., Lynn, Mass. Gas cooking stoves, including food fryers. 402,896; Aug. 24; Serial No. 443,881; published Sept. 9, 1941. Class 34.
Good Housekeeping Wares. (See Promotions, Inc., assignor.)
Goodyear Tire & Rubber Company, The, Akron, Ohio. Coated sheet material. 402,920; Aug. 24; Serial No. 458,011; published June 15, 1943. Class 37.
Graef & Schmidt, Inc., New York, N. Y. Cutlery. 402,944; Aug. 24; Serial No. 459,367; published June 8, 1943. Class 23.
Graef & Schmidt, Inc., New York, N. Y. Nail files. 403,008; Aug. 24. Class 44.
Grayland Cranberry Growers Association, Inc., Grayland, Wash. Fresh cranberries and strained cranberry sauce. 402,897; Aug. 24; Serial No. 447,589; published June 15, 1943. Class 46.
Greene, William C., Company, assignor to Budlong, Docherty & Armstrong, Providence, R. I. Articles of jewelry. 170,455; renewed July 17, 1943.
Groov-Pin Corporation, Union City, N. J. Tapered, grooved metal pins. 403,015; Aug. 24. Class 23.
Grunzweig & Zinner, also doing business as Dorset Ring Co., New York, N. Y. Rings. 402,999; Aug. 24. Class 28.
Gunn Furniture Company, The, assignor to Gunn Furniture Company, Grand Rapids, Mich. Furniture, tops for desks, counters, tables, etc. 177,564; renewed Dec. 18, 1943.
Gurrieri, Louis, doing business as L. Gurrieri Co., New York, N. Y. Cookie rolling pins. 402,921; Aug. 24; Serial No. 458,069; published June 8, 1943. Class 23.
Gustin-Bacon Manufacturing Company, Kansas City, Mo. Steel pipe fittings. 402,928; Aug. 24; Serial No. 458,514; published June 1, 1943. Class 13.
Haeger Potteries, Incorporated The, Dundee, Ill. Vases, bowls, flower pots, etc. 402,895; Aug. 24; Serial No. 443,603; published June 15, 1943. Class 30.
Hair's, Dr., Asthma Cure Limited, Staines, England. Medicine for asthma. 402,925; Aug. 24; Serial No. 458,459; published June 15, 1943. Class 6.
Harvel Watch Company, New York, N. Y. Watches, watch-movements, watchcases and parts thereof. 402,955; Aug. 24; Serial No. 459,660; published June 15, 1943. Class 27
Harvel Watch Company, New York, N. Y. Watches, watch-movements, watchcases and parts thereof. 402,956–8; Aug. 24; Serial Nos. 459,663–5; published June 15, 1943. Class 27.
Hercules Powder Company, Wilmington, Del. Pine oil. 171,395–6; renewed Aug. 7, 1943.
Hercules Powder Company, Wilmington, Del. Pine oil. 171,398–9; renewed Aug. 7, 1943.
Hercules Powder Company, Wilmington, Del. Compounded oil. 172,326; renewed Aug. 28, 1943.
Heron, Norman C., Los Angeles, Calif. Eucalyptus remedies for internal and external uses. 172,833; renewed Sept. 11, 1943.
Horowitz & Son, Inc., New York, N. Y. Watches. 402,950–1; Aug. 24; Serial Nos. 459,566–7; published June 15, 1943. Class 27.
Hoy, F. P., Inc., assignor to Francette Corp., New York, N. Y. Corsets. 172,279; renewed Aug. 28, 1943.
International Salt Company, Inc., New York, N. Y., assignor to International Salt Company, Inc., Scranton, Pa. Table salt. 177,354; renewed Dec. 18, 1943.
International Salt Company, Inc., New York, N. Y., assignor to International Salt Company, Inc., Scranton, Pa. Table salt. 177,361; renewed Dec. 18, 1943.
Ipik Plywood Corporation, New Orleans, La. Plywood panels. 402,949; Aug. 24; Serial No. 459,557; published June 8, 1943. Class 12.
Irwin Auger Bit Company, The, Wilmington, Ohio. Expansive bits. 402,893; Aug. 24; Serial No. 434,720; published June 8, 1943. Class 23.
Jett & Wood Mercantile Co., The, Wichita, Kans. Canned fruits, and vegetables, spices, extracts, etc. 177,458; renewed Dec. 18, 1943.
Jones, Emory E., Bluefield, W. Va. Journal boxes. 403,010; Aug. 24. Class 23.
Kasco Mills, Inc., Toledo, Ohio. Dog ration. 402,976; Aug. 24; Serial No. 460,000; published June 15, 1943. Class 46.
Kee Lox Manufacturing Company, Rochester, N. Y. Carbon paper. 172,001; renewed Aug. 21, 1943.
Kee Lox Manufacturing Company, Rochester, N. Y. Carbon paper. 172,268; renewed Aug. 28, 1943.
Keystone Steel and Wire Company, Bartonville, Peoria, to Keystone Steel & Wire Company, Peoria, Ill. Plain galvanized wire and galvanized telephone wire. 176,325; renewed Nov. 20, 1943.
Keystone Steel & Wire Company, Bartonville, Peoria, to Keystone Steel & Wire Company, Peoria, Ill. Wire fence and barbed wire. 176,327–8; renewed Nov. 20, 1943.
Keystone Steel & Wire Company, Bartonville, Peoria, to Keystone Steel & Wire Company, Peoria, Ill. Plain galvanized wire and galvanized telephone wire. 176,329; renewed Nov. 20, 1943.
Kidder, Samuel, & Co., Inc., Atlantic City, N. J. Asthmatic pastils. 169,650; renewed June 26, 1943.
King Manufacturing Company, St. Louis, Mo. Medicinal preparation. 402,974; Aug. 24; Serial No. 459,910; published June 15, 1943. Class 6.
Kirby, Beard & Co., Ltd., Birmingham, England. Pins, hairpins, and needles. 172,448; renewed Aug. 28, 1943.
Kirby, Beard & Co., Ltd., Birmingham, England. Pins and hairpins. 172,449; renewed Aug. 28, 1943.
Kirby, Beard & Co., Ltd., Birmingham, England. Pins. 172,450; renewed Aug. 28, 1943.
Kirby, Beard & Co., Ltd., Birmingham, England. Pins, hairpins, and needles. 172,457; renewed Aug 28, 1943.
Kolbe Paint Company, The, Cincinnati, Ohio. Ready-mixed paints, house paints, paint enamels, etc. 170,632; renewed July 17, 1943.
Kraft Cheese Company of Wisconsin. (See Straubel, C. A., Co.)
Kurfees, J. F., Paint Company, Louisville, Ky. Wood stains, ready-mixed paints and semi-paste paints. 402,933; Aug. 24; Serial No. 458,708; published June 21, 1943. Class 16.
Lee County Packing Company, Fort Myers, Fla. Fresh citrous fruits. 176,253; renewed Nov. 20, 1943.
Lincoln Engineering Company, St. Louis, Mo. Lubricant fittings to be attached to apparatus to be lubricated. 402,980; Aug. 24; Serial No. 460,117; published June 15, 1943. Class 23.

Lockport Cotton Batting Co., Lockport, N. Y. Cotton Batting or cotton batts. 402,954; Aug. 24; Serial No. 459,626; published June 15, 1943. Class 1.
Lynn Food Products Co. (See Century Metalcraft Corporaton.)
Magnavox Company, The, Fort Wayne, Ind. Electrical sound-amplifying devices, loud-speaking telephones, etc. 402,909; Aug. 24; Serial No. 455,707; published June 15, 1943. Class 21.
Mandee Fabrics, Inc., New York, N. Y. Fabrics in the piece. 403,011; Aug. 24. Class 42.
Martorelli, Raffaele, New York, N. Y., assignor, by mesne assignments, to Caruso Products Distributing Corporation, Newark, N. J. Olive oil. 170,703; renewed July 24, 1943.
Meridian Grain & Elevator Company. (See Wilson, John M., assignor.)
Miller Art Company, Inc., Brooklyn, N. Y. Greeting and message sheets. 402,915; Aug. 24; Serial No. 457,443; published June 15, 1943. Class 37.
Minneapolis Milling Co., assignor to Commander-Larabee Milling Company, Minneapolis, Minn. Wheat flour. 176,735; renewed Nov. 27, 1943.
Minneapolis Milling Co., assignor to Commander-Larabee Milling Company, Minneapolis, Minn. Wheat flour. 177,220; renewed Dec. 11, 1943.
Monarch Cap Screw & Manufacturing Company, The, Cleveland, Ohio. Screws and bolts. 402,903; Aug. 24; Serial No. 451,916; published June 1, 1943. Class 13.
Monroe Auto Equipment Company, Monroe, Mich. Airplane type shock absorbers and shock absorber parts. 402,945; Aug. 24; Serial No. 459,476; published June 15, 1943. Class 19.
Motch & Merryweather Machinery Company, The, Cleveland, Ohio. Saws for cutting metal, etc. 402,946; Aug. 24; Serial No. 459,479; published June 8, 1943. Class 23.
Mount Airy Knitting Company, Mount Airy, N. C. Knitted underwear. 403,013; Aug. 24. Class 39.
N. V. Perfumery Company, Amsterdam, Netherlands, assignor, by mesne assignments, to Alien Property Custodian. Toilet preparations. 170,206; renewed July 10, 1943.
Nash, Inc., Jersey City, N. J. Leather goods. 402,981; Aug. 24; Serial No. 460,121; published June 15, 1943. Class 3.
National Biscuit Company. (See Bishop & Company, assignor.)
National Biscuit Company, Jersey City, N. J., and New York, to National Biscuit Company, New York, N. Y. Cookies and small cakes. 177,623; renewed Dec. 25, 1943.
National Drug Company, The, Philadelphia, Pa. Product which comprises an ointment containing allantoin and sulfanilamide. 402,978; Aug. 24; Serial No. 460,097; published June 15, 1943. Class 6.
National Welding Equipment Co., San Francisco, Calif. Gas blow pipes and handles and bases therefor. 402,892; Aug. 24; Serial No. 433,104; published June 8, 1943. Class 34.
Newport Industries, Inc., Pensacola, Fla. Oil substitute for paints and varnishes. 402,941; Aug. 24; Serial No. 459,128; published June 15, 1943. Class 16.
New York Belting and Packing Company, assignor to United States Rubber Company, New York, N. Y. Belting. 170,312–13; renewed July 10, 1943.
New-Way Foods. (See Priestley, Thomas T.)
Nickel and Drummey, Chicago, Ill. Butter. 177,328; renewed Dec. 18, 1943.
Nutrilite Products, Inc., Los Angeles, Calif. Vitamin food supplement and a universal food supplement. 402,891; Aug. 24; Serial No. 425,485; published Jan. 21, 1941. Class 46.
Pacific Mills, Lawrence and Boston, to Pacific Mills, Lawrence, Mass. Sheetings and shirtings. 171,448; renewed Aug. 7, 1943.
Pacific Mills, Lawrence and Boston, to Pacific Mills, Lawrence, Mass. Cotton piece goods. 173,360; renewed Sept. 25, 1943.
Parke, Davis & Company, Detroit, Mich. Ointment. 172,537; renewed Sept. 4, 1943.
Parke, Davis & Company, Detroit, Mich. Hypodermic solutions. 172,850; renewed Sept. 11, 1943.
Parke, Davis & Company, Detroit, Mich. Hypnotic and antispasmodic. 175,422; renewed Nov. 6, 1943.
Parke, Davis & Company, Detroit, Mich. Insecticide, antiseptic, and germicide. 175,650; renewed Nov. 6, 1943.
Parke, Davis & Company, Detroit, Mich. Extract anterior lobe pituitary gland. 176,313; renewed Nov. 20, 1943.
Parke, Davis & Company, Detroit, Mich. Medicine. 176,953; renewed Dec. 11, 1943.
Paul, Israel, doing business as Russpharmaco Products Co., Philadelphia, Pa. Medicine for the treatment of the blood and stomach. 170,082; renewed July 10, 1943.
Peerless Steel Equipment Company, Philadelphia, Pa. Steel office furniture. 402,993; Aug. 24. Class 32.
Peters Brothers Rubber Co., Inc., New York, to Peters Brothers Rubber Co., Inc., New York and Brooklyn, N. Y. Cotton cloth and shoe cloth. 177,312; renewed Dec. 18, 1943.
Pierce Plastics, Inc., Bay City, Mich. Flexible rod, tape and tubular hose. 402,911; Aug. 24; Serial No. 456,105; published June 15, 1943. Class 50.
Pittsburgh Plate Glass Company. (See Ditzler Color Company, assignor.)
Pittsburgh Plate Glass Co., Rennous-Kleinle Division, Baltimore, Md., to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Brushes. 175,404; renewed Nov. 6, 1943.
Priestley, Thomas T., doing business as New-Way Foods, Pasadena Calif. Grain cereal breakfast food. 402,966; Aug .24; Serial No. 459,849; published June 15, 1943. Class 46.
Princess Pecans, Inc., Camilla, Ga. Nut meats. 402,989; Aug. 24. Class 46.
Progressive Enterprises, Inc., Chicago, Ill. Publication. 402,994; Aug. 24. Class 38.
Promotions, Inc., assignor to Good Housekeeping Wares, Inc., Youngstown, Ohio. Hollow, solid, and plated tableware, tolletware, etc. 403,000; Aug. 24. Class 28.
Promotions, Inc., assignor to Good Housekeeping Wares, Inc., Youngstown, Ohio. Piece goods, tablecloths, napkins, etc. 403,001; Aug. 24. Class 42.
R. & J. Underwear Company, The. (See R. & J. Waist Company, The.)
R. & J. Waist Company, The, New London, by change of name to The R. & J. Underwear Company, New London, Conn., and New York, N. Y. Children's waists and shirts. 171,718; renewed Aug. 14, 1943.
Rahway Machine Tool Corporation, Rahway, N. J. Cutting tool bits. 402,968; Aug. 24; Serial No. 459,887; published June 15, 1943. Class 23.
Raton Coal Company. (See Swastika Fuel Company.)
Red Top Malt Extract Co., to Red Top Malt Company, Cincinnati, Ohio, successor. Malt syrups. 176,113; renewed Nov. 20, 1943.
Reliance Rubber Company, Emeryville, Calif. Synthetic rubber rollers for printing presses, food-packaging machinery, etc. 402,924; Aug. 24; Serial No. 458,407; published June 8, 1943. Class 23.
Riverbank Canning Company, Riverbank, Calif. Dried fruits, dried vegetables, canned vegetables, etc. 402,906; Aug. 24; Serial No. 454,543; published June 8, 1943. Class 46.
Rockmore, Milton M., New York, N. Y. Paper folders. 402,926; Aug. 24; Serial No. 458,499; published June 15, 1943. Class 37.
Russpharmaco Products Co. (See Paul, Israel.)
San Dimas Lemon Association, San Dimas, Calif. Fresh citrous fruits. 177,769–71; renewed Dec. 25, 1943.
Sandoz Chemical Works, Inc., New York, N. Y. Medicinal preparation. 402,905; Aug. 24; Serial No. 454,104; published June 15, 1943. Class 6.
Sawyer Belt Hook Company. (See Sawyer, John D.)
Sawyer, John D., doing business as Sawyer Belt Hook Company, Pawtucket, R. I. Belt hooks. 402,929; Aug. 24; Serial No. 458,561; published June 15, 1943. Class 13.
Schwalberg, Reuben, doing business as Zoredex Laboratories, New York, N. Y. Medicinal ointment. 402,969; Aug. 24; Serial No. 459,889; published June 15, 1943. Class 6.
Scott County Milling Company, The. (See Stoddard Mill & Grain Company, assignor.)
Selig Company, The, Atlanta, Ga. Disinfectant, germicide, and antiseptic. 402,959; Aug. 24; Serial No. 459,677; published June 15, 1943. Class 6.
Selsi Company. (See Sussfeld, Lorsch & Schimmel, assignor.)
Selwyn, Boris, doing business as Diamond Importing Company, Los Angeles, Calif. Jewelry. 402,914; Aug. 24; Serial No. 457,373; published June 15, 1943. Class 28.
Shlansky, Philip, & Bro., Inc., New York, N. Y. Ladies' and misses' coats. 403,012; Aug. 24. Class 39.
Sifo Products Company, St. Paul, Minn., assignor to United States Gypsum Company, Chicago, Ill. Shingle strips. 172,689; renewed Sept. 11, 1943.
Silberkleit, Louis H., New York, N. Y. Bi-monthly publication. 402,912; Aug. 24; Serial No. 456,250; published May 11, 1943. Class 38.
Singer Manufacturing Company, New York, N. Y., and Elizabeth, to The Singer Manufacturing Company, Elizabeth, N. J. Electric motors, electric motor parts, controllers, etc. 175,840; renewed Nov. 13, 1943.
Sociedad Auxiliar Fabril, Agricola & Comercial S. A., Buenos Aires, Argentina. Yerba mate. 402,931; Aug. 24; Serial No. 458,664; published May 25, 1943. Class 46.
Standard Oil Company, The, Cleveland, Ohio. Inspection information for automotive equipment. 402,990; Aug. 24. Class 38.
Stauffer Chemical Company. (See Walnut Growers Spray Manufacturing Company, assignor.)
Stic-Klip Mfg. Company. (See Eckel, Oliver C.)
Stoddard Mill & Grain Company, Advance, assignor, by mesne assignments, to The Scott County Milling Company, Sikeston, Mo. Wheat flour. 177,734; renewed Dec. 25, 1943.
Straubel, C. A., Co., to Kraft Cheese Company of Wisconsin, Green Bay, Wis. Cheese. 172,642; renewed Sept. 11, 1943.

Superior Sash and Screen Company, Detroit, Mich. Storm windows. 402,902; Aug. 24; Serial No. 451,352; published June 8, 1943. Class 12.
Sussfeld, Lorsch & Schimmel, assignor, by mesne assignments, to Selsi Company, Inc., New York, N. Y. Ophthalmic lens blanks. 170,291; renewed July 10, 1943.
Sussfeld, Lorsch & Schimmel, assignor, by mesne assignments, to Selsi Company, Inc., New York, N. Y. Ophthalmic lenses and blanks. 170,292; renewed July 10, 1943.
Swastika Fuel Company, Raton, N. Mex., by change of name Raton Coal Company. Coal and coke. 169,060–1; renewed June 5, 1943.
Toledo Steel Products Company, The, Toledo, Ohio. Poppet valves. 170,471; renewed July 17, 1943.
Ultra-Life Laboratories, Inc., East St. Louis, Ill. Stock feeds. 402,901; Aug. 24; Serial No. 451,329; published June 15, 1943. Class 46.
Uni-Gun Corporation of America, New York, N. Y. Grease cocks, greasers, stuffing boxes containing lubricant, etc. 402,967; Aug. 24; Serial No. 459,853; published June 15, 1943. Class 23.
United Aircraft Corporation, East Hartford, Conn. Aircraft propellers, parts and attachments therefor. 402,917–19; Aug. 24; Serial Nos. 457,817–19; published June 8, 1943. Class 19.
United Aircraft Products, Inc., Dayton, Ohio. Oil temperature regulators. 402,910; Aug. 24; Serial No. 455,895; published June 8, 1943. Class 34.
United Autographic Register Co., Chicago, Ill. Autographic registers. 402,927; Aug. 24; Serial No. 458,500; published June 15, 1943. Class 37.
United Chemical Company, Inc., Kansas City, Mo. Polish and cleaner for floors and furniture. 402,907; Aug. 24; Serial No. 454,589; published June 15, 1943. Class 16.
United Press Associations, New York, N. Y. Printed press releases. 402,995; Aug. 24. Class 38.
United States Gypsum Company. (See Sifo Products Company, assignor.)
United States Rubber Company. (See Badger Rubber Works, The, assignor.)
United States Rubber Company. (See Eureka Fire Hose Company, assignor.)
United States Rubber Company. (See Fisk Rubber Company, The, assignor.)
United States Rubber Company. (See New York Belting and Packing Company, assignor.)
United States Rubber Company, New Brunswick, N. J., and New York, to United States Rubber Company, New York, N. Y. Aprons for icemen. 171,848; renewed Aug. 14, 1943.
United States Rubber Company, New Brunswick, N. J., and New York, to United States Rubber Company, New York, N. Y. Coats. 173,495; renewed Sept. 25, 1943.
Verdolyack, Arthur G., Minneapolis, Minn. Paper sheeting. 402,953; Aug. 24; Serial No. 459,609; published June 15, 1943. Class 37.
Vitro Manufacturing Company, The, Pittsburgh, Pa. Oxides of cobalt, chromium, selenium, etc. 172,975; renewed Sept. 11, 1943.
Vultee Aircraft, Inc., Vultee Field, Calif. Airplanes and structural parts thereof. 402,942; Aug. 24; Serial No. 459,181; published June 8, 1943. Class 19.
Waldes Koh-I-Noor, Inc., Long Island City, N. Y. Retaining rings. 402,923; Aug. 24; Serial No. 458,320; published June 15, 1943. Class 23.
Walnut Growers Spray Manufacturing Company, Los Angeles, assignor, by mesne assignments, to Stauffer Chemical Company, San Francisco, Calif. Insecticides. 177,704; renewed Dec. 25, 1943.
Ward Baking Company, New York, N. Y. Bread. 177,610–11; renewed Dec. 25, 1943.
Warner & Stewart, Yuma, Ariz. Fresh vegetables and melons. 402,970–1; Aug. 24; Serial Nos. 459,891–2; published June 15, 1943. Class 46.
Watertown Woolen Co., Somersworth, N. H. Tweed piece goods. 403,007; Aug. 24. Class 42.
Webb Packing Co., Inc., Lindsay, Calif. Fresh citrus fruits. 403,004; Aug. 24. Class 46.
Western Cartridge Company, assignor to Western Cartridge Company, East Alton and Springfield, assignor to Western Cartridge Company, East Alton, Ill. Shot shells. 169,970; renewed July 10, 1943.
Westinghouse Air Brake Company, The, Borough of Wilmerding, Pa. Fluid pressure responsive control valves. 402,997; Aug. 24. Class 23.
Westinghouse Air Brake Company, The, Borough of Wilmerding, Pa. Controllers adapted for association with boat and ship control systems. 402,998; Aug. 24. Class 23.
Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Lightning arresters. 171,006; renewed July 31, 1943.
Williams-Richardson Company, Ltd., New Orleans, La. Hosiery, underwear, and shirts. 177,008; renewed Dec. 11, 1943.
Willson Goggles, Inc., Reading, Pa., by change of name Willson Products, Inc. Lenses for goggles and protection glasses. 174,105; renewed Oct. 2, 1943.
Willson Products, Inc. (See Willson Goggles, Inc.)
Wilson, John M., doing business as Meridian Grain & Elevator Company, assignor to Meridian Grain & Elevator Co., Meridian, Miss. Scratch feed, hog feed, horse and mule feed. 171,754; renewed Aug. 14, 1943.
Wilson, John M., doing business as Meridian Grain & Elevator Company, assignor to Meridian Grain & Elevator Co., Meridian, Miss. Horse and mule feed, ox feed, hog feed, etc. 173,492; renewed Sept. 25, 1943.
Winthrop Chemical Company, Inc., New York, N. Y. Sedative and hypnotic preparation. 402,975; Aug. 24; Serial No. 459,916; published June 15, 1943. Class 6.
Wolfe & Mann Manufacturing Company, The, Baltimore, Md. Aircraft servicing and repair platforms and machinery and tools connected therewith. 402,987; Aug. 24; Serial No. 460,226; published June 15, 1943. Class 23.
Wurster, William A., Portsmouth, Ohio. Combined hoe and rake. 402,960; Aug. 24; Serial No. 459,698; published June 8, 1943. Class 23.
Wylie, George, Company, Inc., Clay Center, Kans. Publication. 402,930; Aug. 24; Serial No. 458,644; published June 8, 1943. Class 38.
Zoredex Laboratories. (See Schwalberg, Reuben.)

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Coal. Elkhorn Coal Company. 175,541; renewed Nov. 6, 1943.
Coal and coke. Swastika Fuel Company. 169,060–1; renewed June 5, 1943.
Cotton batting or cotton batts. Lockport Cotton Batting Co. 402,954; Aug. 24; Serial No. 459,626; published June 15, 1943.
Pitch, tar, resin, etc. Allied Chemical & Dye Corporation. 402,913; Aug. 24; Serial No. 456,482; published June 15, 1943.

CLASS 3

Billfolds. Amity Leather Products Co. 402,992; Aug. 24.
Handbags, Ladies'. Gold Seal Importers, Inc. 402,900; Aug. 24; Serial No. 451,054; published Apr. 14, 1942.
Leather goods. Nash, Inc. 402,981; Aug. 24; Serial No. 460,121; published June 15, 1943.

CLASS 4

Detergent preparation. F. E. Everson. 402,937; Aug. 24; Serial No. 458,862; published June 15, 1943.

CLASS 6

Chemical product. Agnite Corporation. 402,982; Aug. 24; Serial No. 460,130; published June 15, 1943.
Cough syrup. Coughmaster Company. 402,962; Aug. 24; Serial No. 459,727; published June 15, 1943.
Disinfectant, germicide, and antiseptic. Selig Company. 402,959; Aug. 24; Serial No. 459,677; published June 15, 1943.
Extract anterior lobe pituitary gland. Parke, Davis & Company. 176,313; renewed Nov. 20, 1943.
Face powder, dusting powder, toilet water, etc. Coty, Inc. 402,983; Aug. 24; Serial No. 460,136; published June 15, 1943.
Hypnotic and antispasmodic. Parke, Davis & Company. 175,422; renewed Nov. 6, 1943.
Hypodermic solutions. Parke, Davis & Company. 172,850; renewed Sept. 11, 1943.
Insecticide, antiseptic, and germicide. Parke, Davis & Company. 175,650; renewed Nov. 6, 1943.
Insecticides. Walnut Growers Spray Manufacturing Company. 177,704; renewed Dec. 25, 1943.
Lactic acid and lactates. C. M. Armstrong, Inc. 402,972–3; Aug. 24; Serial Nos. 459,898–9; published June 15, 1943.
Medicinal ointment. R. Schwalberg. 402,969; Aug. 24; Serial No. 459,889; published June 15, 1943.
Medicinal preparation. King Manufacturing Company. 402,974; Aug. 24; Serial No. 459,910; published June 15, 1943.
Medicinal preparation. Sandoz Chemical Works, Inc. 402,905; Aug. 24; Serial No. 454,104; published June 15, 1943.
Medicine. Parke, Davis & Company. 176,953; renewed Dec. 11, 1943.
Medicine for asthma. Dr. Hair's Asthma Cure Limited. 402,925; Aug. 24; Serial No. 458,459; published June 15, 1943.
Medicine for the treatment of the blood and stomach. I. Paul. 170,082; renewed July 10, 1943.
N-butyl-ethyl-barbituric acid. Abbott Laboratories. 175,580; renewed Nov. 6, 1943.

Oil and antiseptic, Hog. W. H. Barber Company. 403,002; Aug. 24.
Ointment. Parke, Davis & Company. 172,537; renewed Sept. 4, 1943.
Oxides of cobalt, chromium, selenium, etc. Vitro Manufacturing Company. 172,975; renewed Sept. 11, 1943.
Pastils, Asthmatic. Samuel Kidder & Co. 169,650; renewed June 26, 1943.
Product which comprises an ointment containing allantoin and sulfanilamide. National Drug Company. 402,978; Aug. 24; Serial No. 460,097; published June 15, 1943.
Remedies for internal and external uses, Eucalyptus. N. C. Heron. 172,833; renewed Sept. 11, 1943.
Sedative and hypnotic preparation. Winthrop Chemical Company. 402,975; Aug. 24; Serial No. 459,916; published June 15, 1943.
Toilet preparations. N. V. International Perfumery Company. 170,206; renewed July 10, 1943.
Vitamin and mineral preparations, Medicinal. American Home Products Corporation. 402,979; Aug. 24; Serial No. 460,104; published June 15, 1943.
Vitamin and mineral supplement. Bovinine Company. 402,986; Aug. 24; Serial No. 460,208; published June 15, 1943.

CLASS 9

Shells, Shot. Western Cartridge Company. 169,970; renewed July 10, 1943.

CLASS 11

Carbon paper. Kee Lox Manufacturing Company. 172,001; renewed Aug. 21, 1943.
Carbon paper. Kee Lox Manufacturing Company. 172,268; renewed Aug. 28, 1943.

CLASS 12

Board, Composite. W. H. Buchanan. 402,952; Aug. 24; Serial No. 459,590; published June 15, 1943.
Cement preparations, Refractory. Basic Refractories, Inc. 402,939; Aug. 24; Serial No. 459,042; published June 15, 1943.
Cementitious material for surfacing or coating walls or floors or the like. H. S. Blumenthal. 402,898; Aug. 24; Serial No. 447,864; published Feb. 24, 1942.
Panels, Plywood. Ipik Plywood Corporation. 402,949; Aug. 24; Serial No. 459,557; published June 8, 1943.
Strips, Shingle. Sifo Products Company. 172,689; renewed Sept. 11, 1943.
Wall board, flooring, and wainscoating; acoustical correction tile; etc., Fiber. Celotex Corporation. 402,899; Aug. 24; Serial No. 450,442; published June 8, 1943.
Windows, Storm. Superior Sash and Screen Company. 402,902; Aug. 24; Serial No. 451,352; published June 8, 1943.

CLASS 13

Clips, Metal. O. C. Eckel. 402,922; Aug. 24; Serial No. 458,303; published June 8, 1943.
Fence and barbed wire, Wire. Keystone Steel & Wire Company. 176,327–8; renewed Nov. 20, 1943.
Hooks, Belt. J. D. Sawyer. 402,929; Aug. 24; Serial No. 458,561; published June 15, 1943.
Metal strapping employed in reinforcing boxes, crates, bales, etc. Acme Steel Company. 402,908; Aug. 24; Serial No. 455,151; published June 8, 1943.
Pipe fittings, Steel. Gustin-Bacon Manufacturing Company. 402,928; Aug. 24; Serial No. 458,514; published June 1, 1943.
Screws and bolts. Monarch Cap Screw & Manufacturing Company. 402,903; Aug. 24; Serial No. 451,916; published June 1, 1943.

CLASS 14

Wire and galvanized telephone wire, Plain galvanized. Keystone Steel and Wire Company. 176,325; renewed Nov. 20, 1943.
Wire and galvanized telephone wire, Plain galvanized. Keystone Steel & Wire Company. 176,329; renewed Nov. 20, 1943.

CLASS 15

Oil, Compounded. Hercules Powder Company. 172,326; renewed Aug. 28, 1943.
Petroleum grease. Atlantic Refining Company. 169,869; renewed July 3, 1943.

CLASS 16

Colors, varnishes, primers, etc., Japan. Ditzler Color Company. 176,392; renewed Nov. 27, 1943.
Oil, Pine. Hercules Powder Company. 171,395–6; renewed Aug. 7, 1943.
Oil, Pine. Hercules Powder Co. 171,395–99; renewed Aug. 7, 1943.
Oil substitute for paints and varnishes. Newport Industries, Inc. 402,941; Aug. 24; Serial No. 459,128; published June 15, 1943.
Paints, house paints, paint enamels, etc., Ready-mixed. Kolbe Paint Company. 170,632; renewed July 17, 1943.
Polish and cleaner for floors and furniture. United Chemical Company. 402,907; Aug. 24; Serial No. 454,589; published June 15, 1943.
Stains, ready-mixed paints, and semi-paste paints, Wood. J. F. Kurfees Paint Company. 402,933; Aug. 24; Serial No. 458,708; published June 15, 1943.

CLASS 19

Airplanes and structural parts thereof. Vultee Aircraft, Inc. 402,942; Aug. 24; Serial No. 459,181; published June 8, 1943.
Propellers, parts, and attachments therefor, Aircraft. United Aircraft Corporation. 402,917–19; Aug. 24; Serial Nos. 457,817–19; published June 8, 1943.
Shock absorbers and shock absorber parts, Airplane type. Monroe Auto Equipment Company. 402,945; Aug. 24; Serial No. 459,476; published June 15, 1943.

CLASS 21

Arresters, Lightning. Westinghouse Electric & Manufacturing Co. 171,006; renewed July 31, 1943.
Motors, electric motor parts, controllers, etc., Electric. Singer Manufacturing Company. 175,840; renewed Nov. 13, 1943.
Sound-amplifying devices, loud-speaking telephones, etc., Electrical. Magnavox Company. 402,909; Aug. 24; Serial No. 455,707; published June 15, 1943.

CLASS 23

Bits, Cutting tool. Rahway Machine Tool Corporation. 402,968; Aug. 24; Serial No. 459,887; published June 15, 1943.
Bits, Explosive. Irwin Auger Bit Company. 402,893; Aug. 24; Serial No. 434,720; published June 8, 1943.
Boxes, Journal. E. E. Jones. 403,010; Aug. 24.
Controllers adapted for association with boat and ship control systems. Westinghouse Air Brake Company. 402,998; Aug. 24.
Cutlery. Graef & Schmidt, Inc. 402,944; Aug. 24; Serial No. 459,367; published June 8, 1943.
Fire extinguishing units, Mobile. Cardox Corporation. 402,947–8; Aug. 24; Serial Nos. 459,533–4; published June 15, 1943.
Fittings to be attached to apparatus to be lubricated, Lubricant. Lincoln Engineering Company. 402,980; Aug. 24; Serial No. 460,117; published June 15, 1943.
Grease cocks, greasers, stuffing boxes containing lubricant, etc. Uni-Gun Corporation of America; 402,967; Aug. 24; Serial No. 459,853; published June 15, 1943.
Grinding machines and parts thereof. James Donaldson Company. 402,904; Aug. 24; Serial No. 452,418; published June 8, 1943.
Hoe and rake, Combined. W. A. Wurster. 402,960; Aug. 24; Serial No. 459,698; published June 8, 1943.
Lathes with automatic controller, Metal working. Bullard Company. 402,894; Aug. 24; Serial No. 435,563; published Jan. 28, 1941.
Pins, Tapered, grooved metal. Groov-Pin Corporation. 403,015; Aug. 24.
Pressure systems, etc., and parts thereof, Pneumatic. Duro Company. 402,984; Aug. 24; Serial No. 460,140; published June 15, 1943.
Pulley-blocks. J. H. Flynn. 402,916; Aug. 24; Serial No. 457,607; published June 8, 1943.
Razors and shears. Beckher-Otte, Inc. 403,005; Aug. 24.
Rings, Retaining. Waldes Koh-I-Noor, Inc. 402,923; Aug. 24; Serial No. 458,320; published June 15, 1943.
Rollers for printing presses, food-packaging machinery, etc., Snythetic rubber. Reliance Rubber Company. 402,924; Aug. 24; Serial No. 458,407; published June 8, 1943.
Rolling pins, Cookie. L. Gurrieri. 402,921; Aug. 24; Serial No. 458,069; published June 8, 1943.
Saws for cutting metal, etc. Motch & Merryweather Machinery Company. 402,946; Aug. 24; Serial No. 459,479; published June 8, 1943.
Servicing and repair platforms and machinery and tools connected therewith, Aircraft. Wolfe & Mann Manufacturing Company. 402,987; Aug. 24; Serial No. 460,226; published June 15, 1943.
Shovels, Power. Bucyrus-Erie Company. 402,932; Aug. 24; Serial No. 458,677; published June 8, 1943.
Valves, Fluid pressure responsive control. Westinghouse Air Brake Company. 402,997; Aug. 24.
Valves, Poppet. Toledo Steel Products Company. 170,471; renewed July 17, 1943.

CLASS 26

Lenses for goggles and protection glasses. Willson Goggles, Inc. 174,105; renewed Oct. 2, 1943.
Ophthalmic lens blanks. Sussfeld, Lorsch & Schimmel. 170,291; renewed July 10, 1943.
Ophthalmic lenses and blanks. Sussfeld, Lorsch & Schimmel. 170,292; renewed July 10, 1943.

CLASS 27

Watches. Bell Watch Company. 402,935; Aug. 24; Serial No. 458,722; published June 15, 1943.
Watches. Horowitz & Son, Inc. 402,950–1; Aug. 24; Serial Nos. 459,566–7; published June 15, 1943.
Watches, watch-movements, watchcases and parts thereof. Harvel Watch Company. 402,955; Aug. 24; Serial No. 459,660; published June 15, 1943.
Watches, watch-movements, watchcases and parts thereof. Harvel Watch Company. 402,956–8; Aug. 24; Serial Nos. 456,663–5; published June 15, 1943.

CLASS 28

Articles of jewelry. William C. Greene Company. 170,455; renewed July 17, 1943.
Jewelry. B. Selwyn. 402,914; Aug. 24; Serial No. 457,373; published June 15, 1943.
Rings. Grunzweig & Zinner. 402,999; Aug. 24.
Tableware, toiletware, etc., Hollow, solid, and plated. Promotions, Inc. 403,000; Aug. 24.

CLASS 29

Brushes. Pittsburgh Plate Glass Co., Rennous-Kleinle Division. 175,404; renewed Nov. 6, 1943.

CLASS 30

Vases, bowls, flower pots, etc. Haeger Potteries, Incorporated. 402,895; Aug. 24; Serial No. 443,603; published June 15, 1943.

CLASS 32

Furniture, Steel office. Peerless Steel Equipment Company. 402,993; Aug. 24.
Furniture, tops for desks, counters, tables, etc. Gunn Furniture Company. 177,564; renewed Dec. 18, 1943.
Mattresses and box springs. Estee Bedding Company. 402,977; Aug. 24; Serial No. 460,093; published June 15, 1943.

CLASS 34

Blow pipes and handles and bases therefor, Gas. National Welding Equipment Co. 402,892; Aug. 24; Serial No. 433,104; published June 8, 1943.
Cooking stoves, including food fryers, Gas. Golden Brown Appliance Manufacturing Co. 402,896; Aug. 24; Serial No. 443,881; published Sept. 9, 1941.
Regulators, Oil temperature. United Aircraft Products, Inc. 402,910; Aug. 24; Serial No. 455,895; published June 8, 1943.

CLASS 35

Belting. New York Belting and Packing Company. 170,312–3; renewed July 10, 1943.
Hose, Hydraulic and fire. Eureka Fire Hose Company. 236,616–8; re-renewed Sept. 19, 1943.
Tires, Nonmetallic. Badger Rubber Works. 171,731; renewed Aug. 14, 1943.
Tires, Rubber. Fisk Rubber Company. 170,546; renewed July 17, 1943.
Tires, Rubber. Fisk Rubber Company. 171,418; renewed Aug. 7, 1943.
Tires, Vehicle. Fisk Rubber Company. 172,434; renewed Aug. 28, 1943.

CLASS 36

Records, Phonograph. Classic Record Company. 403,016; Aug. 24.

CLASS 37

Envelopes, Transparent protecting. Curtis 1000 Incorporated. 402,963; Aug. 24; Serial No. 459,728; published June 15, 1943.
Folder, Paper. M. M. Rockmore. 402,926; Aug. 24; Serial No. 458,499; published June 15, 1943.
Greeting and message sheets. Miller Art Company, Inc. 402,915; Aug. 24; Serial No. 457,443; published June 15, 1943.
Paper, Bond writing and printing. Collins Mfg. Co. 171,017; renewed July 31, 1943.
Paper for duplicating use. Ditto, Incorporated. 402,961; Aug. 24; Serial No. 459,701; published June 15, 1943.
Registers, Autographic. United Autographic Register Co. 402,927; Aug. 24; Serial No. 458,500; published June 15, 1943.
Sheet material, Coated. Goodyear Tire & Rubber Company. 402,920; Aug. 24; Serial No. 458,011; published June 15, 1943.
Sheeting, Paper. A. G. Verdolyack. 402,953; Aug. 24; Serial No. 459,609; published June 15, 1943.

CLASS 38

Column, Newspaper or magazine feature. O. A. Battista. 403,003; Aug. 24.
House organs, Monthly. Federal Telephone and Radio Corporation. 402,943; Aug. 24; Serial No. 459,301; published June 8, 1943.
Inspection information for automotive equipment. Standard Oil Company. 402,990; Aug. 24.
Periodical. Ahrens Publishing Company. 403,009; Aug. 24.
Publication. G. Wylie Company. 402,930; Aug. 24; Serial No. 458,644; published June 8, 1943.
Publication. Progressive Enterprises, Inc. 402,994; Aug. 24.
Publication, Bi-monthly. L. H. Silberkleit. 402,912; Aug. 24; Serial No. 456,250; published May 11, 1943.
Releases, Printed press. United Press Associations. 402,995; Aug. 24.

CLASS 39

Aprons for icemen. United States Rubber Company. 171,848; renewed Aug. 14, 1943.
Coats. United States Rubber Company. 173,495; renewed Sept. 25, 1943.
Coats, Ladies' and misses'. Philip Shlansky & Bro., Inc. 403,012; Aug. 24.
Coats, suits, jackets, etc., Ladies' and misses'. Clyde Fashions, Ltd. 403,014; Aug. 24.
Corsets. F. P. Hoy, Inc. 172,279; renewed Aug. 28, 1943.
Hosiery, underwear, and shirts. William-Richardson Company, Ltd. 177,008; renewed Dec. 11, 1943.
Nets, Hair. Wm. Filene's Sons Company. 177,739; renewed Dec. 25, 1943.
Suits, tuxedo and full-dress suits, etc., Men's dress. J. David. 173,792; renewed Oct. 2, 1943.
Underwear, Knitted. Mount Airy Knitting Company. 403,013; Aug. 24.
Waists and shirts, Children's. R. & J. Waist Company. 171,718; renewed Aug. 14, 1943.

CLASS 40

Pins. Kirby, Beard & Co., Ltd. 172,450; renewed Aug. 28, 1943.
Pins and hairpins. Kirby, Beard & Co. Ltd. 172,449; renewed Aug. 28, 1943.
Pins, hairpins, and needles. Kirby, Beard & Co., Ltd. 172,448; renewed Aug. 28, 1943.
Pins, hairpins, and needles. Kirby, Beard & Co., Ltd. 172,457; renewed Aug. 28, 1943.

CLASS 42

Cotton cloth and shoe cloth. Peters Brothers Rubber Co. 177,312; renewed Dec. 18, 1943.
Curtains, Made of fabric window. Bartmann & Bixer, Inc. 402,988; Aug. 24.
Drapery with fixtures and attachments therefor, Blackout. R. Feldman. 402,991; Aug. 24.
Dress goods, Woolen. Botany Worsted Mills. 23,936; re-renewed Dec. 19, 1943.
Fabrics in the piece. Mandee Fabrics, Inc. 403,011; Aug. 24.
Piece goods, Cotton. Pacific Mills. 173,360; renewed Sept. 25, 1943.
Piece goods, Cotton and cotton and silk mixture. Cohn-Hall-Marx Co. 175,098; renewed Oct. 30, 1943.
Piece goods, tablecloths, napkins, etc. Promotions, Inc. 403,001; Aug. 24.
Sheetings and shirtings. Pacific Mills. 171,448; renewed Aug. 7, 1943.
Tweed piece goods. Watertown Woolen Co. 403,007; Aug. 24.

CLASS 44

Files, Nail. Graef & Schmidt, Inc. 403,008; Aug. 24.

CLASS 45

Ginger ale, sarsaparilla, and root beer. J. Friedrich. 177,685; renewed Dec. 25, 1943.

CLASS 46

Bread. Ward Baking Company. 177,610–11; renewed Dec. 25, 1943.
Butter. Nickel and Drummey. 177,328; renewed Dec. 18, 1943.
Candy. Fair Play Caramels, Inc. 402,985; Aug. 24; Serial No. 460,142; published June 15, 1943.
Canned fruits and vegetables. Filice & Perrelli Canning Co. 170,401; renewed July 17, 1943.
Canned fruits, vegetables, spices, extracts, etc. Jett & Wood Mercantile Co. 177,458; renewed Dec. 18, 1943.
Cereal breakfast food, Grain. T. T. Priestley. 402,966; Aug. 24; Serial No. 459,849; published June 15, 1943.
Cheese. C. A. Straubel Co. 172,642; renewed Sept. 11, 1943.
Cookies. Bishop & Company. 177,622; renewed Dec. 25, 1943.
Cookies and small cakes. National Biscuit Company. 177,623; renewed Dec. 25, 1943.
Cranberries and strained cranberry sauce, Fresh. Grayland Cranberry Growers Association, Inc. 402,897; Aug. 24; Serial No. 447,589; published June 15, 1943.
Dog ration. Kasco Mills, Inc. 402,976; Aug. 24; Serial No. 460,000; published June 15, 1943.
Feed for poultry. Dailey Mills, Inc. 403,006; Aug. 24.
Feed, hog feed, horse and mule feed, Scratch. J. M. Wilson. 171,754; renewed Aug. 14, 1943.
Feed, ox feed, hog feed, etc., Horse or mule. J. M. Wilson. 173,492; renewed Sept. 25, 1943.
Feeds, Stock. Ultra-Life Laboratories, Inc. 402,901; Aug. 24; Serial No. 451,329; published June 15, 1943.
Flour, Wheat. Minneapolis Milling Co. 176,735; renewed Nov. 27, 1943.
Flour, Wheat. Commander Mill Co. 177,216; renewed Dec. 11, 1943.
Flour, Wheat. S. Drillman. 402,936; Aug. 24; Serial No. 458,802; published June 15, 1943.
Flour, Wheat. Minneapolis Milling Co. 177,220; renewed Dec. 11, 1943.
Flour, Wheat. Stoddard Mill & Grain Company. 177,734; renewed Dec. 25, 1943.

Food, Dog. Doughboy Mills, Inc. 402,940; Aug. 24; Serial No. 459,071; published June 15, 1943.
Fruits, dried vegetables, canned vegetables, etc., Dried. Riverbank Canning Company. 402,906; Aug. 24; Serial No. 454,543; published June 8, 1943.
Fruits, Fresh citrous. Lee County Packing Company. 176,253; renewed Nov. 20, 1943.
Fruits, Fresh citrous. San Dimas Lemon Association. 177,769–71; renewed Dec. 25, 1943.
Fruits, Fresh citrus. Webb Packing Co., Inc. 403,004; Aug. 24.
Grapes, Fresh. E. Barbers. 402,934; Aug. 24; Serial No. 458,720; published June 15, 1943.
Malt syrups. Red Top Malt Extract Co. 176,113; renewed Nov. 20, 1943.
Nut meats. Princess Pecans, Inc. 402,989; Aug. 24.
Oil, Olive. R. Martorelli. 170,703; renewed July 24, 1943.
Pears, Fresh. Day & Young. 402,938; Aug. 24; Serial No. 458,959; published June 15, 1943.
Salt, Table. International Salt Company. 177,354; renewed Dec. 18, 1943.
Salt, Table. International Salt Company. 177,361; renewed Dec. 18, 1943.
Soup mix. Century Metalcraft Corporation. 402,996; Aug. 24.
Vegetables and melons, Fresh. Warner & Stewart. 402,970–1; Aug. 24; Serial Nos. 459,891–2; published June 15, 1943.
Vinegars. Duffy-Mott Company. 177,025; renewed Dec. 11, 1943.
Vitamin food supplement and a universal food supplement. Nutrilite Products, Inc. 402,891; Aug. 24; Serial No. 425,485; published Jan. 21, 1941.
Yerba Mate. Sociedad Auxiliar Fabril, Agricola & Comercial S. A. 402,931; Aug. 24; Serial No. 458,664; published May 25, 1943.

CLASS 50

Hose, Flexible rod, tape, and tubular. Pierce Plastics, Inc. 402,911; Aug. 24; Serial No. 456,105; published June 15, 1943.
Lithographic plate. Davidson Manufacturing Corporation. 402,964; Aug. 24; Serial No. 459,729; published June 15, 1943.
Zinc plate used in lithography. Davidson Manufacturing Corporation. 402,965; Aug. 24; Serial No. 459,735; published June 15, 1943.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 24TH DAY OF AUGUST, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Babson Bros. Co. (See Babson, H. B., and Stampen, assignors.)
Babson, Henry B., Chicago, and J. J. Stampen, Hollywood, assignors to Babson Bros. Co., Chicago, Ill. Support for milking machines. Re. 22,368; Aug. 24.
Stampen, Jacob J. (See Babson, H. B., and Stampen.)

LIST OF PLANT PATENTEES

Conard-Pyle Company, The. (See Mallerin, Charles, assignor.)
Kellogg, R. M., Company, The. (See Mosnat, Hugo R., assignor.)
Mallerin, Charles, Varces, France, assignor to The Conard-Pyle Company, West Grove, Pa. Rose plant. 599; Aug. 24.
Mosnat, Hugo R., Belle Plaine, Iowa, assignor to The R. M. Kellogg Company, Three Rivers, Mich. Chrysanthemum plant. 598; Aug. 24.

LIST OF DESIGN PATENTEES

Aaronson, Hyman S., Meriden, Conn. Book mark or similar article. 136,213; Aug. 24.
Accardi, Jules V., and G. E. Watts, El Cerrito, Calif. Merchandise cart. 136,218; Aug. 24.
Allen, Paul E., Skokie, Ill. Teether. 136,206; Aug. 24.
Alsdorf, James W., Winnetka, assignor to Cory Glass Coffee Brewer Co., not Inc., Chicago, Ill. Upper bowl for a coffee brewer. 136,200; Aug. 24.
Black, Donald H., Salem, Oreg. Acetylene torch. 136,207; Aug. 24.
Breeden, Robert M., Millville, N. J. Bottle. 136,219; Aug. 24.
Brodsky, Charles, Brooklyn, N. Y. Poultry watering drip fountain. 136,201; Aug. 24.
Burnelli, Vincent J., Keyport, N. J. Airplane. 136,249; Aug. 24.
Century-Oxford Manufacturing Corporation. (See Levy, Arthur M., assignor.)
Collopy, Carl J. (See Collopy, Ernest C. and C. J.)
Collopy, Ernest C. and C. J., New Bedford, Mass. Combined pencil, sandglass timer, and telephone dialer. 136,214; Aug. 24.
Cory Glass Coffee Brewer Co., not Inc. (See Alsdorf, James W., assignor.)
Felver, Richard I., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Combination toast server and toaster cover. 136,202; Aug. 24.
Gemmill, Robert S., New York, N. Y. Hook or similar article. 136,228; Aug. 24.
Ghez, Henry and O., New York, N. Y. V-shaped tread member for shoes. 136,208; Aug. 24.
Ghez, Oscar. (See Ghez, Henry and O.)
Goodie, Joseph B., Towson, Md. Automobile ornament. 136,220; Aug. 24.
Handler, Elliot, Los Angeles, Calif. Ceramic brooch pin. 136,221; Aug. 24.
Handler, Elliot, Los Angeles, Calif. Ceramic brooch pin. 136,222; Aug. 24.
Handler, Elliot, Los Angeles, Calif. Ceramic brooch pin. 136,223; Aug. 24.
Hector, Ernest A., Jamestown, N. Y. Bottle. 136,224; Aug. 24.
Holton, Harry I., Chicago, Ill. Soap dish. 136,209; Aug. 24.
Kaub, Ottmar, St. Louis, Mo. Moistener. 136,215; Aug. 24.
Lake, William W. (See Wade, John L., assignor.)
Lebow, Victor, assignor to C. H. Roth Co., Inc., New York, N. Y. Hosiery band or the like. 136,216; Aug. 24.
Levy, Arthur M., New York, assignor to Century-Oxford Manufacturing Corporation, Long Island City, N. Y. Eyeless frame. 136,203; Aug. 24.
Lish, Samuel, Woodmere, N. Y. Hat. 136,225; Aug. 24.
Lyons, William, Lynbrook, assignor to William Lyons Novelty Co. Inc., New York, N. Y. Mirror headed curtain tieback. 136,217; Aug. 24.
Lyons, William, Novelty Co. Inc. (See Lyons, William, assignor.)
McCoy, Marion, St. Louis, Mo. Dress. 136,239; Aug. 24.
McCoy, Marion, St. Louis, Mo. Dress. 136,240; Aug. 24.
McCoy, Marion, St. Louis, Mo. Dress. 136,243; Aug. 24.
McCoy, Marion, St. Louis, Mo. Dress. 136,244; Aug. 24.
McCoy, Marion, St. Louis, Mo. Dress. 136,245; Aug. 24.
Minneapolis-Honeywell Regulator Company. (See Thoresen, George A., assignor.)
Moye, Barbara, New York, N. Y. Jacket. 136,241; Aug. 24.
Moye, Barbara, New York, N. Y. Jacket. 136,242; Aug. 24.
National Pressure Cooker Company. (See Wittenberg, Edward H., assignor.)
Roth, Chester H., Co. (See Lebow, Victor, assignor.)
Sadowsky, David R., New York, N. Y. Dress. 136,246; Aug. 24.
Swanson, Ray. (See Wade, John L., assignor.)
Thoresen, George A., Providence, R. I., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Badge or similar article. 136,210; Aug. 24.
Tobler, Hans, Teaneck, N. J. Embroidered trimming or similar article. 136,211; Aug. 24.
Urdang, Maurice, New York, N. Y. Necktie. 136,229; Aug. 24.
Urdang, Maurice, New York, N. Y. Necktie. 136,230; Aug. 24.
Urdang, Maurice, New York, N. Y. Necktie. 136,231; Aug. 24.
Urdang, Maurice, New York, N. Y. Necktie. 136,232; Aug. 24.
Urdang, Maurice, New York, N. Y. Necktie. 136,233; Aug. 24.
Urdang, Maurice, New York, N. Y. Necktie. 136,234; Aug. 24.
Urdang, Maurice, New York, N. Y. Necktie. 136,235; Aug. 24.
Urdang, Maurice, New York, N. Y. Necktie. 136,236; Aug. 24.
Urdang, Maurice, New York, N. Y. Necktie. 136,237; Aug. 24.
Urdang, Maurice, New York, N. Y. Necktie. 136,238; Aug. 24.
Van Delden, Lubbert H., Pella, Iowa. Optical comparator. 136,212; Aug. 24.
Wade, John L., assignor of one-third to R. Swanson, Los Angeles, and one-third to W. W. Lake, Pasadena, Calif. Butter mold or similar article. 136,204; Aug. 24.
Watts, Garland E. (See Accardi, J. V., and Watts.)
Westheim, David, New York, N. Y. Dress. 136,247; Aug. 24.
Westinghouse Electric & Manufacturing Company. (See Felver, Richard I., assignor.)
Wittenberg, Edward H., assignor to National Pressure Cooker Company, Eau Claire, Wis. Pressure gauge. 136,205; Aug. 24.
Wright, Wallace C., Brookfield, N. H. Sewing rib for attachment to insoles. 136,226; Aug. 24.
Wright, Wallace C., Broookfield, N. H. Insole. 136,227; Aug. 24.
Zahn, Samuel, New York, N. Y. Dress. 136,248; Aug. 24.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 24TH DAY OF AUGUST, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abbott, Henry H., Yonkers, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 2,327,481; Aug. 24.

Abernathy, David W., assignor to Products Development, Inc., Chicago, Ill. Gaseous electric discharge device. 2,327,755; Aug. 24.

Abington Textile Machinery Works. (See Goldsmith, William H., Jr., assignor.)

Abramson, John H., and E. C. Swanson, assignors to Greenlee Bros. & Co., Rockford, Ill. Ground rod pusher. 2,327,616; Aug. 24.

Ackerman, Harold S., assignor to Hubbard and Company, Pittsburgh, Pa. Control apparatus. 2,327,690; Aug. 24.

Acme Visible Records, Inc. (See Hopkins, Harry J., assignor.)

Acton, Russel D. (See Johnson, A. E. W., and Acton.)

Adamson, Seth, Rye, assignor to United States Rubber Company, New York, N. Y. Electrically conductive fabric. 2,327,756; Aug. 24.

Agee, Sidney A., Fort Worth, Tex. Awning structure. 2,327,614; Aug. 24.

Aitchison, Robert B., Grasmere, C. W. Swartout, and V. C. Williams, Kenmore, N. Y., assignors to The Linde Air Products Company. Mineral cutting and piercing. 2,327,482; Aug. 24.

Aitchison, Robert B., Grasmere, Staten Island, and C. J. Burch, Kenmore, N. Y., assignors to The Linde Air Products Company. Apparatus for rock piercing and similar operations. 2,327,483; Aug. 24.

Aktiebolaget Svenska Kullagerfabriken. (See Fernstrom, Gustav W., assignor.)

Aktiengesellschaft Brown, Boveri & Cie. (See Zschokke, Hans, assignor.)

Aktiengesellschaft Oederlin & Co. (See Schütz, Edwin, assignor.)

Alien Property Custodian. (See Bestian, H., and Schürmann.)

Alien Property Custodian. (See Bresson, Charles.)

Alien Property Custodian. (See de Lange, C., and Boucher, assignors.)

Alien Property Custodian. (See Fink, H., and Plepp.)

Alien Property Custodian. (See Goldmann, Joachim.)

Alien Property Custodian. (See Zaucker, Ewald.)

Alford, Andrew, assignor to Mackay Radio and Telegraph Company, New York, N. Y. Broad band antenna. 2,327,485; Aug. 24.

Allardice, Thomas B., Mountain Lakes, N. J. Dust collector. 2,327,691; Aug. 24.

Alvord, Charles C., assignor to Norton Company, Worcester, Mass. Grinding machine-carriage reciprocating mechanism. 2,327,486; Aug. 24.

American Cyanamid Company. (See Niedercorn, J. G., and Dawson, assignors.)

American Cyanamid Company. (See Ripper, Kurt E., assignor.)

American Legion Amador Post #108, Inc. (See Tavaris, Joseph G., assignor.)

American Locomotive Company. (See Barraja-Frauenfelder, J., and Schrom, assignors.)

American Smelting and Refining Company. (See Smith, A. A., Jr., and Smart, assignors.)

American Steel Foundries. (See Baselt, Walter H., assignor.)

American Stove Company. (See Brodbeck, Almer H., assignor.)

American Stove Company. (See Lotter, William, assignor.)

American Telephone and Telegraph Company. (See Relfe, John N., assignor.)

American Telephone and Telegraph Company. (See Walker, Charles R., assignor.)

Anderson, John. (See Ross, W. E., and Anderson.)

Ankarlo, Victor E., Hammond, Ind. Gas main stopper. 2,327,615; Aug. 24.

Annesley, Griffith, London, England. Gyratory crusher. 2,327,384; Aug. 24.

Antes, Leland L., Houston, Tex., assignor to Standard Oil Development Company. Gravity meter. 2,327,692; Aug. 24.

Arey, Fred C. (See Hibner, D. E., and Arey.)

Armentrout, Arthur L., Los Angeles, Calif. Apparatus useful in directional well drilling. 2,327,693; Aug. 24.

Armington, Stewart F., Willoughby, assignor to The Euclid Road Machinery Company, Euclid, Ohio. Combined dirt spreader and bumper. 2,327,385; Aug. 24.

Ashby, Donald, London, England, assignor, by mesne assignments, to The Union Switch & Signal Company, Swissvale, Pa. Apparatus for electrodeposition. 2,327,386; Aug. 24.

Ashcroft, Donald G., Saltcoats, Scotland, assignor to Imperial Chemical Industries Limited. Apparatus for grading electrical resistances and articles comprising them. 2,327,484; Aug. 24.

Ashworth, Fred, Wenham, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Shoe sewing machine. 2,327,387; Aug. 24.

Associated Patentees, Inc. (See Koch, Frederick, assignor.)

Atlee, Zed J., Elmhurst, assignor to General Electric X-Ray Corporation, Chicago, Ill. X-ray tube. 2,327,586; Aug. 24.

Attwood, Charles W., Wayne, Mich. Bar-stock rack. 2,327,587; Aug. 24.

Auerbach, Zemach, New York, N. Y. Safety razor and magazine. 2,327,388; Aug. 24.

Autogiro Company of America. (See Pullin, Cyril G., assignor.)

Autoyre Company, Inc., The. (See Sanford, Roy S., assignor.)

B-L Electric Company. (See Peters, Carl E., assignor.)

Bach, Henry M., Lawrence, assignor to Premier Crystal Laboratories, Inc., New York, N. Y. Piezoelectric device. 2,327,487; Aug. 24.

Bagnall, Edwin, Chicago, Ill. Clutch element. 2,327,389; Aug. 24.

Bagsar, Aaron B., Lansdowne, assignor to Sun Oil Company, Philadelphia, Pa. Apparatus for treating hydrocarbon oils. 2,327,490; Aug. 24.

Baker, Corwin W., Stoneham, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Machine for shaping uppers over lasts. 2,327,392; Aug. 24.

Baker, David B., Riverside, and W. O. Bechman, Chicago, Ill., assignors to International Harvester Company. Vehicle. 2,327,850; Aug. 24.

Baker, Edward E., Larchmont, assignor to Continental Can Company, Inc., New York, N. Y. Powder can. 2,327,391; Aug. 24.

Balder, John R. (See Hodgson, J. H., Balder, and James.)

Ball, Albert P., assignor to Briggs Manufacturing Company, Detroit, Mich. Hinge device for ventilating windows. 2,327,390; Aug. 24.

Balmar Corporation, The. (See Forker, Major T., Jr., assignor.)

Bank of Montclair, et al., executor. (See Ellis, C.)

Bannon, Lewis A. (See Frolich, P. K., and Bannon.)

Barber-Colman Company. (See Lilja, Edgar D., assignor.)

Bard, Francis N. (See Brown, J. H., and Jagiel, assignors.)

Barna, Joseph W., assignor of forty-nine one-hundredths to C. A. Laystrom, thirty-two one-hundredths to M. T. Barna, five one-hundredths to C. A. Laystrom, and fourteen one-hundredths to V. E. Hoffman, Chicago, Ill. Lasting machine. 2,327,758; Aug. 24.

Barna, Mary T., et al. (See Barna, Joseph W., assignor.)

Barraja-Frauenfelder, Joseph, Upper Montclair, and O. G. Schrom, Montclair, N. J., assignors to American Locomotive Company, New York, N. Y. Cylinder for opposed-piston internal combustion engines. 2,327,694; Aug. 24.

Barrett, Harold G., assignor to Thermek Corporation, Chicago, Ill. Raising spines. 2,327,757; Aug. 24.

Barrows, Donald S., and E. H. Blattner, assignors to Symington-Gould Corporation, Rochester, N. Y. Side bearing. 2,327,954; Aug. 24.

Barth, Elmer J. (See Peterson, C. D., and Barth.)

Bascom, Henry M., New York, and F. R. Lamberty, Brooklyn, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Private branch exchange system. 2,327,851; Aug. 24.

Baselt, Walter H., assignor to American Steel Foundries, Chicago, Ill. Car truck. 2,327,955; Aug. 24.

Bassist, Ellis. (See Toland, W. C., and Bassist.)

Batchelder, James W., Waterbury, Conn. Drive connection. 2,327,852; Aug. 24.

Bechman, William O. (See Baker, D. B., and Bechman.)

Becker, Abraham, S. and V. I., Los Angeles, Calif. Brassière. 2,327,488; Aug. 24.

Becker, Sam B., assignor to Standard Oil Company, Chicago, Ill. Catalytic process. 2,327,489; Aug. 24.

Becker, Victor I. (See Becker, Abraham, S. and V. I.)

Beeke, Henry F., and S. A. Young, assignors to Globe Valve Corporation, Delphi, Ind. Universally adaptable combination overflow and remote control drain. 2,327,393; Aug. 24.

Begun, Semi J., Cleveland, Ohio. Magnetic recording and reproducing. 2,327,956; Aug. 24.

Bell Telephone Laboratories, Incorporated. (See Abbott, Henry H., assignor.)

Bell Telephone Laboratories, Incorporated. (See Bascom, H. M., and Lamberty, assignors.)

Bell Telephone Laboratories, Incorporated. (See Budenbom, Horace T., assignor.)

Bell Telephone Laboratories, Incorporated. (See Erwin, Edson L., assignor.)

Bell Telephone Laboratories, Incorporated. (See Goff, Harold W., assignor.)

Bell Telephone Laboratories, Incorporated. (See Holden, William H. T., assignor.)

Bell Telephone Laboratories, Incorporated. (See Hopper, Andrew L., assignor.)

Bell Telephone Laboratories, Incorporated. (See Hubbard, Francis A., assignor.)

Bell Telephone Laboratories, Incorporated. (See Ingerson, William E., assignor.)

Bell Telephone Laboratories, Incorporated. (See Koechling, Charles D., assignor.)

Bell Telephone Laboratories, Incorporated. (See Mallina, Rudolph F., assignor.)

Bell Telephone Laboratories, Incorporated. (See Peek, Robert L., Jr., assignor.)

Bell Telephone Laboratories, Incorporated. (See Scott, Lyle J., assignor.)

Bell Telephone Laboratories, Incorporated. (See Stover, Herbert F., assignor.)

Bell Telephone Laboratories, Incorporated. (See Sutton, Stanford M., assignor.)

Bell Telephone Laboratories, Incorporated. (See Watson, Edward F., assignor.)

Bendix Aviation Corporation. (See Bevins, James E., assignor.)

Bendix Aviation Corporation. (See Christian, Frank T., assignor.)

Bendix Aviation Corporation. (See Jandasek, Joseph, assignor.)

Benjamin, Bert R., Oak Park, Ill., assignor to International Harvester Company. Power lift mechanism for tractors. 2,327,853; Aug. 24.

Bennett, Claude C., South Bend, Ind., assignor to A. E. Feragen, Inc., Seattle, Wash. Brake testing apparatus. 2,327,617; Aug. 24.

Bennett, Herald F., assignor to Eastman Kodak Company, Rochester, N. Y. Telephoto objective. 2,327,759; Aug. 24.

Bennett, Willard H., assignor, by mesne assignments, to Games Slayter, Newark, Ohio. Apparatus for conversion of energy. 2,327,588; Aug. 24.

Beregh, Theodore J., Patchogue, N. Y. Static eliminator in printing. 2,327,695; Aug. 24.

Berggren, Per J., New York, N. Y. Crayon. 2,327,854; Aug. 24.

Bernhardt, Rudolph, Chicago, Ill. Server or dispenser. 2,327,618; Aug. 24.

Besocke, Richard, assignor of eighty per cent to John P. Frank, Arcadia, Calif. Gas stove burner control mechanism. 2,327,589; Aug. 24.

Bestian Herbert, Frankfort-on-the-Main-Hochst, and Max Otto Schürmann, Dormagen, Germany; vested in the Alien Property Custodian. Fibrous materials. 2,327,760; Aug. 24.

Bevins, James E., Wood-Ridge, assignor to Bendix Aviation Corporation, Bendix, N. J. Rate of climb indicator. 2,327,394; Aug. 24.

Birdseye, Clarence, Gloucester, Mass., and Pincus Deren, Milwaukee, Wis., assignors to Birdseye Electric Corporation, Gloucester, Mass. Making reflecting electric lamps. 2,327,978; Aug. 24.

Birdseye Electric Corporation. (See Birdseye, C., and Deren.)

Bishop, Gordon N., Vancouver, British Columbia, Canada. Safety lamp. 2,327,696; Aug. 24.

Bitler, William P., Haverstraw, and L. Nicholl, Nyack, assignors to Kay-Fries Chemicals, Inc., West Haverstraw, N. Y. Preparation of 2,3 dichlordioxane. 2,327,855; Aug. 24.

Blair, Emile. (See Blais, Emilien.)

Blais, Emilien, commonly known as E. Blair, assignor to Western Cartridge Company, New Haven, Conn. Sectional heat exchanger. 2,327,491; Aug. 24.

Blattner, Emil H. (See Barrows, D. S., and Blattner.)

Blosser, Herman G., Pittsburgh, and R. M. Laurenson, Rosedale Heights, assignors to The Union Switch & Signal Company, Swissvale, Pa. Electromagnetic device. 2,327,395; Aug. 24.

Boardman, Raymond, assignor to The Hart Manufacturing Company, Hartford, Conn. Light bulb. 2,327,396; Aug. 24.

Boerner, Lewis W., Newton Square, and F. J. Hogenmiller, Ardmore, assignors to National Foam System, Inc., Philadelphia, Pa. Pressure proportioner. 2,327,335; Aug. 24.

Bohn Aluminum & Brass Corporation. (See Fiegel, William J., assignor.)

Bolesky, John D., assignor to Metals & Controls Corporation, Attleboro, Mass. Control device. 2,327,336; Aug. 24.

Boling, Guy C., et al. (See Mehl, Fred J., assignor.)

Bolsey, Jacques, New York, N. Y. Film splicer. 2,327,856; Aug. 24.

Bolsey, Jacques, New York, N. Y. Film threading system. 2,327,857; Aug. 24.

Bolsey, Jacques, New York, N. Y. Exposuremeter. 2,327,858; Aug. 24.

Bolsey, Jacques, New York, N. Y. Combined view-finding and focusing device. 2,327,859; Aug. 24.

Bolsey, Jacques, New York, N. Y. Film scraping device. 2,327,860; Aug. 24.

Bolsey, Jacques, New York, N. Y. Film splicing device. 2,327,861; Aug. 24.

Borglin, Joseph N., assignor to Hercules Powder Company, Wilmington, Del. Phonograph record. 2,327,862; Aug. 24.

Boucher, Charles L. (See de Lange, C., and Boucher.)

Boucher, Frank G., Tulsa, Okla., assignor to Standard Oil Development Company. Gravity meter. 2,327,697; Aug. 24.

Bouligny, Ralph H. (See Rowe, Oliver R., assignor.)

Boyard, Floyd G., Akron, assignor to The Ohio Brass Company, Mansfield, Ohio. Cutting-off machine. 2,327,863; Aug. 24.

Bower, Ebon D., Bellefonte, Pa. Digging machine for root crops. 2,327,590; Aug. 24.

Brandt, Joseph & Bro. Inc. (See Brandt, Louis, assignor.)

Brandt, Louis, assignor to Joseph Brandt & Bro. Inc., New York, N. Y. Apparatus for producing threaded spangles. 2,327,957; Aug. 24.

Braun, Philip N., assignor to The Prosperity Company, Inc., Syracuse, N. Y. Machine for pressing sleeved articles in one lay. 2,327,492; Aug. 24.

Bresson, Charles, Lyon, France; vested in the Alien Property Custodian. Electric circuit breaker. 2,327,493; Aug. 24.

Briggs Manufacturing Company. (See Ball, Albert P., assignor.)

Briggs Manufacturing Company. (See Jjaarda, John, assignor.)

Briggs Manufacturing Company. (See Maize, Paul F., assignor.)

Briggs Manufacturing Company. (See Marshall, William, assignor.)

Brodbeck, Almer H., assignor to American Stove Company, St. Louis, Mo. Range. 2,327,761; Aug. 24.

Broderick, Aubrey E., South Charleston, W. Va., assignor to Carbide and Carbon Chemicals Corporation. Making esters of hydroxyalkyl celluloses and product produced thereby. 2,327,397; Aug. 24.

Brogard, John R., St. Joseph, Mo., and F. B. De Blieck, East Moline, Ill., assignors to International Harvester Company. Harvester. 2,327,864; Aug. 24.

Brooke, Lloyd F. (See Oakley, E. H., and Brooke.)

Brooks, E. J., Company. (See Hothersall, John M., assignor.)

Bromley, Thomas C., and A. Shortland, assignors to Mellor Bromley & Co. Limited, Leicester, England. Circular knitting machine of the links and links type. 2,327,398; Aug. 24.

Brown, Carl D., assignor to Draper Corporation, Hopedale, Mass. Loom shuttle. 2,327,840; Aug. 24.

Brown, Harold J., Indianapolis, Ind. Parallel operation of interrupting means. 2,327,575; Aug. 24.

Brown, Harold J., Indianapolis, Ind. Balanced interrupter circuit. 2,327,576; Aug. 24.

Brown, Harold J., Indianapolis, Ind. Balanced interrupter system. 2,327,577; Aug. 24.

Brown, Harold J., Indianapolis, Ind. Parallel operation of regulator interrupters. 2,327,578; Aug. 24.

Brown, Harold J., assignor to Electronic Laboratories, Incorporated, Indianapolis, Ind. Interrupter system. 2,327,579; Aug. 24.

Brown, Joseph H., and J. F. Jagiel, Chicago, assignors to Francis N. Bard, Highland Park, Ill. Rock drill. 2,327,619; Aug. 24.

Brown, Kenneth R., Des Moines, Iowa. M. C. Cooley, University City, and H. H. Wefeler, Webster Groves, assignors to W. N. Matthews Corporation, St. Louis, Mo. Electrical protective device. 2,327,865; Aug. 24.

Brown-Rogers-Dixon Co. (See Flynt, Robert C., assignor.)

Brown, Roy E., Sterling, Ill. Loader. 2,327,494; Aug. 24.

Brueck, Theodore M., assignor to Ilex Optical Company, Rochester, N. Y. Photographic shutter operating mechanism. 2,327,591; Aug. 24.

Buckeye Forging Company, The. (See Meek, John B., assignor.)

Budd, Edward G., Manufacturing Company. (See Ulrich, Theodore, assignor.)

Budenbom, Horace T., Short Hills, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Modulator. 2,327,866; Aug. 24.

Budner, Anton E., Racine, Wis. Removing wax from floors. 2,327,495; Aug. 24.

Bull, Arthur W., Grosse Pointe, assignor to United States Rubber Company, New York, N. Y. Forming dies and the like. 2,327,762; Aug. 24.

Burch, Charles J. (See Aitchison, R. B., and Burch.)

Burch, Charles J., and W. G. Edwards, Kenmore, N. Y., assignors to The Linde Air Products Company. Dispenser for comminuted solids. 2,327,337; Aug. 24.

Burch, Charles J., Kenmore, N. Y., assignor to The Linde Air Products Company. Method of and apparatus for working mineral materials and the like. 2,327,496; Aug. 24.

Burch, Charles J., and G. H. Smith, Kenmore, N. Y., assignors to The Linde Air Products Company. Apparatus for working mineral materials and the like. 2,327,497; Aug. 24.

Burch, Charles J., Kenmore, N. Y., assignor to The Linde Air Products Company. Blowtorch. 2,327,498; Aug. 24.

Burch, Charles J., Kenmore, N. Y., assignor to The Linde Air Products Company. Process of and apparatus for working mineral materials and the like. 2,327,499; Aug. 24.

Burdge, Clyde W. (See Ferrone, M. J., and Burdge.)

Burlington Mills, Ins. (See Walsh, William J., assignor.)

Burrows, Lawton A., and M. A. Cook, Woodbury, and R. M. Girdler, Sewell, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Firing explosive rivets. 2,327,763; Aug. 24.

Calhoun, Gordon M., Bridgeport, Conn., assignor to Remington Arms Company, Inc. Ammunition. 2,327,867; Aug. 24.

Calhoun, James J., Waynesboro, Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Artificial silk dry spinning apparatus. 2,327,399; Aug. 24.

Cameron Machine Company. (See Stocker, William M., assignor.)

Campbell, Walter E., Tarentum, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Treatment of glass surfaces. 2,327,868; Aug. 24.

Canepa, Angel. (See Canepa, L., and A.)

Canepa, Luis, and A. Canepa, Santiago, Chile. Traffic controlling semaphore. 2,327,400; Aug. 24.

Carbide and Carbon Chemicals Corporation. (See Broderick, Aubrey E., assignor.)

Carbide and Carbon Chemicals Corporation. (See Rugeley, Edward W., assignor.)

Carey, Charles A., Arlington, assignor to Dewey and Almy Chemical Company, North Cambridge, Mass. Fluxing composition. 2,327,958; Aug. 24.

Carlson, Dean W., Vallejo, Calif. Roof and its support. 2,327,869; Aug. 24.

Carney, Henry R., Oneida, N. Y. Storm-window weather sealing and closure device. 2,327,580; Aug. 24.

Carroll, Burt H., assignor to Eastman Kodak Company, Rochester, N. Y. Ultraviolet filter. 2,327,764; Aug. 24.

Carswell, Thomas S., Longmeadow, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Insect control. 2,327,338; Aug. 24.

Carver, Emmett K., assignor to Eastman Kodak Company, Rochester, N. Y. Manufacture of vinyl resin film and sheeting. 2,327,765; Aug. 24.

Cavalier Corporation. (See Frazier, Robert T., assignor.)

Cawley, John D., assignor to Distillation Products, Inc., Rochester, N. Y. Preparation of vitamin E in concentrated form. 2,327,766; Aug. 24.

Celanese Corporation of America. (See House, K. R., and Olpin, assignors.)

Celanese Corporation of America. (See Olive, Charles E., assignor.)

Central Commercial Company. (See Koehl, James A., assignor.)

Century Motors Corporation. (See Toubhans, Rene H., assignor.)

Cerow, Joseph A., Jr., Suffield, Conn., assignor to The Chapman Valve Manufacturing Co., Indian Orchard, Mass. Valve operating means. 2,327,959; Aug. 24.

Chace, Thomas B., Winnetka, assignor to The Dole Valve Company, Chicago, Ill. Making bimetal thermostatic elements. 2,327,500; Aug. 24.

Chadeloid Chemical Company. (See Ellis, C., assignor.)

Chambers, Francis S., Jr., Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Salt composition. 2,327,767; Aug. 24.

Chandler, Edward F., Brooklyn, N. Y. Heating system. 2,327,339; Aug. 24.

Chaney, Newcomb K., Moylan, Pa., assignor to The United Gas Improvement Company. Production of valuable hydrocarbons. 2,327,842; Aug. 24.

Chapman, Ernest. (See Davidson, A., Chapman, McQueen and Payman.)

Chapman, Thomas S., Houston, Tex., assignor to Standard Oil Development Company. Drilling fluid. 2,327,501; Aug. 24.

Chapman Valve Manufacturing Co., The. (See Cerow, Joseph A., Jr., assignor.)

Charles, Ulysses G., et al. (See Mehl, Fred J., assignor.)

Chavin, Bernard. (See Krupp, Louis, assignor.)

Chavin and Krupp. (See Krupp, Louis, assignor.)

Chilton, William D., Royal Oak, assignor to General Motors Corporation, Detroit, Mich. Clinch nut press. 2,327,401; Aug. 24.

Chisholm, Allen E., Portland, Oreg. Carburetor. 2,327,592; Aug. 24.

Christian, Frank T., Elmira, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Engine starter gearing. 2,327,960; Aug. 24.

Clark, Stuart B. (See Kieckhefer, H. M., and Clark.)

Clark, Walter G., assignor to Clarkiron, Inc., Los Angeles, Calif. Grinding mill. 2,327,402; Aug. 24.

Clarke, Gerard J. (See Lowe, W. G., and Clarke.)

Clarkiron, Inc. (See Clark, Walter G., assignor.)

Clayton, Andrew B., Union, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Thread guide for sewing machines. 2,327,768; Aug. 24.

Clayton, Benjamin, Houston, Tex., assignor to Refining, Inc., Reno, Nev. Making soap. 2,327,502; Aug. 24.

Claytor, Edward M., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Generator overdrive. 2,327,769; Aug. 24.

Coberly, Clarence J., Los Angeles, Calif., assignor to Roko Corporation, Reno, Nev. Well pump construction. 2,327,503; Aug. 24.

Cohen, Charles A., Elizabeth, N. J., assignor to Standard Oil Development Company. Refining hydrocarbon oils. 2,327,504; Aug. 24.

Cole, Charles E., Portland, Oreg. Ear protector. 2,327,620; Aug. 24.

Coley, Silas B. (See Reavis, Charles N., assignor.)

Collins Radio Company. (See Wirkler, Walter H., assignor.)

Colorgraphic Incorporated. (See Klopfenstein, Jesse D., assignor.)

Colt's Patent Fire Arms Mfg. Co. (See Moore, Frederick T., assignor.)

Commercial Solvents Corporation. (See Hodge, Edward B., assignor.)

Commercial Solvents Corporation. (See Morey, Glen H., assignor.)

Conrad, Harold L. (See Conrad, Joshua C., and H. L.)

Conrad, Joshua C., and H. L., Oklahoma City, Okla. Automatic drilling control. 2,327,505; Aug. 24.

Conrad, Joshua C. and H. L., Oklahoma City, Okla. Footage indicator for drilling. 2,327,506; Aug. 24.

Conrad, Samuel L., Columbus, Ohio. Self-propelled bomb. 2,327,621; Aug. 24.

Continental Can Company. (See Baker, Edward E., assignor.)

Continental Can Co. (See Dukehart, Morton M., Jr., assignor.)

Continental Can Company. (See Fink, Henry A., assignor.)

Continental Can Company. (See Grosse, Thomas A., assignor.)

Continental Can Company, Inc. (See Henchert, John, assignor.)

Continental Can Company. (See Jackson, George F., assignor.)

Continental Can Company. (See Kronquest, Alfred L., assignor.)

Continental Can Company. (See O'Brien, Frank J., assignor.)

Continental Can Company. (See Punte, William F., assignor.)

Cook, Melvin A. (See Burrows, L. A., Cook, and Girdler.)

Cooley, Murray C. (See Brown, K. R., Cooley, and Wefeler.)

Core Laboratories, Inc. (See Horner, William L., assignor.)

Corhart Refractories Company. (See Smyth, Harold T., assignor.)

Couch, Lonnie E., Houston, Tex., assignor to Well Tool Development Corporation. Perforating gun for oil well casings. 2,327,340; Aug. 24.

Coupanger, William A., Elmore, Minn. Tree holder. 2,327,403; Aug. 24.

Cox, Clarence H., Normandy, Mo. Depilatory composition. 2,327,507; Aug. 24.

Coxe, Charles D., Bridgeport, Conn., assignor to Remington Arms Company, Inc. Metal surface finishing. 2,327,870; Aug. 24.

Craig, Palmer H., Shaker Heights, assignor to Invex Corporation, Cleveland, Ohio. Electromechanical connection. 2,327,622; Aug. 24.

Craig, James R., Ben Avon, Pa., assignor, to The Linde Air Products Company. Blowtorch. 2,327,508; Aug. 24.

Crane, Carlton L., assignor to Eastman Kodak Company, Rochester, N. Y. Preparing far-hydrolyzed cellulose esters. 2,327,770; Aug. 24.

Crane Co. (See Oravec, Emil G., assignor.)

Crane Co. (See Zinkil, R. H., Larson, and Hansen, assignors.)

Creely, Joseph W., Oaklyn, and J. A. Levering, Haddonfield, N. J., assignors to Eavenson & Levering Co. Poultry feed comprising wool. 2,327,698; Aug. 24.

Crew, David, assignor to Reid & Sigrist Limited, New Malden, England. Gyroscopic direction indicator and like instrument. 2,327,623; Aug. 24.

Cronk, Adelbert D. (See Hart, D. S., and Cronk.)

Crocker, Ernest C., Belmont, Mass., assignor, by mesne assignments, to The Lane Company, Inc. Cedar chest. 2,327,871; Aug. 24.

Curlee, William T. (See Hartley, Clarence E., assignor.)

Curtis, Frank W., assignor to Van Norman Machine Tool Company, Springfield, Mass. Milling machine. 2,327,404; Aug. 24.

Daily, William J., Girard, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y. Spring motor. 2,327,509; Aug. 24.

D'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Aminotriazine-aldehyde-halogenated acetone condensation product. 2,327,771; Aug. 24.

D'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Plasticized aminoplast. 2,327,772; Aug. 24.

Dahle, Joseph, Boston, assignor to Prophy-lac-tic Brush Company, Northampton, Mass. Making synthetic materials such as fibers. 2,327,872; Aug. 24.

Davidson, Alfred, E. Chapman, S. T. McQueen, and J. Payman, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited. Printing vat dyestuffs. 2,327,405; Aug. 24.

Dawson, James C., Jr., Kirkwood, Mo. Locking post construction. 2,327,873; Aug. 24.

Dawson, William O. (See Niedercorn, J. G., and Dawson.)

Day-Brite Lighting, Inc. (See Poehling, Henry J., assignor.)

Day, Roland B., assignor to Universal Oil Products Company, Chicago, Ill. Conversion of hydrocarbon oils. 2,327,510; Aug. 24.

De Blieck, Fred B. (See Brogard, J. R., and De Blieck.)

Deer & Company. (See White, Charles H., assignor.)

Degering, Edward F., West Lafayette, Ind., and A. Sprang, Cincinnati, Ohio, assignors to Purdue Research Foundation, Lafayette, Ind. Nitro glycol. 2,327,961; Aug. 24.

De Haan, Henry, et al. (See Teitsma, William, assignor.)

De Jong, Herman, New York, N. Y., assignor to Modern Inventions Corporation. Portable electromedical apparatus. 2,327,874; Aug. 24.

De Lange, Cornelis, and C. L. Boucher, Eindhoven, Netherlands; vested in the Alien Property Custodian. Blocking layer cell. 2,327,511; Aug. 24.

Del Riccio, Lorenzo, Los Angeles, Calif. Motor control apparatus. 2,327,581; Aug. 24.

Denman, John R., South Plainfield, N. J. Antislip mat. 2,327,624; Aug. 24.

Dennis, Edwin L., Reserve, La. Rotary gas burner. 2,327,512; Aug. 24.

Deren, Pincus. (See Birdseye, C., and Deren.)

De Simó, Martin, Piedmont, and F. M. McMillan, Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif. Catalytic isomerization of saturated hydrocarbons. 2,327,593; Aug. 24.

Detroit Edison Company, The. (See Turner, Charles S., assignor.)

Dewey, Benjamin F. (See Stettinius, K. E., and Dewey.)

Dewey and Almy Chemical Company. (See Carey, Charles A., assignor.)

Dickey, Joseph B., Rochester, N. Y., and Arzy R. Gray, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y. Aminophenols and the preparation thereof. 2,327,773; Aug. 24.

Dickinson, Theodore M., Schenectady, N. Y., assignor to General Electric Company. High frequency current transformer. 2,327,774; Aug. 24.

Dickson, Lawrence E., Chicago, Ill. Heat protective apparel. 2,327,625; Aug. 24.

Distillation Products, Inc. (See Cawley, John D., assignor.)

Distillation Products, Inc. (See Hickman, Kenneth C. D., assignor.)

Dixie-Vortex Company. (See Zimmerman, Fred R., assignor.)

Dole Refrigerating Company. (See Kleist, Herman W., assignor.)

Dole Valve Company, The. (See Chace, Thomas B., assignor.)

Dole Valve Company, The. (See Drapeau, Harold B., assignor.)

Donaldson, Edward J. (See Leemhuis, Johannes C. P., assignor.)

Donelson, Arthur W., Flint, Mich. Two-wire, two-way local-central station transmission system. 2,327,775; Aug. 24.

Dougherty, Robert J., Ambler, assignor to John Wood Manufacturing Company, Inc., Philadelphia, Pa. Thermostatic control. 2,327,582; Aug. 24.

Drake, Frank B., assignor to Johnson Gear & Manufacturing Co., Ltd., Berkeley, Calif. Pump drive. 2,327,962; Aug. 24.

Drake, George F., assignor to Woodward Governor Company, Rockford, Ill. Remote control system. 2,327,341; Aug. 24.

Drapeau, Harold B., Oak Park, assignor to The Dole Valve Company, Chicago, Ill. Cooling system. 2,327,342; Aug. 24.

Draper Corporation. (See Brown, Carl D., assignor.)

Dukehart, Morton M., Jr., New Rochelle, assignor to Continental Can Co., Inc., New York, N. Y. Dispensing container. 2,327,406; Aug. 24.

Dunn, Thomas H., St. Louis, Mo., assignor to The Ohio Brass Company. Conductor support. 2,327,699; Aug. 24.

Du Pont, E. I., de Nemours & Company. (See Burrows, L. A., Cook, and Girdler, assignors.)

Du Pont, E. I., de Nemours & Company. (See Calhoun, James J., assignor.)

Du Pont, E. I., de Nemours & Company. (See Chambers, Francis S., Jr., assignor.)

Du Pont, E. I., de Nemours & Company. (See Finzel, Theron G., assignor.)

Du Pont, E. I., de Nemours & Company. (See Hunter, George F., assignor.)

Du-Repel Corporation. (See Spence, James W., assignor.)

Dykstra, Harry, et al. (See Teitsma, William, assignor.)

Eastman Kodak Company. (See Bennett, Harold F., assignor.)

Eastman Kodak Company. (See Carroll, Burt H., assignor.)

Eastman Kodak Company. (See Carver, Emmett K., assignor.)

Eastman Kodak Company. (See Crane, Carlton L., assignor.)

Eastman Kodak Company. (See Dickey, J. B., and Gray, assignors.)

Eastman Kodak Company. (See Fairbanks, H. N., and Wallace, assignors.)

Eastman Kodak Company. (See Fisher, W. E., and Shearon, assignors.)

Eastman Kodak Company. (See Fuerst, Carl C., assignor.)

Eastman Kodak Company. (See Hopkins, Roy S., assignor.)

Eastman Kodak Company. (See Hutchison, Miller R., Jr., assignor.)

Eastman Kodak Company. (See Lowe, W. G., and Clarke, assignors.)

Eastman Kodak Company. (See McRae, Daniel B., assignor.)

Eastman Kodak Company. (See Nadeau, G. F., and Gould, assignors.)

Eastman Kodak Company. (See Nadeau, G. F., and Tucker, assignors.)

Eastman Kodak Company. (See Peterson, Charles W., assignor.)

Eastman Kodak Company. (See Russell, H. D., and Miller, assignors.)

Eastman Kodak Company. (See Sherwood, Harold F., assignor.)

Eastman Kodak Company. (See Simmons, Norwood L., assignor.)

Eastman Kodak Company. (See Vogel, Carl P., assignor.)

Eavenson & Levering Co. (See Creely, J. W., and Levering, assignors.)

Edborg, Harold, Chicago, assignor to Strombeck Press, Inc., Moline, Ill. Folding picture puzzle. 2,327,875; Aug. 24.

Edborg, Harold, Chicago, assignor to Strombeck Press, Inc., Moline, Ill. Folding picture puzzle. 2,327,876; Aug. 24.

Eddy, William C., Long Island, N. Y., assignor to Radio Corporation of America. Exhibiting apparatus. 2,327,626; Aug. 24.

Eddy, William C., Chicago, Ill., assignor to Radio Corporation of America. Optical image reversing and/or inverting system. 2,327,700; Aug. 24.

Edwvean, Wilfred B., assignor to General Motors Corporation, Detroit, Mich. Deburring machine. 2,327,407; Aug. 24.

Edwards, William G. (See Burch, C. J., and Edwards.)

Egry Register Company, The. (See Pfeiffer, William C., assignor.)

Egry Register Company, The. (See Wyrick, Clayton E., assignor.)

Electric Laboratories Incorporated. (See Brown, Harold J., assignor.)

Electric Vacuum Cleaner Company. (See McAnerney, Joseph A., assignor.)

Ellis, Bertram, et al., executor. (See Ellis, C.)

Ellis, Carleton, Jr., et al., executor. (See Ellis, C.)

Ellis, Carleton, Montclair, N. J., deceased, C. Ellis, Jr., and B. Ellis, and Bank of Montclair, executors, assignors to Chadeloid Chemical Company. Paint and varnish remover composition. 2,327,701; Aug. 24.

Ellis, Edward J., Bartow, Fla., assignor to Southern Phosphate Corporation, Baltimore, Md. Flotation. 2,327,408; Aug. 24.

Erickson, Donald R., and P. J. Thoma, Kalamazoo, Mich. Printing ink. 2,327,594; Aug. 24.

Erickson, Donald R., and P. J. Thoma, Kalamazoo, Mich. Printing ink. 2,327,595; Aug. 24.

Erickson, Donald R., and P. J. Thoma, Kalamazoo, Mich. Printing ink. 2,327,596; Aug. 24.

Erickson, Donald R., and P. J. Thoma, Kalamazoo, Mich. Printing ink. 2,327,597; Aug. 24.

Erwin, Edson L., Towaco, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone call diverting system. 2,327,877; Aug. 24.

Esselen, Gustavus J., Swampscott, Mass., assignor, by mesne assignments, to Monsanto Chemical Company. Forming polyvinyl acetal resin sheets. 2,327,627; Aug. 24.

Esterow, Leo, New York, N. Y. Vanity case. 2,327,513; Aug. 24.

Euclid Road Machinery Company, The. (See Armington, Stewart F., assignor.)

Ewald, Mark, Olympia, Wash., assignor to Special Equipment Company, Portland, Oreg. Removing seed-containing sections from half-fruit. 2,327,343; Aug. 24.

Ewing, Robert, Dallas, Tex. Thermal shield for tank heads. 2,327,628; Aug. 24.

Ezrol, Edward, Brooklyn, assignor to H. Robinson and O. A. Golluber, doing business under partnership name Robinson and Golluber, New York, N. Y. Display and dispensing means. 2,327,878; Aug. 24.

Factor, Max, & Co. (See Peat, Roy L., assignor.)

Fairbank, Morse & Co. (See Ward, Willard H., assignor.)

Fairbanks, Henry N., Rochester, N. Y., and R. W. Wallace, Washington, D. C., assignors to Eastman Kodak Company, Rochester, N. Y. Threading mechanism for motion picture apparatus. 2,327,776; Aug. 24.
Falk Corporation, The. (See Falk, Louis W., assignor.)
Falk, Louis W., assignor to The Falk Corporation, Milwaukee, Wis. Gear housing. 2,327,777; Aug. 24.
Farrar, Alvin J., assignor to The Van Dorn Iron Works Company, Cleveland, Ohio. Street sweeper. 2,327,879; Aug. 24.
Farrar, Fay A., San Jose, Calif. Prime mover. 2,327,409; Aug. 24.
Federal Telephone & Radio Corporation. (See Kandoian, Armig G., assignor.)
Fedorchak, William J., Granite City, Ill., assignor to Owens-Illinois Glass Company. Gauging machine. 2,327,629; Aug. 24.
Fenwick, Ivy D., Brooklyn, N. Y. Colostomy protector. 2,327,514; Aug. 24.
Feragen, A. E., Inc. (See Bennett, Claude C., assignor.)
Ferguson, Otto C., assignor to General Motors Corporation, Detroit, Mich. Shipping device for light airplane. 2,327,410; Aug. 24.
Fernstrom, Gustav W., Gothenburg, assignor to Aktiebolaget Svenska Kullagerfabriken, Goteborg, Sweden. Axial ball or roller bearings. 2,327,880; Aug. 24.
Ferris, Birdie D., executrix. (See Ferris, W. D. (deceased) and Wolf.)
Ferris, William D., Sterling, Ill., deceased, B. D. Ferris, executrix, and C. R. Wolf, assignors to Frantz Manufacturing Co., Sterling Ill. Garage door. 2,327,778; Aug. 24.
Ferrone, Margaret J., Boonton, and C. W. Burdge, Hackettstown, N. J. Machine for arming bomb fuses. 2,327,515; Aug. 24.
Ferschl, Leopold. (See Kaufmann, W., Flögel, Thewalt, and Ferschl.)
Fibus, Murray M., Youngstown, Ohio. Cooler cabinet. 2,327,630; Aug. 24.
Fibus, Murray M., Youngstown, Ohio. Cooling and display stand. 2,327,631; Aug. 24.
Fiegel, William J., assignor to Bohn Aluminum & Brass Corporation, Detroit, Mich. Machine for sizing bearings. 2,327,598; Aug. 24.
Fink, Heinrich, Rottweil-on-the-Neckar, and G. Plepp, Wolfen, Kreis Bitterfeld, Germany; vested in the Alien Property Custodian. Manufacture of artificial filaments and fibers from viscose. 2,327,516; Aug. 24.
Fink, Henry A., Pelham Manor, assignor to Continental Can Company, Inc., New York, N. Y. Container. 2,327,411; Aug. 24.
Fink, Henry A., Pelham Manor, assignor to Continental Can Company, Inc., New York, N. Y. Container with heating means. 2,327,412; Aug. 24.
Finzel, Theron G., Kenmore, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Cellulosic structure and producing same. 2,327,413; Aug. 24.
Firing, Fritz E., assignor to Munitions, Incorporated, Chicago, Ill. Bomb. 2,327,414; Aug. 24.
Fisher, Webster E., Rochester, N. Y., and W. H. Shearon, Jr., Nashville, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y. Separation of mixtures containing solvents. 2,327,779; Aug. 24.
Fleischer, Gerhard A. (See Schwenk, E., and Fleischer.)
Flögel, Otto. (See Kaufmann, W., Flögel, Thewalt, and Ferschl.)
Flynt, Robert C., assignor to Brown-Rogers-Dixon Co., Winston-Salem, N. C. Toy for simulating airplane attacks. 2,327,702; Aug. 24.
Forker, Major T., Jr., assignor to The Balmar Corporation, Baltimore, Md. Locomotive power reverse gear. 2,327,344; Aug. 24.
Forschner, Vilem, New York, N. Y. Shoe and making same. 2,327,415; Aug. 24.
Fossa, Joseph, Salem, Mass., assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J. Shoe upper lacing machine. 2,327,345; Aug. 24.
Foster, Edson P., Manitowoc, Wis. Felting needle. 2,327,416; Aug. 24.
Framhein, Herbert J., Chicago, Ill., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Motorized lift truck. 2,327,583; Aug. 24.
Frank, John P. (See Bescoke, Richard, assignor.)
Frantz Manufacturing Co. (See Ferris, W. D., and Wolf, assignors.)
Frazier, Robert T., assignor to Cavalier Corporation, Chattanooga, Tenn. Electric range circuit. 2,327,632; Aug. 24.
Fredén, Carl F., Munkfors, Sweden. Guard grating for turbine plants. 2,327,703; Aug. 24.
Freeman, Howard G. (See Kendall, H. C., and Freeman.)
Frey, Frederick E., Bartlesville, Okla., assignor to Phillips Petroleum Company. Production of motor fuel. 2,327,633; Aug. 24.
Frey, Frederick E., and H. J. Hepp, Bartlesville, Okla., assignors to Phillips Petroleum Company. Producing hydrocarbons. 2,327,634; Aug. 24.
Friden Calculating Machine Co. (See Friden, Carl M., assignor.)
Friden Calculating Machine Co. (See Friden, C. M. F., and Gemmell, assignors.)
Friden, Carl M., Oakland, Calif., assignor to Friden Calculating Machine Co., Inc. Calculating machine. 2,327,635; Aug. 24.
Friden, Carl M. F., and J. H. Gemmell, Oakland, Calif., assignors to Friden Calculating Machine Co., Inc. Calculating machine. 2,327,704; Aug. 24.
Friedman, Abraham, New York, N. Y. Two piece waistline belt for uniforms and other garments. 2,327,881; Aug. 24.
Frolich, Per K., Westfield, and L. A. Bannon, Roselle, N. J., assignors, by mesne assignments, to Jasco, Incorporated. Chlorination of high molecular weight hydrocarbons. 2,327,517; Aug. 24.
Frolich, Per K., Westfield, and H. B. Kellog, Union City, N. J., assignors to Standard Oil Development Company. Lubricant. 2,327,705; Aug. 24.
Fuerst, Carl C., assignor to Eastman Kodak Company, Rochester, N. Y. Camera shutter. 2,327,780; Aug. 24.
Furedy, Frank, assignor to Sun-Kraft, Inc., Chicago, Ill. Therapeutic lamp. 2,327,346; Aug. 24.
Gabriel, Leonard G., and J. A. Rawlinson, London, England. Bituminous base dispersion for use in the production of colored bitumen dispersions. 2,327,882; Aug. 24.
Galey, Henry J., Tarentum, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Skeleton mold. 2,327,883; Aug. 24.
Gemmell, James H. (See Friden, C. M. F., and Gemmell.)
General Aniline & Film Corporation. (See Machin, Willis H., assignor.)
General Controls Co. (See Matteson, Harold J., assignor.)
General Electric Company. (See D'Alelio, Gaetano F., assignor.)
General Electric Company. (See Dickinson, Theodore M., assignor.)
General Electric Company. (See MacDonald, C., McNairy, and Tritle, assignors.)
General Electric Company. (See Rogers, Stephen C., assignor.)
General Electric Company. (See Warner, Russell A., assignor.)
General Electric X-Ray Corporation. (See Atlee, Zed J., assignor.)
General Electric X-Ray Corporation. (See Kizaur, Arthur J., assignor.)
General Motors Corporation. (See Chilton, William D., assignor.)
General Motors Corporation. (See Claytor, Edward M., assignor.)
General Motors Corporation. (See Edyvean, Wilfred B., assignor.)
General Motors Corporation. (See Ferguson, Otto C., assignor.)
General Motors Corporation. (See Grandy, Levi R., assignor.)
General Motors Corporation. (See Hartzell, Herman L., assignor.)
General Motors Corporation. (See Jorgensen, Clarence H., assignor.)
General Motors Corporation. (See Keighley, Lloyd M., assignor.)
General Motors Corporation. (See Koehring, Roland P., assignor.)
General Motors Corporation. (See Perrine, Lester E., assignor.)
General Motors Corporation. (See Schweller, Edmund F., assignor.)
Gerber, John, assignor to Lockheed Aircraft Corporation, Burbank, Calif. Aircraft fuselage construction. 2,327,636; Aug. 24.
Gibbin, Floyd E., Buffalo, assignor of one-half to L. A. Gibbin, Springville, N. Y. Saliva ejector. 2,327,347; Aug. 24.
Gibbin, Leslie A. (See Gibbin, Floyd E., assignor.)
Gilman Fanfold Corporation. (See Kerr, James G., assignor.)
Girdler, Robert M. (See Burrows, L. A., Cook, and Girdler.)
Gluseffi, Jerome, Cincinnati, Ohio, assignor to The Goodall Worsted Company, Sanford, Maine. Garment sleeve. 2,327,348; Aug. 24.
Gledhill, Edward C., Galion, Ohio. Runner for road scrapers. 2,327,417; Aug. 24.
Glidden, Arthur R., Seattle, Wash. Cigarette snuffer and ash tray. 2,327,518; Aug. 24.
Globe Valve Corporation. (See Beeke, H. F., and Young, assignors.)
Glynn, Edwin A., Lodi, Calif., assignor to Super Mold Corporation of California. Tire repairing mold. 2,327,781; Aug. 24.
Goff, Harold W., Manhasset, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Calling dial device. 2,327,782; Aug. 24.
Goldberg, Mark J., Spring Lake, and D. S. Willson, Muskegon Heights, Mich., assignors to John Wood Manufacturing Company, Inc., Philadelphia, Pa. Liquid dispensing device. 2,327,584; Aug. 24.
Goldmann, Joachim, Berlin, Germany; vested in the Alien Property Custodian. Energy transition system. 2,327,418; Aug. 24.

Goldsmith, William H., Jr., Brookline, assignor to Abington Textile Machinery Works, Boston, Mass. Method and means for stripping carding apparatus. 2,327,349; Aug. 24.
Golluber, Otto A., et al. (See Ezrol, E., assignor.)
Goodall Worsted Company, The. (See Gluseffi, Jerome, assignor.)
Goodman Manufacturing Company. (See Lindgren, Frank A., assignor.)
Goodrich, B. F., Company, The. (See Krotz, Alvin S., assignor.)
Goodrich, B. F., Company, The. (See Slusher, Frank, assignor.)
Goodrich, B. F., Company, The. (See Stewart, William D., assignor.)
Goodwin, George I., Detroit, Mich. Clutch plate. 2,327,884; Aug. 24.
Gould, Austin J. (See Nadeau, G. F., and Gould.)
Grace, Robert H., Bridgeport, Conn., and I. F. Walker, Wilmington, Del., assignors to Remington Arms Company, Inc. Ammunition manufacture. 2,327,885; Aug. 24.
Grade Crossing Guard Corporation. (See Nampo, Sulo M., assignor.)
Grandy, Levi R., River Forest, Ill., assignor to General Motors Corporation, Detroit, Mich. Apparatus for testing engine lubrication. 2,327,419; Aug. 24.
Granular Foods, Inc. (See Heyman, Wilbert A., assignor.)
Graver Tank & Mfg. Co., Inc. (See Quigley, James B., assignor.)
Gray, Arzy R. (See Dickey, J. B., and Gray.)
Greenlee Bros. & Co. (See Abramson, J. H., and Swason, assignors.)
Groothedde, Harry, Haledon, N. J. Christmas tree ornament. 2,327,519; Aug. 24.
Grosse, Thomas A., Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y. Dispensing container. 2,327,420; Aug. 24.
Gulf Research & Development Company. (See Stevens, D. R., and McKinley, assignors.)
Gulf Research & Development Company. (See zur Horst, C. G., Wescott, and Vollmer, assignors.)
Gulf Research & Development Company. (See zur Horst, C. G., Wescott, and Vollmer, assignors.)
Haas, Sherwin W., Philadelphia, Pa., assignor to Keuffel & Esser Company, Hoboken, N. J. Drawing board cover. 2,327,963; Aug. 24.
Haber, Eugene J., Sanderstead, assignor to Matthews & Yates Limited, Swinton, Manchester, England. Apparatus for separating dust and other suspended matter from air and other gases or vapors. 2,327,886; Aug. 24.
Hagen, Harold F., Wellesley, assignor to B. F. Sturtevant Company, Hyde Park, Boston, Mass. Propeller fan. 2,327,841; Aug. 24.
Hagstrom, Joseph E., and O. C. Olsen, assignors to C. Earl Hovey, Kansas City, Mo., as trustee. Refrigerated portable bottle vendor. 2,327,520; Aug. 24.
Hains, Daniel B., Bayville, N. Y., assignor to Winner Manufacturing Company, Inc., Trenton, N. J. Water ski binding. 2,327,783; Aug. 24.
Halbach, Howard L., and W. G. Koupal, Clarksburg, W. Va., and William Owen, Pittsburgh, Pa., assignors to Pittsburgh Plate Glass Company. Blanket feeder for glass drawing tanks. 2,327,887; Aug. 24.
Hall, William A., San Acacio, Colo. Screen door insect trap. 2,327,421; Aug. 24.
Halliburton Oil Well Cementing Company. (See Savitz, Christian W., assignor.)
Halstead, Ralph T., Somerville, N. J., assignor to Johns-Manville Corporation, New York, N. Y. Curving material. 2,327,706; Aug. 24.
Hamilton Watch Company (See Wolfe, Bruce E., assignor.)
Hansen, George E. (See Zinkil, R. H., Larson, and Hansen.)
Hanson, Edwin E., Snohomish, Wash. Can handling machine. 2,327,888; Aug. 24.
Harmon Color Works, Inc. (See Vesce, V. C., and Stalzer, assignors.)
Harnly, Nellie F. (See Matheny, Willard R., assignor.)
Harris, D. P., Hardware & Manufacturing Co. Inc. (See Lyman, Wendell G., assignor.)
Harris, Thaddeus S., Waverly, Ill. Deep well pump. 2,327,637; Aug. 24.
Harrison, Marion M., Peninsula, assignor to Harrison & Morton Laboratories, Inc., Akron, Ohio. Manufacture of rubber products and apparatus therefor. 2,327,638; Aug. 24.
Harrison & Morton Laboratories, Inc. (See Harrison, Marion M., assignor.)
Hart, David S., Bethlehem, and A. D. Cronk, Woodbury, assignors to The Patent Button Company, Waterbury, Conn. Reinforced plastic button. 2,327,521; Aug. 24.
Hart Manufacturing Company, The. (See Boardman, Raymond, assignor.)
Hartley, Clarence E., assignor of one-half to William T. Curlee, Salisbury, N. C. Steam boiler firebox. 2,327,522; Aug. 24.
Hartwig, Charles W., Hastings upon Hudson, N. Y. Bowling alley. 2,327,350; Aug. 24.
Hartzell, Herman L., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Ignition coil. 2,327,784; Aug. 24.
Harvel Corporation, The. (See Harvey, Mortimer T., assignor.)
Harvey Corporation, The. (See Schaufelberger, William F., assignor.)
Harvel Research Corporation. (See Harvey, Mortimer T., assignor.)
Harvey, Mortimer T., East Orange, N. J., assignor to Harvel Research Corporation. Composition of matter and method and steps of making and using the same. 2,327,422; Aug. 24.
Harvey, Mortimer T., East Orange, N. J., assignor to The Harvel Corporation. Compositions of matter and method and steps of making and using the same. 2,327,785; Aug. 24.
Haugh, Raymond R., assignor to Vernon C. Usher, Chicago, Ill. Apparatus for evaporating fluid materials. 2,327,889; Aug. 24.
Hayes Industries, Inc. (See Hollerith, Charles, assignor.)
Heat Transfer Products, Inc. (See Jacocks, George T., assignor.)
Heintz, James C., Lakewood, Ohio. Convertible tire vulcanizer. 2,327,639; Aug. 24.
Heintz, Ralph M., Shaker Heights, assignor to Jack & Heintz, Inc., Cleveland, Ohio. Cooling method and apparatus. 2,327,786; Aug. 24.
Heintz, Ralph M., assignor to Jack & Heintz, Inc., Cleveland, Ohio. Variable displacement pump. 2,327,787; Aug. 24.
Heintzelman, Leo A., Grand Rapids, Mich. Sterilizer. 2,327,707; Aug. 24.
He-Li-Po, Inc. (See Minton, Ogden, assignor.)
Helmond, William F., Clinton, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 2,327,423; Aug. 24.
Henchert, John, Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y. Seaming cover ends to can bodies. 2,327,424; Aug. 24.
Hendry, Adolph R., Portland, Mich. Surfacing mat for landing fields. 2,327,640; Aug. 24.
Henze, Henry R., Austin, Tex., assignor to Parke, Davis & Company, Detroit, Mich. Substituted phenoxylalkyl ethers. 2,327,890; Aug. 24.
Hepp, Harold J. (See Frey, F. E., and Hepp.)
Heppenstall Company. (See Russell, H. W., and Jackson, assignors.)
Herbst, Walter A., Union, N. J., assignor to Standard Oil Development Company. Safety motor fuel. 2,327,708; Aug. 24.
Hercules Powder Company. (See Borglin, J. N., assignor.)
Herman, William P., Providence, R. I. Turn knob. 2,327,891; Aug. 24.
Heuschober, Elbert E., assignor to Heuschober Engineering Corporation, Fort Worth, Tex. Internal combustion engine. 2,327,523; Aug. 24.
Heuschober Engineering Corporation. (See Heuschober, Elbert E., assignor.)
Heuschober Engineering Corporation. (See Sherwood, Noble P., assignor.)
Heyman, Wilbert A., assignor to Granular Foods, Inc., New York, N. Y. Expanded solid corn sirup. 2,327,351; Aug. 24.
Hibner, DeLos E., Dubois, and F. C. Arey, Freeport, assignors to Vulcan Soot Blower Corporation. Automatic soot blower system. 2,327,524; Aug. 24.
Hickman, Kenneth C. D., assignor to Distillation Products, Inc., Rochester, N. Y. Distillation process and apparatus. 2,327,788; Aug. 24.
Hidy, Herald B., Wentzville, Mo. Polygon square. 2,327,892; Aug. 24.
Hilker, Earl E., Spring Garden Township, York County, assignor to S. Morgan Smith Company, York, Pa. Valve operating mechanism. 2,327,425; Aug. 24.
Himes, Ross A., Oakland, Calif. Bottom structure for folding paper boxes. 2,327,709; Aug. 24.
Himes, Ross A., Oakland, Calif. Bottom structure for folding paper boxes. 2,327,710; Aug. 24.
Hixon, Joseph M., Attica, Ind. Fishing tackle float. 2,327,789; Aug. 24.
Hobson, Cecil B., Marion, Ohio. Combine. 2,327,893; Aug. 24.
Hodge, Arthur O. A. (See Shaw, W. A., and Hodge.)
Hodge, Edward B., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Nitration of alkanes. 2,327,964; Aug. 24.
Hodgson, Joseph H., Westport, J. R. Balder, Stratford, and Francis E. James, Fairfield, Conn., assignors to Remington Arms Company, Inc. Ammunition. 2,327,894; Aug. 24.
Hoffman, Valentine E., et al. (See Barna, Joseph W., assignor.)
Hogenmiller, Francis J. (See Boerner, L. W., and Hogenmiller.)
Holden, Justin A., Brattleboro, Vt. Sand spreader. 2,327,895; Aug. 24.
Holden, William H. T., Woodside, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Communication system. 2,327,711; Aug. 24.
Hollerith, Charles, assignor to Hayes Industries, Inc., Jackson, Mich. Dual brake arrangement for trainer airplanes. 2,327,427; Aug. 24.

Hooven, Frederick J., Dayton, Ohio, assignor to Radio Corporation of America, New York, N. Y. Radio compass. 2,327,641; Aug. 24.
Hoover, Vaino A., Los Angeles, assignor to Byron Jackson Co., Huntington Park, Calif. Method and apparatus for assembling stators. 2,327,352; Aug. 24.
Hopkins, Harry J., assignor to Acme Visible Records, Inc., Chicago, Ill. Apparatus for making visible index strips. 2,327,525; Aug. 24.
Hopkins, Roy S., assignor to Eastman Kodak Company, Rochester, N. Y. Camera bellows and making same. 2,327,790; Aug. 24.
Hopper, Andrew L., River Edge, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Time delay apparatus. 2,327,791; Aug. 24.
Horner, William L., assignor to Core Laboratories, Inc., Dallas, Tex. Method and apparatus for measuring porosity of solids. 2,327,642; Aug. 24.
Hothersall, John M., Brooklyn, N. Y., assignor to E. J. Brooks Company, Newark, N. J. Threading machine. 2,327,428; Aug. 24.
Houghland, Glen S., New York, N. Y., assignor to The M. W. Kellogg Company, Jersey City, N. J. Fractional distillation. 2,327,643; Aug. 24.
Houghland, Glen S., New York, N. Y., assignor to The M. W. Kellogg Company, Jersey City, N. J. Method of stripping enriched absorbent medium. 2,327,896; Aug. 24.
House, Kenneth R. and H. C. Olpin, Spondon, near Derby, England, assignors to Celanese Corporation of America. Dyeing cellulose derivatives. 2,327,426; Aug. 24.
Hovey, C. Earl, trustee. (See Hagstrom, J. E., and Olsen, assignors.)
Howard, Arthur H., Toronto, Ontario, Canada. Vermifuge and making same. 2,327,644; Aug. 24.
Howard, Joseph A., Roscoe, Calif. Floating tool holder. 2,327,897; Aug. 24.
Howard Mfg. Co. (See Nigbor, Thomas A., assignor.)
Hubbard and Company. (See Ackerman, Harold S., assignor.)
Hubbard, Francis A., Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Selector. 2,327,792; Aug. 24.
Hubley, Earl A., Quincy, assignor to Mason-Neilan Regulator Co., Boston, Mass. Control mechanism. 2,327,898; Aug. 24.
Hucke, Herbert M., Haddonfield, N. J., assignor to United Air Lines Transport Corporation, Chicago, Ill. Electrical resistor. 2,327,793; Aug. 24.
Huey, Harold I., Saylesville, H. G. Killam, Providence, and W. W. Russell, East Providence, assignors to Sayles Finishing Plants, Inc., Saylesville, R. I. Fabric finishing method. 2,327,712; Aug. 24.
Hufford, Raymond, Anderson, Ind. On-center valve vacuum governor and spark control. 2,327,599; Aug. 24.
Hughes, Owen R., Alhambra, Calif. Internal combustion engine. 2,327,645; Aug. 24.
Hull, Charles J., North Tonawanda, and F. H. Osborne, Snyder, N. Y., assignors to The Rudolph Wurlitzer Company, Cincinnati, Ohio. Remote control system. 2,327,429; Aug. 24.
Hunna, Emerich, executor. (See Lilienfeld, Leon.)
Hunter, George F., Woodbridge, N. J., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del. Antistatic photographic package. 2,327,713; Aug. 24.
Hurt, Victor H., Cranston, R. I., assignor to United States Rubber Company, New York, N. Y. Water toboggan. 2,327,794; Aug. 24.
Hutchinson, Charles, Kamloops, British Columbia, Canada. Paper punch. 2,327,646; Aug. 27.
Hutchison, Miller R., Jr., assignor to Eastman Kodak Company, Rochester, N. Y. Automatic screw driver. 2,327,795; Aug. 24.
Hutchison, Miller R., Jr., assignor to Eastman Kodak Company, Rochester, N. Y. Automatic screw driver. 2,327,796; Aug. 24.
Hutchison, Miller R., Jr., assignor to Eastman Kodak Company, Rochester, N. Y. Folding camera. 2,327,797; Aug. 24.
Ideal Clamp Manufacturing Co. (See Zaleske, Michael J., assignor.)
Iftiger, William C., Sr., Santa Fe Springs, Calif. Coupling. 2,327,714; Aug. 24.
Ilex Optical Company. (See Brueck, Theodore M., assignor.)
Imperial Brass Manufacturing Company, The. (See McIntosh, Robert D., assignor.)
Imperial Brass Manufacturing Company, The. (See Warrick, Charles F., assignor.)
Imperial Chemical Industries Limited. (See Ashcroft, Donald G., assignor.)
Imperial Chemical Industries Limited. (See Davidson, A., Chapman, McQueen and Payman, assignors.)
Ingerson, William E., North Plainfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Punch device. 2,327,715; Aug. 24.
International Harvester Company. (See Baker, D. B., and Bechman, assignors.)
International Harvester Company. (See Benjamin, Bert R., assignor.)
International Harvester Company. (See Brogard, J. R., and De Blieck, assignors.)
International Harvester Company. (See Johnson, A. E. W., and Acton, assignors.)
International Harvester Company. (See Kowalsky, Andrew, assignor.)
International Harvester Company. (See Morris, David M., assignor.)
International Harvester Company. (See Orelind, John R., assignor.)
International Harvester Company. (See Scarratt, A. W., and Lundberg, assignors.)
International Harvester Company. (See Smith, Hiram P., assignor.)
Invex Corporation. (See Craig, Palmer H., assignor.)
Isermann, Samuel, Summit, and E. Ohlsson, Short Hills, N. J. Composition for protection against light of short wave length. 2,327,899; Aug. 24.
Jack & Heintz, Inc. (See Heintz, Ralph M., assignor.)
Jackson, Byron, Co. (See Hoover, Vaino A., assignor.)
Jackson, George F., Baltimore, Md., assignor to Continental Can Company, Inc., New York, N. Y. Machine for vacuumizing, gassing, and hand-sealing filled containers. 2,327,430; Aug. 24.
Jackson, Lloyd R. (See Russell, H. W., and Jackson.)
Jacocks, George T., New Rochelle, assignor to Heat Transfer Products, Inc., New York, N. Y. Closure. 2,327,716; Aug. 24.
Jacquard Knitting Machine Co. (See Sirmay, Julius, assignor.)
Jagiel, John F. (See Brown, J. H., and Jagiel.)
Jakeway, Gerald V. (See Keller, I. S., and Jakeway.)
James, Francis E. (See Hodgson, J. H., Balder, and James.)
Jandasek, Joseph, Detroit, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind. Turbo transmission. 2,327,647; Aug. 24.
Jarm, Edwin C., West Springfield, Mass., and L. Verzier, assignors to The Lea Manufacturing Co., Waterbury, Conn. Abrasive faced wheel. 2,327,900; Aug. 24.
Jasco, Incorporated. (See Frolich, P. K., and Bannon, assignors.)
Jens, Albert A. (See Williams, H. O., and Jens.)
Jesionowski, John, Hartford, Conn. Filing machine. 2,327,843; Aug. 24.
Jicha, Joseph W., Cleveland, Ohio. Fishing reel. 2,327,431; Aug. 24.
Johns-Manville Corporation. (See Halstead, Ralph T., assignor.)
Johnson, Arnold E. W., Oak Park, and R. D. Acton, Chicago, Ill., assignors to International Harvester Company. Thresher cylinder. 2,327,901; Aug. 24.
Johnson, Edward E., Incorporated. (See Williams, H. O., and Jens, assignors.)
Johnson Gear & Manufacturing Co., Ltd. (See Drake, Frank B., assignor.)
Johnson, Gustav R., East Providence, R. I. Skate sharpener. 2,327,717; Aug. 24.
Johnson, Herbert C. (See Wilcox, Russell I., assignor.)
Johnson, John G., Lead City, S. Dak. Safety blasting cap. 2,327,902; Aug. 24.
Johnson, William V., Washington, D. C. Beverage mixer and dispenser. 2,327,432; Aug. 24.
Johnson, William V., Washington, D. C. Key holder. 2,327,433; Aug. 24.
Johnston, Dwight A., assignor to McKay Machine Company, Youngstown, Ohio. Apparatus for making metallic surfacing sheets. 2,327,844; Aug. 24.
Johnston, Herbert A., Anaheim, Calif. Fracture securing apparatus. 2,327,434; Aug. 24.
Jones, Minor C. K., Elizabeth, and B. R. Strickland, Roselle, N. J., assignors to Standard Oil Development Company. Recovery of phenols from mineral oils. 2,327,526; Aug. 24.
Jorgensen, Clarence H., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Automatic choke mecahnism and choke valve. 2,327,903; Aug. 24.
Kamman, Isadore, Gardner, Mass., assignor to Kamman Furniture, Inc., Philadelphia, Pa. Protective storage receptacle. 2,327,798; Aug. 24.
Kamman Furniture, Inc. (See Kamman, Isadore, assignor.)
Kandolan, Armig G., New York, N. Y., assignor to Federal Telephone & Radio Corporation. Antenna interaction compensating means. 2,337,435; Aug. 24.
Kaplan, Carl, Brooklyn, and H. Kittilsen, Springfield Gardens, N. Y. Dowel and tendon anchor device. 2,327,527; Aug. 24.
Karle, John D., Roselle Park, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Instrument for suturing. 2,327,353; Aug. 24.
Karle, John D., Roselle Park, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Rotary hook for sewing machines. 2,327,845; Aug. 24.
Kasten, Walter, Franklin, assignor to Ralph L. Skinner, Detroit, Mich. Filter pack. 2,327,648; Aug. 24.
Kassler, Kenneth S., Princeton, N. J. Toy. 2,327,718; Aug. 24.
Kaufmann, Werner, Berlin-Siemensstadt, O. Flögel, Berlin, A. Thewalt, Berlin-Siemensstadt, and L. Ferschl, Berlin, Germany, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Circuit breaker. 2,327,799; Aug. 24.
Kay-Fries Chemicals, Inc. (See Bitler, W. P., and Nicholl, assignors.)

Kaysing, Albert L., assignor to J. A. Smith Company, St. Louis, Mo. Chicken brooder. 2,327,801; Aug. 24.
Kaysing, Albert L., assignor to J. A. Smith Company, St. Louis, Mo. Electrically heated chicken brooder. 2,327,800; Aug. 24.
Keeler, Isaac S., and G. V. Jakeway, assignors to Keeler Brass Company, Grand Rapids, Mich. Door and regulator handle. 2,327,904; Aug. 24.
Keema, Alexander W. (See Stevenson, R., and Keema.)
Keighley, Lloyd M., assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,327,649; Aug. 24.
Keller Brass Company. (See Keller, I. S., and Jakeway, assignors.)
Kellog, Henry B. (See Frolich, P. K., and Kellog.)
Kellogg, M. W., Company, The. (See Houghland, Glen S., assignor.)
Kelly, Carl D., Portland, Oreg. Shield for rearview mirrors. 2,327,802; Aug. 24.
Kendall, Horace C., and H. G. Freeman, assignors to Rockwood Sprinkler Company, Worcester, Mass. Fire extinguishing apparatus. 2,327,528; Aug. 24.
Kennon, Louis H., Houston, Tex. Valve assembly. 2,327,600; Aug. 24.
Kent, Walter E., Decatur, Ill. Air volume control. 2,327,601; Aug. 24.
Kerr, James G., Washington, D. C., assignor to Gilman Fanfold Corporation, Niagara Falls, N. Y. Manifolding assembly. 2,327,719; Aug. 24.
Kershaw, Robert H., Long Beach, Calif. Mount for direction signals. 2,327,905; Aug. 24.
Kesteloot, Joseph F., Chicago, Ill. Drain relief device. 2,327,602; Aug. 24.
Keuffel & Esser Company. (See Haas, Sherwin W., assignor.)
Kidd, James M., Birmingham, Ala. Filter. 2,327,803; Aug. 24.
Kieckhefer Container Company. (See Kieckhefer, H. M., and Clark, assignors.)
Kieckhefer, Herbert M., and S. B. Clark, Riverton, assignors to Kieckhefer Container Company, Delair, N. J. Connected container. 2,327,529; Aug. 24.
Kiefer, Joseph E., assignor to The Streine Tool and Manufacturing Company, New Bremen, Ohio. Strip coil handling. 2,327,906; Aug. 24.
Killam, Horace G. (See Huey, H. I., Killam and Russell.)
Kistler, Samuel S., West Boylston, assignor to Norton Company, Worcester, Mass. Grinding wheel. 2,327,846; Aug. 24.
Kittilsen, Hjalmar. (See Kaplan, C., and Kittilsen.)
Kizaur, Arthur J., Cicero, assignor to General Electric X-Ray Corporation, Chicago, Ill. Radiographic apparatus. 2,327,603; Aug. 24.
Klein, Charles, Brooklyn, N. Y. Broiler mechanism. 2,327,354; Aug. 24.
Klein, Charles H., Cleveland, Ohio, assignor to The National Telephone Supply Company. Wire connecting sleeve. 2,327,650; Aug. 24.
Klein, Charles H., Cleveland, Ohio, assignor to The National Telephone Supply Company. Tap-off connecting device. 2,327,651; Aug. 24.
Kleist, Herman W., assignor to Dole Refrigerating Company, Chicago, Ill. Soda fountain. 2,327,355; Aug. 24.
Klopfenstein, Jesse D., Chicago, Ill., assignor to Colorgraphic Incorporated. Ejector for slot-cutting dies. 2,327,530; Aug. 24.
Knox, Ralph, Jr., Denver, Colo. Apparatus for musical instruction. 2,327,907; Aug. 24.
Koch, Frederick, Sparta, assignor to Associated Patentees. Inc., Ampere, N. J. Continuous milling. 2,327,531; Aug. 24.
Koch, Lydia B., New York, and I. F. Mandell, New Rochelle, N. Y.; said Mandell assignor to said Koch. Nonrefillable paper bottle. 2327,965; Aug. 24.
Koechling, Charles D., Floral Park, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 2,327,436; Aug. 24.
Koehl, James A., assignor to Central Commercial Company, Chicago, Ill. Musical instrument. 2,327,720; Aug. 24.
Koehring, Roland P., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Heat treating apparatus. 2,327,804; Aug. 24.
Koehring, Roland P., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Porous metal. 2,327,805; Aug. 24.
Konucik, George J., Norfolk, Va. Sterilizer. 2,327,721; Aug. 24.
Koppel, Charles, Robbinsville, N. J. Knitting machine jack and needle bed. 2,327,356; Aug. 24.
Koppers Company. (See Morton, Allen W., assignor.)
Koppers Company. (See Shattuck, Arthur W., Jr., assignor.)
Koupal, Walter G. (See Halbach, H. L., Koupal and Owen.)
Kouyoumjian, Haroutium K., Wakefield, R. I., assignor to Ward Leonard Electric Company. Dashpot. 2,327,722; Aug. 24.
Kowalsky, Andrew, Perdido Beach, Ala., assignor to International Harvester Company. Binder. 2,327,908; Aug. 24.
Kronquest, Alfred L., Syracuse, assignor to Continental Can Company, Inc., New York, N. Y. Manufacturing sheet metal cans. 2,327,437; Aug. 24.
Krotz, Alvin S., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Sectional track block. 2,327,909; Aug. 24.
Krupp, Louis, Brooklyn, assignor to Bernard Chavin and Louis Krupp, co-partners, doing business as Chavin and Krupp, New York, N. Y. Handbag. 2,327,532; Aug. 24.
Kuhn, George F., Hammond, Ind., assignor to Sinclair Refining Company, New York, N. Y. Catalytic cracking apparatus. 2,327,438; Aug. 24.
Kurman, Nathan A., Woodside, N. Y. Relay. 2,327,533; Aug. 24.
Kyrides, Lucas P., Webster Groves, assignor to Monsanto Chemical Company, St. Louis, Mo. Plastic composition for laminated glass interlayers. 2,327,652; Aug. 24.
Lambert, Pierre, New Rochelle, assignor to The Lummus Company, New York, N. Y. Distillation. 2,327,534; Aug. 24.
Lamberty, Frederick R. (See Bascom, H. M., and Lamberty.)
Lane Company, The. (See Crocker, Ernest C., assignor.)
Lapp Insulator Company. (See Stettinius, K. E., and Dewey, assignors.)
Larson, Carl U. (See Zinkil, R. H., Larson, and Hansen.)
Laurenson, Robert M. (See Blosser, H. G., and Laurenson.)
Laystrom, Carl A., et al. (See Barna, Joseph W., assignor.)
Lea Manufacturing Co., The. (See Jarm, E. C., and Verzier, assignors.)
Leemhuis, Johannes C. P., Los Angeles, Calif., assignor, by mesne assigments, to Edward J. Donaldson, Johannesburg, Transvaal, Union of South Africa. Molding. 2,327,439; Aug. 24.
Levaggi, Andrew, Dubuque, Iowa. Manufacture of mirrors. 2,327,723; Aug. 24.
Levering, John A. (See Creely, J. W., and Levering.)
Levine, Arthur E., et al. (See Levine, Morton, assignor.)
Levine, Herbert, et al. (See Levine, Morton, assignor.)
Levine, Morton, Richmond Hill, assignor to Herbert Levine and Arthur E. Levine, jointly, Brooklyn, N. Y. Beverage cooling apparatus. 2,327,910; Aug. 24.
Libby Glass Company. (See Schutz, Harold R., assignor.)
Lieber, Eugene, Staten Island, N. Y., and H. T. Rice, Roselle, N. J., assignor to Standard Oil Development Company. Lubricating composition. 2,327,535; Aug. 24.
Lilienfeld, Antonie, administratrix. (See Lilienfeld, Leon.)
Lilienfeld, Leon, deceased, late of Vienna, Germany, by Emerich Hunna, executor, Vienna, Germany, Antonie Lilienfeld, administratrix, assignor to Lilienfeld Patents Inc., Boston, Mass. Cellulose derivative and making same. 2,327,911; Aug. 24.
Lilienfeld, Leon, deceased, late of Vienna, Germany, by Emerich Hunna, Vienna, Germany, executor, Antonie Lilienfeld, administratrix, assignor to Lilienfeld Patents Inc., Boston, Mass. Dressing of fabrics and and artificial structures. 2,327,912; Aug. 24.
Lilienfeld Patents Inc. (See Lilienfeld, Leon, assignor.)
Lilja, Edgar D., assignor to Barber-Colman Company, Rockford, Ill. Voltage regulator system. 2,327,357; Aug. 24.
Linde Air Products Company, The. (See Aitchison, R. B., Swartout, and Williams, assignors.)
Linde Air Products Company, The. (See Burch, Charles J., assignors.)
Linde Air Products Company, The. (See Burch, C. J., and Edwards, assignors.)
Linde Air Products Company, The. (See Burch, C. J., and Smith, assignors.)
Linde Air Products Company, The. (See Craig, James R., assignor.)
Linde Air Products Company, The. (See Rice, Phillip K., assignor.)
Lindgren, Frank A., Western Springs, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill. Kerf-cutting machine. 2,327,724; Aug. 24.
Lipe, W. C., Inc. (See Mariotte, Eugene S., assignor.)
Lisle, Elmer, Milwaukee, Wis. Pneumatic cartridge and gun. 2,327,653; Aug. 24.
Locke, James S., Park Ridge, Ill., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Gas fired air conditioning system. 2,327,536; Aug. 24.
Lockheed Aircraft Corporation. (See Gerber, John, assignor.)
Logemann, Clarence L., Milwaukee, Wis. Shoe machinery. 2,327,806; Aug. 24.
London, Lon, Burley, Idaho. Self-feeding extruder 2,327,725; Aug. 24.
Long, Armistead R., Fayetteville, W. Va., and J. B. Long, United States Navy, Portsmouth, Va. Mine hoistway cage. 2,327,913; Aug. 24.
Long, John B. (See Long, A. R. and J. B.)

Loose, Kenneth D., Bronxville, N. Y., and Charles W. Watkins, Dayton, Ohio, assignors to Loose-Wiles Biscuit Company. Baker's band oven. 2,327,727; Aug. 24.

Loose-Wiles Biscuit Company. (See Loose, K. D., and Watkins, assignors.)

Lose, Charles, Jr., Cranford, N. J. Filter bed cleaning. 2,327,726; Aug. 24.

Lotter, William, Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo. Booster burner. 2,327,807; Aug. 24.

Lowe, Wesley G., and G. J. Clarke, assignors to Eastman Kodak Company, Rochester, N. Y. Photographic emuisions for spraying upon surfaces and its application. 2,327,808; Aug. 24.

Lumenus Company, The. (See Lambert, Pierre, assignor.)

Lundberg, Gustave E. (See Scarratt, A. W., and Lundberg.)

Lyman, Wendell G., Brooklyn, assignor to D. P. Harris Hardware & Manufacturing Co. Inc., New York, N. Y. Bicycle basket. 2,327,537; Aug. 24.

Lynch, Joseph A., Middletown, N. Y. Material mixing device. 2,327,914; Aug. 24.

MacCordy, Charles A., Fulton, N. Y. Parking meter. 2,327,538; Aug. 24.

MacDonald, Charles, Evanston, Ill., J. W. McNairy, Bridgeport, Conn., and J. F. Tritle, Erie, Pa., assignors to General Electric Company. Motor control system. 2,327,809; Aug. 24.

Machin, Willis H., Middlebury, Conn., assignor, by mesne assignments, to General Aniline & Film Corporation. Tripod and other constructions. 2,327,728; Aug. 24.

Mackay Radio and Telegraph Company. (See Alford, Andrew, assignor.)

Mackey, Alexander S., Ottawa, Ontario, Canada. Seal. 2,327,915; Aug. 24.

Mackintosh, Charles, Los Angeles, Calif. Heel connection. 2,327,655; Aug. 24.

Maier, Emilio, Ramos Mejia, Argentina. Wire belt joint. 2,327,729; Aug. 24.

Maize, Paul F., assignor to Briggs Manufacturing Company, Detroit, Mich. Bending machine. 2,327,440; Aug. 24.

Mallina, Rudolph F., Hastings on Hudson, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Switching mechanism. 2,327,730; Aug. 24.

Mandell, Irving F. (See Koch, L. B., and Mandell.)

Manson, Frank G., and J. J. Maskey Dayton, Ohio. Variable form parachute pack. 2,327,358; Aug. 24.

Manson, Frank G., and J. J. Maskey, Dayton, Ohio. Aerial delivery apparatus. 2,327,359; Aug. 24.

Margolin, Meyer, Elgin, Ill. Insole and outer sole combination. 2,327,360; Aug. 24.

Margolin, Meyer, Elgin, Ill. Resilient ventilated insole and middle sole. 2,327,361; Aug. 24.

Mariotte, Eugene S., North Syracuse, assignor to W. C. Lipe, Inc., Syracuse, N. Y. Breech loading bar stock mechanism for automatic metalworking machines. 2,327,916; Aug. 24.

Marong, Michael P., Warsaw, N. Y. Windshield defroster attachment. 2,327,917; Aug. 24.

Marshall, William, assignor to Briggs Manufacturing Company, Detroit, Mich. Door lock. 2,327,441; Aug. 24.

Marsico, Sisto E., Aspinwall, Pa. Fungicide and making the same. 2,327,812; Aug. 24.

Marx, Louis, & Company. (See Daily, William J., assignor.)

Maskey, James J. (See Manson, F. G., and Maskey.)

Mason-Neilan Regulator Co. (See Hubley, Earl A., assignor.)

Matheny, Willard R., assignor to N. F. Harnly, Chicago, Ill. Gasket construction and mounting same. 2,327,541; Aug. 24.

Mathews, W. N., Corporation. (See Brown, K. R., Cooley, and Wefeler, assignors.)

Matteson, Harold J., assignor to General Controls Co., Glendale, Calif. Refrigerant control valve. 2,327,542; Aug. 24.

Matthews & Yates Limited. (See Haber, Eugene J., assignor.)

McAlister, Edward D., Montgomery County, Md., assignor to Standard Oil Development Company. Apparatus for gas analysis. 2,327,539; Aug. 24.

McAnerney, Joseph A., New York, N. Y., assignor to Electric Vacuum Cleaner Company, Inc. Vacuum cleaner. 2,327,810; Aug. 24.

McCarthy, Edmund, Tenafly, N. J. Domestic heater. 2,327,442; Aug. 24.

McCartney, William J., Birmingham, Ala. Coupling. 2,327,604; Aug. 24.

McClary, Archie W., Oakland, Calif. Fabricating metal drums. 2,327,731; Aug. 24.

McDonald, Joseph S., and W. E. A. Ruska, Houston, Tex., assignors to Well Tool Development Corporation. Improvement in well tools. 2,327,362; Aug. 24.

McIntosh, Robert D., River Forest, assignor to The Imperial Brass Manufacturing Company, Chicago, Ill. Fitting guard for valves. 2,327,654; Aug. 24.

McKay Machine Company. (See Johnston, Dwight A., assignor.)

McKinley, Joseph B. (See Stevens, D. R., and McKinley.)

McKinnis Foods. (See McKinnis, Ronald B., assignor.)

McKinnis, Ronald B. (See McKinnis, Ronald B., assignor.)

McKinnis, Ronald B., assignor, by mesne assignments, to R. B. McKinnis, doing business as McKinnis Foods, Winter Haven, Fla. Filling method. 2,327,732; Aug. 24.

McMillan, Frank M. (See de Simó, M., and McMillan.)

McNairy, Jacob W. (See MacDonald, C., McNairy, and Tritle.)

McQueen, Simon T. (See Davidson, A., Chapman, McQueen, and Payman.)

McQuiston, Raymond C., West Newton, assignor to Tanide Products Incorporated, Watertown, Mass. Manufacture of substitute leather. 2,327,540; Aug. 24.

McRae, Daniel B., assignor to Eastman Kodak Company, Rochester, N. Y. Engraving machine. 2,327,811; Aug. 24.

Meek, John B., assignor to The Buckeye Forging Company, Cleveland, Ohio. Container. 2,327,656; Aug. 24.

Mehl, Fred J., assignor of thirty-seven and one-half per cent to U. G. Charles and twenty-five per cent to G. C. Boling, Wichita, Kans. Safety razor. 2,327,363; Aug. 24.

Mellor Bromley & Co. Limited. (See Bromley, T. C., and Shortland, assignor.)

Merit Engineering, Inc. (See Stevenson, R., and Keema, assignors.)

Metals & Controls Corporation. (See Bolesky, John D., assignor.)

Metzner, Albert W. (See Sherman, J. Q., and Metzner.)

Middleton, Leon, Quitaque, Tex. Area measuring device. 2,327,657; Aug. 24.

Miller, Howard A. (See Russell, H. D., and Miller.)

Miller, Leonidas C., assignor of one-half to Eastman Oil Well Survey Company, Dallas, Tex., and one-half to Eastman Oil Well Survey Corporation, Long Beach, Calif. Methods of and means for orienting tools in well bores. 2,327,658; Aug. 24.

Miller, Leonidas C., assignor of one-half to Eastman Oil Well Survey Company, Dallas, Tex., and one-half to Eastman Oil Well Survey Corporation, Long Beach, Calif. Reading instrument. 2,327,659; Aug. 24.

Miller, Robert A., Tarentum, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Heat rejecting glass. 2,327,918; Aug. 24.

Millspaugh, Herman L., Seattle, Wash. Illuminating device for house numbers. 2,327,443; Aug. 24.

Minneapolis-Honeywell Regulator Company. (See Locke, James S., assignor.)

Minneapolis-Honeywell Regulator Company. (See Newton, Alwin B., assignor.)

Minton, Ogden, assignor to He-Li-Po, Inc., Greenwich, Conn. Electrical apparatus and its operation. 2,327,364; Aug. 24.

Mitchell, Robert, Co., Limited, The. (See Woefel, Harold M., assignor.)

Modern Inventions Corporation. (See de Jong, Herman, assignor.)

Monsanto Chemical Company. (See Carswell, Thomas S., assignor.)

Monsanto Chemical Company. (See Esselen, Gustavus J., assignor.)

Monsanto Chemical Company. (See Kyrides, Lucas P., assignor.)

Montgomery, Francis E., Washington, D. C. Field stretcher. 2,327,919; Aug. 24.

Moohl, Johan G., Cleveland Heights, assignor to The Motch & Merryweather Machinery Company, Cleveland, Ohio. Metal sawing machine. 2,327,920; Aug. 24.

Moohl, Johan G., Cleveland Heights, assignor to The Motch & Merryweather Machinery Company, Cleveland, Ohio. Metal sewing machine stock feed mechanism. 2,327,921; Aug. 24.

Moor, Herbert H., Moore Township, Ontario, Canada, assignor to Standard Oil Development Company. Rotary filter. 2,327,543; Aug. 24.

Moore, Frederick T., deceased, West Hartford, by Phoenix State Bank and Trust Co., administrator, assignor, by mesne assignments, to Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn. Cartridge guide for automatic machine guns. 2,327,922; Aug. 24.

Moore, Walter B., Coshocton, Ohio. Film developing tank. 2,327,733; Aug. 24.

Morey, Glen H., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Keto sulphides and making same. 2,327,966; Aug. 24.

Morgan Construction Company. (See Morgan, Myles, assignor.)

Morgan, Myles, assignor to Morgan Construction Company, Worcester, Mass. Cooling bed. 2,327,734; Aug. 24.

Morris, David M., Richmond, Ind., assignor to International Harvester Company. Feed cup for grain drills. 2,327,923; Aug. 24.

Morton, Allen W., Baltimore, Md., assignor to Koppers Company, Pittsburgh, Pa. Piston ring expander. 2,327,934; Aug. 24.

Moseman, John W., Bethesda, Md. Container for bombs. 2,327,365; Aug. 24.

Motch & Merryweather Machinery Company, The. (See Moohl, Johan G., assignor.)

Mounts, Wilfred V., Stratford, Conn., assignor to Remington Arms Company, Inc. Multipart rivet. 2,327,924; Aug. 24.

Munitions, Incorporated. (See Firing, Fritz E., assignor.)

Myers, Joseph W., assignor to Proctor & Schwartz, Inc., Philadelphia, Pa. Electrical system. 2,327,925; Aug. 24.

Nadeau, Gale F., and W. M. Tucker, assignors to Eastman Kodak Company, Rochester, N. Y. Photographic solution. 2,327,813; Aug. 24.

Nadeau, Gale F., and A. J. Gould, assignors to Eastman Kodak Company, Rochester, N. Y. Manufacture of photographic film supports. 2,327,814; Aug. 24.

Nampa, Sulo M., Detroit, Mich., assignor to Grade Crossing Guard Corporation, Memphis, Tenn. Crossing protective system. 2,327,366; Aug. 24.

Napoli, John, Monterey, Calif. Marine vessel. 2,327,660; Aug. 24.

National Colortype Company, The. (See Ryder, Charles D., assignor.)

National Foam System, Inc. (See Boerner, L. W., and Hogenmiller, assignors.)

National Supply Company, The. (See Shaw, W. A., and Hodge, assignors.)

National Supply Company, The. (See Spalding, John D., assignor.)

National Telephone Supply Company, The. (See Klein, Charles H., assignor.)

National Telephone Supply Company, The. (See Warner, O. P., and Stuart, assignors.)

Nelson, Herman, Corporation, The. (See Otis, Gerald E., assignor.)

Neunherz, Herbert W., Gardner, Mass. Trip lock. 2,327,735; Aug. 24.

Newton, Alwin B., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Air conditioning system. 2,327,544; Aug. 24.

Nicholl, Leonard. (See Bitler, W. P., and Nicholl.)

Niedercorn, Joseph G., Riverside, and W. O. Dawson, Greenwich, Conn., assignors to American Cyanamid Company, New York, N. Y. Aluminum salt of hydroxy carboxylic acids. 2,327,815; Aug. 24.

Nigbor, Thomas A., Whitefish Bay, assignor to Howard Mfg. Co., Milwaukee, Wis. Dispensing apparatus and faucet. 2,327,444; Aug. 24.

Nill, Edward A., Detroit, Mich. Dewaxing oil. 2,327,445; Aug. 24.

Norton Company. (See Alvord, Charles C., assignor.)

Norton Company. (See Kistler, Samuel S., assignor.)

Novy, Loretta, assignor to Weil-Kalter Manufacturing Company, St. Louis, Mo. Garment. 2,327,661; Aug. 24.

Novy, Loretta, assignor to Weil-Kalter Manufacturing Company, St. Louis, Mo. Garment. 2,327,662; Aug. 24.

Nowak, Leon J., Jr., Chicago, Ill. Material handling and weighing machine. 2,327,367; Aug. 24.

Oakley, Eugene H., Richmond, and Lloyd F. Brooke, Berkeley, assignors to Standard Oil Company of California, San Francisco, Calif. Reaction of hydrocarbons. 2,327,926; Aug. 24.

O'Brien, Frank J., Pelham, assignor to Continental Can Company, Inc., New York, N. Y. Self-heating food container. 2,327,447; Aug. 24.

Ohio Brass Company, The. (See Bovard, Floyd G., assignor.)

Ohio Brass Company, The. (See Dunn, Thomas H., assignor.)

Ohio State University Research Foundation, The. (See Stone, K. L., and Pool, assignors.)

Ohlsson, Ernst. (See Isermann, S., and Ohlsson.)

Olive, Charles E., Drummondville, Quebec, Canada, assignor to Celanese Corporation of America. Speed control for squeeze rolls. 2,327,448; Aug. 24.

Olpin, Henry C. (See House, K. R., and Olpin.)

Olsen, Olaf C. (See Hagstrom, J. E., and Olsen.)

Olson, John, Detroit, Mich. Toggle pliers. 2,327,368; Aug. 24.

Olson, Vernon F., Zumbrota, Minn. Toilet paper roll holder. 2,327,816; Aug. 24.

Oravec, Emil G., assignor to Crane Co., Chicago, Ill. Flush valve. 2,327,545; Aug. 24.

Orelind, John R., Canton, Ill., assignor to International Harvester Company. Roll over plow. 2,327,927; Aug. 24.

Ortgies, Raymond C., Chicago, assignor to Whiting Corporation, Harvey, Ill. Drop-pit apparatus. 2,327,446; Aug. 24.

Osborn, William H., New York, and J. R. Smith, Flushing, assignors to Phelps Dodge Corporation, New York, N. Y. Recovery of antimony. 2,327,546; Aug. 24.

Osborne, Fred H. (See Hull, C. J., and Osborne.)

Osgood, Charles F., Claremont, N. H., assignor to Sullivan Machinery Company. Mining apparatus. 2,327,928; Aug. 24.

Otis, Gerald E., assignor to The Herman Nelson Corporation, Moline, Ill. Heating and ventilating apparatus. 2,327,663; Aug. 24.

Otis, Gerald E., assignor to The Herman Nelson Corporation, Moline, Ill. Method of and apparatus for air conditioning. 2,327,664; Aug. 24.

Owen Silent Spring Company, The. (See Sternberg, Huot W., assignor.)

Owen Silent Spring Company, The. (See Sternberg, H. W., and Smith, assignors.)

Owen, William. (See Halbach, H. L., Koupal, and Owen.)

Owens-Illinois Glass Company. (See Fedorchak, William J., assignor.)

Owens-Illinois Glass Company. (See Shillinger, Clare B., assignor.)

Parke, Davis & Company. (See Henze, Henry R., assignor.)

Parker, Arthur L., Cleveland, Ohio. Conduit fitting. 2,327,449; Aug. 24.

Parker, Arthur La Rue, Cleveland, Ohio. Liquid sealing compound. 2,327,450; Aug. 24.

Parry, Frank, Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Stitch-forming mechanism for sewing machines. 2,327,817; Aug. 24.

Patent Button Company, The. (See Hart, D. S., and Cronk, assignors.)

Patent Button Company, The. (See Purinton, Forrest G., assignor.)

Paulson, Henry C., Elizabeth, N. J., assignor to Standard Oil Development Company. Refining of petroleum oils. 2,327,547; Aug. 24.

Payman, Joseph. (See Davidson, A., Champan, McQueen, and Payman.)

Pearlman, Abram J., Chicago, Ill. Jacket crown. 2,327,548; Aug. 24.

Pearson, Ernest W., Middletown, Conn. Golf bag support. 2,327,736; Aug. 24.

Peat, Roy L., assignor, by mesne assignments, to Max Factor & Co., Los Angeles, Calif. Die construction. 2,327,665; Aug. 24.

Peck, Robert L., Jr., Short Hills, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Two-step relay. 2,327,549; Aug. 24.

Pendergast, Thomas S., Marion, Ohio, assignor to Universal Cooler Corporation. Air conditioning apparatus. 2,327,737; Aug. 24.

Perrine, Lester E., Highland Park, assignor to General Motors Corporation, Detroit, Mich. Air conditioner. 2,327,451; Aug. 24.

Perry, Eugene L., Bloomfield, N. J., assignor to Universal Winding Company, Cranston, R. I. Textile core. 2,327,738; Aug. 24.

Peters, Carl E., assignor to B-L Electric Company, St. Louis, Mo. Selenium rectifier. 2,327,739; Aug. 24.

Peters, Peter N., New York, N. Y. Safety razor. 2,327,967; Aug. 24.

Peterson, Carl D., and E. J. Barth, assignors to Spicer Manufacturing Corporation, Toledo, Ohio. Gear shifting mechanism. 2,327,550; Aug. 24.

Peterson, Charles W., assignor to Eastman Kodak Company, Rochester, N. Y. Illuminating means for enlargers. 2,327,818; Aug. 24.

Peterson, Viggo, Brooklyn, N. Y. Combined clock and lamp. 2,327,666; Aug. 24.

Petroleum Heat and Power Company. (See Thoresen, Ralph S., assignor.)

Petty, Floyd T., Westfield, Mass. Mop head and frame therefor. 2,327,551; Aug. 24.

Pfeiffer, William C., assignor to The Egry Register Company, Dayton, Ohio. Pinwheel register. 2,327,667; Aug. 24.

Ffister, Pierre, Sonceboz, Switzerland. Change speed gear for three graduated speed ratios. 2,327,740; Aug. 24.

Phelps Dodge Corporation. (See Osborn, W. H., and Smith, assignors.)

Phillips Petroleum Company. (See Frey, Frederick E., assignor.)

Phillips Petroleum Company. (See Frey, F. E., and Hepp, assignors.)

Phoenix State Bank and Trust Co., administrator. (See Moore, Frederick T.)

Pittsburgh Plate Glass Company. (See Campbell, Walter E., assignor.)

Pittsburgh Plate Glass Company. (See Galey, Henry J., assignor.)

Pittsburgh Plate Glass Company. (See Halbach, H. L., Koupal, and Owen, assignors.)

Pittsburgh Plate Glass Company. (See Miller, Robert A., assignor.)

Pittsburgh Plate Glass Company. (See West, George L., assignor.)

Plepp, Gaston. (See Fink, H., and Plepp.)

Poehling, Henry J., assignor to Day-Brite Lighting, Inc., St. Louis, Mo. Fluroescent safety lighting fixture. 2,327,552; Aug. 24.

Pool, Marion L. (See Stone, K. L., and Pool.)

Poole, Asby T., Greybull, Wyo. Buckle. 2,327,741; Aug. 24.

Ponselle, Robert A., New York, N. Y. Vacuum cleaner. 2,327,553; Aug. 24.

Potts, Louis M., Evanston, assignor to Teletype Corporation, Chicago, Ill. Telegraph signal translating system and apparatus. 2,327,369; Aug. 24.

Powers, William E., Dayton, Ohio. Ash tray. 2,327,452; Aug. 24.

Premier Crystal Laboratories, Inc. (See Bach, Henry M., assignor.)

Presser, Eric A. F., Hammond, Ind. Helical marine propeller. 2,327,453; Aug. 24.
Proctor & Schwartz, Inc. (See Myers, Joseph W., assignor.)
Proctor & Schwartz, Incorporated. (See Tiers, Louis P., assignor.)
Products Development, Inc. (See Abernathy, David W., assignor.)
Pro-phy-lac-tic Brush Company. (See Dahle, Joseph, assignor.)
Prosperity Company, The. (See Braun, Philip N., assignor.)
Prutzman, Paul W. (See Vogel, Willard L., assignor.)
Pullin, Cyril G., Genista, Newton Mearns, Scotland, assignor to Autogiro Company of America, Willow Grove, Pa. Rotary wing aircraft. 2,327,370; Aug. 24.
Punte, William F., Syracuse, assignor to Continental Can Company, Inc., New York, N. Y. Padless crown cap. 2,327,454; Aug. 24.
Punte, William F., Syracuse, assignor to Continental Can Company, Inc., New York, N. Y. Padless crown cap. 2,327,455; Aug. 24.
Punte, William F., Syracuse, assignor to Continental Can Company, Inc., New York, N. Y. Container with closure locking band. 2,327,456; Aug. 24.
Purdue Research Foundation. (See Degering, E. F., and Sprang, assignors.)
Purinton, Forrest G., assignor to The Patent Button Company, Waterbury, Conn. Snap fastener. 2,327,554; Aug. 24.
Purinton, Forrest G., assignor to The Patent Button Company, Waterbury, Conn. Fastener. 2,327,555; Aug. 24.
Purinton, Forrest G., assignor to The Patent Button Company, Waterbury, Conn. Fluted shank fastener. 2,327,556; Aug. 24.
Quayle, George, Philadelphia, Pa., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Skid platform. 2,327,847; Aug. 24.
Quigley, James B., Hammond, Ind., assignor to Graver Tank & Mfg. Co., Inc. Welding machine. 2,327,929; Aug. 24.
Radio Corporation of America. (See Eddy, William C., assignor.)
Radio Corporation of America. (See Hooven, Frederick J., assignor.)
Radio Patents Corporation. (See Rath, Karl, assignor.)
Ranney, Boivin C., Gahanna, Ohio. Sod cutter. 2,327,930; Aug. 24.
Raisch, Arthur, Royal Oak, assignor to Sanozone Corporation, Detroit, Mich. Apparatus for treating urine. 2,327,457; Aug. 24.
Rath, Karl, assignor to Radio Patents Corporation, New York, N. Y. Glow discharge switch. 2,327,557; Aug. 24.
Ratner, Isabelle. (See Ratner, Morris B., assignor.)
Ratner, Morris B., Phoenix, Ariz., assignor to Isabelle Ratner. Method and apparatus for forming air-celled steering wheel cushions. 2,327,931; Aug. 24.
Rawlinson, John A. (See Gabriel, L. G., and Rawlinson.)
Reavis, Charles N., Raleigh, N. C. Automatic ignition cutoff system. 2,327,558; Aug. 24.
Reavis, Charles N., assignor of two-thirds to Silas B. Coley, Raleigh, N. C. Emergency and parking brake. 2,327,559; Aug. 24.
Refining, Inc. (See Clayton, Benjamin, assignor.)
Refining, Inc. (See Thurman, Benjamin H., assignor.)
Reid & Sigrist Limited. (See Crew, David, assignor.)
Relfe, John N., Montgomery, Ala., assignor to American Telephone and Telegraph Company. Testing system. 2,327,458; Aug. 24.
Remington Arms Company, Inc. (See Calhoun, Gordon M., assignor.)
Remington Arms Company. (See Coxe, Charles D., assignor.)
Remington Arms Company. (See Grace, R. H., and Walker, assignors.)
Remington Arms Company. (See Hodgson, J. H., Balder, and James, assignors.)
Remington Arms Company. (See Mounts, Wilfred V., assignor.)
Remington Arms Company. (See Slater, Raymond E., assignor.)
Remington Arms Company. (See Whipple, Ernest G., assignor.)
Rempel, Dietrich G., assignor to The Sun Rubber Company, Barberton, Ohio. Apparatus for stenciling articles. 2,327,668; Aug. 24.
Rice, Harry T. (See Lieber, E., and Rice.)
Rice, Philip K., Kenmore, N. Y., assignor to The Linde Air Products Company. Process of and apparatus for separating gas mixtures. 2,327,459; Aug. 24.
Richard, Joseph O., Detroit, Mich. Pressed sheet metal hook and forming same. 2,327,669; Aug. 24.
Ripper, Kurt E., Bronxville, assignor to American Cyanamid Company, New York, N. Y. Porous Xerogel. 2,327,968; Aug. 24.
Robeson, William S., Detroit, Mich. Self-adjusting brake. 2,327,819; Aug. 24.
Robinson, Herbert, et al. (See Ezrol, E., assignor.)
Rockwood Sprinkler Company. (See Kendall, H. C., and Freeman, assignors.)
Rogers, Stephen C., Marblehead, Mass., assignor to General Electric Company. Light projector. 2,327,820; Aug. 24.
Roko Corporation. (See Coberly, Clarence J., assignor.)
Rose, William H., Jersey City, N. J. Powder dispenser. 2,327,560; Aug. 24.
Rosenberg, Philip, New York, N. Y. Bin. 2,327,742; Aug. 24.
Rosenberg, Philip, New York, N. Y. Sectional table. 2,327,743; Aug. 24.
Ross, William E., and J. Anderson, Berkeley, assignor to Shell Development Company, San Francisco, Calif. Isomerizing hydrocarbons. 2,327,670; Aug. 24.
Rowe, Oliver R., assignor of one-half to R. H. Bouligny, Charlotte, N. C. Trailer derrick. 2,327,461; Aug. 24.
Roy, William O., Outremont, Montreal, Quebec, Canada. Curling stone. 2,327,371; Aug. 24.
Ruben, Samuel, New Rochelle, N. Y. Dielectric for electrostatic condensers. 2,327,372; Aug. 24.
Ruben, Samuel, New Rochelle, N. Y. Electrodeposition of insulating material. 2,327,462; Aug. 24.
Rueb, Theodore O., assignor to The Sherman-Klove Co., Chicago, Ill. Universal joint friction attachment. 2,327,821; Aug. 24.
Rugeley, Edward W., Charleston, W. Va., assignor to Carbide and Carbon Chemicals Corporation. Stapling and crimping synthetic textile fibers. 2,327,460; Aug. 24.
Rupprecht, Joseph A., Seattle, Wash. Walker mechanism for invalids. 2,327,671; Aug. 24.
Ruska, Walter A. (See McDonald, J. S., and Ruska.)
Russell, Harold D., and H. A. Miller, assignors to Eastman Kodak Company, Rochester, N. Y. Reversal duplicating process. 2,327,822; Aug. 24.
Russell, Howard W., and Lloyd R. Jackson, Columbus, Ohio, assignors, by mesne assignments, to Heppenstall Company, Pittsburgh, Pa. Silver-containing free-machining die steel. 2,327,561; Aug. 24.
Russell, William W. (See Huey, H. I., Killam and Russell.)
Ryder, Charles D., assignor to The National Colortype Company, Bellevue, Ky. Fastening device. 2,327,605; Aug. 24.
Saltz, Clare F., Ypsilanti, Mich. Balancing rotating element. 2,327,606; Aug. 24.
Saltz, Clare F., Ypsilanti, Mich. Balancing rotating element. 2,327,607; Aug. 24.
Saltz, Clare F., Ypsilanti, Mich. Balancing rotating element. 2,327,608; Aug. 24.
Saltz, Clare F., Ypsilanti, Mich. Balancing rotating element. 2,327,609; Aug. 24.
Samiran, David, Fairfield, Ohio. Fuel system. 2,327,373; Aug. 24.
Sanford, Roy S., assignor to The Autoyre Company, Incorporated, Oakville, Conn. Hinge bracket for fixtures. 2,327,969; Aug. 24.
Sanford, Roy S., assignor to The Autoyre Company, Incorporated, Oakville, Conn. Bracket. 2,327,970; Aug. 24.
Sanozone Corporation. (See Raisch, Arthur, assignor.)
Sauerwein, Jack, Mollala, Oreg. Undercutter. 2,327,374; Aug. 24.
Savitz, Christian W., Los Angeles, Calif., assignor to Halliburton Oil Well Cementing Company, Duncan, Okla. Circulating valve. 2,327,610; Aug. 24.
Sayles Finishing Plants, Inc. (See Huey, H. I., Killam, and Russell, assignors.)
Scarratt, Albert W., Kenilworth, and G. E. Lundberg, Riverside, Ill., assignors to International Harvester Company. Internal combustion engine. 2,327,932; Aug. 24.
Schacht, William F., Huntington, Ind. Cattle marker. 2,327,823; Aug. 24.
Schacht, William F., Huntington, Ind. Cattle marker. 2,327,824; Aug. 24.
Schaff, Louis W., Jackson Heights, N. Y., assignor to Waldes Koh-I-Noor, Inc., Long Island City, N. Y. Slide fastener. 2,327,562; Aug. 24.
Schaufelberger, William F., Orange, N. J., assignor, by mesne assignments, to The Harvel Corporation. Composition of matter and method and steps of making and using the same. 2,327,563; Aug. 24.
Scheiwer, Albert T., Erie, Pa. Coupling. 2,327,611; Aug. 24.
Scherer, Robert P., Detroit, Mich. Anthelmintic composition. 2,327,564; Aug. 24.
Schering Corporation. (See Schwenk, E., assignor.)
Schering Corporation. (See Schwenk, E., and Fleischer, assignors.)
Schroeder, Charles S., Philadelphia, Pa., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Industrial truck. 2,327,848; Aug. 24.
Schrom, Oscar G. (See Barraja-Frauenfelder, J., and Schrom.)
Schürmann, Max O. (See Bestian, H., and Schürmann.)
Schütz, Edwin, assignor to Aktiengesellschaft Oederlin & Co., Baden, Switzerland. Rotary casting. 2,327,745; Aug. 24.
Schutz, Harold R., Toledo, Ohio, assignor to Libbey Glass Company. Apparatus for making glassware. 2,327,825; Aug. 24.
Schwab, Martin C., Chicago, Ill. Device for defense against the attack of highspeed torpedo boats. 2,327,463; Aug. 24.

Schweller, Edmund F., assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,327,672; Aug. 24.
Schwenk, Erwin, Montclair, assignor to Schering Corporation, Bloomfield, N. J. Hydrogenation products of Δ^5-estrone and preparing same. 2,327,376; Aug. 24.
Schwenk, Erwin and G. A. Fleischer, Montclair, assignors to Schering Corporation, Bloomfield, N. J. Isolating chorionic substances. 2,327,375; Aug. 24.
Scott, Lyle J., Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Automatic toll ticketing system. 2,327,466; Aug. 24.
Seat, Jay L., Portland, Conn. Safety airplane. 2,327,744; Aug. 24.
Seeburg, N. Marshall. (See Wallin, Fred E. A., assignor.)
Shattuck, Arthur W., Jr., Dallas, Tex., assignor to Koppers Company, Pittsburgh, Pa. Piston ring expander. 2,327,933; Aug. 24.
Shaw, William A., Los Angeles, and A. O. A. Hodge, Hermosa Beach, Calif., assignors to The National Supply Company, Pittsburgh, Pa. Union coupling. 2,327,464; Aug. 24.
Shearon, Will H., Jr. (See Fisher, W. E., and Shearon.)
Shell Development Company. (See de Simó, M., and McMillan, assignors.)
Shell Development Company. (See Ross, W. E., and Anderson, assignors.)
Shell Development Company. (See Shultz, Irving I., assignor.)
Shell Development Company. (See van den Berge, Jacob, assignor.)
Shepherd, Judson O'D, Atlanta, Ga. Pulse regenerator. 2,327,465; Aug. 24.
Sherman, John Q., and A. W. Metzner, Dayton, Ohio, said Metzner assignor to said Sherman, deceased, Katherine M. Sherman, William C. Sherman, and Wellmore B. Turner, executors. Paper feeding mechanism. 2,327,377; Aug. 24.
Sherman, Katherine M., et al., executors. (See Sherman, J. Q., and Metzner (assignor).)
Sherman-Klove Co., The. (See Rueb, Theodore O., assignor.)
Sherman, William C., et al., executors. (See Sherman, J. Q., and Metzner (assignor).)
Sherwood, Harold F., assignor to Eastman Kodak Company, Rochester, N. Y. Reproducing drawings. 2,327,826; Aug. 24.
Sherwood, Noble P., Dallas, assignor to Heuschober Engineering Corporation, Fort Worth, Tex. Internal combustion engine. 2,327,565; Aug. 24.
Shillinger, Clare B., Toledo, Ohio, assignor to Owens-Illinois Glass Company. Machine for making glass articles. 2,327,673; Aug. 24.
Shortland, Arthur. (See Bromley, T. G., and Shortland.)
Shultz, Irving I., assignor to Shell Development Company, San Francisco, Calif. Process and apparatus for catalytic conversion. 2,327,746; Aug. 24.
Silfen, Alfred, Berkeley, Ill. Lawn mower sharpener. 2,327,827; Aug. 24.
Silley, Arthur J. (See Unthank, G. R., and Silley.)
Simmons, Edward E., Jr., Pasadena, Calif. Explosion pressure gauge. 2,327,935; Aug. 24.
Simmons, Norwood L., assignor to Eastman Kodak Company, Rochester, N. Y. Colloidal carbon antihalation layer. 2,327,828; Aug. 24.
Sinclair Refining Company. (See Kuhn, George F., assignor.)
Singer Manufacturing Company, The. (See Clayton, Andrew B., assignor.)
Singer Manufacturing Company, The. (See Karle, John D., assignor.)
Singer Manufacturing Company, The. (See Parry, Frank, assignor.)
Singer Manufacturing Company, The. (See Zeier, Frederick F., assignor.)
Sirmay, Julius, assignor to Jacquard Knitting Machine Co., Inc., Philadelphia, Pa. Thread yarn feeder. 2,327,747; Aug. 24.
Skinner, Ralph L. (See Kasten, Walter, assignor.)
Slater, Raymond E., New Rochelle, N. Y., assignor to Remington Arms Company, Inc. Tube drawing apparatus. 2,327,936; Aug. 24.
Slayter, Games. (See Bennett, Willard H., assignor.)
Slepian, Joseph, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Power translating device. 2,327,971; Aug. 24.
Slusher, Frank, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Apparatus for vulcanizing endless belts. 2,327,566; Aug. 24.
Smart, John S., Jr. (See Smith, A .A., Jr., and Smart, Jr.)
Smith, Albert A., Jr., Metuchen, and J. S. Smart, Jr., Scotch Plains, assignors to American Smelting and Refining Company, New York, N. Y. Treating copper and product thereof. 2,327,378; Aug. 24.
Smith, Clayton O., assignor to O. S. Walker Co. Inc., Worcester, Mass. Universal work-holding plate for magnetic chucks. 2,327,748; Aug. 24.
Smith, George H. (See Burch, C. J., and Smith.)
Smith, Hiram P., Canton, Ill., assignor to International Harvester Company. Agricultural implement. 2,327,937; Aug. 24.
Smith, J. A., Company. (See Kaysing, Albert L., assignor.)
Smith, John R. (See Osborn, W. H., and Smith.)
Smith, S. Morgan, Company. (See Hilker, Earl E., assignor.)
Smith, Rudolph O. (See Sternberg, H. W., and Smith.)
Smyth, Harold T., assignor to Corhart Refractories Company, Louisville, Ky. Heat casting refractory blocks. 2,327,674; Aug. 24.
Snyder, Charles R., Miami Beach, Fla. Carburetor. 2,327,675; Aug. 24.
Southern Phosphate Corporation. (See Ellis, Edward J., assignor.)
Southern Steel Company. (See White, Loyd J., assignor.)
Spalding, John D., Los Angeles, Calif., assignor to The National Supply Company, Pittsburgh, Pa. Rotary draw works. 2,327,467; Aug. 24.
Special Equipment Company. (See Ewald, Mark, assignor.)
Spence, James W., New York, N. Y., assignor to Du-Repel Corporation, Indianapolis, Ind. Plating process. 2,327,676; Aug. 24.
Spicer Manufacturing Corporation. (See Peterson, C. D., and Barth, assignors.)
Sprang, Austin. (See Degering, E. F., and Sprang.)
Stalzer, Ferdinand M. (See Vesce, V. C., and Stalzer.)
Standard Oil Company of California. (See Oakley, E. H., and Brooke, assignors.)
Standard Oil Development Company. (See Antes, Leland L., assignor.)
Standard Oil Development Company. (See Boucher, Frank G., assignor.)
Standard Oil Development Company. (See Chapman, Thomas S., assignor.)
Standard Oil Development Company. (See Cohen, Charles A., assignor.)
Standard Oil Development Company. (See Frolich, P. K., and Kellog, assignors.)
Standard Oil Development Company. (See Herbst, Walter A., assignor.)
Standard Oil Development Company. (See Lieber, E., and Rice, assignors.)
Standard Oil Development Company. (See Jones, M. C. K., and Strickland, assignors.)
Standard Oil Development Company. (See McAlister, Edward D., assignor.)
Standard Oil Development Company. (See Moor, Herbert H., assignor.)
Standard Oil Development Company. (See Paulsen, Henry C., assignor.)
Starbuck, Ernest A., Peoria, Ill. Clamping furnaces to torches. 2,327,677; Aug. 24.
Sternberg, Huot W., Westport, assignor to The Owen Silent Spring Company, Inc., Bridgeport, Conn. Cable tied spring units. 2,327,749; Aug. 24.
Sternberg, Huot W., Westport, and R. O. Smith, Milford, assignors to The Owen Silent Spring Company, Inc., Bridgeport, Conn. Bed spring gauge. 2,327,829; Aug. 24.
Stettinius, Kenneth E., and B. F. Dewey, assignors to Lapp Insulator Company, Inc., Le Roy, N. Y. High strength ceramic surface. 2,327,972; Aug. 24.
Stevens, Donald R., Swissvale, and J. B. McKinley, assignors to Gulf Research & Development Company, Pittsburgh, Pa. Production of phenols and olefins. 2,327,938; Aug. 24.
Stevenson, Robert, and A. W. Keema, Providence, R. I., assignors to Merit Engineering, Inc. Loading valve. 2,327,830; Aug. 24.
Stewart, William D., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Preserving latex and product thereof. 2,327,940; Aug. 24.
Stewart, William D., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Heat-sterilizing fresh latex and product thereof. 2,327,939; Aug. 24.
Stocker, William M., Hollis, assignor to Cameron Machine Company, Brooklyn, N. Y. Severing webs. 2,327,468; Aug. 24.
Stone, Kathryn L., Vincennes, Ind., and M. L. Pool, assignors to The Ohio State University Research Foundation, Columbus, Ohio. Method of and apparatus for generating pictures of the fundus of the living eye. 2,327,612; Aug. 24.
Stovall, Gertrude, Los Angeles, Calif. Shield. 2,327,678; Aug. 24.
Stover, Herbert F., Brooklyn, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Eye structure for anchor rods. 2,327,567; Aug. 24.
Strang, Perry S., West Hartford, Conn., assignor to The Wiremold Company. Lighting fixture. 2,327,568; Aug. 24.
Streine Tool and Manufacturing Company, The. (See Kiefer, Joseph E., assignor.)
Strickland, Barney R. (See Jones, M. C. K., and Strickland.)
Strombeck Press, Inc. (See Edborg, Harold, assignor.)
Stuart, Frank. (See Warner, O. P., and Stuart.)
Sturtevant, B. F., Company. (See Hagen, Harold F., assignor.)
Sullivan Machinery Company. (See Osgood, Charles F., assignor.)
Sun-Kraft, Inc. (See Furedy, Frank, assignor.)
Sun Oil Company. (See Bagsar, Aaron B., assignor.)
Sun Rubber Company, The. (See Rempel, Dietrich G., assignor.)

Super Mold Corporation of California. (See Glynn, E. A., assignor.)
Sutton, Stanford M., Morristown, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Cable pulling attachment. 2,327,831; Aug. 24.
Swanson, Edwin C. (See Abramson, J. H., and Swanson.)
Swartout, Charles W. (See Aitchison, R. B., Swartout, and Williams.)
Swenson, Eskil W., Cherry Valley, Ill. Material spreader. 2,327,679; Aug. 24.
Symington-Gould Corporation. (See Barrows, D. S., and Blattner, assignors.)
Tanide Products Incorporated. (See McQuiston, Raymond C., assignor.)
Tauber, Rudolf, New York, N. Y. Closely wound coil binder. 2,327,941; Aug. 24.
Tavaris, Joseph G., Sutter Creek, assignor to American Legion Amador Post #108, Inc., Jackson, Calif. Loading apparatus for ambulances. 2,327,680; Aug. 24.
Taylor, Taylor & Hobson Limited. (See Warmisham, Arthur, assignor.)
Teitsma, William, assignor of one-third to H. De Haan and one-third to H. Dykstra, Paterson, N. J. Fishing rod and reel. 2,327,469; Aug. 24.
Teletype Corporation. (See Potts, Louis M., assignor.)
Terhune, Cornelius F., Kansas City, Mo. Centrifugal separator. 2,327,613; Aug. 24.
Thermek Corporation. (See Barrett, Harold G., assignor.
Thewalt, Adolf. (See Kaufmann, W., Flögel, Thewalt, and Ferschl.)
Thoma, Paul J. (See Erickson, D. R., and Thoma.)
Thomas, Charles L., assignor to Universal Oil Products Company, Chicago, Ill. Conversion of hydrocarbon oils. 2,327,973; Aug. 24.
Thomas, Willie, Greenwood, Miss. Rack. 2,327,379; Aug. 24.
Thoresen, Ralph S., Greenwich, Conn., assignor to Petroleum Heat and Power Company, New York, N. Y. Valve assembly. 2,327,942; Aug. 24.
Thurman, Benjamin H., Charlotte, N. C., assignor to Refining, Inc., Reno, Nev. Refining. 2,327,569; Aug. 24.
Tiers, Louis P., Wilmette, Ill., assignor to Proctor & Schwartz, Incorporated, Philadelphia, Pa. Drying cornstarch and similar materials. 2,327,943; Aug. 24.
Tiers, Ruth B., Chicago, Ill. Educational apparatus. 2,32,471; Aug. 24.
Tjaarda, John, assignor to Briggs Manufacturing Company, Detroit, Mich. Engine. 2,327,470; Aug. 24.
Tokheim Oil Tank and Pump Company. (See Waugh, Paul E., assignor.)
Toland, William C., and E. Bassist, Brookline, Mass., assignors to W. C. Toland, trustee. Negative element. 2,327,380; Aug. 24.
Toland, William C., trustee. (See Toland, W. C. ,and Bassist, assignors.)
Toubhans, René H., assignor to Century Motors Corporation, Dearborn, Mich. Apparatus for machining serrations in metallic bodies. 2,327,944; Aug. 24.
Tritle, John F. (See MacDonald, C., McNairy, and Tritle.)
Tucker, William M. (See Nadeau, G. F., and Tucker.)
Turner, Charles S., assignor to The Detroit Edison Company, Detroit, Mich. Superheating flash boiler. 2,327,750; Aug. 24.
Turner, Wellmore B., et al., executors. (See Sherman, J. Q., and Metzner (assignor).)
Ulrich, Theodore, Detroit, Mich., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Bolt spacer or reinforcing member. 2,327,585; Aug. 24.
Underwood Elliott Fisher Company. (See Helmond, William F., assignor.)
Union Switch & Signal Company, The. (See Ashby, Donald, assignor.)
Union Switch & Signal Company, The. (See Blosser, H. G., and Laurenson, assignors.)
United Air Lines Transport Corporation. (See Hucke, Herbert M., assignor.)
United Conveyor Corporation. (See Williams, Ray W., assignor.)
United Gas Improvement Company, The. (See Chaney, Newcomb K., assignor.)
United Shoe Machinery Corporation. (See Ashworth, Fred, assignor.)
United Shoe Machinery Corporation. (See Baker, Corwin W., assignor.)
United Shoe Machinery Corporation. (See Fossa, Joseph, assignor.)
United States Rubber Company. (See Adamson, Seth, assignor.)
United States Rubber Company. (See Bull, Arthur W., assignor.)
United States Rubber Company. (See Hurt, Victor H., assignor.)
Universal Cooler Corporation. (See Pendergast, Thomas S., assignor.)
Universal Oil Products Company. (See Day, Roland B., assignor.)
Universal Oil Products Company. (See Thomas, Charles L., assignor.)
Universal Winding Company. (See Perry, Eugene L., assignor.)
Unthank, George R., New Southgate, and A. J. Silley, London, England. Hook coupling. 2,327,751; Aug. 24.
Usher, Vernon C. (See Haugh, Raymond R., assignor.)
Van den Berge, Jacob, Amsterdam, Netherlands, assignor to Shell Development Company, San Francisco, Calif. Plastic puttylike asphalt composition and making same. 2,327,752; Aug. 24.
Vanderveer, Jewell W., Erie, Pa. Pole reinforcement device. 2,327,681; Aug. 24.
Van Dorn Iron Works Company, The. (See Farrar, Alvin J., assignor.)
Van Norman Machine Tool Company. (See Curtis, Frank W., assignor.)
Van Slyke, Leland M., North Hollywood, Calif. Adz attachment for hammers. 2,327,682; Aug. 24.
Verzier, Le Verne. (See Jarm, E. C., and Verzier.)
Vesce, Vincent C., Ridgewood, and F. M. Stalzer, assignors to Harmon Color Works, Inc., Haledon, N. J. Phthalocyanine pigment and preparing same. 2,327,472; Aug. 24.
Vogel, Carl P., assignor to Eastman Kodak Company, Rochester, N. Y. Web winding apparatus. 2,327,832; Aug. 24.
Vogel, Willard L., assignor of fifty per cent to P. W. Prutzman, Los Angelcs, Calif. Making metaldehyde. 2,327,570; Aug. 24.
Vollmer, Leslie W. (See zur Horst, C. G., Wescott, and Vollmer.)
Vulcan Soot Blower Corporation. (See Hibner, D. E., and Arey, assignors.)
Wagner, Gustav H. (See Wagner, H. A. and G. H.)
Wagner, Harold A., Portland, Oreg. Concrete mixer tower. 2,327,477; Aug. 24.
Wagner, Harold A. and G. H., Portland, Oreg. Concrete mixer. 2,327,473; Aug. 24.
Wagner, Harold A. and G. H., Portland, Oreg. Hoisting tower. 2,327,476; Aug. 24.
Waldes Koh-I-Noor, Inc. (See Schaaff, Louis W., assignor.)
Walker, Charles R., Jersey City, N. J., assignor to American Telephone and Telegraph Company. Selective telegraph system. 2,327,474; Aug. 24.
Walker, Isaac F. (See Grace, R. H., and Walker.)
Walker, O. S., Co. Inc. (See Smith, Clayton O., assignor.)
Wallace, Roger W. (See Fairbanks, H. N., and Wallace.)
Wallin, Fred E. A., assignor to N. M. Seeburg, Chicago, Ill. Apparatus for separating genuine from spurious coins. 2,327,945; Aug. 24.
Wallis, John W., Los Angeles, Calif. Pipe coupling. 2,327,571; Aug. 24.
Wallis, John W., Los Angeles, Calif. Pipe coupling. 2,327,572; Aug. 24.
Walsh, William J., assignor to Burlington Mills, Inc., Burlington, Wis. Rubber impregnated fibrous body of material and making the same. 2,327,573; Aug. 24.
Ward Leonard Electric Company. (See Kouyoumjian, Haroutium K., assignor.)
Ward, Willard H., St. Johnsbury, Vt., assignor to Fairbanks, Morse & Co., Chicago, Ill. Safety coupler. 2,327,946; Aug. 24.
Warmisham, Arthur, assignor to Taylor, Taylor & Hobson Limited, Leicester, England. Optical objective. 2,327,947; Aug. 24.
Warner, Otto P., and Frank S., Cleveland, Ohio, assignors to The National Telephone Supply Company. Wire holding device. 2,327,683; Aug. 24.
Warner, Russell A., Schenectady, N. Y., assignor to General Electric Company. Volt ampere measurement regulator. 2,327,833; Aug. 24.
Warrick, Charles F., Detroit, Mich., assignor of one-half to The Imperial Brass Manufacturing Company, Chicago, Ill. Relay mechanism. 2,327,684; Aug. 24.
Waterbury Farrel Foundry and Machine Company, The. (See Wilcox, Richard L., assignor.)
Watkins, Charles W. (See Loose, K. D., and Watkins.)
Watson, Edward F., Larchmont, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 2,327,478; Aug. 24.
Waugh, Paul E., assignor to Tokheim Oil Tank and Pump Company, Fort Wayne, Ind. Liquid dispensing device. 2,327,475; Aug. 24.
Weberg, William J., Chicago, Ill. Cushioning tool holder. 2,327,685; Aug. 24.
Webster, Clyde W., Silvis, Ill. Height gauge arm attachment for universal dial indicators. 2,327,948; Aug. 24.
Wefeler, Herbert H. (See Brown, K. R., Cooley, Wefeler.)
Weil-Kalter Manufacturing Company. (See Novy, Loretta, assignor.)
Well Tool Development Corporation. (See Couch, Lonnie E., assignor.)
Well Tool Development Corporation. (See McDonald, J. S., and Ruska, assignors.)
Wells, Carroll G., Washington, D. C. Glove. 2,327,381; Aug. 24.
Wescott, Blaine B. (See zur Horst, C. G., Wescott and Vollmer.)

West, George L., Pittsburgh, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Casket. 2,327,949; Aug. 24.
Western Cartridge Company. (See Blais, Emilien, assignor.)
Westinghouse Electric & Manufacturing Company. (See Kaufmann, W., Flögel, Thewalt and Ferschl, assignors.)
Westinghouse Electric & Manufacturing Company. (See Slepian, Joseph, assignor.)
White, Loyd J., assignor to Southern Steel Company, San Antonio, Tex. Fuel for gas generating and dispensing systems. 2,327,835; Aug. 24.
Whitehead, Ned, Los Angeles, Calif. Feeding mechanism for multiple printed forms. 2,327,480; Aug. 24.
Whipple, Ernest G., Stratford, Conn., assignor to Remington Arms Company, Inc. Projectile. 2,327,950; Aug. 24.
White, Charles H., assignor to Deere & Company, Moline, Ill. Disk harrow. 2,327,834; Aug. 24.
Whiting Corporation. (See Ortgies, Raymond C., assignor.)
Wilcox, Richard L., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Upsetting mechanism. 2,327,479; Aug. 24.
Wilcox, Russell I., Brookfield, assignor to Herbert C. Johnson, Wilmette, Ill. Automatic phonograph. 2,327,753; Aug. 24.
Willard, Ellery G., Johnstown, N. Y. Glove. 2,327,836; Aug. 24.
Williams, Howard O., Minneapolis, and A. A. Jens, assignors to Edward E. Johnson, Incorporated, St. Paul, Minn. Method of making deep well screens. 2,327,686; Aug. 24.
Williams, Ray W., Blue Island, Ill., assignor to United Conveyor Corporation. Gasket. 2,327,837; Aug. 24.
Williams, Virgil C. (See Aitchison, R. C., Swartout, and Williams.)
Williams, Howard O., Minneapolis, and A. A. Jens, assignors to Edward E. Johnson, Incorporated, St. Paul, Minn. Making deep well screens. 2,327,687; Aug. 24.
Willson, David S. (See Goldberg, M. J., and Willson.)
Winner Manufacturing Company. (See Hains, Daniel B., assignor.)
Wiremold Company, The. (See Strang, Perry S., assignor.)
Wirkler, Walter H., assignor to Collins Radio Company, Cedar Rapids, Iowa. Frequency modulation system. 2,327,382; Aug. 24.
Woelfel, Harold M., assignor to The Robert Mitchell Co. Limited, Montreal, Quebec, Canada. Preformed multipane glazing unit. 2,327,974; Aug. 24.
Wolf, Cecil R. (See Ferris, W. D., and Wolf.)
Wolfe, Bruce E., assignor to Hamilton Watch Company, Lancaster, Pa. Automatic feeding device. 2,327,849; Aug. 24.
Wood, John, Manufacturing Company. (See Dougherty, Robert J., assignor.)
Wood, John, Manufacturing Company, The. (See Goldberg, M. J., and Willson, assignors.)
Woodward Governor Company. (See Drake, George F., assignor.)
Wright, Arthur, Forest Hill, N. Y. Manufacture of umbrellas. 2,327,688; Aug. 24.
Wurlitzer, Rudolph, Company, The. (See Hull, C. J., and Osborne, assignors.)
Wyrick, Clayton E., assignor to The Egry Register Company, Dayton, Ohio. Collating machine. 2,327,689; Aug. 24.
Yale & Towne Manufacturing Company, The. (See Framhein, Herbert J., assignor.)
Yale & Towne Manufacturing Company, The. (See Quayle, George, assignor.)
Yale & Towne Manufacturing Company, The. (See Schroeder, Charles S., assignor.)
Young, Raymond P., Wrightsville, Pa. Egg dyeing apparatus. 2,327,754; Aug. 24.
Young, Stephen A. (See Beeke, H. F., and Young.)
Zaleske, Michael J., Union, N. J., assignor to Ideal Clamp Manufacturing Co., Inc., Brooklyn, N. Y. Coupling device. 2,327,951; Aug. 24.
Zaucker, Ewald, Schkopau, Germany; vested in the Alien Property Custodian. Vulcanizable polymerization product and producing same. 2,327,975; Aug. 24.
Zeier, Frederick F., Fairfield, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Thread-controlling mechanism for sewing machines. 2,327,838; Aug. 24.
Zimmerman, Fred R., assignor, by mesne assignments, to Dixie-Vortex Company, Chicago, Ill. Method and machine for forming blanks for paper receptacles. 2,327,952; Aug. 24.
Zinkil, Roy H., Oak Park, C. U. Larson, Berwyn, and G. E. Hansen, assignors to Crane Co., Chicago, Ill. Sanitary self-closing faucet. 2,327,574; Aug. 24.
Zur Horst, Clifford G., Hampton Township, Allegheny County, B. B. Wescott, Churchill, and L. W. Vollmer, assignors to Gulf Research & Development Company, Pittsburgh, Pa. Quenching of metals. 2,327,383; Aug. 24.
Zur Horst, Clifford G., Hampton Township, Allegheny County, B. B. Wescott, Churchill, and L. W. Vollmer, assignors to Gulf Research & Development Company, Pittsburgh, Pa. Quenching of metals. 2,327,976; Aug. 24.
Zur Horst, Clifford G., Hampton Township, Allegheny County, B. B. Wescott, Churchill, and L. W. Vollmer, assignors to Gulf Research & Development Company, Pittsburgh, Pa. Quenching of metals. 2,327,977; Aug. 24.
Zoder, Incorporated. (See Zoder, Orren E., assignor.)
Zoder, Orren E., assignor, by mesne assignments, to Zoder, Incorporated, St. Louis, Mo. Safety apparatus. 2,327,953; Aug. 24.
Zschokke, Hans, Zurich, assignor to Aktiengesellschaft Brown, Boveri & Cie, Baden, Switzerland. Turbine construction. 2,327,839; Aug. 24.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 24TH DAY OF AUGUST, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Support for milking machines. H. B. Babson and J. J. Stampen. Re. 22,368; Aug. 24.

LIST OF PLANT INVENTIONS

Chrysanthemum plant. H. R. Mosnat. 598; Aug. 24.
Rose plant. C. Mallerin. 599; Aug. 24.

LIST OF DESIGN INVENTIONS

Airplane. V. J. Burnelli. 136,249; Aug. 24.
Badge or similar article. G. A. Thoresen. 136,210; Aug. 24.
Band or the like, Hosiery. V. Lebow. 136,216; Aug. 24.
Book mark or similar article. H. S. Aaronson. 136,213; Aug. 24.
Bottle. R. M. Breeden. 136,219; Aug. 24.
Bottle. E. A. Hector. 136,224; Aug. 24.
Bowl for a coffee brewer, Upper. J. W. Alsdorf. 136,200; Aug. 24.
Cart, Merchandise. J. V. Accardi and G. E. Watts. 136,218; Aug. 24.
Comparator, Optical. L. H. Van Dellen. 136,212; Aug. 24.
Dish, Soap. H. I. Holton. 136,209; Aug. 24.
Dress. M. McCoy. 136,239–40; Aug. 24.
Dress. M. McCoy. 136,243–5; Aug. 24.
Dress. D. R. Sadowsky. 136,246; Aug. 24.
Dress. D. Westheim. 136,247; Aug. 24.
Dress. S. Zahn. 136,248; Aug. 24.
Fountain, Poultry watering drip. C. Brodsky. 136,201; Aug. 24.
Frame, Eyeglass. A. M. Levy. 136,203; Aug. 24.
Gauge, Pressure. E. H. Wittenberg. 136,205; Aug. 24.
Hat. S. Lish. 136,225; Aug. 24.
Hook or similar article. R. S. Gemmill. 136,228; Aug. 24.
Insole. W. C. Wright. 136,227; Aug. 24.
Jacket. B. Moye. 136,241–2; Aug. 24.
Moistener. O. Kaub. 136,215; Aug. 24.
Mold or similar article, Butter. J. L. Wade. 136,204; Aug. 24.
Necktie. M. Urdang. 136,229–38; Aug. 24.
Ornament, Automobile. J. B. Goodie. 136,220; Aug. 24.
Pencil, sandglass timer, and telephone dialer, Combined. E. C. and C. J. Collopy. 136,214; Aug. 24.
Pin, Ceramic brooch. E. Handler. 136,221–3; Aug. 24.
Rib for attachment to insoles, Sewing. W. C. Wright. 136,226; Aug. 24.
Server and toaster cover, Combination toast. R. I. Felver. 136,202; Aug. 24.
Teether. P. E. Allen. 136,206; Aug. 24.
Tieback, Mirror headed curtain. W. Lyons. 136,217; Aug. 24.
Torch, Acetylene. D. H. Black. 136,207; Aug. 24.
Tread member for shoes, V-shaped. H. and O. Ghez. 136,208; Aug. 24.
Trimming or similar article, Embroidered. H. Tobler. 136,211; Aug. 24.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 24TH DAY OF AUGUST, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrasive faced wheel. E. C. Jarm and L. Verzier. 2,327,900; Aug. 24.
Absorbent medium, Stripping enriched. G. S. Houghland. 2,327,896; Aug. 24.
Adz attachment for hammers. L. M. Van Slyke. 2,327,682; Aug. 24.
Aerial delivery apparatus. F. G. Manson and J. J. Maskey. 2,327,359; Aug. 24.
Agricultural implement. H. P. Smith. 2,327,937; Aug. 24.
Air conditioner. L. E. Perrine. 2,327,451; Aug. 24.
Air conditioning apparatus. T. S. Pendergast. 2,327,737; Aug. 24.
Air conditioning system. A. B. Newton. 2,327,544; Aug. 24.
Air conditioning system, Gas fired. J. S. Locke. 2,327,536; Aug. 24.
Aircraft fuselage construction. J. Gerber. 2,327,636; Aug. 24.
Air volume control. W. E. Kent. 2,327,601; Aug. 24.
Aircraft, Rotary wing. C. G. Pullin. 2,327,370; Aug. 24.
Alkanes, Nitration of. E. B. Hodge. 2,327,964; Aug. 24.
Aluminum salt of hydroxy carboxylic acids. J. G. Niedercorn and W. O. Dawson. 2,327,815; Aug. 24.
Aminophenols and the preparation thereof. J. B. Dickey and A. R. Gray. 2,327,773; Aug. 24.
Aminoplast, Plasticized. G. F. D'Alelio. 2,327,772; Aug. 24.
Aminotriazine-aldehyde-halogenated acetone condensation products. G. F. D'Alelio. 2,327,771; Aug. 24.
Ammunition. G. M. Calhoun. 2,327,867; Aug. 24.
Ammunition. J. H. Hodgson, J. R. Balder, and F. E. James. 2,327,894; Aug. 24.
Ammunition manufacture. R. H. Grace and I. F. Walker. 2,327,885; Aug. 24.
Anchor device, Dowel and tendon. C. Kaplan and H. Kittilsen. 2,327,527; Aug. 24.
Antenna, Broad band. A. Alford. 2,327,485; Aug. 24.
Antenna interaction compensating means. A. G. Kandoian. 2,327,435; Aug. 25.
Anthelmintic composition. R. P. Scherer. 2,327,564; Aug. 24.
Antimony, Recovery of. W. H. Osborn and J. R. Smith. 2,327,546; Aug. 24.
Apparatus for conversion of energy. W. H. Bennett. 2,327,588; Aug. 24.
Apparatus for electrodeposition. D. Ashby. 2,327,386; Aug. 24.
Apparatus for evaporating fluid materials. R. R. Haugh. 2,327,889; Aug. 24.
Apparatus for gas analysis. E. D. McAlister. 2,327,539; Aug. 24.
Apparatus for grading electrical resistances and articles comprising them. D. G. Ashcroft. 2,327,484; Aug. 24.
Apparatus for machining serrations in metallic bodies. R. H. Toubhans. 2,327,944; Aug. 24.
Apparatus for making metallic surfacing sheets. D. A. Johnston. 2,327,844; Aug. 24.
Apparatus for making visible index strips. H. J. Hopkins. 2,327,525; Aug. 24.
Apparatus for musical instruction. R. Knox, Jr. 2,327,907; Aug. 24.
Apparatus for reproducing threaded spangles. L. Brandt. 2,327,957; Aug. 24.
Apparatus for rock piercing and similar operations. R. B. Aitchison and C. J. Burch. 2,327,483; Aug. 24.
Apparatus for separating dust and other suspended matter from air and other gases or vapors. E. J. Haber. 2,327,886; Aug. 24.
Apparatus for separating genuine from spurious coins. F. E. A. Wallin. 2,327,945; Aug. 24.
Apparatus for stenciling articles. D. G. Rempel. 2,327,668; Aug. 24.
Apparatus for testing engine lubrication. L. R. Grandy. 2,327,419; Aug. 24.
Apparatus for treating hydrocarbon oils. A. B. Bagsar. 2,327,490; Aug. 24.
Apparatus for treating urine. A. Raisch. 2,327,457; Aug. 24.
Apparatus for vulcanizing endless belts. F. Slusher. 2,327,566; Aug. 24.
Apparatus for working mineral materials and the like. C. J. Burch and G. H. Smith. 2,327,497; Aug. 24.
Apparatus useful in directional well drilling. A. L. Armentrout. 2,327,693; Aug. 24.
Art of severing webs. W. M. Stocker. 2,327,468; Aug. 24.
Attachment for universal dial indicators, Height gauge arm. C. W. Webster. 2,327,948; Aug. 24.
Automatic feeding device. B. E. Wolfe. 2,327,849; Aug. 24.
Awning structure. S. A. Agee. 2,327,614; Aug. 24.
Axial ball or roller bearings. G. W. Fernström. 2,327,880; Aug. 24.
Balanced interrupter circuit. H. J. Brown. 2,327,576; Aug. 24.
Balanced interrupters system. H. J. Brown. 2,327,577; Aug. 24.
Balancing rotating element. C. F. Saltz. 2,327,606–9; Aug. 24.
Bar stock mechanism for automatic metalworking machines, Breech loading. E. S. Bariotte. 2,327,916; Aug. 24.
Bar-stock rack. C. W. Attwood. 2,327,587; Aug. 24.
Basket, Bicycle. W. G. Lyman. 2,327,537; Aug. 24.
Bearing: *See*—
  Side bearing.
Bed, Cooling. M. Morgan. 2,327,734; Aug. 24.
Bed spring gauge. H. W. Sternberg and R. O. Smith. 2,327,829; Aug. 24.
Belt for uniforms and other garments, Two-piece waistline. A. Friedman. 2,327,881; Aug. 24.
Bending machine. P. F. Maize. 2,327,440; Aug. 24.
Beverage cooling apparatus. M. Levine. 2,327,910; Aug. 24.
Beverage mixer and dispenser. W. V. Johnson. 2,327,432; Aug. 24.
Bimetal thermostatic elements, Making. T. B. Chace. 2,327,500; Aug. 24.
Bin. P. Rosenberg. 2,327,742; Aug. 24.
Binder. A. Kowalsky. 2,327,908; Aug. 24.
Bituminous base dispersion for use in the production of colored bitumen dispersions. L. G. Gabriel and J. A. Rawlinson. 2,327,882; Aug. 24.
Block: *See*—
  Sectional track block.
Blowtorch. C. J. Burch. 2,327,498; Aug. 24.
Blowtorch. J. R. Craig. 2,327,508; Aug. 24.
Boiler: *See*—
  Superheating flash boiler.
Bolt spacer or reinforcing member. T. Ulrich. 2,327,585; Aug. 24.
Bomb. F. E. Firing. 2,327,414; Aug. 24.
Bomb, Self-propelled. S. L. Conrad. 2,327,621; Aug. 24.
Booster burner. W. Lotter. 2,327,807; Aug. 24.
Bottle, Nonrefillable paper. L. B. Koch and I. F. Mandell. 2,327,965; Aug. 24.
Bottle vendor, Refrigerated portable. J. E. Hagstrom and O. C. Olsen. 2,327,520; Aug. 24.
Bottom structure for folding paper boxes. R. A. Himes. 2,327,709–10; Aug. 24.
Bowling alley. C. W. Hartwig. 2,327,350; Aug. 24.
Bracket. R. S. Sanford. 2,327,970; Aug. 24.
Bracket for fixtures, Hinge. R. S. Sanford. 2,327,969; Aug. 24.
Brake: *See*—
  Emergency and parking brake.
  Self-adjusting brake.
Brake arrangement for trainer airplanes, Dual. C. Hollerith. 2,327,427; Aug. 24.
Brake testing apparatus. C. C. Bennett. 2,327,617; Aug. 24.
Brassière. A. S. and V. I. Becker. 2,327,488; Aug. 24.
Broiler mechanism. C. Klein. 2,327,354; Aug. 24.
Brooder, Chicken. A. L. Kaysing. 2,327,801; Aug. 24.
Brooder, Electrically heated chicken. A. L. Kaysing. 2,327,800; Aug. 24.
Buckle. A. T. Poole. 2,327,741; Aug. 24.
Bulb, Light. R. Boardman. 2,327,396; Aug. 24.
Burner: *See*—
  Booster burner.
  Rotary gas burner.
Burner control mechanism, Gas stove. R. Besocke. 2,327,589; Aug. 24.
Button, Reinforced plastic. D. S. Hart and A. D. Cronk. 2,327,521; Aug. 21.
Cabinet: *See*—
  Cooler cabinet.
Cable pulling attachment. S. M. Sutton. 2,327,831; Aug. 24.
Cage, Mine hoistway. A. R. and J. B. Long. 2,327,913; Aug. 24.
Calculating machine. C. M. Friden. 2,327,635; Aug. 24.
Calculating machine. C. M. F. Friden and J. H. Gammell. 2,327,704; Aug. 24.
Calling dial device. H. W. Goff. 2,327,782; Aug. 24.
Camera bellows and making same. R. S. Hopkins. 2,327,790; Aug. 24.
Camera, Folding. M. R. Hutchison, Jr. 2,327,797; Aug. 24.

Camera shutter. C. C. Fuerst. 2,327,780; Aug. 24.
Can: *See*—
Powder can.
Can handling machine. E. E. Hanson. 2,327,888; Aug. 24.
Cap: *See*—
Padless crown cap. Safety blasting cap.
Carbon antihalation layer, Colloidal. N. L. Simmons. 2,327,828; Aug. 24.
Carburetor. A. E. Chisholm. 2,327,592; Aug. 24.
Carburetor. C. R. Snyder. 2,327,675; Aug. 24.
Carding apparatus, Stripping. W. H. Goldsmith, Jr. 2,327,349; Aug. 24.
Cartridge and gun, Pneumatic. E. Lisle. 2,327,653; Aug. 24.
Case: *See*—
Vanity case.
Casket. G. L. West. 2,327,949; Aug. 24.
Catalytic cracking apparatus. G. F. Kuhn. 2,327,438; Aug. 24.
Catalytic process. S. B. Becker. 2,327,489; Aug. 24.
Cellulose derivative and making same. L. Lilienfeld. 2,327,911; Aug. 24.
Cellulose esters, Preparing far-hydrolyzed. C. L. Crane. 2,327,770; Aug. 24.
Cellulosic structure and producing same. T. G. Finzel. 2,327,413; Aug. 24.
Centrifugal separator. C. F. Terhune. 2,327,613; Aug. 24.
Ceramic surface, High strength. K. E. Stettinius and B. F. Dewey. 2,327,972; Aug. 24.
Chest, Cedar. E. C. Crocker. 2,327,871; Aug. 24.
Choke mechanism and choke valve, Automatic. C. H. Jorgensen. 2,327,903; Aug. 24.
Chorionic substances, Isolating. E. Schwenk and G. A. Fleischer. 2,327,375; Aug. 24.
Cigarette snuffer and ash tray. A. R. Glidden. 2,327,518; Aug. 24.
Circuit: *See*—
Balanced interrupter circui Electric range circuit.
Circuit breaker. W. Kaufman, O. Flogel, A. Thewalt, and L. Ferschl. 2,327,799; Aug. 24.
Circular knitting machine of the links and links type. T. C. Bromley and A. Shortland. 2,327,398; Aug. 24.
Circulating valve. C. W. Savitz. 2,327,610; Aug. 24.
Clamping furnaces to torches. E. A. Starbuck. 2,327,677; Aug. 24.
Cleaner: *See*—
Vacuum cleaner.
Clinch nut press. W. D. Chilton. 2,327,401; Aug. 24.
Clock and lamp, Combined. V. Peterson. 2,327,666; Aug. 24.
Closely wound coil binder. R. Tauber. 2,327,941; Aug. 24.
Closure. G. T. Jacocks. 2,327,716; Aug. 24.
Clutch element. E. Baguall. 2,327,389; Aug. 24.
Clutch plate. G. I. Goodwin. 2,327,884; Aug. 24.
Coil handling, Strip. J. E. Kiefer. 2,327,906; Aug. 24.
Coil, Ignition. H. L. Hartzell. 2,327,784; Aug. 24.
Collating machine. C. E. Wyrick. 2,327,689; Aug. 24.
Colostomy protector. I. D. Fenwick. 2,327,514; Aug. 24.
Combine. C. B. Hobson. 2,327,893; Aug. 24.
Communication system. W. H. T. Holden. 2,327,711; Aug. 24.
Composition for protection against light of short wave length. S. Isermann and E. Ohlsson. 2,327,899; Aug. 24.
Composition of matter and method and steps of making and using the same. M. T. Harvey. 2,327,422; Aug. 24.
Composition of matter and method and steps of making and using the same. W. F. Schaufelberger. 2,327,563; Aug. 24.
Compositions of matter and methods and steps of making and using the same. M. T. Harvey. 2,327,785; Aug. 24.
Concrete mixer. H. A. and G. H. Wagner. 2,327,473; Aug. 24.
Conductor support. T. H. Dunn. 2,327,699; Aug. 24.
Conduit filling. A. L. Parker. 2,327,449; Aug. 24.
Connected container. H. M. Klechhefer and S. B. Clark. 2,327,529; Aug. 24.
Container: *See*—
Connected container. Self-heating food container
Dispensing container.
Container. H. A. Fink. 2,327,411; Aug. 24.
Container. J. B. Meek. 2,327,656; Aug. 24.
Container for bombs. J. W. Moseman. 2,327,365; Aug. 24.
Container with closure locking band. W. F. Punte. 2,327,456; Aug. 24.
Container with heating means. H. A. Fink. 2,327,412; Aug. 24.
Control apparatus. H. S. Ackerman. 2,327,690; Aug. 24.
Control device. J. D. Bolesky. 2,327,336; Aug. 24.
Control mechanism. E. A. Hubley. 2,327,898; Aug. 24.
Cooler cabinet. M. M. Fibus. 2,327,630; Aug. 24.
Cooling and display stand. M. M. Fibus. 2,327,631; Aug. 24.
Cooling method and apparatus. R. M. Heintz. 2,327,786; Aug. 24.
Cooling system. H. B. Drapeau. 2,327,342; Aug. 24.
Copper and product thereof, Treating. A. A. Smith, Jr., and J. S. Smart, Jr. 2,327,378; Aug. 24.
Corn syrup, Expanded solid. W. A. Heyman. 2,327,351; Aug. 24.
Coupling: *See*—
Hook coupling. Union coupling.
Pipe coupling.
Coupling. W. C. Iftiger, Sr. 2,327,714; Aug. 24.
Coupling. W. J. McCartney. 2,327,604; Aug. 24.
Coupling. A. T. Scheiwer. 2,327,611; Aug. 24.
Coupling device. M. J. Zaleske. 2,327,591; Aug. 24.
Cover: *See*—
Drawing board cover.
Crayon. P. J. Berggren. 2,327,854; Aug. 24.
Crown, Jacket. A. J. Pearlman. 2,327,548; Aug. 24.
Crusher, Gyratory. G. Annesley. 2,327,384; Aug. 24.
Current transformer, High frequency. T. M. Dickinson. 2,327,774; Aug. 24.
Curving material. R. T. Halstead. 2,327,706; Aug. 24.
Cushioning tool holder. W. J. Weberg. 2,327,685; Aug. 24.
Cutter: *See*—
Sod cutter.
Cutting-off machine. F. G. Bovard. 2,327,863; Aug. 24.
Cylinder for opposed-piston internal combustion engines. J. Barraja-Frauenfelder and O. G. Schrom. 2,327,694; Aug. 24.
Cylinder, Thresher. A. E. W. Johnson and R. D. Acton. 2,327,901; Aug. 24.
Dashpot. H. K. Kouyoumjian. 2,327,722; Aug. 24.
Deburring machine. W. B. Edyvean. 2,327,407; Aug. 24.
Deep well pump. T. S. Harris. 2,327,637; Aug. 24.
Depilatory composition. C. H. Cox. 2,327,507; Aug. 24.
Derrick, Trailer. O. R. Rowe. 2,327,461; Aug. 24.
Device for defense against the attack of high-speed torpedo boats. M. C. Schwab. 2,327,463; Aug. 24.
Die construction. R. L. Peat. 2,327,665; Aug. 24.
Dielectric for electrostatic condensers. S. Ruben. 2,327,372; Aug. 24.
Digging machine for root crops. E. B. Bower. 2,327,590; Aug. 24.
Dirt spreader and bumper, Combined. S. F. Armington. 2,327,385; Aug. 24.
Dispenser: *See*—
Powder dispenser.
Dispenser for comminuted solids. C. J. Burch and W. G. Edwards. 2,327,337; Aug. 24.
Dispensing apparatus and faucet. T. A. Nigbor. 2,327,444; Aug. 24.
Dispensing container. M. McI. Dukehart, Jr. 2,327,406; Aug. 24.
Dispensing container. T. A. Grosse. 2,327,420; Aug. 24.
Display and dispensing means. E. Ezrol. 2,327,878; Aug. 24.
Distillation. P. Lambert. 2,327,534; Aug. 24.
Distillation process and apparatus. K. C. D. Hickman. 2,327,788; Aug. 24.
Domestic heater. E. McCarthy. 2,327,442; Aug. 24.
Door: *See*—
Garage door.
Door and regulator handle. I. S. Keeler and G. V. Jakeway. 2,327,904; Aug. 24.
Door lock. W. Marshall. 2,327,441; Aug. 24.
Drain relief device. J. F. Kesteloot. 2,327,602; Aug. 24.
Draw works, Rotary. J. D. Spalding. 2,327,467; Aug. 24.
Drawing board cover. S. W. Haas. 2,327,963; Aug. 24.
Drill: *See*—
Rock drill.
Drilling control, Automatic. J. C. and H. L. Conrad. 2,327,505; Aug. 24.
Drilling fluid. T. S. Chapman. 2,327,501; Aug. 24.
Drive connection. J. W. Batchelder. 2,327,852; Aug. 24.
Drop-bit apparatus. R. C. Ortgies. 2,327,446; Aug. 24.
Drums, Fabricating metal. A. W. McClary. 2,327,731; Aug. 24.
Drying cornstarch and similar materials. L. P. Tiers. 2,327,943; Aug. 24.
Dust collector. T. B. Allardice. 2,327,691; Aug. 24.
Dyeing cellulose derivatives. K. R. House and H. C. Olpin. 2,327,426; Aug. 24.
Dyestuffs, Printing vat. A. Davidson, E. Chapman, S. T. McQueen and J. Payman. 2,327,405; Aug. 24.
Ear protector. C. E. Cole. 2,327,620; Aug. 24.
Educational apparatus. R. B. Tiers. 2,327,471; Aug. 24.
Egg dyeing apparatus. R. P. Young. 2,327,754; Aug. 24.
Ejector for slot-cutting dies. J. D. Klopfenstein. 2,327,530; Aug. 24.
Electric circuit breaker. C. Bresson. 2,327,493; Aug. 24.
Electric discharge device, Gaseous. D. W. Abernathy. 2,327,755; Aug. 24.
Electric range circuit. R. T. Frazier. 2,327,632; Aug. 24.
Electrical apparatus and its operation. O. Minton. 2,327,364; Aug. 24.
Electrical protective device. K. R. Brown, M. C. Colley, and H. H. Wefeler. 2,327,865; Aug. 24.
Electrical resistor. H. M. Hucke. 2,327,793; Aug. 24.
Electrical system. J. W. Myers. 2,327,925; Aug. 24.

Electrodeposition of insulating material. S. Ruben. 2,327,462; Aug. 24.
Electromagnetic device. H. G. Blosser and R. M. Laurenson. 2,327,395; Aug. 24.
Electromechanical connection. P. H. Craig. 2,327,622; Aug. 24.
Emergency and parking brake. C. N. Reavis. 2,327,559; Aug. 24.
Energy transition. J. Goldmann. 2,327,418; Aug. 24.
Engine: *See*—
Internal combustion engine
Engine. J. Tjaarda. 2,327,470; Aug. 24.
Engine starter gearing. F. T. Christian. 2,327,960; Aug. 24.
Engraving machine. D. B. McRae. 2,327,811; Aug. 24.
Esters of hydroalkyl cellulose and product produced thereby, Making. A. E. Broderick. 2,327,397; Aug. 24.
Ethers, Substituted phenoxyalkyl. H. R. Henze. 2,327,890; Aug. 24.
Exhibiting apparatus. W. C. Eddy. 2,327,626; Aug. 24.
Explosion pressure gauge. E. E. Simmons, Jr. 2,327,935; Aug. 24.
Exposuremeter. J. Bolsey. 2,327,858; Aug. 24.
Extruder, Self-feeding. L. London. 2,327,725; Aug. 24.
Eye structure for anchor rods. H. F. Stover. 2,327,567; Aug. 24.
Fabric, Electrically conductive. S. Adamson. 2,327,756; Aug. 24.
Fabric finishing method. H. I. Huey, H. G. Killam, and W. W. Russell. 2,327,712; Aug. 24.
Fabrics and artificial structures, Dressing of. L. Lilienfeld. 2,327,912; Aug. 24.
Fan, Propeller. H. F. Hagen. 2,327,841; Aug. 24.
Fastener: *See*— Snap fastener.
Slide fastener.
Fastener. F. G. Purinton. 2,327,555–6; Aug. 24.
Fastening device. C. D. Ryder. 2,327,605; Aug. 24.
Faucet, Sanitary self-closing. R. H. Zinkil, C. U. Larson, and G. E. Hansen. 2,327,574; Aug. 24.
Feed cup for grain drills. D. M. Morris. 2,327,923; Aug. 24.
Feeder: *See*—
Thread yarn feeder.
Feeder for glass drawing tanks, Blanket. H. L. Halbach, W. G. Koupal, and W. Owen. 2,327,887; Aug. 24.
Feeding mechanism for multiple printed forms. N. Whitehead. 2,327,480; Aug. 24.
Felting needle. E. P. Foster. 2,327,416; Aug. 24.
Fibrous materials. H. Bestian and M. O. Schürmann. 2,327,760; Aug. 24.
Filaments and fibers from viscose, Manufacture of artificial. H. Fink and G. Plepp. 2,327,516; Aug. 24.
Filing machine. J. Jesionowski. 2,327,843; Aug. 24.
Filling method. R. B. McKinnis. 2,327,732; Aug. 24.
Film developing tank. W. B. Moore. 2,327,733; Aug. 24.
Film scraping device. J. Bolsey. 2,327,860; Aug. 24.
Film splicer. J. Bolsey. 2,327,856; Aug. 24.
Film splicing device. J. Bolsey. 2,327,861; Aug. 24.
Film supports, Manufacture of photographic. G. F. Nadeau and A. J. Gould. 2,327,814; Aug. 24.
Film threading system. J. Bolsey. 2,327,857; Aug. 24.
Filter: *See*—
Rotary filter. Ultraviolet filter.
Filter. J. M. Kidd. 2,327,803; Aug. 24.
Filter bed cleaning. C. Lose, Jr. 2,327,726; Aug. 24.
Filter pack. W. Kasten. 2,327,648; Aug. 24.
Fire extinguishing apparatus. H. C. Kendall and H. G. Freeman. 2,327,528; Aug. 24.
Fishing reel. J. W. Jicha. 2,327,431; Aug. 24.
Fishing rod and reel. W. Teitsma. 2,327,469; Aug. 24.
Float, Fishing tackle. J. M. Hixon. 2,327,789; Aug. 24.
Floating tool holder. J. A. Howard. 2,327,897; Aug. 24.
Flotation. E. J. Ellis. 2,327,408; Aug. 24.
Flush valve. E. G. Oravec. 2,327,545; Aug. 24.
Fluxing composition. C. A. Carey. 2,327,958; Aug. 24.
Forming dies and the like. A. W. Bull. 2,327,762; Aug. 24.
Fountain, Soda. H. W. Kleist. 2,327,355; Aug. 24.
Fractional distillation. G. S. Houghland. 2,327,643; Aug. 24.
Fracture securing apparatus. H. A. Johnston. 2,327,434; Aug. 24.
Frequency modulation system. W. H. Wirkler. 2,327,382; Aug. 24.
Fuel for gas generating and dispensing systems. L. J. White. 2,327,835; Aug. 24.
Fuel, Production of motor. F. E. Frey. 2,327,633; Aug. 24.
Fuel, Safety motor. W. A. Herbst. 2,327,708; Aug. 24.
Fuel system. D. Samiran. 2,327,373; Aug. 24.
Fungicide and making the same. S. E. Marisco. 2,327,812; Aug. 24.
Garage door. W. D. Ferris. 2,327,778; Aug. 24.
Garment. L. Novy. 2,327,661–2; Aug. 24.
Gasket. R. W. Williams. 2,327,837; Aug. 24.
Gasket construction and mounting same. W. R. Matheny. 2,327,541; Aug. 24.
Gauge: *See*—
Bed spring gauge. Explosive pressure gauge.
Gauging machine. W. J. Fedorchak. 2,327,629; Aug. 24.
Gear: *See*—
Locomotive power reverse gear.
Gear for three graduated speed ratios, Change speed. P. Pfister. 2,327,740; Aug. 24.
Gear housing. L. W. Falk. 2,327,777; Aug. 24.
Gear shifting mechanism. C. D. Peterson and E. J. Barth. 2,327,550; Aug. 24.
Generator overdrive. E. M. Claytor. 2,327,769; Aug. 24.
Glass, Heat rejecting. R. A. Miller. 2,327,918; Aug. 24.
Glass surfaces, Treatment of. W. E. Campbell. 2,327,868; Aug. 24.
Glassware, Making. H. R. Schutz. 2,327,825; Aug. 24.
Glazing unit, Preformed multipane. H. M. Woelfel. 2,327,974; Aug. 24.
Glove. C. G. Wells. 2,327,381; Aug. 24.
Glove. E. G. Willard. 2,327,836; Aug. 24.
Glow discharge switch. K. Rath. 2,327,557; Aug. 24.
Golf bag support. E. W. Pearson. 2,327,736; Aug. 24.
Gravity meter. L. L. Antes. 2,327,692; Aug. 24.
Gravity meter. F. G. Boucher. 2,327,697; Aug. 24.
Grinding mill. W. G. Clark. 2,327,402; Aug. 24.
Grinding wheel. S. S. Kistler. 2,327,846; Aug. 24.
Guard for valves, Fitting. R. D. McIntosh. 2,327,654; Aug. 24.
Guard grating for turbine plants. C. F. Fredén. 2,327,703; Aug. 24.
Guide for automatic machine guns, Cartridge. F. T. Moore. 2,327,922; Aug. 24.
Gun for oil well casings, Perforating. L. E. Couch. 2,327,340; Aug. 24.
Gyroscopic direction indicator and like instrument. D. Crew. 2,327,623; Aug. 24.
Handbag. L. Krupp. 2,327,532; Aug. 24.
Handle: *See*—
Door and regulator handle.
Handling and weighing machine, Material. L. J. Nowak, Jr. 2,327,367; Aug. 24.
Harrow, Disk. C. H. White. 2,327,834; Aug. 24.
Harvester. J. R. Brogard and F. B. De Blieck. 2,327,864; Aug. 24.
Heat casting refractory blocks. H. T. Smyth. 2,327,674; Aug. 24.
Heat exchanger, Sectional. E. Blais. 2,327,491; Aug. 24.
Heat protective apparel. L. E. Dickson. 2,327,625; Aug. 24.
Heat-treating apparatus. R. P. Koehring. 2,327,804;
Heater: *See*—
Domestic heater.
Aug. 24.
Heating and ventilating apparatus. G. E. Otis. 2,327,663; Aug. 24.
Heating system. E. F. Chandler. 2,327,339; Aug. 24.
Heel connection. C. Mackintosh. 2,327,655; Aug. 24.
Hinge device for ventilating windows. A. P. Ball. 2,327,390; Aug. 24.
Holder: *See*—
Cushioning tool holder. Toilet paper roll holder.
Key holder. Tree holder.
Hook coupling. G. R. Unthank and A. J. Silley. 2,327,751; Aug. 24.
Hydrocarbon oils, Conversion of. C. L. Thomas. 2,327,973; Aug. 24.
Hydrocarbon oils, Refining. C. A. Cohen. 2,327,504; Aug. 24.
Hydrocarbons, Catalytic isomerization of saturated. M. de Simó and F. M. McMillan. 2,327,593; Aug. 24.
Hydrocarbons, Chlorination of high molecular weight. P. K. Frolich and L. A. Bannon. 2,327,517; Aug. 24.
Hydrocarbons, Isomerizing. W. E. Ross and J. Anderson. 2,327,670; Aug. 24.
Hydrocarbons, Producing. F. E. Frey and H. J. Hepp. 2,327,634; Aug. 24.
Hydrocarbons, Production of valuable. N. K. Chaney. 2,327,842; Aug. 24.
Hydrocarbons, Reaction of. E. H. Oakley and L. F. Brooke. 2,327,926; Aug. 24.
Hydrogenation products of Δ^5-estrone and preparing same. E. Schwenk. 2,327,376; Aug. 24.
Ignition cutoff system, Automatic. C. N. Reavis. 2,327,558; Aug. 24.
Illuminating device for house numbers. H. L. Millspaugh. 2,327,443; Aug. 24.
Illuminating means for enlargers. C. W. Peterson. 2,327,818; Aug. 24.
Indicator: *See*—
Rate of climb indicator.
Indicator for drilling, Footage. J. C. and H. L. Conrad. 2,327,506; Aug. 24.
Ink, Printing. D. R. Erickson and P. J. Thoma. 2,327,594–7; Aug. 24.
Insect control. T. S. Carswell. 2,327,338; Aug. 24.
Insole and middle sole, Resilient ventilated. M. Margolin. 2,327,361; Aug. 24.
Insole and outer sole combination. M. Margolin. 2,327,360; Aug. 24.
Instrument for suturing. J. D. Karle. 2,327,353; Aug. 24.
Internal combustion engine. E. E. Heuschober. 2,327,523; Aug. 24.
Internal combustion engine. O. R. Hughes. 2,327,645; Aug. 24.
Internal combustion engine. A. W. Scarratt and G. E. Lundberg. 2,327,932; Aug. 24.
Internal combustion engine. N. P. Sherwood. 2,327,565; Aug. 24.
Interrupter system. H. J. Brown. 2,327,579; Aug. 24.

Jack and needle machine, Knitting machine. C. Koppel. 2,327,356; Aug. 24.
Joint: *See*—
Wire belt joint.
Kerf-cutting machine. F. A. Lindgren. 2,327,724; Aug. 24.
Keto sulphides and making same. G. H. Morey. 2,327,966; Aug. 24.
Key holder. W. V. Johnson. 2,327,433; Aug. 24.
Knob, Turn. W. P. Herman. 2,327,891; Aug. 24.
Lacing machine, Shoe upper. J. Fossa. 2,327,345; Aug. 24.
Lamp: *See*—
Safety lamp. Therapeutic lamp.
Lamps, Making reflecting electric. C. Birdseye and P. Deren. 2,327,978; Aug. 24.
Lasting machine. J. W. Barna. 2,327,758; Aug. 24.
Latex and product thereof, Heat-sterilizing. W. D. Stewart. 2,327,939; Aug. 24.
Latex and products thereof, Preserving. W. D. Stewart. 2,327,940; Aug. 24.
Layer cell, Blocking. C. de Lange and C. L. Boucher. 2,327,511; Aug. 24.
Leather, Manufacture of substitute. R. C. McQuiston. 2,327,540; Aug. 24.
Lighting fixture. P. S. Strang. 2,327,568; Aug. 24.
Lighting fixture, fluorescent safety. H. J. Poehling. 2,327,552; Aug. 24.
Liquid dispensing device. M. J. Goldberg and D. S. Willson. 2,327,584; Aug. 24.
Liquid dispensing device. P. E. Waugh. 2,327,475; Aug. 24.
Liquid sealing compound. A. L. Parker. 2,327,450; Aug. 24.
Loader. R. E. Brown. 2,327,494; Aug. 24.
Loading apparatus for ambulances. J. G. Tavaris. 2,327,680; Aug. 24.
Loading valve. R. Stevenson and A. W. Keema. 2,327,830; Aug. 24.
Lock: See—
Door lock. Trip lock.
Locomotive power reverse gear. M. T. Furker, Jr. 2,327,344; Aug. 24.
Loom shuttle. C. D. Brown. 2,327,840; Aug. 24.
Lubricant. P. K. Frolich and H. B. Kellog. 2,327,705; Aug. 24.
Lubricating composition. E. Lieber and H. T. Rice. 2,327,535; Aug. 24.
Machine-carriage reciprocating mechanism, Grinding. C. C. Alvord. 2,327,486; Aug. 24.
Machine for arming bomb fuses. M. J. Ferrone and C. W. Burdge. 2,327,515; Aug. 24.
Machine for making glass articles. C. B. Shillinger. 2,327,673; Aug. 24.
Machine for pressing sleeved articles in one lay. P. N. Braun. 2,327,492; Aug. 24.
Machine for shaping uppers over lasts. C. W. Baker. 2,327,392; Aug. 24.
Machine for sizing bearings. W. J. Fiegel. 2,327,598; Aug. 24.
Machine for vacuumizing, gassing, and hand-sealing filled containers. G. F. Jackson. 2,327,430; Aug. 24.
Manifolding assembly. J. G. Kerr. 2,327,719; Aug. 24.
Marker, Cattle. W. F. Schacht. 2,327,823–4; Aug. 24.
Mat, Antislip. J. R. Denman. 2,327,624; Aug. 24.
Mat for landing fields, Surfacing. A. R. Hendry. 2,327,640; Aug. 24.
Material mixing device. J. A. Lynch. 2,327,914; Aug. 24.
Materials such as fibers, Making synthetic. J. Dahle. 2,327,872; Aug. 24.
Measuring device, Area. L. Middleton. 2,327,657; Aug. 24.
Metal, Porous. R. P. Koehring. 2,327,805; Aug. 24.
Metal surface finishing. C. D. Coxe. 2,327,870; Aug. 24.
Metals, Quenching of. C. G. zur Horst, B. B. Wescott, and L. W. Vollmer. 2,327,976–7; Aug. 24.
Metaldehyde, Making. W. L. Vogel. 2,327,570; Aug. 24.
Meter: *See*—
Gravity meter. Parking meter.
Method and apparatus for assembling stators. V. A. Hoover. 2,327,352; Aug. 24.
Method and apparatus for forming air-celled steering wheel cushions. M. B. Ratner. 2,327,931; Aug. 24.
Method and apparatus for measuring porosity of solids. W. L. Horner. 2,327,642; Aug. 24.
Method and machine for forming blankets for paper receptacles. F. R. Zimmerman. 2,327,952; Aug. 24.
Method of and apparatus for air conditioning. G. E. Otis. 2,327,664; Aug. 24.
Method of and apparatus for generating pictures of the fundus of the living eye. K. L. Stone and M. L. Pool. 2,327,612; Aug. 24.
Method of and apparatus for working mineral materials and the like. C. J. Burch. 2,327,496; Aug. 24.
Mill: *See*—
Grinding mill.
Milling, Continuous. F. Koch. 2,327,531; Aug. 24.
Milling machine. F. W. Curtis. 2,327,404; Aug. 24.
Mineral cutting and piercing. R. B. Aitchison, C. W. Swartout and V. C. Williams. 2,327,482; Aug. 24.
Mining apparatus. C. F. Osgood. 2,327,928; Aug. 24.
Mirrors, Manufacture of. A. Levaggi. 2,327,723; Aug. 24.
Mixer: *See*—
Concrete mixer.
Modulator. H. T. Budenbom. 2,327,866; Aug. 24.
Mold: *See*—
Skeleton mold. Tire repairing mold.
Molding. J. C. P. Leemhuis. 2,327,439; Aug. 24.
Mophead and frame therefor. F. T. Petty. 2,327,551; Aug. 24.
Motor: *See*—
Spring motor.
Motor control apparatus. L. del Riccio. 2,327,581; Aug. 24.
Motor control system. C. MacDonald, J. W. McNairy and J. F. Tritle. 2,327,809; Aug. 24.
Mount for direction signals. R. H. Kershaw. 2,327,905; Aug. 24.
Musical instrument. J. A. Kochl. 2,327,720; Aug. 24.
Negative element. W. C. Toland and E. Bassist. 2,327,380; Aug. 24.
Nitro glycol. E. F. Degering and A. Sprang. 2,327,961; Aug. 24.
Oil, Dewaxing. E. A. Nill. 2,327,445; Aug. 24.
Oils, Conversion of hydrocarbon. R. B. Day. 2,327,510; Aug. 24.
Oils, Refining of petroleum. H. C. Paulsen. 2,327,547; Aug. 24.
Optical image reversing and/or inverting system. W. C. Eddy. 2,327,700; Aug. 24.
Optical objective. A. Warmisham. 2,327,947; Aug. 24.
Ornament, Christmas tree. H. Groothedde. 2,327,519; Aug. 24.
Oven, Baker's band. K. D. Loose and C. W. Watkins. 2,327,727; Aug. 24.
Pack, Variable form parachute. F. G. Manson and J. J. Maskey. 2,327,358; Aug. 24.
Package, Antistatic photographic. G. F. Hunter. 2,327,713; Aug. 24.
Padless crown cap. W. F. Punte. 2,327,454–5; Aug. 24.
Paint and varnish remover composition. C. Ellis. 2,327,701; Aug. 24.
Paper feeding mechanism. J. Q. Sherman and A. W. Metzner. 2,327,377; Aug. 24.
Paper punch. C. Hutchinson. 2,327,646; Aug. 24.
Parallel operation of interrupting means. H. J. Brown. 2,327,575; Aug. 24.
Parallel operation of regulator interrupters. H. J. Brown. 2,327,578; Aug. 24.
Parking meter. C. A. MacCordy. 2,327,538; Aug. 24.
Phenols and olefins, Production of. D. R. Stevens and J. B. McKinley. 2,327,938; Aug. 24.
Phenols from mineral oils, Recovery of. M. C. K. Jones and B. R. Strickland. 2,327,526; Aug. 24.
Phonograph, Automatic. R. I. Wilcox. 2,327,753; Aug. 24.
Phonograph record. J. N. Borglin. 2,327,862; Aug. 24.
Photographic emulsion for spraying upon surfaces and its application. W. G. Lowe and G. J. Clarke. 2,327,808; Aug. 24.
Photographic shutter operating mechanism. T. M. Brueck. 2,327,591; Aug. 24.
Photographic solution. G. F. Nadeau and W. M. Tucker. 2,327,813; Aug. 24.
Phthalocyanine pigment and preparing same. V. C. Vesce and F. M. Stalzer. 2,327,472; Aug. 24.
Picture puzzle, Folding. H. Edborg. 2,327,875–6; Aug. 24.
Piezoelectric device. H. M. Bach. 2,327,487; Aug. 24.
Pipe coupling. J. W. Wallis. 2,327,571–2; Aug. 24.
Piston ring expander. A. W. Morton. 2,327,934; Aug. 24.
Piston ring expander. A. W. Shattuck, Jr. 2,327,933; Aug. 24.
Plastic composition for laminated glass interlayers. L. P. Kyrides. 2,327,652; Aug. 24.
Plastic puttylike asphalt composition and making same. J. van den Berge. 2,327,752; Aug. 24.
Plate for magnetic chucks, Universal work-holding. C. O. Smith. 2,327,748; Aug. 24.
Plating process. J. W. Spence. 2,327,676; Aug. 24.
Pliers, Toggle. J. Olson. 2,327,368; Aug. 24.
Plow, Roll over. J. R. Orelind. 2,327,927; Aug. 24.
Pole reinforcement device. J. W. Vanderveer. 2,327,681; Aug. 24.
Polymerization product and producing same, Vulcanizable. E. Zaucker. 2,327,975; Aug. 24.
Polyvinyl acetal resin sheets, Forming. G. J. Esselen. 2,327,627; Aug. 24.
Portable electromedical apparatus. H. de Jong. 2,327,874; Aug. 24.
Post construction, Locking. J. C. Dawson, Jr. 2,327,873; Aug. 24.
Poultry feed comprising wool. J. W. Creely and J. A. Levering. 2,327,698; Aug. 24.
Powder can. E. E. Baker. 2,327,391; Aug. 24.
Powder dispenser. W. H. Rose. 2,327,560; Aug. 24.
Power lift mechanism for tractors. B. R. Benjamin. 2,327,853; Aug. 24.
Preparation of 2. 3 dichlordioxane. W. P. Bitler and L. Nicholl. 2,327,855; Aug. 24.
Press: *See*—
Clinch nut press.
Prime mover. F. A. Farrar. 2,327,409; Aug. 24.

Private branch exchange system. H. M. Bascom and F. R. Lamberty. 2,327,851; Aug. 24.
Process and apparatus for catalytic conversion. I. I. Shultz. 2,327,746; Aug. 24.
Process of and apparatus for separating gas mixtures. P. K. Rice. 2,327,459; Aug. 24.
Process of and apparatus for working mineral materials and the like. C. J. Burch. 2,327,499; Aug. 24.
Projectile. E. G. Whipple. 2,327,950; Aug. 24.
Projector, Light. S. C. Rogers. 2,327,820; Aug. 24.
Propeller, Helical marine. E. A. F. Presser. 2,327,453; Aug. 24.
Proportioner, Pressure. L. W. Boerner and F. J. Hogenmiller. 2,327,335; Aug. 24.
Protective storage receptacle. I. Kamman. 2,327,798; Aug. 24.
Protective system, Crossing. S. M. Nampa. 2,327,366; Aug. 24.
Protector: *See*—
Colostomy protector. Ear protector.
Pump: *See*—
Deep well pump.
Variable displacement pump.
Pump drive. F. B. Drake. 2,327,962; Aug. 24.
Punch device. W. E. Ingerson. 2,327,715; Aug. 24.
Pusher, Ground rod. J. H. Abramson and E. C. Swanson. 2,327,616; Aug. 24.
Quenching of metals. C. G. zur Horst, B. B. Wescott, and L. W. Vollmer. 2,327,383; Aug. 24.
Rack: *See*—
Bar-stock rack.
Rack. W. Thomas. 2,327,379; Aug. 24.
Radio compass. F. J. Hooven. 2,327,641; Aug. 24.
Radiographic apparatus. A. J. Kizaur. 2,327,603; Aug. 24.
Range. A. H. Brodbeck. 2,327,761; Aug. 24.
Rate of climb indicator. J. E. Bevins. 2,327,394; Aug. 24.
Razor and magazine, Safety. Z. Auerbach. 2,327,388; Aug. 24.
Razor, Safety. F. J. Mehl. 2,327,363; Aug. 24.
Razor, Safety. P. N. Peters. 2,327,967; Aug. 24.
Reading instrument. L. C. Miller. 2,327,659; Aug. 24.
Receptacle: *See*—
Protective storage receptacle.
Recording and reproducing, Magnetic. S. J. Begun. 2,327,956; Aug. 24.
Rectifier, Selenium. C. E. Peters. 2,327,739; Aug. 24.
Reel: *See*—
Fishing reel.
Refining. B. H. Thurman. 2,327,569; Aug. 24.
Refrigerant control valve. H. J. Matteson. 2,327,542; Aug. 24.
Refrigerating apparatus. L. M. Keighley. 2,327,649; Aug. 24.
Refrigerating apparatus. E. F. Schweller. 2,327,672; Aug. 24.
Regenerator, Pulse. J. O'D. Shepherd. 2,327,465; Aug. 24.
Register, Pin wheel. W. C. Pfeiffer. 2,327,667; Aug. 24.
Regulator: *See*—
Volt ampere measurment regulator.
Regulator system, Voltage. E. D. Lilja. 2,327,357; Aug. 24.
Relay. N. A. Kurman. 2,327,533; Aug. 24.
Relay mechanism. C. F. Warrick. 2,327,684; Aug. 24.
Relay, Two-step. R. L. Peek, Jr. 2,327,549; Aug. 24.
Remote control system. G. F. Drake. 2,327,341; Aug. 24.
Remote control system. C. J. Hull and F. H. Osborne. 2,327,429; Aug. 24.
Reproducing drawings. H. F. Sherwood. 2,327,826; Aug. 24.
Resin film and sheeting, Manufacture of vinyl. E. K. Carver. 2,327,765; Aug. 24.
Reversal duplicating process. H. D. Russell and H. A. Miller. 2,327,822; Aug. 24.
Rivet, Multipart. W. V. Mounts. 2,327,924; Aug. 24.
Rivets, Firing explosive. L. A. Burrows, M. A. Cook, and R. M. Girdler. 2,327,763; Aug. 24.
Rock drill. J. H. Brown and J. F. Jagiel. 2,327,619; Aug. 24.
Roof and its support. D. W. Carlson. 2,327,869; Aug. 24.
Rotary casting. E. Schütz. 2,327,745; Aug. 24.
Rotary filter. H. H. Moor. 2,327,543; Aug. 24.
Rotary gas burner. E. L. Dennis. 2,327,512; Aug. 24.
Rotary hook for sewing machines. J. D. Karle. 2,327,845; Aug. 24.
Rubber impregnated fibrous body of material and making the same. W. J. Walsh. 2,327,573; Aug. 24.
Rubber products and apparatus therefor, Manufacture of. M. M. Harrison. 2,327,638; Aug. 24.
Runner for road scrapers. E. C. Gledhill. 2,327,417; Aug. 24.
Safety airplane. J. L. Seat. 2,327,744; Aug. 24.
Safety apparatus. O. E. Zoder. 2,327,953; Aug. 24.
Safety blasting cap. J. G. Johnson. 2,327,902; Aug. 24.
Safety coupler. W. H. Ward. 2,327,946; Aug. 24.
Safety lamp. G. N. Bishop. 2,327,696; Aug. 24.
Saliva ejector. F. E. Gibbin. 2,327,347; Aug. 24.
Salt composition. F. S. Chambers, Jr. 2,327,767; Aug. 24.
Sawing machine, Metal. J. G. Moohl. 2,327,920; Aug. 24.
Screen door insect trap. W. A. Hall. 2,327,421; Aug. 24.
Screens, Making deep well. H. O. Williams and A. A. Jens. 2,327,686–7; Aug. 24.
Screw driver, Automatic. M. R. Hutchison, Jr. 2,327,795–6; Aug. 24.
Seal. A. S. Mackey. 2,327,915; Aug. 24.
Sealing and closure device, Storm-window weather. H. R. Carney. 2,327,580; Aug. 24.
Seaming cover ends to can bodies. J. Henchert. 2,327,424; Aug. 24.
Sectional table. P. Rosenberg. 2,327,743; Aug. 24.
Sectional track block. A. S. Krotz. 2,327,909; Aug. 24.
Seed-containing sections from half fruit, Removing. M. Ewald. 2,327,343; Aug. 24.
Selective telegraph system. C. R. Walker. 2,327,474; Aug. 24.
Selector. F. A. Hubbard. 2,327,792; Aug. 24.
Self-adjusted brake. W. S. Robeson. 2,327,819; Aug. 24.
Self-heating food container. F. J. O'Brien. 2,327,447; Aug. 24.
Semaphore, Traffic controlling. L. and A. Canepa. 2,327,400; Aug. 24.
Separation of mixtures containing solvents. W. E. Fisher and W. H. Shearon, Jr. 2,327,779; Aug. 24.
Separator: *See*—
Centrifugal separator.
Server or dispenser. R. Bernhardt. 2,327,618; Aug. 24.
Sewing machine, Shoe. F. Ashworth. 2,327,387; Aug. 24.
Sewing machine stock feed mechanism, Metal. J. G. Moohl. 2,327,921; Aug. 24.
Sharpener, Lawn mower. A. Silfen. 2,327,827; Aug. 24.
Sharpener, Skate. G. R. Johnson. 2,327,717; Aug. 24.
Sheet metal cans, Manufacturing. A. L. Kronquest. 2,327,437; Aug. 24.
Sheet metal hook and forming same, Pressed. J. O. Richard. 2,327,669; Aug. 24.
Shield. G. Stovall. 2,327,678; Aug. 24.
Shield for rearview mirrors. C. D. Kelly. 2,327,802; Aug. 24.
Shield for tank heads, Thermal. R. Ewing. 2,327,628; Aug. 24.
Shipping device for light airplane parts. O. C. Ferguson. 2,327,410; Aug. 24.
Shoe and making same. V. Forschner. 2,327,415; Aug. 24.
Shoe machinery. C. L. Logemann. 2,327,806; Aug. 24.
Side bearing. D. S. Barrows and E. H. Blattner. 2,327,954; Aug. 24.
Signal translating system and apparatus, Telegraph. L. M. Potts. 2,327,369; Aug. 24.
Skeleton mold. H. J. Galey. 2,327,883; Aug. 24.
Skid platform. G. Quayle. 2,327,847; Aug. 24.
Sleeve, Garment. J. Giuseffi. 2,327,348; Aug. 24.
Slide fastener. L. W. Schaaff. 2,327,562; Aug. 24.
Snap fastener. F. G. Purinton. 2,327,554; Aug. 24.
Soap, Making. B. Clayton. 2,327,502; Aug. 24.
Sod cutter. B. C. Ranney. 2,327,930; Aug. 24.
Soot blower system, Automatic. De L. E. Hibner and F. C. Arey. 2,327,524; Aug. 24.
Speed control for squeeze rolls. C. E. Olive. 2,327,448; Aug. 24.
Spines, Raising. H. G. Barrett. 2,327,757; Aug. 24.
Spinning apparatus, Artificial silk dry. J. J. Calhoun. 2,327,399; Aug. 24.
Spreader, Material. E. W. Swenson. 2,327,679; Aug. 24.
Spreader, Sand. J. A. Holden. 2,327,895; Aug. 24.
Spring motor. W. J. Daily. 2,327,509; Aug. 24.
Spring units, Cable tied. H. W. Sternberg. 2,327,749; Aug. 24.
Square, Polygon. H. B. Hidy. 2,327,892; Aug. 24.
Stand: *See*—
Cooling and display stand.
Stapling and crimping synthetic textile fibers. E. W. Rugeley. 2,327,460; Aug. 24.
Static eliminator in printing. T. J. Beregh. 2,327,695; Aug. 24.
Steam boiler firebox. C. E. Hartley. 2,327,522; Aug. 24.
Steel, Silver-containing free-machining die. H. W. Russell and L. R. Jackson. 2,327,561; Aug. 24.
Sterilizer. L. A. Heintzelman. 2,327,707; Aug. 24.
Sterilizer. G. J. Konucik. 2,327,721; Aug. 24.
Stitch-forming mechanisms for sewing machines. F. Parry. 2,327,817; Aug. 24.
Stone, Curling. W. O. Roy. 2,327,371; Aug. 24.
Stopper, Gas main. V. E. Ankarlo. 2,327,615; Aug. 24.
Stretcher, Field. F. E. Montgomery. 2,327,919; Aug. 24.
Superheating flash boiler. C. S. Turner. 2,327,750; Aug. 24.
Support: *See*—
Conductor support. Roof and its support.
Golf bag support.
Sweeper, Street. A. J. Farrar. 2,327,879; Aug. 24.
Switch: *See*—
Glow discharge switch.
Switching mechanism. R. F. Mallina. 2,327,730; Aug. 24.

Table: *See*—
Sectional table.
Tank: *See*—
Film developing tank.
Tap-off connecting device. C. H. Klein. 2,327,651; Aug. 24.
Telegraph system. E. F. Watson. 2,327,478; Aug. 24.
Telephone call diverting system. E. L. Erwin. 2,327,877; Aug. 24.
Telephone system. H. H. Abbott. 2,327,481; Aug. 24.
Telephone system. C. D. Koechling. 2,327,436; Aug. 24.
Telephoto objective. H. F. Bennett. 2,327,759; Aug. 24.
Testing system. J. N. Relfe. 2,327,458; Aug. 24.
Textile core. E. L. Perry. 2,327,738; Aug. 24.
Therapeutic lamp. F. Furedy. 2,327,346; Aug. 24.
Thermostatic control. R. J. Dougherty. 2,327,582; Aug. 24.
Thread-controlling mechanism for sewing machines. F. F. Zeier. 2,327,838; Aug. 24.
Thread guide for sewing machines. A. B. Clayton. 2,327,768; Aug. 24.
Thread yarn feeder. J. Sirmay. 2,327,747; Aug. 24.
Threading machine. J. M. Hothersall. 2,327,428; Aug. 24.
Threading mechanism for motion picture apparatus. H. N. Fairbanks and R. W. Wallace. 2,327,776; Aug. 24.
Ticketing system, Automatic toll. L. J. Scott. 2,327,466; Aug. 24.
Time delay apparatus. A. L. Hopper. 2,327,791; Aug. 24.
Tire repairing mold. E. A. Glynn. 2,327,781; Aug. 24.
Toboggan, Water. V. H. Hurt. 2,327,794; Aug. 24.
Toilet paper roll holder. V. F. Olson. 2,327,816; Aug. 24.
Tools in well bores, Orienting. L. C. Miller. 2,327,658; Aug. 24.
Tower, Concrete mixer. H. A. Wagner. 2,327,477; Aug. 24.
Tower, Hoisting. H. A. and G. H. Wagner. 2,327,476; Aug. 24.
Toy. K. S. Kassler. 2,327,718; Aug. 24.
Toy for simulating airplane attack. R. C. Flynt. 2,327,702; Aug. 24.
Translating device, Power. J. Slepian. 2,327,971; Aug. 24.
Transmission system, Two-wire, two-way, local-central station. A. W. Donelson. 2,327,775; Aug. 24.
Trap: *See*—
Screen door insect trap.
Tray, Ash. W. E. Powers. 2,327,452; Aug. 24.
Tree holder. W. A. Coupanger. 2,327,403; Aug. 24.
Trip lock. H. W. Neunherz. 2,327,735; Aug. 24.
Tripod and other constructions. W. H. Machin. 2,327,728; Aug. 24.
Truck, Car. W. H. Baselt. 2,327,955; Aug. 24.
Truck, Industrial. C. S. Schroeder. 2,327,848; Aug. 24.
Truck, Motorized lift. H. J. Framhein. 2,327,583; Aug. 24.
Tube: *See*—
X-ray tube.
Tube drawing apparatus. R. E. Slater. 2,327,936; Aug. 24.
Turbine construction. H. Zschokke. 2,327,839; Aug. 24.
Turbo transmission. J. Jandasek. 2,327,647; Aug. 24.
Typewriting machine. W. F. Helmond. 2,327,423; Aug. 24.
Ultraviolet filter. B. H. Carroll. 2,327,764; Aug. 24.
Umbrellas, Manufacture of. A. Wright. 2,327,688; Aug. 24.
Undercutter. J. Sauerwein. 2,327,374; Aug. 24.
Union coupling. W. A. Shaw and A. O. A. Hodge. 2,327,464; Aug. 24.
Universal joint friction attachment. T. O. Rueb. 2,327,821; Aug. 24.
Universally adaptable combination overflow and remote control drain. H. F. Beeke and S. A. Young. 2,327,393; Aug. 24.
Upsetting mechanism. R. L. Wilcox. 2,327,479; Aug. 24.
Vacuum cleaner. J. A. McAnerney. 2,327,810; Aug. 24.
Vacuum cleaner. R. A. Ponselle. 2,327,553; Aug. 24.
Vacuum governor and spark control, On-center valve. R. Hufford. 2,327,599; Aug. 24.
Valve: *See*—
Circulating valve. Loading valve.
Flush valve. Refrigerant control valve.
Valve assembly. L. H. Kennon. 2,327,600; Aug. 24.
Valve assembly. R. S. Thoresen. 2,327,942; Aug. 24.
Valve operating means. J. A. Cerow, Jr. 2,327,959; Aug. 24.
Valve operating mechanism. E. E. Hilker. 2,327,425; Aug. 24.
Vanity case. L. Esterow. 2,327,513; Aug. 24.
Variable displacement pump. R. M. Heintz. 2,327,787; Aug. 24.
Vehicle. D. B. Baker and W. O. Bechman. 2,327,850; Aug. 24.
Vermifuge and making same. A. H. Howard. 2,327,644; Aug. 24.
Vessel, Marine. J. Napoli. 2,327,660; Aug. 24.
View-finding and focusing device, Combined. J. Bolsey. 2,327,859; Aug. 24.
Vitamin E in concentrated form, Preparation of. J. D. Cawley. 2,327,766; Aug. 24.
Volt ampere measurement regulator. R. A. Warner. 2,327,833; Aug. 24.
Vulcanizer, Convertible tire. J. C. Heintz. 2,327,639; Aug. 24.
Walker mechanism for invalids. J. A. Rupprecht. 2,327,671; Aug. 24.
Water ski binding. D. B. Hains. 2,327,783; Aug. 24.
Wax from floors, Removing. A. E. Budner. 2,327,495; Aug. 24.
Web winding apparatus. C. P. Vogel. 2,327,832; Aug. 24.
Welding machine. J. B. Quigley. 2,327,929; Aug. 24.
Well pump construction. C. J. Coberly. 2,327,503; Aug. 24.
Well tools, Improvement in. J. S. McDonald and W. E. A. Ruska. 2,327,362; Aug. 24.
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Abrasive faced wheel. Grinding wheel.
Windshield defroster attachment. M. P. Marong. 2,327,917; Aug. 24.
Wire belt joint. E. Maier. 2,327,729; Aug. 24.
Wire connecting sleeve. C. H. Klein. 2,327,650; Aug. 24.
Wire holding device. O. P. Warner and F. Stuart. 2,327,683; Aug. 24.
Xerogel, Porous. K. E. Ripper. 2,327,968; Aug. 24.
X-Ray tube. Z. J. Atlee. 2,327,586; Aug. 24.

CLASSIFICATION OF PATENTS

ISSUED AUGUST 24, 1943

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

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This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

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T. M. Renewals	90	
Reissues	1	No. 22,369
Patents	556	No. 2,327,979 to No. 2,328,534, inclusive.
Designs	50	No. 136,250 to No. 136,299, inclusive.
Total	795	

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed.

Pat. 2,208,171, O. M. Urbain, Process for treating liquids, decided June 9, 1943, claims 17, 18, 19, and 20.

Pat. 2,275,474, D. Scaramucci, Measuring apparatus for determining the depth of oil wells or the like, decided July 30, 1943, claims 3 and 4.

Pat. 2,282,670, R. B. Mitchell, Flame hardening process and apparatus, decided July 19, 1943, claims 7, 8, and 10.

Pat. 2,295,657, C. H. Hodgkins, Fluorescent lamp starter unit, decided August 2, 1943, claim 5.

Pat. 2,299,919, M. F. Moore, and F. F. Kishline, Auxiliary throttle valve, decided August 5, 1943, claims 9, 10, and 11.

Adjudicated Patents

(C. C. A. Ill.) Johnson, True and Engel patent, No. 1,990,329, for food product and method, claims 5 and 6 *Held* invalid. *Mead Johnson & Co.* v. *Hillman's, Inc.*, 135 F.(2d) 955.

Disclaimers

2,216,319.—*Richard T. McGee*, Wheeling, W. Va. Building Construction. Patent dated October 1, 1940. Disclaimer filed August 6, 1943, by the assignee, *The Consolidated Expanded Metal Companies.*

Hereby disclaims claim 3 of said patent.

2,247,399.—*Robert C. Palmer* and *Carlisle H. Bibb*, Pensacola, Fla. Method of Polymerizing Rosin and Product Made Thereby. Patent dated July 1, 1941. Disclaimer filed August 2, 1943, by the assignee, *Newport Industries, Inc.*

Hereby enters this disclaimer to claim 16 in said specification.

2,277,054.—*James L. Anderson*, Closter, N. J. Rail Cropping Machine. Patent dated March 24, 1942. Disclaimer filed July 31, 1943, by the assignee, *Air Reduction Company, Incorporated.*

Hereby enters this disclaimer to claims 6, 14, 15, 17, 18, 22, and 24 of said patent.

2,300,433.—*Robert C. Palmer*, Pensacola, Fla. Ester of Hydrogenated Polymerized Rosin and Method of Making the Same. Patent dated November 3, 1942. Disclaimer filed August 5, 1943, by the assignee, *Newport Industries, Inc.*

Hereby enters this disclaimer to claims 1, 8, 10, 11, and 12 in said specification.

2,322,614.—*William A. Bedford, Jr.*, Hingham, Mass. Shiftable Socket Fastening Device. Patent dated June 22, 1943. Disclaimer filed August 10, 1943, by the assignee, *United-Carr Fastener Corporation.*

Hereby enters this disclaimer to claim 9 in said specification.

Notice Regarding Payment of Fees

All fees must be paid in advance. Payment of money required for Office fees *must* be made in specie, Treasury notes, national-bank notes, post-office money orders, or certified checks. Money orders and checks must be made payable to the "Commissioner of Patents." Money sent by mail to the Patent Office will be at the risk of the sender. (See Rule 194.)

Certified checks, bank drafts, express and foreign money orders must be immediately negotiable in this country and for the full amount of the fee required by the Patent Office. No allowance can be made by this Office for any charge for their collection or exchange. Postage stamps will not be accepted. Failure to comply with the above instructions will cause delay.

Conditions of Applications Under Examination at Close of Business August 14, 1943

(Total number of applications awaiting action, excluding Trade-Mark Division, 39,872; Trade-Mark Division, 1071. Oldest new case, Oct. 13, 1942; oldest amended, Oct. 19, 1942.)
(The dates given are 1943 except where † indicates 1942)

Divisions, Examiners, and Subjects of Inventions	Oldest new application awaiting office action	Oldest amended application awaiting office action	No. of applications awaiting action
1. TUCKER, M. W., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Domestic Cooking Vessels; Sewerage.	May 3	May 7	268
2. HERRMANN, D., Fishing and Trapping; Bee Culture; Dairy; Animal Husbandry; Presses; Tobacco; Textile Wringers; Butchering.	Apr. 14	Apr. 10	289
3. WOLFFE, S., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	†Nov. 12	†Nov. 16	994
4. BISHOP, WALTER C., Conveyors; Hoists; Handling Apparatus; Excavating; Elevators; Fire Escapes; Ladders; Scaffolds; Pneumatic Dispatch; Store Service; Mining, Quarrying and Ice Harvesting.	†Dec. 14	Mar. 20	432
5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons, Clasps.	Feb. 11	Feb. 2	472
6. GENIESSE, E. W., Carbon Chemistry (part)	Jan. 20	Jan. 28	979
7. JARBOE, C. G., Optics; Photography	Mar. 6	Feb. 20	750
8. ADAMS, F. L., Furniture; Kitchen and Table Articles; Racks and Cabinets	Feb. 25	Mar. 3	528
9. BENSON, R. B., Pumps and Fans; Fluid and Fluid-Current Motors	Feb. 5	Jan. 19	748
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	Jan. 13	Jan. 14	338
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Stop Mechanisms	Mar. 8	Jan. 20	350
13. DONNELLY, A. E., Metal Working (part); Gear Cutting, Milling and Planing; Needle and Pin Making	Feb. 24	Feb. 18	590
14. HANLIN, GEORGE, Metal Working (part); Farriery; Wire Fabrics	Mar. 23	Mar. 27	498
15. HENKIN, BENJ., Glass, Plastic Block and Earthenware Apparatus; Plastics	Jan. 14	Feb. 11	785
16. SPENCER, C. J., Telegraphy; Telephony	Jan. 7	Jan. 9	583
17. HABECKER, LEON B., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet or Web Feeding; Type Setting.	†Nov. 12	†Oct. 30	679
18. KURZ, J. A., Motors, Expansible-Chamber Type; Power Plants; Speed Responsive Devices; Rotary Internal Combustion Engines.	†Dec. 26	†Dec. 21	617
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	†Dec. 12	†Dec. 24	503
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Undertaking; Bread, Pastry, and Confection Making; Laminated Fabrics (part).	Feb. 20	Feb. 9	468
21. THOMPSON, T. J., Textiles	Mar. 6	Mar. 12	272
22. RINGLE, D., Aeronautics; Firearms; Ordnance and Explosive Devices	†Nov. 10	†Nov. 10	1,792
23. BARROWS, B., Cash Registers; Calculators (part)	Feb. 15	Feb. 17	162
24. LUSBY, CHARLES, Apparel; Apparel Apparatus; Sewing Machines	Apr. 27	May 1	456
25. BLAKELY, C. P., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Feb. 3	Jan. 12	560
26. YOUNG, R. R., Electricity—Generation and Motive Power	†Dec. 21	†Dec. 23	786
27. CLARK, W. N., Brush, Broom, and Mop Making; Brushing, Scrubbing and General Cleaning; Textiles, Fluid Treating Apparatus; Ironing; Washing Apparatus.	Jan. 20	Jan. 11	546
28. SOLYOM, H. L., Internal-Combustion Engines (part); Cylinders and Pistons	†Nov. 5	†Dec. 8	632
29. SHKLARIN, J. B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Package and Article Carriers; Woodworking; Tools; Metal Working, Assembling.	Mar. 6	Apr. 9	408
30. McCANN, LEO P., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	May 3	Apr. 20	292
31. DUNCOMBE, C. S., Hydrocarbons; Mineral Oils	Mar. 1	Feb. 27	1,313
32. LESH, K., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Wells; Earth Boring.	Jan. 19	Feb. 1	635
33. HULL, J. S., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements	Mar. 8	Mar. 8	663
34. SAPERSTEIN, S., Electricity—Meters and Transmission to Vehicles; Railways; Track Sanders; Signals and Indicators.	Mar. 4	Mar. 13	440
35. BROMLEY, E. D., Card and Sign Exhibiting; Dispensing; Filling and Closing Portable Receptacles	Mar. 13	Mar. 2	479
36. McFADYEN, A. D., Automatic Weighers; Measuring and Testing; Force Measuring	May 14	May 8	291
37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Mar. 4	Feb. 25	466
38. KRAFFT, C. F., Coating Processes; Coating or Plastic Compositions (part)	Feb. 1	Jan. 16	603
39. WHITNEY, F. I., Fluid-Pressure Regulators; Valves; Water Distribution	Apr. 26	Apr. 3	410
40. DRUMMOND, E. J., Receptacles	May 13	May 12	481
41. HERTZ, M., Coin Handling; Recorders; Deposit Receptacles; Counters and Calculators (part); Typewriting Machines; Check-Controlled Apparatus.	Feb. 15	Feb. 24	392
42. MARANS, H., Electric Signaling	Apr. 24	Apr. 24	347
43. FEDERICO, P. J., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Fluid Treatment of Textiles; Azo Compounds.	†Dec. 12	†Dec. 3	816
44. HARVEY, L. P., Refrigeration	Feb. 10	†Dec. 2	267
45. HILL, H. D., Shafting and Flexible Shaft Couplings; Wheels and Axles; Resilient Tires and Wheels; Lubrication; Bearings and Guides; Motors; Belt and Sprocket Gearing; Spring Devices; Metal Forging and Welding; Land Vehicles (part).	Feb. 18	Mar. 1	718
46. BLEECKER, V. E., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers; Heating Systems; Coating Apparatus.	Apr. 13	Mar. 26	389
47. KANOF, WM. J., Clutches and Power Stops; Brakes; Boring and Drilling; Land Vehicles (part)	Jan. 20	Feb. 15	996
48. ROEPKE, O. B., Electricity, General Applications; Igniters	Jan. 1	Jan. 6	773
49. SHEFFIELD, E. L., Drying and Gas or Vapor Contact with Solids; Ventilation; Liquid Separation or Purification.	Feb. 16	Feb. 2	584
50. LEVIN, SAMUEL, Resins; Rubber; Carbohydrates and Derivatives	Jan. 25	Jan. 25	1,337
51. BACKUS, C. D., Radiant Energy	Jan. 14	Jan. 15	1,136
52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Pipes and Tubular Conduits.	Mar. 19	Feb. 27	643
53. PECK, M. K., Label Pasting and Paper Hanging; Toilet; Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas and Canes; Curtains, Shades and Screens; Cutlery.	Feb. 24	Mar. 9	171
54. STRACHAN, O. W., Electric Lamp and Discharge Devices (part)	†Nov. 13	†Dec. 15	539
55. BOWEN, S. T., Artificial Body Members; Dentistry; Surgery	†Nov. 25	†Nov. 21	751
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Laminated Fabrics (part); Paper Making	Feb. 15	Feb. 20	725
57. NICOLSON, G. D., Toys; Amusement and Exercising Devices; Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	Jan. 2	Jan. 7	459
58. DOWELL, E. F., Abrading; Bottles and Jars; Stone Working	Feb. 15	Feb. 5	539
59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Heterocyclic Compounds; Compositions (part).	†Oct. 13	†Oct. 19	1,203
60. GLASS, R. L., Electricity, Heating and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Marine Propulsion; Consumable Electrode Lamp and Discharge Devices.	†Dec. 12	†Dec. 16	528
61. YUNG-KWAI, B., Winding and Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery; Laminated Electrical Insulation, Belt, Hose, Tire and Ball Making; Boats and Buoys.	†Dec. 7	Jan. 21	475
62. PUGH, E. C., Games; Geometrical Instruments; Tables; Mechanical Guns and Projectors	Mar. 31	Feb. 26	442
63. WINKELSTEIN, A. H., Preserving; Poisons; Fermentation; Foods and Beverages; Proteins; Oils and Fats.	†Dec. 10	†Dec. 23	1,040
64. NASH, P. M., Acetylene; Gas Mixers; Compositions (part); Distillation; Fuel	Mar. 20	Mar. 18	1,052
65. McDERMOTT, F. P., Electrical Conductors, Conduits, Connectors and Insulators; Telegraphy, Wave Transmission; Telephony, Repeaters and Relays.	†Dec. 26	†Dec. 29	729
	June 17	July 1	1,071
Trade Marks: RICHMOND, F. A.	July 12	Aug. 2	263
Designs: KALUPY, H. H.			

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Appeals for the District of Columbia

SAFEWAY STORES, INCORPORATED, *v.* COE, COMMISSIONER OF PATENTS, and SOUTHERN INDEPENDENT OIL AND REFINING COMPANY, INC.

No. 8,206. Decided May 29, 1943

1. APPEAL—NONE FROM ORDER DENYING A MOTION FOR REHEARING.

Held settled that no appeal lies from an order denying a motion for rehearing.

2. FEDERAL RULES OF CIVIL PROCEDURE—MOTION FOR REHEARING.

A motion for rehearing *Held*, under the Federal Rules of Civil Procedure, to be in all respects the same as a motion for a new trial.

3. APPEAL—FINAL ORDER.

Where Safeway, after unsuccessfully opposing in the U. S. Patent Office the application of Southern for trade-mark registration, filed a complaint in the district court against the Commissioner of Patents and Southern, praying that the Commissioner be enjoined from issuing the registration; and the Commissioner moved to dismiss the complaint on the grounds that he was not a proper party to the action and that the action could not proceed against him in the absence of a necessary party, Southern; and the motion was sustained and the complaint dismissed, *Held* that the order of the district court dismissing the complaint was not preliminary and interlocutory, but final and appealable.

4. FEDERAL RULES OF CIVIL PROCEDURE—RULE 60.

A change in the law by a subsequent decision of a higher court *Held* neither a clerical mistake nor the mistake of a party within paragraphs (*a*) and (*b*) of rule 60 of the Federal Rules of Civil Procedure.

5. SAME—SAME.

With respect to the qualification in rule 60(*b*) of the Federal Rules of Civil Procedure that: "This rule does not limit the power of a court * * * to entertain an action to relieve a party from a judgment, order, or proceeding," *Held* that its purpose is "to preserve, without expanding, the substance of the bill of review."

6. SAME—SAME.

A motion for rehearing on the ground that a subsequent decision of a higher court has changed the law cannot be treated as a bill of review.

7. SAME—RULE 59.

Rule 59 of the Federal Rules of Civil Procedure is applicable to what were formerly petitions for rehearing in equity.

8. APPEAL—TIME FOR TAKING—SUSPENSION BY PETITION FOR REHEARING.

"The general rule is that the time for taking an appeal is suspended by a seasonably filed motion for new trial or petition for rehearing."

9. SAME—SAME—SAME.

In regard to the ruling in *Bowman* v. *Loperena*, 311 U. S. 262, 266, and *Pfister* v. *Finance Corp.*, 317 U. S. 144, that an unseasonably filed motion for rehearing which is considered on its merits suspends the time for taking an appeal *Held* that both these cases were suits in bankruptcy, and the statements of the court were based on the distinctive nature of bankruptcy proceedings.

10. SAME—SAME—SAME.

"We think that these bankruptcy cases were not intended to destroy the well established principle that a party may not avoid the effect of a mandatory rule or statute limiting the time, by filing late a motion for rehearing, even where the motion is considered on its merits."

11. SAME—SAME—SAME.

"Since motions for new trials and petitions for rehearing suspend the time for appeal because they deprive the judgment of finality, *Zimmern* v. *U. S.*, 298 U. S. 167, it follows that when a court loses its jurisdiction to entertain a motion for new trial or petition for rehearing, action by it cannot deprive the judgment of finality, and so cannot suspend the time for taking an appeal."

12. FEDERAL RULES OF CIVIL PROCEDURE—RULES 59 AND 6–(*b*).

Held that the purpose of rule 6–(*b*) of the Federal Rules of Civil Procedure, which forbids the court to enlarge the time for taking any action under rule 59, was to divest the court of jurisdiction to entertain a motion for rehearing filed out of time.

13. SAME—RULES 59, 6–(*b*), 6–(*c*).

"Rule 6–(*c*) now abolishes the effect of the expiration of the term on the power of the court to act, rule 59–(*b*) provides a definite time within which a motion for new trial may be made, and rule 6–(*b*) forbids the court to enlarge that time. If it were not thereby intended to make the running of that definite time as conclusive on the power of the court as was formerly the expiration of the term, there would be no limit on the power of the court to act and no finality when it did act. A construction which would empower the court to hear motions long out of time would destroy the rule, for by the very act of hearing, prohibited extensions could effectively be granted."

14. SAME—RULE 59–(*b*)—MOTION FOR REHEARING.

Held that upon dismissal by the district court of the complaint filed by Safeway against the Commissioner and Southern, Safeway had, under rule 59–(*b*) of the Federal Rules of Civil Procedure, only ten days in which to apply for a rehearing.

15. APPEAL—TIME FOR TAKING—SUSPENSION BY PETITION FOR REHEARING.

"No application having been made within ten days, the judgment became final and the subsequent filing of a motion did not clothe the court with new jurisdiction nor suspend the time for taking an appeal."

APPEAL from the District Court of the United States for the District of Columbia. Appeal dismissed.

MILLER, *A. J.*, dissenting.

Mr. A. W. Murray (*Mr. Eugene E. Stevens* of counsel) for Safeway Stores, Incorporated.

Mr. W. W. Cochran and *Mr. R. F. Whitehead* for the Commissioner of Patents.

Before GRONER, Chief Justice, MILLER, VINSON and EDGERTON, Associate Justices, and EICHER, Chief Justice of the District Court of the United States for the District of Columbia.

GRONER, *C. J.*:

This is a motion filed by Coe, Commissioner of Patents, to dismiss an appeal to this court taken by Safeway Stores, Incorporated. The essential facts are these: Southern Independent Oil and Re-

fining Company, Inc., filed in the Patent Office an application for registration of a trade-mark for gasoline, oils and greases. Safeway filed notice of opposition. The examiner of interferences dismissed the notice and the Commissioner affirmed. Safeway then filed a complaint in the district court against the Commissioner and Southern, praying that the Commissioner be enjoined from issuing the registration. The Commissioner moved to dismiss on two grounds: (1) that he was not a proper party to the action, and (2) that the action could not proceed against him in the absence of a necessary party, the Southern Independent Oil and Refining Company, Inc. The motion was sustained and the complaint dismissed October 17, 1941.

November 17, 1941, Safeway filed a motion for rehearing,[1] which was considered and denied January 17, 1942. February 14, 1942, Safeway gave notice of appeal to this court. July 6, 1942, the Commissioner filed a motion to dismiss the appeal on the grounds that the order of January 17, 1942, was not appealable, and that the time for taking an appeal from the order of October 17, 1941, dismissing the complaint had run.

[1] Safeway's notice of appeal states that it "hereby appeals . . . from the judgment of this court entered the 17th day of January, 1942 . . ." But the order of that date was one denying a motion for rehearing, and it is settled that no appeal lies from such an order. *Restifo* v. *Hartig*, 61 App. D. C. 252, 61 F.(2d) 404; *International Bank* v. *Securities Corp.*, 59 App. D. C. 72, 32 F.(2d) 968.

However, treating the appeal as one from the dismissal order of October 17, 1941, as we may, *U. S.* v. *Ellicott*, 223 U. S. 524, 539, the question presented is whether the filing and consideration of the motion for rehearing suspended the running of time for appeal.[2] If it did, the appeal was timely and the motion to dismiss should be overruled.

Rule 59–(*b*) of the Federal Rules of Civil Procedure provides that a motion for a new trial shall be served not later than ten days after the entry of judgment, unless the ground of the motion is newly discovered evidence, and rule 6–(*b*) provides that the court may not enlarge the period for taking any action under rule 59, or for taking an appeal as provided by law, with an exception not here relevant. Since the motion for rehearing in the instant case was not filed seasonably under these rules, the Commissioner argues that its filing and consideration did not toll the time for taking the appeal.

[2] Safeway, however, first contends that its motion was not one for a new trial under rule 59 and that that rule has no application. This, we think, is incorrect. The rule itself (59–(*a*)) states that:

"A new trial may be granted . . . in an action tried without a jury, for any of the reasons for which rehearings have heretofore been granted in suits in equity in the courts of the United States."

The Advisory Committee, in their notes, say:

"This rule represents an amalgamation of the petition for rehearing of Equity Rule 69 . . . and the motion for new trial."

And under Equity Rule 69 rehearings were granted "only upon such grounds as would authorize a new trial in an action at law." *Sheeler* v. *Alexander*, 211 Fed. 544, 547. Obviously, therefore, a petition for rehearing is, under the rules, in all respects the same as a motion for a new trial. *Penn Sportservice* v. *Goldstein*, 35 F. Supp. 706. See also *Fraser* v. *Doing*, 76 U. S. App. D. C. 111, 130 F.(2d) 617; *Nachod* v. *Automatic Signal Corp.*, 26 F. Supp. 418.

[3] [4] There can be no question that the original order of the district court was not preliminary and interlocutory, but final and appealable. It was a complete and definitive disposition of the cause before the court. The only provisions in the rules for the modification or vacation of such an order are found in rules 59 and 60. The latter is clearly inapplicable. Paragraph (*a*) provides for the correction of clerical mistakes, paragraph (*b*) for the relief of a party from *his* mistake, inadvertence, surprise, or excusable neglect. A change in the law by a subsequent decision of a higher court is neither a clerical mistake nor the mistake of a party. *Nachod* v. *Automatic Signal Corp.*, 32 F. Supp. 588.

[5] [6] Paragraph (*b*) is qualified by the following language:

" . . . This rule does not limit the power of a court (1) to entertain an action to relieve a party from a judgment, order, or proceeding, or (2) to set aside within one year, . . . a judgment obtained against a defendant not actually personally notified."

Obviously the second qualification is inapplicable. As for the first, in *Fraser* v. *Doing*, supra, we said that its purpose was to preserve, without expanding, the substance of the bill of review. Under the old equity procedure the bill of review served substantially the same purpose after term as the petition for rehearing served during term and consequently would not lie until the time for filing a petition for rehearing had passed. *Fraser* v. *Doing*, supra, cite: Moore, Federal Practice (1938) § 59.02. But the grounds that would sustain a bill of review were more limited than those that would sustain a petition for rehearing. Thus a subsequent decision of a higher court changing the law would lay the foundation for a petition for rehearing, *Simmons Co.* v. *Grier Bros.*, 258 U. S. 82, 312 O. G. 826, but would not lay the foundation for a bill of review. *Scotten* v. *Littlefield*, 235 U. S. 407; *Simmons* v. *Grier*, supra; *Swift* v. *Parmenter*, 22 F.(2d) 142. See also *Frederick der Grosse*, 37 F.(2d) 354 (libel of review). Since such a subsequent decision is precisely the ground of the motion made in this case it follows that it cannot, and it is not alleged that it can, be treated as a bill of review.

[1] The motion was "for rehearing . . . and to vacate the Order . . . dismissing the complaint" on the ground that the dismissal was contrary to the subsequent holding of this court in *Tomlinson of High Point* v. *Coe*, 74 App. D. C. 364, 123 F.(2d) 65, 535 O. G. 211. This motion was permitted to be filed, considered by the court, and the rehearing denied.

[2] Rule 10 of this court requires the appeal to be taken within 30 days.

[7] In this view the present motion must be considered as addressed to the exercise of the power of the trial court under rule 59. That rule is applicable to what were formerly petitions for rehearing in equity. In *Atchison, Topeka & Santa Fe Ry.* v. *U. S.*, 284 U. S. 248, 260, the Supreme Court said that a petition for rehearing directs attention

"to matters said to have been overlooked or mistakenly conceived in the original decision and thus invites a reconsideration upon the record upon which that decision rested."

Whatever it may be designated, that is what the motion here does.

If this is a correct statement of the purpose and effect of the new rules, it follows that the motion, not having been served within ten days after the entry of judgment, was too late, and that the appeal from the order of dismissal entered October 17, 1941, not having been taken until February 14, 1942, was likewise too late, unless, as Safeway contends, the order of dismissal was suspended when the motion for rehearing was allowed and considered by the court.

[8] [9] Unquestionably, the general rule is that the time for taking an appeal is suspended by a seasonably filed motion for new trial or petition for rehearing. *Morse* v. *U. S.*, 270 U. S. 151, 154. In that case the Court said:

"The suspension of the running of the period limited for the allowance of an appeal, after a judgment has been entered, depends upon the due and seasonable filing of the motion for a new trial or the petition for rehearing."

It is argued, however, as has been seen, that an unseasonably filed motion which is considered on its merits also suspends the time. It is true that this has been said recently in two cases. *Bowman* v. *Loperena*, 311 U. S. 262, 266; *Pfister* v. *Finance Corp.*, 317 U. S. 144. In the former the Court said:

" . . . where the court allows the filing [of an untimely petition for rehearing] and, after considering the merits, denies the petition, the judgment of the court as originally entered does not become final until such denial, and the time for appeal runs from the date thereof."

The latter confirms this rule but points out that it applies only where the issues of the original order are actually reexamined by the court. Where they are not so reexamined and the court merely considers whether the petition sets out grounds for opening the original order and determines that no grounds are shown, the time for review of the original order is not enlarged. But this latter contingency is one we are not concerned with here, since it sufficiently appears from the order of the court, when considered with the petition, that the ground assigned was an error in law in the original decree and that that decree was reexamined. If, therefore, the rule to be applied here is that stated in the Loperena and Pfister cases, Safeway's appeal was in time.

But both the Loperena and Pfister cases were suits in bankruptcy, and the statements of the court were based, we think, on the distinctive nature of bankruptcy proceedings. This conclusion is supported by *Wayne U. Gas Co.* v. *Owens*, 300 U. S. 131. 136. which applied a similar rule and upon which both later cases relied. That, too, was a bankruptcy case in which an untimely petition for rehearing was considered on its merits. In holding that the time for appeal was thereby suspended, the Court said:

"Though a court of bankruptcy sits continuously and has no terms, respondents urge that, as courts of bankruptcy are courts of equity, the rules applicable to the rehearing of a suit in equity should be applied in bankruptcy cases, and as it appears the term of the district court expired April 20, 1936, the court had lost its power to disturb the order of March 2nd. A court of equity may grant a rehearing, and vacate, alter, or amend its decree, after an appeal has been perfected and after the time for appeal has expired, but not after expiration of the term at which the decree was entered. It is true the bankruptcy court applies the doctrines of equity, but the fact that such a court has no terms, and sits continuously, renders inapplicable the rules with respect to the want of power in a court of equity to vacate a decree after the term at which it was entered has ended."

[10] Two other cases are cited in the Loperena case, *Voorhees* v. *Noye Co.*, 151 U. S. 135, and *Gypsy Oil Co.* v. *Escoe*, 275 U. S. 498. The former holds no more than that a timely motion for rehearing can properly be considered and disposed of in a new term. The latter is authority only for the proposition that if a timely motion for leave to file a second petition for rehearing is granted and the petition is accordingly entertained by the court, the time for application for certiorari begins to run from the day when the court denies the second petition. Considered in their setting then, we think that these bankruptcy cases were not intended to destroy the well established principle that a party may not avoid the effect of a mandatory rule or statute limiting the time, by filing late a motion for rehearing, even where the motion is considered on its merits. We find no case in law or equity so holding.

[11] Since motions for new trials and petitions for rehearing suspend the time for appeal because they deprive the judgment of finality, *Zimmern* v. *U. S.*, 298 U. S. 167, it follows that when a court loses its jurisdiction to entertain a motion for new trial or petition for rehearing, action by it can not deprive the judgment of finality, and so cannot suspend the time for taking an appeal. Compare the bankruptcy cases in which the court had never lost its jurisdiction.

[12] [13] We think that the purpose of rule 6–(*b*), which forbids the court to enlarge the time for taking any action under rule 59, was to divest the court of jurisdiction to entertain a motion of this kind filed out of time. We said this much in *Hill* v. *Hawes*, 132 F.(2d) 569, 571, where it was held that the "prohibition of rule 6–(*b*) . . . is absolute." Prior to the adoption of the present Rules of Procedure, Federal courts had no power to entertain motions for new trials or petitions for rehearings after the term had expired *U. S.* v. *Mayer*, 255 U. S. 55 (new trial); *Lewisburg Bank* v. *Sheffey*, 140 U. S. 445; *Wayne Gas Co.* v. *Owens*, supra (rehearings). Rule 6–(*c*) now abolishes the effect of the expiration of the term on the power of the court to act, rule 59–(*b*) provides a definite time within which a motion for new trial may be made, and rule 6–(*b*) forbids the court to enlarge that time. If it were not thereby intended to make

the running of that definite time as conclusive on the power of the court as was formerly the expiration of the term, there would be no limit on the power of the court to act and no finality when it did act. A construction which would empower the court to hear motions long out of time would destroy the rule, for by the very act of hearing, prohibited extensions could effectively be granted. As was said in *National Popsicle Corp.* v. *Hughes*, 32 F. Supp. 397, 399:

"The power of the court over its final judgments must end some time. If the period of termination is specified in the Rules of Civil Procedure, that period governs . . . rule 6(c) is not itself a grant of power beyond the term."

See also *Marshall's Auto Supply* v. *Cashman*, 111 F.(2d) 140; *Abruzzino* v. *Nat. Union Fire Ins. Co.*, 35 F. Supp. 925; *Nachod* v. *Auto Signal Corp.*, 26 F. Supp. 418; *Reed* v. *South Atlantic S. S. Co.*, 2 F. R. D. 475; Moore, Federal Practice (1938) § 6.09; Hughes, Federal Practice (1940) § 19374.

[14] [15] In view of all of the above, we are of opinion that Safeway had only ten days after the judgment in which to apply for a rehearing, and that the court had no power to entertain its application after ten days had passed. No application having been made within ten days, the judgment became final and the subsequent filing of a motion did not clothe the court with new jurisdiction nor suspend the time for taking an appeal.

Appeal dismissed.

MILLER, *A. J.* (dissenting):

In my opinion, the majority has misconceived the meaning of rule 59, and, if its decision stands, the rule will be distorted in its application, to the serious prejudice of litigants in the Federal courts. The important question of the case is whether appellant's motion of November 17, 1941 was a motion for new trial within the meaning of rule 59(*a*)(*b*). The majority concludes that it was, by the following process of reasoning: (1) A new trial may be granted, under the rule, for any of the reasons for which rehearings have heretofore been granted in suits in equity, under Equity Rule 69; (2) under Equity Rule 69, rehearings were granted only upon such grounds as would authorize a new trial in an action at law; (3) therefore, all petitions which are entitled motions for rehearing are, under the rules, in all respects, the same as motions for new trials.

The logical conclusion which flows from the two premises of the majority opinion is that the grounds which may properly be urged in support of petitions for rehearing and for new trial are the same. It would seem to follow that, if a motion does not purport to be for a new trial, and is based on no ground which is appropriate to such a motion, it is not in fact a motion for new trial, even though the word rehearing does appear in it. That is the situation of the present case.[1] The language of the New York court in *Belmont* v. *The Erie Railway Company*[2] is particularly apt in explaining it:

"Some confusion has arisen, perhaps, from the use of the word 'rehearing' in the motion papers, when this matter first came before me. That term, technically speaking, was appropriate only to the proceeding in chancery by which a certain class of errors in a decree or decretal order could, before enrollment, be corrected. *But it had no application to orders made upon mere motion.* Those could not be reached by a 'rehearing,' but were varied or discharged by the court, on application by motion." [Italics supplied.]

I agree that it was the purpose of the rule-makers to include rehearings within the compass of rule 59 so far as a rehearing in equity was the equivalent of a new trial. It was also, undoubtedly, their purpose to limit, severely, the time within which motions for new trials may be filed. The reasons for the rule is to minimize the "monstrous penalty"[3] which results from the granting of a new trial; to avoid so far as possible the reexamination of facts once judicially determined; to save the time, trouble, and expense involved in reassembling juries, recalling witnesses, and otherwise repeating the necessarily elaborate trial process.

It would be an entirely different matter to require a person, who has never had his constitutionally guaranteed first trial, to conform to the severe limitations of a rule regulating new trials. No such requirement existed prior to adoption of the rules. An examination of the authorities reveals, clearly, that a motion for new trial is not, and never was, intended to challenge orders which determine questions of law, preliminary to trial; such as was determined by the district court in the present case. Blackstone defined a new trial as[4]

"a rehearing of the cause before another jury; but with as little prejudice to either party, as if it had never been heard before."

His discussion of the subject makes it perfectly clear that it meant to him the retrial of an issue

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[1] The title of the motion is: "Plaintiff's Motion for Rehearing and to Vacate Order Dismissing Complaint and To Deny Defendant's Motions to Dismiss the Complaint." The body of the motion reads: "Now comes the plaintiff, Safeway Stores, Incorporated, and moves the court for rehearing; and moves the court to vacate the Order dated October 17, 1941, dismissing the Complaint on motion of the defendant, Conway P. Coe, Commissioner of Patents, and to deny said defendant's Motion to Dismiss the Complaint, and to require said defendant to answer. The ground for this motion is: That dismissal of the Complaint is contrary to the subsequent holding in—*Tomlinson of High Point* v. *Coe, Commissioner of Patents* (No. 7619, decided Oct. 27, 1941). An oral hearing is requested."

[2] 52 Barb. [N. Y.] 637, 651.

[3] 1 Wigmore, Evidence (3d ed., 1940) § 21 p. 395: "Just as English legislators, after yielding to the twenty years' pleadings of Romilly, discovered after all that the enjoyment of the right of property in chattels could survive, without the fancied protection of the death-penalty for larceny,—so we shall some day awake to be convinced that a system of necessary rules of Evidence can exist and be obeyed, without affixing indiscriminately to every contravention of them the monstrous penalty of a new trial."; cited by EDGERTON, *J.*, dissenting in *Lindsey* v. *United States*, —U. S. App. D. C.—, 133 F.(2d) 368, 380; *Freid* v. *McGrath*, —U. S. App. D. C.—, 133 F.(2d) 350, 355.

[4] 3 Bl. Comm. 391–392: "Nor is it granted where the scales of evidence hang nearly equal: that which leans against the former verdict ought always very strongly to preponderate." Accord: *Gott* v. *Judge of Superior Court*, 42 Mich. 625, 4 N. W. 529.

of fact. In the case of *Bright* v. *Eynon*[5] decided in 1757, Lord Mansfield said:

"Trials by jury, in civil causes, could not subsist now, without a power, somewhere, to grant new trials. If an erroneous judgment be given in point of law, there are many ways to review and set it right. Where a court judges of fact upon depositions in writing, their sentence or decree may, many ways, be reviewed and set right. But a general verdict can only be set right by a new trial: which is no more than having the cause more deliberately considered by another jury; where there is a reasonable doubt, or perhaps a certainty, that justice has not been done. * * * The reasons for granting a new trial must be collected from the whole evidence, and from the nature of the case considered under all its circumstances'."

In the case of *Dodge* v. *Bell*[6] the Supreme Court of Minnesota said:

"The causes for a new trial specified in section 253, with the modes for presenting the application provided in sections 254 and 255, show that the terms 'new trial,' when used in the statute, mean, as at the common law, a retrial of issues of fact."

In *Garden City Feeder Co.* v. *Commissioner of Internal Revenue*, the Court of Appeals for the Eighth Circuit said:[7]

"At common law a new trial was a retrial in the same court on an issue or issues of fact after a verdict by a jury, and *a new trial recognizes a complete trial which for sufficient reason has been set aside*, so that the issues may be relitigated." [Italics supplied.]

The new rules of federal civil procedure are based largely upon the experience of States, in which such rules as the one presently involved have been the subject of interpretation for many years. With monotonous uniformity the decisions of those States define a motion for new trial as an application for retrial of an issue or issues of fact;[8] and a new trial, itself, as a reexamination of an issue or issues of fact.[9] In the code States a new trial is frequently defined by statute as a reexamination in the same court of an issue of fact, after a verdict by a jury, report of a referee or decision by the court, or in similar terms; invariably emphasizing that it is an issue of fact which is to be retried, after a trial already had.[10] Whether the former trial was by a jury, the court, or upon the report of a referee, may be immaterial; but there must have a trial of an issue of fact in any event.[11] And in the absence of a trial of an issue of fact, the court has no power to entertain, or grant, a motion for a new trial.[12] The Supreme Court of Alabama says of a new trial:

"There must have been the trial and decision of an issue of fact, and the motion must involve a re-examination of that issue after a trial and decision of it."[13]

The Supreme Court of Montana, interpreting a similar rule, held:[14]

". . . the clear intendment of the statute is that the notice of motion for a new trial shall only be given after all the issues of fact necessary to a determination of the whole case upon the pleadings have been decided and determined."

The Texas Court of Appeals has said of a new trial that it

"contemplates that a case has been tried, a judgment rendered, and on motion therefor said judgment set aside and a new trial granted."

It distinguished the situation

"where, before a trial is completed and judgment rendered, the trial court concludes there is some error or irregularity that prevents a proper judgment being rendered, in which event he may declare a mistrial."[15]

The same point is made by the Supreme Court of California, interpreting a similar rule, in the following language:[16]

"Where the motion embraces several issues, some of which are tried by the court and some by a jury, a notice of intention to move for a new trial, served and filed after the verdict on the issues submitted to the jury, but before the decision on the issues tried by the court, is premature and gives 'to the court no power to act upon the motion which should thereafter be made under the notice'."

A motion for new trial is unauthorized where a case is tried upon an agreed statement of facts,[17] or when it is submitted on the pleadings.[18] Even issues of fact may not be the subject of a new trial, if they arise in connection with motions, such as one for stay of execution, as the only issues of fact which may be retriable are those raised by ordinary formal pleadings.[19]

Specifically, a motion for new trial cannot be used to challenge an order which determines a question of law, upon a motion made preliminary to trial.[20] It is for this reason that the penetrating distinction drawn by the Kentucky Court of Appeals in *Riglesberger* v. *Bailey*[21] is peculiarly apt in the present case:

"Upon a default judgment, there has manifestly been no trial, verdict, or decision, within the meaning of the

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[5] 1 Burr. 390, 393, 395, 97 Eng. Rep. 365, 366, 367. See, generally, *Gunn* v. *Union R. R.*, 23 R. I. 289, 49 A. 999, 1002; *Warner* v. *Goding*, 91 Fla. 260, 107 So. 406.

[6] 37 Minn. 382, 383, 34 N. W. 739–740.

[7] 75 F.(2d) 804, 805, 806.

[8] *Watkins* v. *Sedberry*, 155 Tenn. 181, 290 S. W. 970; *Buchanan* v. *James*, 134 Ga. 475, 68 S. E. 72; *Schneidt* v. *Schneidt*, 69 Ind. App. 666, 122 N. E. 588; *Chivers* v. Board of Com'rs. 62 Okl. 2, 161 P. 822; *Emerson* v. *Eldorado Ditch Co.*, 18 Mont. 247, 252, 44 P. 969, 971; *Gray* v. *Cotton*, 174 Cal. 256, 258, 162 P. 1019, 1020.

[9] *Humphreys* v. *Walton*, 65 Ky. 580; *Warner* v. *Goding*, 91 Fla. 260, 265, 107 So. 406, 408; *Mobile Light & R. R.* v. *Hansen*, 135 Ala. 284, 33 So. 664; *Zaleski* v. *Clark*, 45 Conn. 397, 401, 404; *Darling* v. *Atchison, T. & S. F. Ry.*, 76 Kan. 893, 93 P. 612; *Younger* v. *Moore*, 8 Cal. App. 237, 241, 96 P. 1093, 1095; *Mitter* v. *Black Diamond Coal Co.*, 28 Wyo. 439, 445, 206 P. 152, 154; *Armstrong* v. *Gresham*, 70 Colo. 502, 202 P. 706; *Oxford* v. *State*, 80 Okl. 103, 194 P. 101; *Taylor* v. *Taylor*, 61 Or. 257, 121 P. 431; *Caldwell* v. *Wells*, 16 Idaho 459, 101 P. 812. See *Brown* v. *Moore*, 79 Me. 216, 9 A. 355; *Hartman* v. *Rose*, 20 A. 29 (N. J. L.).

[10] *Ray* v. *Arnett*, 32 Ky. L. 562, 106 S. W. 828; *Riglesberger* v. *Bailey*, 102 Ky. 608, 44 S. W. 118; *Bottineau Land & Loan Co.* v. *Hintze*, 150 Iowa 646, 125 N. W. 842; *State* v. *Southwestern Bell Telephone Co.*, 115 Kan. 236, 267, 223 P. 771, 786; *Pennsylvania Co.* v. *Potter*, 108 Okl. 49, 51, 233 P. 700, 701; *Howland* v. *Day*, 125 Wash. 480, 491, 216 P. 864, 868; *Tucker* v. *Hypotheek Min. & Mill Co.*, 31 Idaho 466, 173 P. 749; *In re Stinger's Estate*, 61 Mont. 173, 201 P. 693; *"W" Sheep Co.* v. *Pine Dome Oil Co.*, 32 Wyo. 61, 66, 228 P. 799, 801; *School Dist. No. 14* v. *School Dist. No. 4*, 64 Ark. 483, 43 S. W. 501.

[11] *Garden City Feeder Co.* v. *Commissioner of Internal Rev.*, 8 Cir., 75 F.(2d) 804, 806; *Buchanan* v. *James*, 134 Ga. 475, 68 S. E. 72; *Tucker* v. *Hypotheek Min. & Mill. Co.*, 31 Idaho 466, 173 P. 749; *Rosner* v. *Cohn*, 81 N. J. L. 343, 79 A. 1056; *Brunnabend* v. *Tibbles*, 76 Mont. 288, 246 P. 536; *Buckhouse* v. *Parsons*, 60 Mont. 156, 162, 198 P. 444, 445.

[12] *Tucker* v. *Hypotheek Min. & Mill. Co.*, 31 Idaho 466, 173 P. 749; *Rooker* v. *Bruce*, 171 Ind. 86, 85 N. E. 351; *In re Keating's Estate*, 162 Cal. 406, 410, 122 P. 1079, 1081.

[13] *Mobile Light & R. R.* v. *Hansen*, 135 Ala. 284, 33 So. 664.

[14] *Calvert* v. *Anderson*, 78 Mont. 334, 340, 254 P. 184, 186. Accord: *Boardman Co.* v. *Board of Com'rs*, 70 Okl. 245, 174 P. 272, overruled by *Chicago, R. I. & P. Ry.* v. *Reynolds*, 157 Okl. 268, 12 P. (2d) 208, 212, but on another point.

[15] *Cortimeglia* v. *Herron*, 281 S. W. 305, 306 (Tex. Civ. App.).

[16] *Barnes* v. *Foley*, 189 Cal. 226, 207 P. 885.

[17] *Durant* v. *Nesbit*, 59 Okl. 11, 157 P. 353; *Monteverde* v. *Superior Court*, 60 Cal. App. 252, 257, 212 P. 690, 692.

[18] *Abbey Land & Improvement Co.* v. *San Mateo County*, 167 Cal. 434, 139 P. 1068.

[19] *Gray* v. *Cotton*, 174 Cal. 256, 162 P. 1019; *Gormally* v. *Simon*, 42 Mont. 219, 111 P. 1033.

[20] *Younger* v. *Moore*, 8 Cal. App. 237, 241, 96 P. 1093, 1095.

[21] 102 Ky. 608, 44 S. W. 118.

foregoing provisions as to new trials; and we think, therefore, the provisions as to application within three days is inapplicable. There being no provision controlling the matter, the common-law rule must prevail, by which courts have control over their judgments during the term at which they are rendered; and consequently motions to set aside such judgments may be made at any time during such term. There would seem to be, moreover, no special reason for requiring motions of this kind to be made within three days. This court has several times said *there is good reason for requiring motions for a new trial of the verdict of a jury or trial by a court to be made speedily;* that is, the danger that the incidents of the trial may be forgotten or remembered differently. *No such reasons exist as to default judgments*; and while a contrary view seems to have been taken in *Harris* v. *Ray* (1855) 15 B. Mon. 628, we are not disposed to follow it, and extend the application of technical rules when not required to apply them either by the letter or the reason of the law. The case cited has long ceased to be generally followed, and is overruled." [Italics supplied.]

The same results follow, and a motion for new trial is improper, whether the order challenged is for the entry of a default [22] or for its vacation.[23] In neither case is an issue of fact tried; hence, there is no basis upon which a new trial could be had.

Questions as to the sufficiency of pleadings,[24] and as to the jurisdiction of the court, cannot be raised by motions for new trial.[25] Hence, a motion for new trial, challenging the court's order sustaining or overruling a demurrer, is a nullity.[26] The order of a court denying a motion to dissolve a temporary injunction cannot be made the subject of a motion for a new trial; [27] nor can the dismissal of a plea. [28] It has been held in some States that, as a motion for a nonsuit admits every material fact which the evidence tends to prove, it presents only a question of law; and that if it is granted and a judgment of dismissal entered; thus terminating the case before a verdict or decision upon the issues of fact, a motion for new trial is not the proper way of testing the correctness of the ruling.[29]. An order reinstating a cause for trial, following a voluntary nonsuit, is not an order for new trial, because there has been no previous examination of an issue of fact.[30]

The only questions of law which may be presented by motion for new trial are those which arise upon the pleadings,[31] during the trial of issues of fact.[32] Hence, even a motion for rehearing of an order which follows a trial is not necessarily the equivalent of a motion for new trial. Suppose, for example, that a trial court grants a motion for a new trial. Opposing counsel then petitions for a rehearing upon the court's action in granting it. Would anyone seriously contend that the petition is in all respects the same as a motion for a new trial? What is sought in such a case is the exact opposite of a new trial; its purpose is to prevent a new trial and to reinstate the verdict. But, presumably, the theory of the majority opinion would require the conclusion that such a motion is one for a new trial.

It has been held that the order of a court denying a motion to set aside a judgment is not the subject of a motion for new trial.[33] The Supreme Court of Colorado has said:

"The motion for judgment notwithstanding the verdict raises no question of fact, but of law only; consequently a motion for a new trial has no application to a ruling upon such motion." [34]

The hearing of a motion to correct the record of a judgment is not a trial and provides no basis for a motion for new trial; [35] nor does an exception to the form or sufficiency of a decree.[36]

In the code States where the procedures of law and equity have been integrated, as in the new Federal rules, the conditions which surround the use of motions for new trials are the same in both types of cases.[37] That is the reason why the code definitions of new trial speak in terms of retrial of issues of fact, following either the verdict of a jury or determination of such issues of fact by the judge, himself, or upon the report of a referee or master. Many of the opinions heretofore cited in this opinion decided cases which, under the older forms of practice, would have been in equity.

Approaching the problem from another angle, we get the same result, contrary to that reached by the majority opinion. A "rehearing," when used in the sense of a new trial, is defined by the authorities as a second hearing of the cause involved in a decree or order entered by an equity court on the

[22] *Mitter* v. *Black Diamond Coal Co.*, 28 Wyo. 439, 445, 206 P. 152, 154; *Ervin School Tp.* v. *Tapp*, 121 Ind. 463, 23 N. E. 505; *State* v. *District Court*, 49 Mont. 595, 144 P. 159, 161; *Price & Miller* v. *Ratcliffe*, 47 Okl. 370, 148 P. 153; *Adams & Adams* v. *Howard*, 14 Vt. 158.

[23] *Taylor* v. *Taylor*, 61 Or. 257, 121 P. 431; *Crossland* v. *Admire*, 118 Mo. 87, 24 S. W. 154.

[24] *Pearl* v. *Rawdin*, 5 Day [Conn.] 244, 250; *Harbin* v. *Hunt*, 151 Ga. 60, 105 S. E. 842; *Simpson* v. *Wicker*, 120 Ga. 413, 47 S. E. 965 (failure to attach a bill of particulars); *Mann* v. *Barkley*, 21 Ind. App. 152, 51 N. E. 946; *Gravelle* v. *Minneapolis & St. L. Ry.*, 11 F. 569, 571; *Johnson* v. *Shuford*, 91 Conn. 1, 98 A. 333; *Baldwin* v. *O'Brian*, 1 N. J. L. 418; *Goslin* v. *Wilcock*, 2 Wils., K. B. 303, 95 Eng. Rep. 824; *Lupton* v. *Coffel*, 47 Ind. App. 446, 94 N. E. 799; *Knickerbocker Ice Co.* v. *Gray*, 165 Ind. 140, 72 N. E. 869; *Haugh* v. *Haywood*, 69 Ind. App. 286, 121 N. E. 671.

[25] *State* v. *Cady*, 47 Conn. 44; *Houssels* v. *Coe & Hampton*, 159 S. W. 864, 866 (Tex. Civ. App.). Cf. *Alden* v. *Superior Court*, 186 Cal. 309, 315, 199 P. 29, 32 (where the question of jurisdiction required the trial of an issue of fact).

[26] *Schneidt* v. *Schneidt*, 69 Ind. App. 666, 122 N. E. 588; *Chivers* v. *Board of Com'rs*, 62 Okl. 2, 161 P. 822; *Vickers* v. *Robinson*, 157 Ga. 731, 122 S. E. 405; *Perry* v. *Acree*, 165 Ga. 446, 141 S. E. 212; *Jenness* v. *Co-operative Publishing Co.*, 36 Idaho 697, 213 P. 351.

[27] *Anderson* v. *Englehart*, 18 Wyo. 196, 105 P. 571.

[28] *Butler* v. *Georgia Agricultural Credit Corporation*, 37 Ga. App. 390, 140 S. E. 426.

[29] *Buchanan* v. *James, Com'r*, 134 Ga. 475, 68 S. E. 72; *Tucker* v. *Hypotheek Min. & Mill. Co.*, 31 Idaho 466, 173 P. 749; *Carscallen* v. *Lakeside Highway Dist.*, 44 Idaho 724, 260 P. 162; *Murad* v. *New York, N. H. & H. R. R.*, 34 R. I. 312, 83 A. 436; *Deyo* v. *Hudson*, 226 N. Y. 685, 123 N. E. 851. Contra: *In re Stinger's Estate*, 61 Mont. 173, 182, 201 P. 693, 696.

[30] *First Christian Church* v. *Robb*, 69 Or. 283, 138 P. 856.

[31] *Oxford* v. *State*, 80 Okl. 103, 194 P. 101; *State* v. *Kelly*, 57 Mont. 123, 187 P. 637; *Ashton* v. *Thompson*, 28 Minn. 330, 336, 9 N. W. 876, 878.

[32] *Glendenning* v. *Slayton*, 55 Mont. 586, 179 P. 817; *Buettinger* v. *Hurley*, 34 Kan. 585, 9 P. 197; *In re Stinger's Estate*, 61 Mont. 173, 182, 201 P. 693, 696; *Alden* v. *Superior Court*, 186 Cal. 309, 199 P. 29, 32: ". . . motions for new trial do not lie from rulings of the courts on questions of fact collaterally raised, and which do not call for formal trial, and where no provision is made for framing issues under the proceedings, such as proceedings supported by affidavits, applications to set apart exempt property, family allowances, and proceedings of similar character." See, *Mann* v. *Barkley*, 21 Ind. App. 152, 51 N. E. 946; *Linden* v. *Green*, 81 Iowa 365, 46 N. W. 1108.

[33] *Continental Gin Co.* v. *Arnold*, 66 Okl. 132, 138, 167 P. 613, 618.

[34] *Armstrong* v. *Gresham*, 70 Colo. 502, 202 P. 706; *Fincher* v. *Edwin M. Bosworth & Co.*, 76 Colo. 69, 230 P. 596.

[35] *Citizens' Trust Co.* v. *Wheeling Can Co.*, 199 Ind. 311, 157 N. E. 441.

[36] *Vickers* v. *Robinson*, 157 Ga. 731, 122 S. E. 405.

[37] *School Dist. No. 14*, v. *School Dist. No. 4*, 64 Ark. 483, 43 S. W. 501; *State* v. *Templeton*, 21 N. D. 470, 130 N. W. 1009.

former hearing.[38] In States upon whose experience the Federal civil procedure rules are based, rehearing, when used in the sense of a new trial, has been defined as a reopening of the case for a redetermination of basic facts; [39] with notice to the parties, and an opportunity for them to be heard.[40] In this sense, only, is it properly regarded as synonymous with new trial.[41] The vital distinction was clearly made by the Supreme Court of Michigan in the McLean case; [42]

"Appellant contends that the Department had no power to amend its original order, since this was, in effect, equivalent to the granting of a rehearing. *Guss* v. *Ford Motor Co.*, 275 Mich. 30, 265 N. W. 515. The rule of the Guss case, precluding the granting of rehearings, does not mean that the Department may not correct a mistake in its original order. *A rehearing involves a reopening of the case for a redetermination of basic facts.*" [Italics supplied.]

The connotation which should be given to the word rehearing, as it was used by appellant in the present case, is much more nearly that which is given to the word when used in seeking reconsideration, by an appellate court, of its own decision, upon questions of law; namely, "an appeal from this court to itself." [43] The Supreme Court has defined it as follows:

"Ordinarily, a petition for rehearing is for the purpose of directing attention to matters said to have been overlooked or mistakenly conceived in the original decision and thus *invites a reconsideration upon the record upon which that decision rested.*" [44] [Italics supplied.]

The purpose of such a petition is to give the court an opportunity to correct its own errors. A trial court needs that opportunity, and is entitled to the privilege, just as much as an appellate court. No monstrous penalty of a new trial is necessary to achieve this end. We should encourage, rather than discourage, open-minded review of such petitions, and prompt action thereon.

When used in this sense, a petition for rehearing resembles, also, a bill of review, when such a bill is used for the limited purpose of securing reexamination of questions of law, on the theory that there is error apparent upon the face of the record. [45] As we pointed out in *Fraser* v. *Doing*,[46] it was the intention of the rule-makers to preserve the remedy formerly available by bill of review; that the purpose of the bill of review "is to permit the same court to examine its earlier record, and to answer the challenge made to its accuracy;" but that a bill of review is not available until the time for a motion for new trial has passed. What possible purpose could be served by including within the scope of a motion for new trial all requests for reconsideration, by the trial court, of its rulings upon preliminary questions of law, when, by waiting until the time for requesting a new trial has passed, a litigant can raise the same questions by bill of review. Such an interpretation of rule 59 would result in serious prejudice to litigants, in the early stages of litigation, and an undesirable stimulation of the filing of bills of review.

The majority's interpretation of Equity Rule 69 violates, also, it seems to me, the spirit of the other equity rules. Thus, rule 72 provided, generally, for the correction, not only of clerical mistakes in decrees or decretal orders, but of errors arising from accidental slip or omission, "upon petition, *without the form or expense of a rehearing.*" [Italics supplied.] This provision is carried over into the new rules, in rule 60(*a*). It is made applicable to "judgments, orders, *or other parts of the record*, and errors *therein* arising from oversight or omission," upon the initiative of the court, "*or on the motion of any party.*" [Italics supplied.] Several of the equity rules provided expressly for corrective action, as applied to preliminary rulings. Rule 5 provided for the suspension, alteration, or rescinding by the judge, upon special cause shown, of actions by the clerk in issuing process, taking bills pro confesso, and otherwise. Rule 17 provided for the setting aside of orders pro confesso, or enlarging the time for filing answer; upon cause shown, upon motion and affidavit. Rule 29 abolished demurrers and pleas, and provided:

"Every defense heretofore presentable by plea in bar or abatement shall be made in the answer and *may be separately heard and disposed of before the trial of the principal case* in the discretion of the court." [Italics supplied.]

That was exactly the situation of the present case; the principal case never came to trial: the situation was not one appropriate for rehearing in the sense of a new trial. Instead, it was one appropriate for application of rule 19, which provided, generally, that process, proceedings, pleadings, or record might be amended by permission of the court and that:

"The court, at every stage of the proceeding must disregard any error or defect in the proceeding which does not affect the substantial rights of the parties."

[38] 3 Bl. Comm. 453–454: "When all issues are tried and settled, and all references to the master ended, the cause is again brought to hearing upon the matters of equity reserved; and a final decree is made; the performance of which is enforced (if necessary) by commitment of the person, or sequestration of the person's estate. . . . And if, by this decree, either party thinks himself aggrieved, he may petition the chancellor for a rehearing; whether it was heard before his lordship, or any of the judges, sitting for him, or before the master of the rolls. For whoever may have heard the cause, it is the chancellor's decree, and must be signed by him before it is enrolled; which is done of course, unless a rehearing be desired. Every petition for a rehearing must be signed by two counsel of character, usually such as have been concerned in the cause, certifying that they apprehend the cause is proper to be reheard. And upon the rehearing, all the evidence taken in the cause, whether read before or not, is now admitted to be read; because it is the decree of the chancellor himself, who only now sits to hear reasons why it should not be enrolled and perfected; at which time all omissions of either evidence or argument may be supplied. But, after the decree is once signed and enrolled, it cannot be reheard or rectified but by bill of review, or by appeal to the house of lords." *Emerson* v. *Davies*, Fed. Cas. No. 4,437, 8 Fed. Cas. 626; *Belmont* v. *Erie Ry.*, 52 Barb. [N. Y.] 637, 651; *Reed* v. *Patterson*, 44 N. J. E. 211, 14 A. 490, 494: "A rehearing, strictly speaking, is simply a new hearing and a new consideration of the case by the court in which the suit was originally heard, and upon the pleadings and depositions already in the case."

[39] *McLean* v. *Eaton Mfg. Co.*, 286 Mich. 285, 294, 282 N. W. 150, 154.

[40] *Yee* v. *State Board of Equalization*, 16 Cal. App. (2d) 417, 418, 419, 60 P. (2d) 322, 323.

[41] *Lewis* v. *Martin*, 210 Ala. 401, 411, 412, 98 So. 635, 644, 645; *Kimple* v. *Conway*, 69 Cal. 71, 72, 10 P. 189, 190; *Wright* v. *Dorman*, 155 Tenn. 189, 194, 195, 291 S. W. 1064, 1065.

[42] *McLean* v. *Eaton Mfg. Co.*, 286 Mich. 285, 294, 282 N. W. 150, 154.

[43] *Tecter* v. *Southern Express Co.*, 172 N. C. 620, 90 S. E. 927.

[44] *Atchison, Topeka & Santa Fe Ry.* v. *United States*, 284 U. S., 248, 259.

[45] *Fraser* v. *Doing*, —U. S. App. D. C.—, —, 130 F.(2d) 617, 620.

[46] —U. S. App. D. C. —, —, —, 130 F.(2d) 617, 620, 622–623.

Misnaming appellant's motion to vacate, by calling it a petition for rehearing, certainly did not constitute an error which affected the substantial rights of the parties. In short, there was nothing in any of the equity rules to suggest that a rehearing—in the sense of a new trial—was either necessary, or proper, to secure reexamination by the court of a ruling upon a question of law, preliminary to trial.

Finally, although the original order of the district court was final in the sense that it was appealable, it was not final in the sense that it disposed of the case on the merits. The authorities cited herein demonstrate that a new trial necessarily assumes an adjudication on the merits; and that a motion for a new trial is improper in any other event. Not only is this true, but rule 41(*b*) of the new rules of civil procedure[47] expressly provides that a dismissal for lack of jurisdiction does not operate as an adjudication upon the merits. The dismissal in the present case was for lack of jurisdiction because of defect of parties. The grounds of both motions to dismiss were clearly so specified, and the order of dismissal in each case was based expressly upon the motion.

Generally speaking, it may be said that the new rules evidence no intention of penalizing litigants because of such informalities in their pleadings, as appeared in appellant's motion in the present case. Instead, it is their clear purpose "to secure the just, speedy, and inexpensive determination of every action;"[48] to avoid the old conception of procedural rules "as ends in themselves upon whose rigid altar has ultimate justice been sacrificed."[49]

[47] Fed. Rules Civ. Proc., Rule 41(*b*): *Involuntary Dismissal: Effect Thereof.* For failure of the plaintiff to prosecute or to comply with these rules or any order of court, a defendant may move for dismissal of an action or of any claim against him. After the plaintiff has completed the presentation of his evidence, the defendant, without waiving his right to offer evidence in the event the motion is not granted, may move for a dismissal on the ground that upon the facts and the law the plaintiff has shown no right to relief. Unless the court in its order for dismissal otherwise specifies, a dismissal under this subdivision and any dismissal not provided for in this rule, *other than a dismissal for lack of jurisdiction* or for improper venue, *operates as an adjudication upon the merits.* [Italics supplied.]

[48] Fed. Rules Civ. Proc. See also, Address of Chief Justice Hughes, 21 A. B. A. J. 340, 341: "It is manifest that the goal we seek is a simplified practice which will strip procedure of unnecessary forms, technicalities and distinctions, and permit the advance of causes to the decision of their merits with a minimum of procedural encumbrances."

[49] *Laverett* v. *Continental Briar Pipe Co.*, E. D. N. Y., 25 F. Supp. 80, 81.

U. S. Court of Customs and Patent Appeals

IN RE SACKETT

No. 4,703. Decided April 5, 1943

[135 F.(2d) 227]

1. APPLICATION—DISCLOSURE.

The disclosures of appellant's parent application and the continuation-in-part thereof on appeal *Held* insufficient to support the appealed claims, whether said disclosures be considered separately or together.

2. SAME—NEW MATTER.

Certain amendments to the application on appeal *Held* to contain new matter.

APPEAL from the Patent Office. Affirmed.

Mr. Harold R. Savage, Messrs. Roberts, Cushman & Woodberry, and *Messrs. Cushman, Darby and Cushman* (*Mr. Arlon V. Cushman* of counsel) for Sackett.

Mr. W. W. Cochran (*Mr. E. L. Reynolds* of counsel) for the Commissioner of Patents.

BLAND, *J.:*

This is an appeal from a decision of the Board of Appeals of the United States Patent Office. The Primary Examiner rejected all of appellant's claims, 1 to 15, inclusive, and 17, in what appellant states is a continuation-in-part application for a patent relating to an alleged invention involving the use of a combination material for filling the space between the inner and outer soles of a shoe and imparting other characteristics to the shoe. The claims on appeal relate to a method of making the shoe, the shoe when made according to the method, and the shoe filler composition.

Claims 11, 14, 15, and 17 recite elements which involve precipitation. These claims among others had been rejected by the Examiner upon the prior art. Appellant in this court moves to dismiss the appeal as to them. Said motion will be granted.

Claim 1 contains the limitation here in controversy, as do all the others, and is therefore illustrative of all the claims on appeal. Claim 1 reads:

> 1. Method of making shoes, which comprises the step of applying between the inner and outer soles a uniform composition comprising a gelatinous precipitate as a sleeking agent and *a resinous material characterized by being derived from resinous wood and containing 50% or more insoluble in aliphatic hydrocarbon liquids,* in a liquid solvent vehicle containing a volatile component, a plasticizer, and a granular body material. [Italics ours.]

The invention is well described by the Primary Examiner in the following language:

> In the manufacture of shoes, the bottom margins of the upper and the welt, if one is present, are interposed between the marginal portions of the insole and outsole. A cavity is thereby formed between the central portions of these two soles, and this cavity is conventionally filled with a plastic filler. This application relates to a specific composition for use as such a filler. The filler composition described is made by combining a cellulose ester, a resinous material, plasticizer, suitable solvents for these various components, and granular cork. The cellulose ester acts as a sleeking agent and may be cellulose nitrate or cellulose acetate obtained from film scrap. The resinous material is "obtained by the solvent extraction of resinous woods with benzol and contains approximately 50% or more gasoline or aliphatic hydrocarbon-insoluble material." The plasticizer for both the cellulose ester and resinous components may be tricresyl phosphate. Alternatively, the plasticizer for the resinous component may be a mixture of free fatty acids and resinous acids which applicant terms "Pine fatty acid", but which, more accurately, appears to be tall oil. When this mixture is used as the plasticizer for the resinous component, dibutyl phthalate, a plasticizer for the cellulosic ester, at least, is also used. The granular cork may be wetted with water to prevent the solvents from penetrating the cork.

In view of our conclusion it is not necessary to set out the references which were relied upon by the Examiner.

The first ground of rejection on the part of the Examiner, which upon appeal was affirmed by the Board of Appeals, was to the effect that the specification of the instant application was indefinite and contained new matter, and that the disclosure was inadequate to support the claims. The Examiner also rejected the claims upon the prior art. The last ground of rejection was expressly disapproved by the Board and is not of concern here.

In order to understand the holding of the Examiner and of the Board it is important to carefully consider the disclosure in appellant's original application, of which the instant application is claimed to be a continuation-in-part, and also to note carefully the disclosure of the instant application and the proposed amendments thereto.

Appellant's original application, filed September 27, 1935 (the instant application was filed June 17, 1938) disclosed a composition or mixture to be used as a filling or binding agent between the inner and outer soles of shoes. The composition was composed of "powdered rosin B" and distilled rosin residue in certain quantities, to which were added naphtha, film scrap, tricresyl phosphate, ethyl acetate, and granulated cork. When the cork granules were thoroughly coated, the mixture was ready to use in the liquid state.

All of appellant's claims in the original application were rejected on the ground, among others, that they were unduly broad.

As we understand it, "rosin B" is the lowest grade of rosin (which is sometimes called resin) and is chiefly characterized by the fact that it is the residue after most of a valuable constituent, abietic acid, has been removed from the resinous materials extracted from pine. Appellant's instant disclosure relating to the rosin content (which is the critical matter with which we are concerned) is in the following language:

> * * * binder component * * * produced by combining a certain resinous material (which is more particularly obtained by the solvent extraction of resinous woods with benzol and contains approximately 50% or more gasoline or aliphatic hydrocarbon-insoluble material) with * * * [other materials].

Appellant sought to amend this last above quoted disclosure of the instant application by adding thereto language explaining that the resinous material

> "is composed in considerable proportion or completely of a resin or a resinous material which is characterized by being substantially insoluble in gasoline."

While appellant seems to argue here that the disclosure of his instant application is sufficient, he contends that his original disclosure should be considered, since he now claims that his instant application merely more fully describes the material, "rosin B," disclosed in his first application. In his instant application, as originally filed, no mention was made as to the rosin disclosure in his original application. By subsequent amendments, which were held to be new matter, he sought to link up the disclosures of the two applications and to further more specifically limit the invention by adding additional language, which is not a matter of concern here. He urges here most strenuously, as he did before the tribunals below, that his "rosin B" disclosure is of itself sufficient, and that in the instant application he seeks only to set out a well-recognized description of a well-known product, rosin B.

Before discussing the holdings of the tribunals below, the query is at once presented: if the above-quoted limitation in the claims at bar merely recites details concerning, or a definition of, "rosin B," why file a continuation-in-part application at all? No other differences between the two applications have been mentioned as being pertinent here.

Appellant argues that numerous authorities, such as a bulletin of the Hercules Powder Company (Exhibit A), an article by F. P. Veitch entitled "The Federal Naval Stores Act" (published in vol. 16, No. 6 of Industrial and Engineering Chemistry), The Condensed Chemical Dictionary, various patents, and other recognized chemical authorities, show the characteristics of "rosin B," and that one of the chief characteristics shown by some of the authorities relied upon is that in a typical example of the analysis of "rosin B" it is shown that there is 51.5 per cent gasoline-insoluble material therein. It is then argued that, having disclosed "rosin B" with its properties well-known in the prior art, appellant, in the instant application, merely responded to the expressed desire of the Examiner and defined or disclosed more specifically what he had already, in his original application, sufficiently disclosed.

There is much contention as to whether or not the above authorities relied upon as explaining the characteristics, use, and prior art knowledge of "rosin B" are properly in the record, and the question is also presented as to whether or not (if they are not properly in the record) this court can take judicial notice of the same. As we see it, it is wholly immaterial whether such documents are, or are not, properly in the record, because at most they are not alleged to show anything more than one of the chief characteristics of "rosin B" and we are certain that if the disclosures in the applications are deficient, the matter which appellant seeks to have us consider in the way of the above citations, as well as affidavits, will not supply the deficiency. We think the Examiner expressed the proper viewpoint on the question, and we feel justified in quoting from his statement at considerable length:

> At page 5, lines 13 to 16, of the original disclosure, applicant states that the resinous material "contains approximately 50% or more gasoline or aliphatic hydrocarbon-insoluble material". Thereafter, by an amendment inserted after line 28 of page 5, applicant adds that the resinous material "is composed in considerable proportion or completely of a resin or resinous material which is characterized by being substantially insoluble in gasoline" * * *. It is considered that the words "or completely" are drawn to new matter, and their cancellation was therefore required. It is believed that the original expression "approximately 50% or more" gasoline-insoluble material implies that there is also present an appreciable percentage of gasoline-soluble material, and the omission of such gasoline-soluble material from the composition makes a significant change in its nature. This conclusion is further strengthened by a consideration of the rest of the paragraph in which the objectionable new matter appears and the amendment made at page 7, line 14, together with the remarks accompanying them. These two amendments seek to indicate that "free rosin" or "ordinary rosin" is undesirable and disadvantageous, and applicant seeks by amendment to omit this material and thereby change the nature of the composition.
>
> It would appear that applicant did not at all appreciate that completely gasoline-insoluble resinons material might be used in his composition at the time he filed the present application, for in his affidavit submitted May 28, 1941 (Exhibit R) he states that the resinous material of the present application is "powdered rosin B," "B Wood Rosin," "Wood Rosin B," "Belro Rosin," or "Belro Resin." Applicant's Exhibits A, N and P indicate that this resinous material is 51.5% or 60% gasoline-insoluble. It is not seen how applicant can now contend that the 40% or more of gasoline-soluble material is of no use in his composition and does not materially affect the nature of the composition; nor is it understood how he can now say that "50% or more" was intended to include 100% and at

the same time contend that he was merely trying to describe "Wood Rosin B" or "Belro Rosin".

Applicant's description of the resinous component of his composition is considered to be inadequate to describe the material used with sufficient definiteness so that one skilled in the art would know exactly how to practice the invention. The best statement of the nature of the resinous material is given at page 5, lines 13 to 15, which state that it "is more particularly obtained by the solvent extraction of resinous woods with benzol and contains 50% or more gasoline or aliphatic hydrocarbon-insoluble material". Applicant fails to state what kind of resinous wood is extracted. Different kinds of woods yield different resinous materials. Moreover, merely extracting most woods with benzol will not give a resin which is 50% or more gasoline soluble. This is illustrated by the Hall 2,193,026 patent, page 1, column 1, lines 40 to 45. It is there pointed out that when extracting pine wood by use of gasoline, the resinous extract amounts to about 0.9 barrel per ton of wood, whereas with the use of benzol, the same wood yields 1.13 barrels of resin. It is obvious that the difference of 0.23 barrel is gasoline-insoluble material which is obtained by extraction with benzol. Thus, the benzol extraction of pine wood yields 1.13 barrels of which 0.23 barrel or about 20% is gasoline-insoluble. It follows that something more must be done to raise the gasoline-insoluble material to 50% or more. Exactly what further steps are gone through will have an important bearing on the nature of the resinous material. No such further steps are specified by applicant.

Discussion here of the Hall patent is deemed unnecessary.

It will be observed that in the above-quoted portion of the Examiner's statement it is pointed out clearly that the amendment sought to disclose the benefits of the use of a material which might be largely or "completely" of a resinous material which is substantially insoluble in gasoline. That was not appellant's disclosure in the instant application when he stated "approximately 50% or more" of such gasoline-insoluble material, nor was it the original disclosure of the first application when he specified "rosin B," because under his own analysis "rosin B" is shown to possess ofttimes nearly 50 per cent of gasoline-soluble matter.

Following the above-quoted excerpt from the Examiner's statement, we find therein the following:

> • • • The specification as it now stands and will stand in spite of the entry of the exhibits and affidavits, is in no way made more definite. Assuming, however, that applicant wishes to actually amend the present disclosure by specifying that the resinous material described at page 5, lines 13 to 15, is "B Wood Rosin" or "Belro Resin," such an amendment would be regarded as drawn to new matter for the following reasons.
>
> The present application is a continuation-in-part of application Ser. No. 42,513, filed Sept. 27, 1935. The prior application has a single reference at page 7, line 4, to the use of "powdered rosin B". There is also mentioned for use in the same composition "distilled rosin residue" (page 7, lines 4–5). To these resinous components are added cellulose ester, plasticizer, solvents, and granular cork. The present application, being a continuation-in-part, contains some matter which is present in the prior application and some additional matter. Applicant does not specifically point out in the present application what portion of it is supposed to be also present in the prior application. He now argues that the "resinous material" described at page 5, lines 13 to 15, is the "powdered rosin B" of the prior application. No reason is seen for accepting such an identification. The present application in no way identifies the "resinous material" as "powdered rosin B"; the description of the "resinous material" given is insufficient to define it as being any particular resin at all for the reasons given above in holding the description inadequate.

We call especial attention to the fact that appellant urged in his brief before the Board (which is of record) that it was rosin of the lowest quality that he found most advantageous in making a proper combination for the purpose intended, and that the less abietic acid (the valuable constituent in the resin) it contained and the more insoluble it was in gasoline, the better it would be for his purpose. It seems clear to us that this fact was a discovery which was not in the mind of the applicant when he filed his original application or when he filed the instant application. He nowhere taught, in either application, that 50 per cent gasoline-soluble matter was disadvantageous but by amendment sought to insert that which the Patent Office, and we, regard as new matter. It is also our view that the instant specification is too indefinite to support the claims at bar, and that there was an inadequate disclosure, in both applications, of the subject-matter of all the claims at bar.

The decision of the Board of Appeals affirmed the Examiner's views as to the new matter and also, by the use of somewhat different language, approved of the reasoning of the Examiner on the question of sufficiency of disclosure. We quote the following from its decision:

> One of the reasons urged by appellant in traversing this ground of rejection is that this application is stated to be a continuation-in-part of his application 42,513, in which the resinous material was stated to be "rosin B." There was no statement, however, in the earlier case that the rosin B possessed the characteristic above referred to. An affidavit and exhibits have been filed, however, in this case which we believe show that, at the date of the filing of the original case, the Hercules Powder Co. had on the market a product which was then designated as "rosin B," which possessed the characteristic under consideration.
>
> While in some cases where a trade name or term is well-known, it has been regarded as sufficient disclosure so that those skilled in the art would understand how to carry out the procedure in which the matter designated by the trade term was an element. It is considered, however, that the evidence of record does not justify the conclusion that "rosin B" was generally known to those skilled in the art. Indeed, it appears that the Hercules Powder Co. soon dropped this term and gave the particular product a different trade name. If a patent had issued on the disclosure of the first application, we do not consider that it would have been reasonable to have expected the public to undertake investigations in order to discover, if possible, the nature of the rosin B referred to.
>
> Even if the reference to rosin B in appellant's first application could be regarded as a sufficient disclosure, we think that he cannot rely upon this disclosure in the second application as there is no statement in the later case that the resinous material having the particular property above referred to and extracted from resinous wood by the use of benzol is the rosin B of the earlier case. In an application designated as a continuation-in-part we consider that the only portions of the earlier case which can be relied upon in the later case are those which are substantially the same. Here the applicant might well have had in mind when he filed the later case, some other resinous material than the "rosin B" of his earlier application.

It will be noticed that the Board has called attention to the fact that in the "earlier case" there was no disclosure of the all-important characteristic (the limitation in the instant claims) of "rosin B," and it further pointed out that even if the reference to "rosin B" in the first application could be regarded as sufficient disclosure, it did not believe appellant could rely on this disclosure in the second application, since there is no statement therein that the resinous material was "rosin B." It is further pointed out by the Board that at the time of filing the original application, Hercules Powder Company probably did have a "rosin B" which possessed the characteristic under consideration, but that there was no showing, as there was in the case of *In re Gebauer-Fuelnegg et al.*, 28 C. C. P. A. (Patents) 1359, 121 F.(2d) 505, 531 O. G. 545, which involved "plioform" and "pliolite," to the effect that such "rosin B" of the Hercules Powder Company possessed the desired characteristics which appellant now seeks to incorporate into a patent or that such "rosin B" product was, at the time of filing the original application, a trade-name or term so well-known to those skilled in the art as to have been regarded as a sufficient disclosure.

Appellant makes no contention here that his disclosure of "rosin B" is sufficient by reason of the fact that the Hercules Powder Company at one time sold rosin under a trade-name, "Rosin B." He urges that a disclosure of "rosin B," under all the circumstances, was a disclosure of the characteristic embraced in the limitation of all the claims at bar. We agree with the Board in its conclusion that

> "the applicant might well have had in mind when he filed the later case, some other resinous material than the 'rosin B' of his earlier application."

[1] In conclusion, it is our view that appellant's disclosure in the instant application is not supported by his disclosure in his original application and that his disclosure in both applications, considered separately or together, is not sufficient to support the claims at bar. Notwithstanding the appellant's contention that he is merely defining "rosin B," it seems obvious to us that he has only stated one characteristic of certain resinous substance which may fall within the category of "rosin B." The limitation in his instant application is "a resinous material" which is "50% or more" gasoline-insoluble. There may be many resinous materials which are 50 per cent or more insoluble in gasoline or aliphatic hydrocarbons which under no stretch of the imagination could be regarded as "rosin B." Some other ingredients of the resinous material, although obtained from the extraction of resinous wood with benzol, might make it fall without the category of "rosin B."

[2] On this phase of the questions presented, appellant earnestly contends that he has supported his statement by proper references and that "rosin B" (being the lowest grade of rosin) always has 50 per cent or more of such insoluble matter. As we see it, the mere fact (if it be a fact) that "rosin B" ordinarily or even universally has that characteristic does not change the situation. Obviously, "rosin B" has other characteristics, and there is no teaching in either application that the best results are obtained where there is a lack of abietic acid and a superabundance of gasoline-insoluble material. If appellant seeks to teach this fact in his new application by amendment, it would seem to be new matter, and arguments and citations of scientific treatises, patents, or other documentary matter do not remedy this defect.

Appellant's motion to dismiss the appeal as to claims 11, 14, 15, and 17 is granted, and the decision of the Board of Appeals, affirming that of the Examiner in the rejection of the claims at bar, is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE LAMSON & CO., INC., DOING BUSINESS AS ELMWOOD FARM CO.

No. 4,687. Decided May 3, 1943

[— F.(2d) —]

1. TRADE-MARKS—REGISTRABILITY UNDER ACT OF 1905—GEOGRAPHICAL NAMES.

   The notation "Elmwood Farm" as a trade-mark for canned chicken, egg noodles and chicken, chicken a la king, chicken fricassee, chicken shortcake, sandwich spread, chicken broth, chicken soup with noodles, and chicken in glass *Held* properly refused registration under the Trade-Mark Act of February 20, 1905, on the ground that the term "Elmwood" is the dominant feature of the mark, and it is merely a geographical name.

2. SAME—SAME—DESCRIPTIVE AND GEOGRAPHICAL WORDS.

   Held that the Trade-Mark Act of February 20, 1905, places geographical and descriptive words in the same category with respect to registrability.

APPEAL from the Patent Office. Affirmed.

Messrs. Mason, Fenwick & Lawrence (*Mr. Edward G. Fenwick* of counsel) for Lamson & Co., Inc., doing business as Elmwood Farm Co.

Mr. W. W. Cochran (*Mr. R. F. Whitehead* of counsel) for the Commissioner of Patents.

GARRETT, *P. J.*:

This is an appeal from the decision of the Commissioner of Patents affirming the decision of the Examiner of Trade-Marks denying the application of appellant for registration, under the Trade-Mark Act of 1905, of the notation "Elmwood Farm" as a trade-mark for

> "Canned Chicken, Egg Noodles and Chicken, Chicken a La King, Chicken Fricassee, Chicken Shortcake, Sandwich Spread, Chicken Broth, Chicken Soup with Noodles, and Chicken in Glass."

The basis of the rejection is that the term "Elmwood," which was held to be the dominant feature of the mark, is merely a geographical name and hence falls within the inhibition of the language in the second proviso of section 5 of the 1905 Trade-Mark Act which reads,

> "That no mark which consists • • • of • • • merely a geographical name or term, shall be registered under the terms of this act (15 U. S. C. A. § 85)."

The Examiner, after holding "Elmwood" to be the dominating feature of the mark, said:

> Elmwood as a single word is geographical being the name of several towns, one of which is incorporated and located in Hartford County, Connecticut.

And added:

> Further, the word "Farm" is considered to be publici juris, and has been so construed by this Office. When the word "Farm" has been presented associated with a geographical term, such marks have been registered under the act of 1920.

[1] [2] The finding of fact as to "Elmwood" being the name of a number of towns is not disputed by appellant, but it is insisted, first, that the Commissioner erred in dissecting the mark "and refusing registration by reason of the alleged geographical character of the word Elmwood," and, second, "in holding that the word Elmwood is merely geographical within the meaning of the Trade-Mark Statute."

In his decision the Commissioner said, inter alia:

> There are a few old cases, some of which are cited in the brief, lending support to the argument that the association of an arbitrary term with a geographical word results in a combination which is not "merely" geographical, within the meaning of the statute, and that such a mark may be registered.

He then pointed out, quoting from the statute, that geographical words and descriptive words are placed in precisely the same category with respect to registration "so that the question of their registrability is necessarily governed by the same considerations" and cited the decision of this court in the case of *In re American Cyanamid & Chemical Corporation* 26 C. C. P. A. (Patents) 712, 99 F.(2d)

964, 499 O. G. 785, as containing "A complete answer to applicant's argument."

In that case the applicant sought to register, under the act of 1905, the notation "Gypsteel gypsum Plank" as a trade-mark for reinforced slabs composed of cementitious material. The word "gypsum" was disclaimed in the application but the applicant declined to acquiesce in the requirement that the word "Plank" be disclaimed also. The applicant there not only insisted that "Plank" was not "merely descriptive," but that the question of its descriptiveness standing alone was not at issue. In other words it was contended that in order to fall within the inhibition of the statute it was required that the composite mark taken as a whole must be found to be merely descriptive and that since "Gypsteel" was not descriptive (and was the subject of another registration) no such finding was tenable.

In our decision we cited and reviewed many cases, found, for the reasons stated, that the word "Plank" was descriptive of the applicant's product and sustained the action of the Commissioner in denying the registration sought.

We agree with the Commissioner's construction of the statute, as stated above, to the effect that geographical words and descriptive marks are in the same category with respect to registrability. This is clear, as appears from the language reading:

> That no mark which consists merely * * * in words or devices which are descriptive of the goods with which they are used, or of the character or quality of such goods, or merely a geographical name or term, shall be registered under the terms of this act.

No question relating to disclaimer is involved here, since appellant did not disclaim any part of the mark, but, in view of the character and meaning of the word "Farm," we agree with the holding of the Commissioner to the effect that a disclaimer of that portion of the mark would not affect the situation here because "Elmwood" is clearly the dominant part of the mark.

So, the only question is whether the term "Elmwood" is merely geographic. Appellant contends that it—

> clearly has a meaning entirely independent of and predominating over any geographical significance that it may have. The word is obviously a combination of two accepted dictionary words, Elm and Wood, and particularly as used in association with the word Farm, the word Elmwood carries the idea of these constituent words Elm and Wood.

Appellant itself thus dissected the dominant part of its mark.

The Commissioner said:

> Applicant suggests that "Elmwood" is not "merely" geographical, because it is formed by combining the two words "elm" and "wood," and hence means the wood of the elm tree. So far as I am aware, however, the single word is never used in that sense, and possesses none other than a geographical significance.

We agree with the finding so made.

The several cases cited in the brief filed on behalf of appellant have been examined, but we find nothing in them which would, in our opinion, justify a conclusion different from that reached by the Commissioner, which is particularly in accord with the reasoning in numerous decisions made during comparatively recent years.

One of the cases referred to in appellant's brief is that of *In re Plymouth Motor Corporation*, 18 C. C. P. A. (Patents) 838, 46 F.(2d) 211, 404 O. G. 269, in the decision of which this court indicated that the term "Plymouth" had acquired a secondary meaning which rendered it something more than a "merely geographic" word. Our grant of the application there, however, did not rest upon that suggestion alone, and in the later case of *In re Canada Dry Ginger Ale, Inc.*, 24 C. C. P. A. (Patents) 804, 86 F.(2d) 830, 479 O. G. 519, we overruled the decision in the Plymouth Motor Corp. case, supra, so far as it rested in any part upon the matter of secondary meaning, or was inconsistent with a decision of ours in the case of *Barber Colman Co.* v. *Overhead Door Corporation*, 20 C. C. P. A. (Patents) 1118, 65 F.(2d) 147, 436 O. G. 305.

We have deemed it proper to again direct attention to the foregoing decisions (they have been recited in other cases) to the end that those interested may understand that what was said with respect to "secondary meaning" in the Plymouth Motor Corp. case, supra, is not to be relied upon as a basis for securing the registration of trade-marks under the act of 1905.

In the instant case the decision of the Commissioner of Patents is affirmed.

Affirmed.

U. S. Court of Appeals for the District of Columbia

VIETTI ET AL. *v.* WAYNE ET AL.

No. 8,235. Decided May 29, 1943

1. SUIT UNDER SECTION 4915 R. S.—JOINDER OF DEFENDANTS IN CONFORMITY WITH 35 U. S. C. A. § 72*a*. Where three applications, that of Wayne (under which Visco Products Company is an exclusive licensee), that of Vietti and Garrison (assigned to The Texas Company), and that of Cannon (assigned to Standard Oil Development Company), were included in an interference proceeding; and the U. S. Patent Office awarded priority to Wayne on six counts, to Vietti and Garrison on one, and to Cannon on one *Held* that Cannon and the Standard Oil Development Company properly were joined with Wayne, as parties defendant, in a suit under section 4915 R. S., brought by Vietti et al. in the District Court of the United States for the District of Columbia, in conformity with 35 U. S. C. A. § 72*a*.

2. SAME—SAME.
"The fact that certain defendants may be sued separately does not necessarily require that they be sued separately. The very purpose of the applicable statute in the present case is to permit the bringing together, in one proceeding, of all parties whose interests are adverse; whether their adversity arises out of interfering patents or because they were adverse parties in an interference proceeding; in order that the interests of all may be determined. For this purpose the controversy is inseparable."

3. SAME—SAME.
"The important consideration is not, as appellees contend, what the Patent Office awarded at the conclusion of the interference proceeding. It is, instead, what the parties to the interference claimed. Appellants claimed, and alleged in their complaint in the district court, that Vietti and Garrison are the 'original, first, and joint inventors of the subject matter of said interference as defined in the above counts.' * * * In the prayer of their complaint they asked the district court to decree that they are the first inventors of the subject matter of all counts. The case is one which comes clearly within the statute, and the district court had jurisdiction of it."

APPEAL from the District Court of the United States for the District of Columbia. Reversed.

Mr. Benjamin B. Schneider (*Mr. Lee B. Kemon* of counsel) for Vietti et al.

Mr. John H. Sutherland (*Messrs. John H. Bruninga* and *Charles E. Riordon* of counsel) for Wayne et al.

Before PARKER, Circuit Judge, sitting by designation, and MILLER and EDGERTON, Associate Justices

MILLER, *A. J.:*

This is a companion case to No. 8,236, *Robinson et al.* v. *Wayne et al.*, decided this day. It involves the same fundamental question concerning adverse parties. For the reasons set out in our opinion in that case, our decision is the same in the present case, so far as it involves that question. In this case, however, there is an additional question, which arises out of the following facts: The interference proceeding in the Patent Office involved eight counts; upon an application of Wayne, under which Visco is an exclusive licensee; an application of Vietti and Garrison, assigned to The Texas Company; and an application of Cannon, assigned to Standard Oil Development Company. The award of the Patent Office was to Wayne on six counts; to Vietti and Garrison on one count, and to Cannon on one count.

Appellees contend that the count awarded to Cannon and Standard is for subject matter separable from the subject matter of the remaining counts; that Cannon and Standard have, at most, an interest which is separable from that of Wayne, and should not be joined in the same suit with Wayne, as parties defendant. The theory of this contention is that every claim in an application for patent represents a separate invention; that in controversies concerning such claims each claim involves a separate controversy; and that separable controversies are wholly determinable between the parties thereto.

[1] [2] While each of the propositions asserted, standing alone, is correct for certain purposes, the result contended for by appellees does not follow. The fact that certain defendants may be sued separately does not necessarily require that they be sued separately.[1] The very purpose of the applicable statute[2] in the present case is to permit the bringing together, in one proceeding, of all parties whose interests are adverse; whether their adversity arises out of interfering patents[3] or because they were adverse parties in an interference proceeding;[4] in order that the interests of all may be determined. For this purpose the controversy is inseparable.[5]

[3] The important consideration is not, as appellees contend, what the Patent Office awarded at the conclusion of the interference proceeding. It is, instead, what the parties to the interference claimed. Appellants claimed, and alleged in their complaint in the district court, that Vietti and Garrison are the "original, first, and joint inventors of *the subject matter of said interference as defined in the above counts.*" [Italics supplied.] In the prayer of their complaint they asked the district court to decree that they are the first inventors of the subject matter of all counts. The case is one which comes clearly within the statute, and the district court had jurisdiction of it.

Reversed.

[1] *Pullman Co.* v. *Jenkins*, 305 U. S. 534, 538. See also, *Geneva Furniture Co.* v. *Karpen*, 238 U. S. 254, 258–9, 217 O. G. 1343.
[2] U. S. C. A. § 72*a*, 44 Stat. 1394, 49 Stat. 1921.
[3] 35 U. S. C. A. § 66.
[4] 35 U. S. C. A. § 63.
[5] *Hazeltine Corp.* v. *White*, 2 Cir., 68 F.(2d) 715, 716–717.

Notice of Cancellation

U. S. PATENT OFFICE, *Richmond, Va., July 28, 1943.*

Louis Hobart Pierce, his assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Cluett, Peabody & Co., Inc., Troy, N. Y., to effect the cancellation of trade-mark registration of Louis Hobart Pierce, Pierce Park, Lebanon, Pa., No. 203,391, dated September 15, 1925, and the notice of such proceeding sent by registered mail to the said Louis Hobart Pierce at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said Louis Hobart Pierce, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

LESLIE FRAZER,
First Assistant Commissioner.

BULLETIN OF DECISIONS OF PATENT OFFICE ON TRADE-MARKS

RENDERED DURING JULY, 1943

THE EXPELLO CORPORATION *v.* GENERAL BRANDS CORP., Opposition No. 21,758.

In a decision rendered July 2, 1943 (166 Ms. Dec. 224, 58 U. S. P. Q. 424), *First Assistant Commissioner Frazer* affirmed the decision of the Examiner of Trade-Mark Interferences sustaining the opposition of The Expello Corporation, of Dover, N. H., to an application of General Brands Corp., of New York, N. Y., for registration of a trade-mark claimed to have been used since March 22, 1941. The opposition was based upon a registration issued to opposer on July 18, 1933. Neither party took testimony and so the First Assistant Commissioner decided the case upon the information contained in opposer's registration and in the opposed application.

The First Assistant Commissioner first discussed the question whether the goods of the parties possess the same descriptive properties. He said:

"Opposer's mark is registered for 'a hollow cleaning implement containing a detergent material for cleaning and polishing windows, mirrors, windshields, bath tubs, porcelain, tile, nickel, brass, paint and other things.' Applicant's goods are described in the application as 'a general household cleaning and polishing preparation for tile, ceilings, doors, linoleum, stairs, metals, refrigerators, porcelain, mirrors, windows, leather upholstery, floors, Venetian blinds, woodwork, walls, bath tubs, sinks and the like.' The two items would appear to differ considerably in their physical characteristics, but both are used for the same purpose and are thus directly competitive. Unquestionably they belong to the same class of merchandise, and possess the same descriptive properties."

The First Assistant Commissioner then considered whether the marks of the parties are confusingly similar, and stated:

"Opposer's mark is the single word 'Elf.' Applicant's mark is dominated by the word 'Pixie,' in association with a picture described by the Examiner of Interferences as 'a fanciful representation of a dwarf figure in stocking cap.' 'Pixie' and 'Elf' bear no resemblance in sound or in appearance, but they have precisely the same meaning. Moreover, the fanciful figure of applicant's mark, doubtless intended as the representation of a pixie, portrays with equal accuracy the generally accepted appearance of an elf. The figure is thus the pictorial equivalent of opposer's registered word, and that alone is probably sufficient reason for refusing the proposed registration. *In re Dutch Maid Ice Cream Co.*, 25 C. C. P. A. 1009, 95 Fed.(2d) 262. In view of this feature of similarity, considered in connection with the identity in significance of the words in question, and the well-recognized principle that doubts must be resolved against the newcomer in the field, I am clearly of the opinion that the opposition was properly sustained.

"In support of its argument that 'the opposer's mark "Elf" is not so broad in its significance as to embrace the entire family of mythological fairy folk,' applicant calls attention to several registrations of the word 'Fairy' for soap, all issued many years before opposer's date of first use. The only question to be determined in the present proceeding, however, is whether or not applicant's mark should be registered; and as pointed out by the Court of Customs and Patent Appeals in *Pepsodent Co.* v. *Comfort Manufacturing Co.*, 23 C. C. P. A. 1224, 83 Fed.(2d) 906, 'an applicant for the registration of a trade-mark does not strengthen his own case by pointing out a confusing similarity between trade-marks registered in the Patent Office which are not involved in applicant's proceeding.'"

EASTMAN KODAK COMPANY *v.* POLARIZED MATERIALS CORPORATION (POLARIZED PRODUCTS CORPORATION, ASSIGNEE, SUBSTITUTED), Opposition No. 21,090.

In a decision rendered July 6, 1943 (166 Ms. Dec. 226, 58 U. S. P. Q. 425), *First Assistant Commissioner Frazer* reversed the decision of the Examiner of Trade-Mark Interferences and thereby sustained the opposition of Eastman Kodak Company, of Rochester, N. Y., to the application of Polarized Materials Corporation, of New York, N. Y. (Polarized Products Corporation, assignee, substituted) for registration of the notation "Pola-Vue" as a trade-mark for sun goggles. In the application the geographical term "Pola" is disclaimed.

Applicant claimed to have used its mark since September 16, 1940. Opposer relied upon its ownership of the trade-mark "Pola-Screen," registered December 17, 1935, for a "screen for use in photography." The descriptive word "Screen" is disclaimed in the registration.

The disclaimers, the First Assistant Commissioner noted, have no material bearing upon the question of confusing similarity between the marks as a whole, citing *Vi-Jon Laboratories, Inc.*, v. *Lentheric, Incorporated* (C. C. P. A.), 550 O. G. 185, 133 Fed.(2d) 947.

In dismissing the opposition, the Examiner of Trade-Mark Interferences expressed the opinion that the goods of the parties, while being of the same descriptive properties,

"are widely divergent and that the marks contain certain essential differences,"

and

"that the cumulative effect of the differences in the goods and in the marks is sufficient to obviate the likelihood of confusion in trade."

The First Assistant Commissioner, however, concluded that the goods of both parties

"perform the same essential function, though for somewhat different purposes."

He stated that opposer's photographic screens are useful because of their polarizing properties, and that applicant had conceded that its sun goggles likewise

"have an important polarizing function."

The First Assistant Commissioner was of the opinion that

"a polarization-conscious individual may well attribute common origin to a polarizing photographic screen and a pair of polarizing sun goggles sold under the same or closely similar trade-marks."

The First Assistant Commissioner also concluded that the marks of the parties are confusingly similar, and stated:

"Regardless of applicant's disclaimer, I think both the marks here in question are dominated by the term 'Pola.' Certainly the word 'Screen' of opposer's mark has no significance as indicating origin; and the word 'Vue' of applicant's mark, which appears to be a mere misspelling of the word 'view,' if not actually descriptive is so highly suggestive of applicant's goods as to have such significance only in a very minor degree. Standing alone, I am inclined to believe that it would be refused registration. In any event, it is my opinion that the two marks 'Pola-Screen' and 'Pola-Vue' are too nearly alike to be used concurrently on merchandise of the same descriptive properties without a reasonable likelihood of confusion."

CAMARILLO CITRUS ASSOCIATION *v.* BROUGH CANNING CORPORATION (ALAMO FRUIT & VEGETABLE EXCHANGE, INC., ASSIGNEE, SUBSTITUTED), Opposition No. 21,148.

In a decision rendered July 7, 1943 (166 Ms. Dec. 228, 58 U. S. P. Q. 426), *First Assistant Commissioner Frazer* affirmed the decision of the Examiner of Trade-Mark Interferences sustaining the opposition of Camarillo Citrus Association, of Camarillo, Calif., to the application of Brough Canning Corporation, of Mission, Tex. (Alamo Fruit & Vegetable Exchange, Inc., assignee, substituted) for registration of the notation "Full O' Life" as a trade-mark for canned fruits and vegetables and fresh citrus fruit.

Opposer relied upon its ownership of the trade-mark "Ventura Life," registered and in use for fresh citrus fruits.

The only question for determination on appeal was whether or not applicant's mark so nearly resembles the mark of opposer as to be likely to confuse the public or to deceive purchasers. In answering this question in the affirmative, the First Assistant Commissioner stated:

"While the marks as a whole differ somewhat in appearance, sound, and significance, I agree with the Examiner of Interferences that both are dominated by the word 'Life,' and that there is thus a reasonable likelihood that their concurrent use on identical merchandise would result in confusion. Several cases are cited in applicant's brief in support of its argument to the contrary; but none of them is as nearly in point as is the case of *Sutter Packing Co.* v. *Piggly Wiggly Corporation*, 20 C. C. P. A. 1069, 64 Fed.(2d) 1006, where the Court of Customs and Patent Appeals refused registration of the expression 'Slices O' Gold' as a trade-mark for canned fruits, in view of its confusing similarity to the trade-mark 'Sunset Gold' previously used for the same goods."

EX PARTE THE WATSON COMPANY, Serial No. 446,747.

In a decision rendered July 8, 1943 (166 Ms. Dec. 231, 58 U. S. P. Q. 339), *Assistant Commissioner Van Arsdale* denied a petition by The Watson Company, of Attleboro, Mass., for reconsideration of his decision of June 22, 1943 (552 O. G. 575, 58 U. S. P. Q. 338).

The Assistant Commissioner stated that the applicant requested reconsideration on the ground

"that the conclusions in the decision are 'unaccompanied by any discussion of the merits of the case, or of the cases cited by either the Examiner or the appellant' and that it seems 'incredible' that there can be any proper basis for the expressed agreement with the Examiner that the geographical significance of the mark outweighs its significance as the name of a deceased celebrity."

In denying the petition for reconsideration, the Assistant Commissioner stated:

"The decision is believed to be perfectly clear and complete not only as to its conclusions but as to the facts and reasons on which the conclusions are based.

"The facts considered in connection with the assertion that the name 'Foxhall' identifies the alleged deceased celebrity, Henry Foxhall, are those stated in the application and quoted in the decision. These facts were 'weighed' against the fact that, as stated in the decision, 'Foxhall' is a geographical name of the towns as identified in the decision.

"As to the cases cited by applicant and by the Examiner, none holds that registration should be granted when the geographical meaning or significance of the name outweighs any nongeographical meaning or significance the name may have, which, as stated in my decision, in my opinion, is the situation here, and so discussion of them was and is needless."

EX PARTE THE DOBECKMUN COMPANY, Serial No. 441,353.

In a decision rendered July 8, 1943 (166 Ms. Dec. 232, — U. S. P. Q. —), *Assistant Commissioner Van Arsdale* denied a second petition by The Dobeckmun Company, of Cleveland, Ohio, for reconsideration of his decision of May 1, 1943 (551 O. G. 736, 57 U. S. P. Q. 280), and for extension of the applicant's time of appeal.

In its request for reconsideration, applicant asserted that the statement of the Assistant Commissioner that

"the expression 'Breakfast Bread' names a definite commodity"

is incorrect because

"different bakers to whom applicant's goods have been sold have used a different recipe or formula for the bread wrapped in the goods"

on which appears the mark Breakfast Bread," and

"no two of the many bakers who have purchased applicant's goods can agree upon what constitutes 'Breakfast' bread."

In reply to applicant's argument, the Assistant Commissioner stated:

"Undoubtedly bread suitable for breakfast may be baked in accordance with different recipes or formulas, and no affidavit is necessary on that score. My decisions seem to make clear that I consider the expressions 'breakfast bread' and 'bread suitable for breakfast' to be synonymous; and I think even applicant's baker customers would agree that at least the latter expression identifies a definite commodity generically."

KOEHRING COMPANY *v.* ISAACSON IRON WORKS, Opposition No. 21,121.

On March 30, 1943 (163 Ms. D. 143, 549 O. G. 572), First Assistant Commissioner Frazer dismissed the appeal of Isaacson Iron Works, of Seattle, Wash., from the decision of the Examiner of Trade-Mark Interferences in this opposition proceeding, on the ground that the question presented had become moot. The Examiner had sustained the opposition by Koehring Company, of Milwaukee, Wis., and had also refused the registration applied for by said Isaacson Iron Works on the ex parte ground that applicant's mark had not been used in commerce at the time the application was filed. As stated by the First Assistant Commissioner, no appeal was taken from the ex parte refusal to register; and as that ruling had become final, the application was no longer pending when the appeal from the Examiner's decision sustaining the opposition was argued.

In a decision rendered July 8, 1943 (166 Ms. Dec. 229, — U. S. P. Q. —), *First Assistant Commissioner Frazer* denied a petition by Isaacson Iron Works, filed June 12, 1943, to have the decision of the

Examiner of Trade-Mark Interferences vacated. The First Assistant Commissioner stated that petitioner's theory seemed to be that, because it was not otherwise entitled to the allowance of its application, the Examiner of Interferences was without authority to pass upon the issues raised by the notice of opposition. Petitioner specifically contended that its application was "invalid" because of

"the absence of interstate use prior to filing,"

and that

"the Interference Examiner's opinion with respect to confusion in trade is illegal, since it is based on a defective application."

In regard to the contention raised by the petitioner, the First Assistant Commissioner stated:

"It is, of course, well established that in an opposition proceeding the Examiner of Interferences is charged with the duty 'to determine, ex parte, and without reference to issues raised by the notice of opposition, whether the mark was entitled to registration,' and also to sustain or dismiss the opposition as the facts of the particular case may warrant. *Burmel Handkerchief Corporation* v. *Cluett, Peabody & Co.*, 29 C. C. P. A. 1024, 127 Fed.(2d) 318. That is precisely what was done in the instant case.

"There was nothing 'defective' about petitioner's application. It was there alleged under oath that the trade-mark sought to be registered had 'been continuously used and applied to said goods in applicant's business since July, 1940,' and 'that said trade-mark is used by said corporation in commerce among the several States of the United States.' This verified application was prima facie proof that petitioner was entitled to the registration applied for. *General Baking Co.* v. *Commander-Larabee Corporation*, 23 C. C. P. A. 973, 82 Fed.(2d) 427. Upon the evidence adduced in the opposition proceeding, the Examiner of Interferences found that at the time the application was filed there had been no use of the mark 'in interstate commerce or, in fact, in any commerce.' This was a finding of fact, contrary to the express averments of the application.

"Had the application failed to allege interstate use, there might be some merit in petitioner's argument. In that event, however, registration would have been refused by the Examiner of Trade-Marks, and the mark would not have been published for opposition.

"I am clearly of the opinion that the Examiner of Interferences properly exercised his jurisdiction, and that his decision should not now be disturbed."

EX PARTE GEORGE LA MONTE & SON, Serial No. 428,558.

In a decision rendered July 9, 1943 (166 Ms. Dec. 232, — U. S. P. Q. —), *Assistant Commissioner Van Arsdale* passed upon a request by George La Monte & Son, of Nutley, N. J., for reconsideration of his decision of June 15, 1943 (552 O. G. 573, 58 U. S. P. Q. 87).

The complete decision of the Assistant Commissioner upon said request reads as follows:

"Applicant requests reconsideration of my decision of June 15, 1943, asserting the statement therein that the word 'Basketweave' describes the surface appearance of the paper to which the mark is applied is erroneous, and disavows having so conceded.

"In the arguments and affidavits filed by applicant it has been repeatedly stated that applicant's paper has 'a distinctive *basketweave* formation of lines covering the entire surface', as the samples filed by applicant show, and I understood that to mean that the surface of the paper had a basketweave appearance. [Italics added.]

"The crux of the matter seems to be whether, as applicant asserts, the basketweave formation of lines on the paper is nothing more than a design trade-mark merely applied as such to the paper and constituting no part of the paper or any function or characteristic thereof, or whether, as was indicated in my decision to be my opinion, the basketweave formation of lines covering the entire surface of the paper does in fact give the surface of the paper a basketweave appearance and is a characteristic of the paper itself, irrespective of whether applicant intended otherwise and of whether paper having such a surface appearance is unique with applicant or not. The question is: Is the basketweave appearance that is visible on the paper the appearance of the paper or is it merely the appearance of a trade-mark applied to the paper? If the former, then the word 'basketweave' describes the appearance of the paper and is descriptive thereof and registration is precluded, regardless of any trade-mark significance or secondary meaning that may be present additionally.

"I hold to the opinion that the surface of the paper itself has a basketweave appearance and that the mark 'Basketweave' is descriptive thereof.

"Accordingly, after reconsideration, I adhere to my former decision.

"Reconsideration has been granted but the petition is otherwise denied."

EX PARTE WINGS PUBLISHING COMPANY, INC., Serial No. 454,244.

In a decision rendered July 12, 1943 (166 Ms. Dec. 234, 58 U. S. P. Q. 428), *Assistant Commissioner Van Arsdale* affirmed the action of the Examiner of Trade-Marks in refusing registration to Wings Publishing Company, Inc., of New York, N. Y., of a mark described by the Assistant Commissioner as

"consisting of the word 'Wings' on a background suggesting wings above the word 'Comics', which is disclaimed,"

for a magazine of cartoons. The Assistant Commissioner stated that it appeared that the magazine of cartoons to which applicant affixes the mark is a monthly publication.

Registration was refused by the Examiner in view of a prior registration to another of the word "Wings," the registration stating the mark to be appropriated to a periodial publication. No particular type or character of periodical publication, the Assistant Commissioner stated, is specified in the registration.

In upholding the Examiner's refusal of registration, the Assistant Commissioner said:

"Applicant asserts the registrant of said registration applies the mark 'Wings' to a magazine, published monthly by said registrant, devoted to information about newly published books, as shown by a copy of such publication which applicant filed at the hearing of this appeal. Applicant contends that in view of the differences in type and character between this publication and a magazine of cartoons and the differences between the mark of the registration and the mark applicant seeks to register, registration of applicant's mark should be granted. However, it seems to me that here the proper comparison is between the goods as named respectively in the application and in the registration. *General Foods Corporation* v. *Casein Company of America, Inc.*, 27 C. C. P. A. 797, 108 Fed.(2d) 261, 515 O. G. 562, and since a magazine of cartoons is a periodical publication I consider the cited registration to be for the identical goods named in the application.

"The word 'Wings' is unquestionably the dominating feature of applicant's mark. That word is the entire mark of the cited registration and in my opinion the marks as applied to the respective goods are clearly confusingly similar."

EX PARTE WESTERN AUTO SUPPLY COMPANY, Serial No. 455,940.

In a decision rendered July 13, 1943 (166 Ms. Dec. 235, 58 U. S. P. Q. 489), *Assistant Commissioner Van Arsdale* reversed the action of the Examiner of Trade-Marks in refusing registration to Western Auto Supply Company, of Los Angeles, Calif., of the mark "Western Royal" for china tableware in the absence of a disclaimer of the word "Western".

The Assistant Commissioner concluded that disclaimer of the word "Western" of the mark should not be required. In support of that conclusion, he stated:

"The Examiner relies entirely on my decision in *Ex parte Western Stove Co. Inc.*, 168 Ms. D. 919, 538 O. G. 751, 58 U. S. P. Q. 316, which involved the mark 'Western Holly' and in which I expressed the opinion that disclaimer should be made of the word 'Western' in view of the geographical nature of the word 'western' when constituting a part of the expression 'Western Holly'. Webster's New International Dictionary, second edition, 1940, states that 'western' as applied to names of American animals and plants designates those whose geographical distribution is west of the Mississippi River. Holly is an American plant, and it seems clear that the word 'Western' in the expression 'Western Holly' has only geographical meaning. See also *Ex parte Mid-West Abrasive Company*, 166 Ms. D. 172, 57 U. S. P. Q. 328.

"The word 'Western' alone or when associated with words other than the names of American plants or animals does not appear to identify any particular geographical area or location. The dictionary referred to does not define the word 'western' alone as designating the geographical area or section of the country west of the Mississippi, but rather as indicating some relatively western locality without identifying any particular geographical location. In that respect the word 'western' alone is similar to the word 'globe', which indicates a celestial body of the planetary type without necessarily identifying any particular planet, and the word 'globe' was held to be not merely geographical in *Champion Spark Plug Company* v. *Globe-Union Manufacturing Company*, 24 C. C. P. A. 1088, 88 Fed.(2d) 970, 484, O. G. 742.

"Accordingly, it seems to me that the word 'Western' as used in the expression 'Western Royal' should be considered as not merely geographical. Further I think it would be overexacting here to require disclaimer of the word 'western' used in association with the name of an American animal or plant when it does not appear to be geographical in the present mark."

EX PARTE TRIBUNE COMPANY, Serial No. 432,278.

In a decision rendered July 14, 1943 (166 Ms. Dec. 236, 58 U. S. P. Q. 490), *Assistant Commissioner Van Arsdale* affirmed the action of the Examiner of Trade-Marks in refusing registration to Tribune Company, of Chicago, Ill., of the mark "Comic Book Magazine" for a supplement or magazine section of a newspaper. The Examiner held that the mark is not a trade-mark for the goods but is merely the name of the goods.

In agreeing with the holding by the Examiner, the Assistant Commissioner said:

"The specimens filed with the application show the supplement to consist of eight leaves assembled together and having a front page featuring the title 'Comic Book' with the word 'Magazine' in small letters therebeneath. The leaves are considerably smaller in size than those of the ordinary newspaper. Accordingly the supplement is in book form.

"Applicant asserts that it originated and was the first to use the notation 'Comic Book Magazine' for a newspaper comic supplement and that the notation indicates the origin of the goods, and that because it is not necessary to use applicant's particular combination of words in order to describe such a comic supplement the notation is not merely descriptive of the supplement.

"That the notation may have acquired a secondary meaning is no foundation for registration. *Kay & Ess Company* v. *Conway P. Coe, Commissioner of Patents*, 68 App. D. C. 3, 92 Fed.(2d) 552, 483 O. G. 229. Nor may registration be predicated on the fact that other notations may be used appropriately to describe the goods. If the notation is merely descriptive of the goods registration is precluded by the Trade-Mark Act of 1905.

"In my opinion the notation 'Comic Book Magazine' aptly describes applicant's comic newspaper supplement published periodically in book form, and therefore is not registrable for such a supplement under act of 1905."

EX PARTE RENART SPORTSWEAR CORP., Serial No. 455,275.

In a decision rendered July 16, 1943 (166 Ms. Dec. 242, 58 U. S. P. Q. 493), *First Assistant Commissioner Frazer* reversed the action of the Examiner of Trade-Marks in refusing registration to Renart Sportswear Corp., of New York, N. Y., of the notation "Campus-Flicker" as a trade-mark for sweaters, without a disclaimer of the word "Campus." The Examiner held the word "Campus" to be descriptive of the goods.

In disagreeing with this holding, the First Assistant Commissioner said:

"The Examiner takes the position that the word 'Campus' as applied to sweaters indicates that they are especially adapted for college wear. While highly suggestive of that thought, I am inclined to agree with applicant's counsel that it falls short of being merely descriptive. As pointed out by counsel, sweaters are worn by a wide variety of individuals other than collegians, and in numerous surroundings other than those of the campus. Moreover, so far as shown by the record here, there is no sweater on the market that is designed exclusively, or even primarily, for campus use.

"In the absence of opposition, it is my opinion that applicant's mark is registrable as presented."

CONTINENTAL DISTILLING CORPORATION *v.* BERNHEIM DISTILLING COMPANY (OLD CHARTER DISTILLERY CO., INCORPORATED, ASSIGNEE, SUBSTITUTED), Cancellation No. 3663.

In a decision rendered July 16, 1943 (166 Ms. Dec. 238, 58 U. S. P. Q. 490), *First Assistant Commissioner Frazer* affirmed the decision of the Examiner of Trade-Mark Interferences sustaining the petition of Continental Distilling Corporation, of Philadelphia, Pa., to cancel trade-mark registration No. 321,823, issued February 19, 1935, under the provisions of the act of February 20, 1905, to Bernheim Distilling Company, of Wilmington, Del. (Old Charter Distillery Co., Incorporated, Assignee, Substituted).

Respondent's mark is "Old Charter," and the mark relied upon by petitioner is "Charter Oak." Both are registered for whisky. The First Assistant Commissioner stated that the marks are conceded by respondent to be confusingly similar. He also stated that the only controversy between the parties related to the question of ownership.

Petitioner's mark was registered March 13, 1934, on an application filed November 22, 1933, in which use was claimed since November 17, 1933. In regard to such alleged use, the respondent raised a point which the First Assistant Commissioner discussed as follows:

"As the repeal of national prohibition did not become effective until December 5, 1933, respondent insists that in the absence of proof to the contrary it must be presumed that petitioner was operating in violation of law at the time its application to register was filed, and that the registration is thus invalid. That, however, is a matter not properly to be considered in this proceeding. The validity of petitioner's registration must be assumed. *Derby Oil Co.* v. *White Star Refining Co.*, 20 C. C. P. A. 816, 62 Fed.(2d) 984; *American Cyanamid Co.* v. *Synthetic Nitrogen Products Corp.*, 19 C. C. P. A. 1235, 58 Fed.(2d) 834."

The respondent also urged that the petition to cancel should be dismissed because petitioner took no testimony to prove it was using the mark upon which it relied at the time the petition was filed. With respect thereto, the First Assistant Commissioner stated:

"In support of this argument respondent cites *Old Monk Olive Oil Co.* v. *Southwestern Coca-Cola Bottling Co.*, 28 C. C. P. A. 1091, 118 Fed.(2d) 1015, where it was held that such proof was necessary, and that evidence of use five years before the filing of a petition to cancel did not satisfy the requirement. The distinction between that case and this is that there the petitioner's mark

was not registered. The registration here presented is prima facie evidence of petitioner's ownership and continued use of the registered mark. *Rosengart* v. *Ostrex Co.* (C. C. P. A.), 57 U. S. P. Q. 543. And in order to prevail respondent must have established a use of its own mark, inuring to respondent's benefit, at least prior to the issuance of petitioner's registration."

The First Assistant Commissioner analyzed the evidence for respondent and agreed with the Examiner of Trade-Mark Interferences that, as between the parties to the proceeding, petitioner had established ownership of the trade-mark upon which it relied. His analysis reads as follows:

"For many years preceding the advent of prohibition, respondent's mark was owned and in use by a corporation known as Wright & Taylor. Operating under permit, this concern continued its liquor business until July, 1933. On July 18, 1933, it executed an assignment (respondent's Exhibit 4) to Wright-Taylor Distillery Company of its trade-mark 'Old Charter' together with other marks not here involved, and 'the good will as applied to liquors of all kinds of Wright & Taylor.' On the same day it entered into a contract (respondent's Exhibit 3) with U. S. Distillers, Inc., whereby it sold to the latter concern a large stock of whisky, most of which bore the 'Old Charter' trade-mark. This contract also included a purported assignment of the said trade-mark, but was silent as to good will. No business was transferred to either assignee; but that it was the intention of all concerned that ownership of the trade-mark should pass to Wright-Taylor Distillery Company rather than to U. S. Distillers, Inc., is conclusively evidenced by three documents executed on October 2, 1933, which are identified in the record as respondent's Exhibits 7, 8 and 8A.

"Exhibit 8 is an assignment from Wright-Taylor Distillery Company to Wright & Taylor Distilling Corporation of the trade-mark assigned by Exhibit 4, including the 'Old Charter' mark, and of 'the business and good will incident to the sale of whiskey thereunder.' Exhibit 7 is an assignment from U. S. Distillers, Inc., to Wright & Taylor Distilling Corporation of a warehouse receipt covering certain whiskies, and of all rights under the contract Exhibit 3, and of all right, title and interest, 'if any,' in and to the trade-marks, business and good will recited in Exhibit 8. As to the latter, however, it is expressly stated in Exhibit 7 that their 'ownership has heretofore been vested in Wright-Taylor Distillery Company.' Exhibit 8A is an assignment from Wright & Taylor to Wright & Taylor Distilling Corporation of its 'entire right, title and interest * * * if any,' in and to the same trade-marks that it had twice previously assigned, and 'the business and the good will of the business [once previously assigned] in which such brands and trade names have been used by the assignor.' This instrument, referred to in respondent's brief as a quitclaim, is of importance here only in that it recites the previous assignment to Wright-Taylor Distillery Company, and the fact that it was executed at the request of U. S. Distillers, Inc.

"All of these transactions appear to have been engineered by a promoter named Burns. His objectives are more fully developed in the testimony, but the results he accomplished with respect to the asserted trade-mark rights of respondent become fairly apparent from a consideration of the foregoing exhibits. In this connection I am willing to accept the following statement which I quote from respondent's brief on appeal:

" 'The Burns group thus organized U. S. Distillers, Inc. to acquire and sell the large stock of whiskey as a physical asset, to be owned independently of the trade-marks and good-will. They also organized said Wright-Taylor Distillery Company of Kentucky, to take over the Wright-Taylor whiskey business and trade-marks and good-will. This Wright-Taylor Distillery Company was to be financed in building a new distillery, which was to be built after repeal.'

"But the distillery was never built, nor did Wright-Taylor Distillery Company transact any business during the brief period in which it was possessed of such title to the trade-mark 'Old Charter' as may have passed by virtue of Exhibit 4. It follows that Wright-Taylor Distillery Company had no existing liquor business, and hence no good will in connection with any such business, to transfer to Wright & Taylor Distilling Corporation; so that the latter took nothing by the attempted assignment evidenced by Exhibit 8. *Kelly Liquor Co.* v. *National Brokerage Co.*, 26 C. C. P. A. 1110, 102 Fed.(2d) 857; *La Fayette Brewery, Inc.*, v. *Rock Island Brewing Co.*, 24 C. C. P. A. 925, 87 Fed.(2d) 489. Nor did it derive any trade-mark rights from U. S. Distillers, Inc., by virtue of Exhibit 7; for even had U. S. Distillers, Inc., been actively engaged in the liquor business, which is at least doubtful, certainly it had acquired no title to the trade-mark 'Old Charter.'

"On December 15, 1933 (respondent's Exhibit 10), Wright & Taylor Distilling Corporation transferred its title to a portion of the whisky, its rights under the contract Exhibit 3, and all its right, title and interest in and to 'Old Charter' and certain other trade-marks, 'together with the business and good will incident to the sale of whiskey thereunder,' to Bernheim Distilling Company, the corporation to which the registration here sought to be canceled was later issued. But here again there existed neither business, good will nor trade-mark rights to transfer. Not only had Wright & Taylor Distilling Corporation acquired no title to the trade-mark 'Old Charter' from any of its would-be assignors, but it had not used the mark after the assignments were made. Thus Bernheim Distilling Company was in no better position than had been its alleged predecessors in interest.

"Finally, it appears that when Bernheim Distilling Company filed its application to register on October 27, 1934, it had made no use of 'Old Charter' as a trade-mark on any of its whisky. For this reason alone the registration was improperly granted. *Motlow* v. *Oldetyme Distillers, Inc.*, 24 C. C. P. A. 1094, 88 Fed.(2d) 732."

THE WM. S. MERRELL COMPANY *v.* THE KROGER GROCERY & BAKING COMPANY, Opposition No. 21,406.

In this proceeding the Examiner of Trade-Mark Interferences dismissed the opposition of The Wm. S. Merrell Company, of Cincinnati, Ohio, to the application of The Kroger Grocery & Baking Company, also of Cincinnati, Ohio, for registration of the fanciful word "Thiron" as a trade-mark for bread, but adjudged applicant's mark to be nonregistrable for the reason that "the applicant cannot qualify as an owner of the mark for the goods specified in its application." Opposer took no appeal and so the dismissal of the opposition by the Examiner became final. Applicant, however, appealed from the Examiner's refusal of registration.

In a decision rendered July 21, 1943 (166 Ms. Dec. 244, — U. S. P. Q. —), *First Assistant Commissioner Frazer* reversed the decision of the Examiner of Interferences and held applicant entitled to the proposed registration. In his decision the First Assistant Commissioner said:

"The product upon which applicant uses its mark is a so-called 'enriched bread,' containing vitamin B_1, nicotinic acid, and iron, 'in accordance with the recommendations of the Committee on Food and Nutrition, National Research Council.' Opposer placed in the record several newspaper advertisements of applicant's bread, in which these enriching ingredients are some times referred to as 'Thiron.' An inspection of this advertising matter led the Examiner to the conclusion that purchasers 'would regard the notation "Thiron" as being the name of the enrichment factor included in the product rather than as a trade-mark for the bread.'

"The specimens filed with the application, to 'show the trade-mark as actually used upon the goods,' are complete bread wrappers bearing applicant's general trade-mark 'Clock' and the mark here in question. The two marks are separately displayed with substantially equal prominence. Under the word 'Clock,' and in smaller print, is the single word 'Bread,' while under the word 'Thiron,' also in smaller print, is the notation 'Enriched Bread.' This, of course, is an indication that 'Thiron' bread is of a particular grade or quality. But as affixed to the goods this word nevertheless carries trade-mark significance, unless the expression 'Thiron Enriched Bread' be interpreted to mean 'bread enriched with Thiron.' I am unable to agree with the Examiner that it is likely to be so interpreted. At least the record is not sufficiently convincing in that regard to warrant rejection of the application ex parte."

R. B. SEMLER, INCORPORATED, *v.* THE BARLOW CHEMICAL ASSOCIATION, Opposition No. 20,841.

In a decision rendered July 21, 1943 (166 Ms. Dec. 243, 58 U. S. P. Q. 494), *First Assistant Commissioner Frazer* affirmed the decision of the Examiner of Trade-Mark Interferences sustaining the opposition of R. B. Semler, Incorporated, of New Canaan, Conn., to the application of The Barlow Chemical Association, of Oklahoma City, Okla., for registration of the fanciful word "Trem" (printed with a dot over the letter "e") as a trade-mark for "antiseptic hair and dandruff preparation."

Opposer relied upon its ownership of the trade-mark "Kreml," registered for "hair tonic" some twelve years prior to applicant's claimed date of first use.

In his decision the First Assistant Commissioner first discussed the question whether the goods of the parties possess the same descriptive properties. He concluded that they do, and in support of that conclusion said:

"The product now being sold by applicant is not a hair tonic in the generally accepted sense of the term; but the description of goods set forth in the application is sufficiently broad to include hair tonics, provided only that they have antiseptic properties. It is a matter of common knowledge that many of them do have such properties, as does the hair tonic which opposer sells as 'Kreml.' Moreover, opposer's product and applicant's are both recommended for use in the removal of dandruff, and to that extent they are directly competitive. As respectively described in the registration and in the application they are substantially identical, and as actually sold they are very closely related and are manifestly goods of the same descriptive properties."

The First Assistant Commissioner also decided that the marks of the parties are confusingly similar. He stated:

"The marks of the parties differ somewhat in appearance, but they may be pronounced so as to be quite similar in sound; and similarity in sound is a highly important factor to be considered in determining the question of possible confusion. *In re Dutch Maid Ice Cream Co.*, 25 C. C. P. A. 1009, 95 Fed.(2d) 262; *Marion Lambert, Inc.*, v. *O'Connor*, 24 C. C. P. A. 781, 86 Fed.(2d) 980. Applicant insists that opposer's mark is a two-syllable word. It is true that the final letter is difficult to pronounce; but while some individuals may be inclined to overcome this difficulty by adding a vowel, others may attempt to pronounce 'Kreml' as a single syllable, in which case the letter 'l' would be practically indistinguishable in the resulting sound, which would be substantially the same as that of applicant's mark 'Trem.' Applicant has attempted to teach the public to pronounce its mark as though spelled 'trim,' but there is nothing to indicate that the attempt has been successful. In that connection the dot over the 'e' is meaningless, and the word is likely to be pronounced exactly as spelled. Finally, neither mark has any significance other than as a trade-mark, and there is thus greater likelihood of confusion than is the case where conflicting marks 'are made up of ordinary words used in everyday conversation.' *The Bon Ami Co.* v. *McKesson & Robbins, Inc.*, 25 C. C. P. A. 826, 93 Fed.(2d) 915.

"Resolving doubts in opposer's favor in accordance with well-established practice, it is my opinion that the opposition was properly sustained."

REVERE PAINT CO. *v.* 20TH CENTURY CHEMICAL COMPANY, Opposition No. 21,604.

In a decision rendered July 22, 1943 (166 Ms. Dec. 249, 58 U. S. P. Q. 495), *Assistant Commissioner Van Arsdale* reversed the decision of the Examiner of Trade-Mark Interferences and thereby dismissed the opposition of Revere Paint Co., of Philadelphia, Pa., to the application of 20th Century Chemical Company, of Camden, N. J., for registration of a mark "20th Century" on a distinctive background for a variety of named paints and painter's materials, including ready-mixed paints. The Assistant Commissioner stated that the application was filed June 7, 1940, and that the applicant had not sought to establish any earlier date of use of the mark.

The notice of opposition, the Assistant Commissioner said, asserted prior and continuous use by opposer and its predecessors of the trade-mark "20th Century" for identical goods, namely, ready-mixed paints; and also asserted identity of the marks and of the goods and likelihood of the registration, if granted, resulting in damage to opposer.

Opposer took proofs and, as stated by the Assistant Commissioner, contended in its brief on appeal that they show:

"* * * That while opposer, Revere Paint Company, uses the mark '20th Century' on its labels, and in its advertising literature, color cards and display signs, the actual selling of the products is done by George D. Wetherill & Company, who distribute the goods, bill the customers and do the collecting. In other words, the sales of opposer's goods, bearing the trade mark '20th Century,' are handled entirely by George D. Wetherill & Company, and the books are kept by this company. Thus, George D. Wetherill & Company is the commercial outlet or selling agent for opposer's '20th Century' brand of goods."

On the other hand, applicant contended that opposer had failed to establish it has ever used or has any right to use or has any title to the notation "20th Century."

The Examiner, the Assistant Commissioner said, did not pass specifically on the question of opposer's use or ownership of the mark "20th Century." The Assistant Commissioner quoted as follows from the Examiner's decision:

"It seems to the Examiner that this question of title as between the opposer and George D. Wetherill & Co. Inc. is not of materiality in this proceeding. In either case the applicant is in the position of a subsequent user of the mark. This matter of title therefore can add nothing to the applicant's claim of ownership thereof and under the circumstances set forth above is accordingly deemed to require no further consideration here. *Dubonnet Wine Corp.* v. *Ben-Burk, Inc.*, 50 U. S. P. Q. 76, 533 O. G. 753, 121 Fed.(2d) 508, (28 C. C. P. A. 129). *Oxo, Limited*, v. *The Griffith Laboratories, Inc.*, 53 U. S. P. Q. 264, (538 O. G. 750)."

The Assistant Commissioner discussed the cases cited by the Examiner. He said:

"It is noted that each opposer in the cases cited by the Examiner owned a registration of the mark relied on. Here neither opposer nor George D. Wetherill & Company has a registration. In the 'Dubonnet' case cited by the Examiner it is clear that the court sustained the opposition in view of the opposer's registration and not on the fact that a third party was shown to be the actual user of the mark. The court said:

" 'It is apparent, therefore, that we should give no effect in this case to appellant's concession that it is not actively engaged in any commercial business.'

"This clearly indicates that the court considered the opposer's registration effective to support the opposition and sustained the opposition on opposer's ownership of that registration. The court did not say that the opposer was entitled to prevail on the basis of the third party's use of the mark regardless of whether opposer had a registration or not.

"In *United Shoe Machinery Corp.* v. *Compo Shoe Machinery Corp.*, 19 C. C. P. A. 1009, 56 Fed.(2d) 292, 421 O. G. 4, the court said:

" 'The statute gives any person who believes he would be damaged the right to oppose, and any person who shall deem himself injured the right to petition for cancellation. These provisions are very broad and should be broadly construed. Of course, Congress did not mean to grant these rights to a mere intermeddler—to one who had no interest in the use of the term, and thereby authorize such a person to interfere in the affairs of others and in the business of the Patent Office.'

"I do not consider that the decisions cited by the Examiner depart from that pronouncement."

The Assistant Commissioner concluded that Revere Paint Co. had not established its right to oppose the granting of the registration sought by 20th Century Chemical Company. In discussing the position of Revere Paint Co., he said:

"It appears that the president of opposer, Revere Paint Company, is also president of George D. Wetherill

& Company. This gentleman testified some arrangement was entered into between these companies as to the manufacture and sale of paints, but apparently the arrangement was not reduced to writing and it is not stated when the arrangement was made or what the arrangement was. So far as the record shows opposer, Revere Paint Company, is not engaged in any business.

"George D. Wetherill & Company has been engaged for many years in the business of manufacturing and selling paints, and since at least as early as the year 1920 applied to one of its brands of paints and to color cards therefor the notation '20th Century'. The mark appeared on labels affixed to the cans of paint, and both the labels and the color cards also carried the name 'Revere Paint Company,' as the manufacturer of the paint. Presumably opposer consents to such use of its name on these labels and color cards, but that is a pure presumption, because the record does not show there was ever any such consent given, or in fact any arrangement at all between the two companies, with regard to the use by George D. Wetherill & Company of the notation '20th Century' or of opposer's corporate name. Nor does it appear why any consent by opposer to the use of the notation '20th Century' was at all necessary.

"It is clear from the record that it was George D. Wetherill & Company that applied the mark '20th Century' to its own goods in its own business and on its own behalf and not on behalf of opposer; and judging from the testimony of the dealer Kurtz who testified on behalf of opposer, that was the understanding in the trade. So the question is whether or not the mere appearance of the name 'Revere Paint Company' in association with the notation '20th Century' on the labels and color cards of George D. Wetherill & Company gives opposer such an interest in the mark '20th Century' as qualifies it to oppose registration of that mark by applicant. In my opinion it does not. It was George D. Wetherill & Company and not opposer that associated the name 'Revere Paint Company' with the mark '20th Century', and it does not appear that George D. Wetherill & Company did so for any benefit to opposer or even at opposer's request. Even opposer's consent to the display is only inferentially indicated in the record and not shown positively.

"Under the circumstances established by the record, it is my conclusion that opposer has not established the acquisition by it of any right to the use of the mark '20th Century' or any likelihood of itself being damaged directly or indirectly by the registration of the mark by applicant, and that therefore opposer has not established its right to oppose the granting of the registration. *United States Ozone Co.* v. *United States Ozone Co. of America*, 10 C. C. P. A. 1256, 58 Fed.(2d) 1051, 424 O. G. 3. The right to oppose here concerns only the opposer, Revere Paint Company. George D. Wetherill & Company is not a party to this proceeding."

The Assistant Commissioner also discussed, as follows, the question of ex parte refusal of registration:

"With regard to the propriety of considering opposer's testimony and proofs relating to the activities of George D. Wetherill & Company for possible grounds for ex parte refusal of registration, it is noted that no use or ownership of the mark by George D. Wetherill & Company was pleaded and the testimony was not directed to establishing any rights to the mark in that company. The notice of opposition and the testimony in support thereof were directed solely to establishing use and ownership of the mark by the opposer, Revere Paint Company. Consequently applicant was not called upon to meet the issue of whether George D. Wetherill & Company had any rights in the mark or to direct its cross-examination of opposer's witness accordingly or to take proofs with regard thereto, and obviously applicant did not do so. Under these circumstances, coupled with the fact that George D. Wetherill & Company has not seen fit to join in the opposition, it is believed it would not be proper to consider whether the proofs submitted by opposer do or do not show George D. Wetherill & Company to have any rights in the mark, or if so, what rights. Accordingly the proofs will not be considered for a possible ground for ex parte refusal of the registration for which applicant has applied. On this question the proofs do not have a sufficient degree of finality in view of the fact that neither party directed either pleading or proof to that issue and applicant was not called upon to meet the issue. As stated before, there is no prior registration here involved."

SOCONY-VACUUM OIL COMPANY, INCORPORATED, *v.* ATOMOL MFG. COMPANY, Cancellation No. 3963.

In a decision rendered July 23, 1943 (166 Ms. Dec. 246, 58 U. S. P. Q. 497), *First Assistant Commissioner Frazer* affirmed the decision of the Examiner of Trade-Mark Interferences dismissing the petition of Socony-Vacuum Oil Company, Incorporated, of New York, N. Y., to cancel trade-mark registration No. 274,609, issued September 2, 1930, under the provisions of the act of February 20, 1905, to Atomol Mfg. Company, of New Haven, Conn.

The only ground for cancellation alleged in the petition, the First Assistant Commissioner stated, is that the registered mark has been abandoned by respondent. Petitioner offered no evidence of abandonment, but relied upon the allegations of respondent's answer and the stipulated testimony submitted by respondent in support of such allegations. The facts thus appearing of record were set out by the First Assistant Commissioner as follows:

"'Atomol Mfg. Company' is the firm name of a business owned by Nelson Rostow and Jacob Regelson. The registration here sought to be canceled was issued upon an application filed March 25, 1930, claiming use of the registered mark ('Atomol') since September 3, 1928. Respondent's product bearing this mark had actually been sold by respondent 'for more than one year' at the time the mark was registered. 'Since on or about the date of the registration' this same product has been continuously 'manufactured, distributed and sold,' under the same trademark, by The Regal Drug Company, a corporation of the State of Connecticut. This has been done 'by oral license' from respondent, the terms of which are not disclosed. Rostow and Regelson, together with their wives, own all the outstanding capital stock of The Regal Drug Company. Respondent disclaims any intention to abandon the mark."

Because this use of the mark by The Regal Drug Company antedates petitioner's first use of the same mark on goods of the same descriptive properties, it was the opinion of the Examiner of Trade-Mark Interferences that petitioner

"has not established injury under section 13 of the statute by reason of the existence of the registration."

As supporting authority the Examiner cited the case of *Standard Brewery Co.* v. *Interboro Brewing Co.*, 44 App. D. C. 193, 222 O. G. 728. The First Assistant Commissioner quoted as follows the syllabus of that decision:

"A registered trade-mark cannot be properly canceled by the Commissioner of Patents on an application of a party who has no right to use the mark, but who shows that a third party has a right to its use superior to that of the registrant."

The First Assistant Commissioner stated that, in attempting to distinguish that case, petitioner pointed out that in the case at bar the showing of such rights as may be possessed by The Regal Drug Company to use the mark in question was not made by petitioner, but by respondent. He quoted the following section of petitioner's brief:

"In that case it was held that the petitioner, by averring superior title to the mark in question in a third party, the Massachusetts Breweries Company, had disqualified itself from contending for cancellation, since such averment was, in effect, an admission that the petitioner was not the owner and therefore could have no interest in such cancellation. In the present case it is not the petitioner but the registrant that avers facts tending to show superior title in a third party—The Regal Drug Company. * * *

"In the case cited the court did not decide that the third party was, in fact, the owner of the mark, since that question was not before it and the third party was not a party to the cancellation proceeding. In the present proceeding, however, the Examiner has, in effect, converted the proceeding into a trial of title as between the petitioner and the third party and found for the latter, upon wholly inadequate evidence, although the petitioner has never averred or admitted that such third party has any title whatever."

The Examiner, the First Assistant Commissioner asserted, did not decide that The Regal Drug Company is the owner of the mark, but only that petitioner is not the owner. The First Assistant Commissioner quoted the following statement of the Examiner:

"Since petitioner is a subsequent user as respects both the registrant and The Regal Drug company it is not the owner of nor entitled to the use of the mark 'Atomol' on goods of the same descriptive properties as set forth in the registration."

The First Assistant Commissioner then continued:

"Had petitioner proved abandonment by respondent I would be inclined to agree that the registration should be canceled, regardless of any rights The Regal Drug Company may have, and that such rights should be determined in an appropriate proceeding between that concern and petitioner. But it is my opinion that such abandonment has not been established.

"In *Mathy* v. *Republic Metalware Co.*, 35 App. D. C. 151, 154 O. G. 1109, it was said by the Court of Appeals of the District of Columbia:

"'Abandonment being in the nature of a forfeiture, it is incumbent upon the person alleging it to prove by clear and convincing evidence that the right claimed has been relinquished. The question of abandonment must be decided by the facts in each particular case; but a mark will never be held abandoned, unless a clear intention to do so appears.'

"In that case, as here, the original proprietor of the trade-mark involved had licensed another to manufacture and sell the merchandise to which he had appropriated the mark, and to use the mark in connection therewith, and had thereupon discontinued his own sale of such merchandise. Though this arrangement had been in effect for some years, the court held that there had been no abandonment and that the mark was still owned by the licensor as against the licensee. Upon the record here presented, and bearing in mind that the burden of proof was upon petitioner, I think that case affords ample authority for holding that respondent rather than The Regal Drug Company owns the mark as registered, and that the petition to cancel should have been dismissed on the ground that petitioner has failed to prove the alleged abandonment upon which the petition is predicated."

OLIVER FARM EQUIPMENT COMPANY *v.* DEERE & COMPANY, Opposition No. 21,734.

In this opposition proceeding, the applicant, Deere & Company, of Moline, Ill., appealed from the decision of the Examiner of Trade-Mark Interferences refusing it registration under the act of February 20, 1905, of a mark for plow bottoms consisting of the word "Chis-L-Point" surmounting a wide bar carrying the word "Economy," the base of the "L" projecting into the bar, the word "Chis-L-Point" being disclaimed.

In a decision rendered July 26, 1943 (166 Ms. Dec. 253, 58 U. S. P. Q. 499), *Assistant Commissioner Van Arsdale* affirmed the decision below and stated:

"The Examiner considered the word 'Chis-L-Point' to be the distinctive and dominating feature of the mark and the other portions of the mark to be relatively negligible in distinctiveness and prominence.

"When the word 'Chis-L-Point' is removed from the mark what is left of the mark is so different from the mark as presented as not to be recognizable as the same mark. In the case of *Ex parte Hall*, 166 Ms. D. 115, 56 U. S. P. Q. 419 (modified May 8, 1943) the mark was such that if the disclaimed words were removed it nevertheless would be recognized at once as being the same mark. The unique appearance of the mark remained substantially the same.

"In my opinion the Examiner was correct in considering the descriptive word 'Chis-L-Point' to constitute such a dominant part of the mark as to render the mark as a whole unregistrable because descriptive of the goods to which the mark is applied."

NORTH STAR WOOLEN MILL COMPANY *v.* L. W. GUILD COMPANY, INC., Opposition No. 21,793.

In a decision rendered July 26, 1943 (166 Ms. Dec. 254, — U. S. P. Q. —), *Assistant Commissioner Van Arsdale* reversed the decision of the Examiner of Trade-Mark Interferences and thereby sustained the opposition of North Star Woolen Mill Company, of Minneapolis, Minn., to the application of L. W. Guild Company, Inc., of Boston, Mass., for registration for worsted or woolen piece goods of a mark consisting of the word "Northland" with the word "Mills" in very small letters therebeneath, the word "Mills" being disclaimed.

The opposition was based on opposer's conceded prior use on like goods of a trade-mark consisting of the words "North Star" associated with the representation of a star, the star representation, the Assistant Commissioner said, being sometimes omitted, notably in advertising.

The Assistant Commissioner discussed as follows the position of the Examiner of Trade-Mark Interferences in dismissing the opposition, and his own position in sustaining the opposition:

"The Examiner held the marks to be not confusingly similar, stating that he considered the decision in *Montgomery Ward & Co., Inc.*, v. *Spiegel, Inc.*, 30 C. C. P. A. —, 152 Fed.(2d) 144, 56 U. S. P. Q. 185, 547 O. G. 605, which involved the words 'Airline' and 'Air Castle' to be extremely persuasive, while at the same time recognizing that each case must be decided on its own particular facts. In that decision it was stated that the connotation of the term 'Air Castle' 'is wholly different from any suggestion or meaning that might be attributed to the term "air line."' the decision pointing out that the word 'air' in 'airline' suggests straightness and the word 'air' in 'air castle' suggests visionairiness or dreaminess.

"In both 'Northland' and 'North Star', however, the word 'North' suggests the northern regions; 'Northland' suggesting a land of the northern regions and 'North Star' being the name of a particular star of the northern regions.

"'North' is very prominent in both marks, and gives the marks as a whole considerable similarity not only in sound and in appearance but also in suggestive meaning, so much so, in fact, that notwithstanding the dissimilarities between the parts 'land' and 'Star' of the marks in appearance and in sound and the fact that the words 'land' and 'star' are ordinary words having different meanings, and the disclaimed word 'Mills' is associated with the word 'Northland' in applicant's mark, it is my opinion that the concurrent use of the marks on the goods to which they are applied would be likely to cause confusion or mistake in the mind of the public and to deceive purchasers, and that the notice of opposition should be sustained."

THOMAS FRENCH & SONS, LTD., *v.* INTERNATIONAL BRAID COMPANY, Opposition No. 21,591.

In this opposition proceeding the Examiner of Trade-Mark Interferences dismissed the opposition of Thomas French & Sons, Ltd., of New York, N. Y., to the application of International Braid Company, of Providence, R. I., for registration of an alleged trade-mark, but held applicant's mark to be nonregistrable on the ground that it "is devoid of trademark significance."

In a decision rendered by *First Assistant Commissioner Frazer* on July 27, 1943 (166 Ms. Dec. 255, — U. S. P. Q. —), the decision of the Examiner of Trade-Mark Interferences was affirmed in so far as it refused registration of applicant's mark; otherwise the decision was reversed, and the opposition was sustained.

The First Assistant Commissioner stated that applicant's mark, appropriated to "ladder tape for

Venetian blinds," is described in the application as follows:

"Applicant does not claim color. The distinctiveness of the mark resides solely in arbitrarily inserting threads having different light-reflecting properties from the adjacent surface and thus forming a relatively narrow stripe along substantially the middle of the cross straps of the ladder tape. The trade-mark is applied to the goods by weaving it into the longitudinal center of the cross strips of the ladder tape. Applicant disclaims any exclusive right to the representation of a ladder tape alone appearing in the drawing."

In its brief on appeal applicant submitted the following amended description of its mark:

"The mark consists of an arbitrarily selected single narrow hair line stripe extending along substantially the middle of the cross straps of the ladder tape, said stripe being of generally the same color as the color of the strap but having a different shade or having different light-reflecting properties from the adjacent surfaces of the strap to be distinctive therefrom, for example, a red strap would have a distinctive red stripe, a black strap would have a distinctive black stripe, etc. The mark is applied to the goods by weaving two adjacent warp threads of the same color as the cross straps but of distinctive shade or distinctive light-reflecting properties therefrom into the longitudinal center of the cross straps of the ladder tape. Applicant disclaims any exclusive right to the representation of the ladder tape alone appearing in the drawing."

The First Assistant Commissioner concluded that the amendment added nothing to the registrability of applicant's mark. He agreed with the Examiner of Interferences that the mark is devoid of trade-mark significance. He stated that because the stripe as described

"is not restricted to any distinctive color, it possesses no feature, irrespective of the manner of application, which would tend to distinguish the goods or their origin,"

citing *In re Johns-Mansville, Inc.*, 55 App. D. C. 142, 2 Fed.(2d) 944.

Applicant argued that its mark is restricted to a distinctive color, namely, the color of the goods to which it is applied. The First Assistant Commissioner quoted as follows from the brief on appeal:

"Applicant's device is unique in that it adopts the same color as the cross strap but uses a different material for a distinguishing stripe. Applicant's mark is thus known by the color of the goods themselves and one may always find this visible hair line centrally located. Applicant's mark is now so defined that it conforms to the practice of registering a mark limited to color and a specific design or marking at a specific location on the goods. It is a device or symbol of origin. It is at a location hidden from view. It will be looked for when an identification or origin is desired. The mark does not try to preempt the entire field. Others can identify their goods by adopting other locations or adopting other colors."

With respect to the argument so advanced, the First Assistant Commissioner stated:

"It seems to me * * * that in effect applicant is attempting to monopolize all the colors of the spectrum, or at least all the colors in which cross straps for ladder tape are likely to be made. Clearly the use by a competitor of any colored stripe similarly positioned would infringe applicant's prima facie rights if its mark were registered. Assuming validity, I doubt, for example, that another would have the right to make yellow cross straps with a red stripe if applicant were awarded ownership of a red stripe for red cross straps. So there would be no 'other colors' subject to adoption."

In the notice of opposition, opposer pleaded its ownership of a registration, for goods identical with applicant's, in which the registered mark is described as follows:

"The trade-mark consists of a pair of threads in each of the successive cross straps or cross tapes of ladder web for Venetian blinds, both of said threads running longitudinally of the cross straps, each of said threads being adjacent, respectively, to one of the side edges of said cross straps, said threads being readily visible blue warp threads. They are applied to the goods by being woven into the cross straps during the manufacture of the goods."

The First Assistant Commissioner discussed the question of confusing similarity between that registered mark and applicant's mark. He said:

"The Examiner of Interferences did not pass upon the question of confusing similarity between the marks of the parties, but dismissed the opposition on the theory that 'there could be no confusion as to origin' because applicant's mark 'would not tend to distinguish the goods or their origin.' However, if the validity of opposer's registration be assumed, as it must be for the purpose of this proceeding, the presumption arises that opposer would be injured by the registration of a mark confusingly similar to its own; and any doubts in that regard must be resolved in opposer's favor. Thus indulging presumptions and resolving doubts, I think the opposition should have been sustained. In my opinion there is a reasonable likelihood that applicant's single blue stripe on blue cross straps would be confused with opposer's two blue stripes on blue cross straps, in the use of which opposer is unquestionably protected by its registration."

Opposer raised the issue of res judicata, and upon this issue the First Assistant Commissioner had the following to say:

"Opposer urges that the proposed registration is barred under the doctrine of res judicata. This argument is based upon my decision in the case of *International Braid Company* v. *Thomas French & Sons, Ltd.*, 517 O. G. 819, 46 U. S. P. Q. 276, where an application of the present opposer was opposed by the present applicant, the latter relying in part upon the mark here sought to be rgistered. The opposition was dismissed and the registration was denied. Opposer takes the position that the issues raised in the instant proceeding, while not determined in that case could have been so determined, and that applicant is thus 'estopped to contest the present opposition.' I am unable to accept opposer's reasoning. In the former proceeding the registrability of applicant's mark could not have been adjudicated, and that is the fundamental question here presented for decision."

ESQUIRE, INC., v. HOLLY MOLDING DEVICES, Opposition No. 21,829.

In a decision rendered July 28, 1943 (166 Ms. Dec. 262, — U. S. P. Q. —), *Assistant Commissioner Van Arsdale* affirmed the decision of the Examiner of Trade-Mark Interferences sustaining the opposition of Esquire, Inc., of Chicago, Ill., to the application of Holly Molding Devices, also of Chicago, Ill., for registration of the word "Esquire" for hamburger molding machines. The Assistant Commissioner stated that the letters of the word "Esquire" are of uniform size and in a commonly used type, and the word is not displayed distinctively in the statutory sense.

The Examiner sustained the opposition on the sole ground that applicant's mark is the subsequent appropriation of opposer's complete name, "Esquire, Inc."

In its notice of appeal applicant asserted that the Examiner erred in disregarding the fact that the goods of opposer's business and the goods for which applicant seeks registration are goods of different descriptive properties, and further erred in holding that applicant's mark is the complete appropriation of opposer's corporate name. As to said contentions, the Assistant Commissioner said:

"Under the law and authorities the Examiner was correct not only in holding that the mark 'Esquire' is the complete appropriation of opposer's corporate name, Esquire, Inc., (*The Asbestone Company* v. *The Philip Carey Manufacturing Company*, 41 App. D. C. 507, 1914 C. D. 146, 200 O. G. 857; *White Cap Company* v. *Allied Stores Corporation*, 503 O. G. 870, 41 U. S. P. Q. 554; *Ex parte Western Auto Supply Company*, 163 Ms. D. 526, 45 U. S. P. Q. 672), but also in disregarding the nature of the goods dealt in by the parties in view of the complete appropriation of opposer's corporate name, (*American Steel Foundries* v. *Robertson*, 269 U. S. 372, 1926 C. D. 289; *The Asbestone Company* v. *The Philip Carey Manufacturing Company*, supra; *Feldman* v. *Amos and Andy*, 21 C. C. P. A. 823, 68 Fed.(2d) 746, 441 O. G. 255; *White Cap Company* v. *Allied Stores Corporation*, supra)."

EX PARTE LUMMIS & COMPANY, Serial No. 449,737.

In a decision rendered July 29, 1943 (166 Ms. Dec. 259, — U. S. P. Q. —), *First Assistant Commissioner Frazer* affirmed the action of the Examiner of Trade-Marks in refusing registration to Lummis & Company, of Philadelphia, Pa., of a mark for a peanut confection, here reproduced:



Applicant disclaimed all wording, thus, the First Assistant Commissioner said, conceding that the only arbitrary feature of its mark is the elliptical design. However, the First Assistant Commissioner agreed with the Examiner that the mark is dominated by the wording, and that the disclaimer does not, therefore, warrant its registration.

Applicant criticized the decision of the First Assistant Commissioner in *Ex parte Kem Card Sales Corporation*, 497 O. G. 785, 39 U. S. P. Q. 354, relied on by the Examiner, as being inconsistent with *Beckwith* v. *Commissioner of Patents*, 252 U. S. 538, 1920 C. D. 471. In discussing the decision so criticized, the First Assistant Commissioner stated:

"In the Kem case I held that to permit the disclaimer of a nonregistrable word that dominates a composite mark 'would be a mere evasion of the statutory bar to registration.' Referring to the Beckwith case, applicant's counsel say in their brief:

"'In making this decision, the court had before it a trade-mark which consisted of the descriptive words "Moistair Heating System" associated with a circle design, and that court made it clear that the applicant had a right to disclaim those words and no one can deny that they obviously were the dominating nontechnical matter of that trade-mark.'

"As described by the court, however, the mark there under consideration was:

"'A design like a seal, comprising the head of an Indian chief surmounting a scroll bearing his name, "Doe-Wah-Jack," and surrounded by a circle, outside of which appear the words "Round Oak" and "Moistair Heating System" in a circle, and the whole being surrounded by a wreath of oak leaves.'

"The court held the mark to be registrable with an appropriate disclaimer of the descriptive words 'Moistair Heating System.' Manifestly the remaining words were arbitrary, and the court pointed out that:

"'No question of patent right or of unfair competition, or that the design of the trade-mark is so simple as to be a mere device or contrivance to evade the law and secure the registration of nonregistrable words, is involved. *Nairn Linoleum Co.* v. *Ringwalt Linoleum Works*, 46 App. D. C. 64, 69.'

"The Nairn case, thus cited with apparent approval by the Supreme Court, involved a mark quite analogous to applicant's mark in so far as registrability is concerned. It consisted in a name and a descriptive word, both disclaimed, and a cigar-shaped figure comparable to applicant's elliptical design. In holding the mark nonregistrable, the Court of Appeals of the District of Columbia said:

"'Indeed, but for the prohibited words there really would be no mark at all, since there would remain the entirely meaningless black figure. It is perfectly apparent that this meaningless black figure was employed as a vehicle by which there could be incorporated in the mark prohibited descriptive matter. Having in mind, therefore, the intent and purpose of the Trade-Mark Act, we repeat what we said in *Johnson* v. *Brandau*, 32 App. D. C. 348, that the applicant should have been required to omit the objectionable matter from its mark.'"

Counsel for applicant also questioned the right of the Patent Office to say that its mark is dominated by any particular feature or features; and criticized as unauthorized, uncertain, and impractical, the rule announced by the United States Court of Customs and Patent Appeals in the case of *In re Sears, Roebuck and Co.*, 132 Fed.(2d) 341, 56 U. S. P. Q. 166, cited and relied upon by the Examiner,

"that in considering the registrability of a composite mark it is proper and necessary to determine its dominant feature."

In regard to such argument, the First Assistant Commissioner said:

"Entirely aside from the fact that I do not share the views of counsel in this regard, a sufficient answer to their argument is that the tribunals of the Patent Office are controlled by the rulings of that court."

The Examiner refused to register applicant's mark on the additional ground that it is confusingly similar to a number of marks previously registered to others. This ground was discussed by the First Assistant Commissioner as follows:

"Several of these marks include the word 'Krunch' or 'Crunch,' which the Examiner seems to have regarded as arbitrary when used in connection with goods of the same descriptive properties as those here involved. Applicant insists that this word is descriptive of such goods. Be that as it may, the cited registrations must be assumed to be valid, even though entitled to only limited protection, and even though some of the registered marks bear closer resemblance one to the other than does applicant's mark to any of them. *Pepsodent Co.* v. *Comfort Manufacturing Co.*, 23 C. C. P. A. 1224, 83 Fed.(2d) 906.

"In order to simplify the issue, however, I am willing to disregard all the registrations cited by the Examiner, with one exception; and they may be considered withdrawn as references. The exception is registration No. 291,121, issued to one Carroll J. Rogers prior to applicant's alleged date of first use. The goods described in the registration are 'buttered popcorn, candied popcorn, salted peanuts, and peanuts in the natural state.' The registered mark is 'Krispee Kracks' and the disclaimed descriptive notation 'Delicious and Wholesome.' The expressions 'Krispy Krunch' and 'Krispee Kracks' differ only slightly in appearance and in sound, and in significance they are substantially identical. Manifestly, the two expressions are thus confusingly similar; and the situation is not remedied by the addition of the name 'Lummis' to applicant's mark. *California Prune & Apricot Growers Association* v. *Dobry Flour Mills, Inc.*, 26 C. C. P. A. 910, 101 Fed.(2d) 838.

"Counsel have requested that in the event the Examiner is affirmed, I indicate whether applicant's mark may be registered under the act of March 19, 1920. In the absence of anticipation, my answer would be in the affirmative. The Rogers registration, however, would constitute a bar under the 1920 act just as it does, in my opinion, under the act of 1905. It seems proper to add that as this question is not now before me for determination, the view here expressed is not to be considered as binding, either by applicant or by the Examiner."

BOTANY WORSTED MILLS v. BARBARA COAT CO., INC., Opposition No. 21,945.

In a decision rendered July 30, 1943 (166 Ms. Dec. 263, — U. S. P. Q. —), *Assistant Commissioner Van Arsdale* affirmed the decision of the Examiner of Trade-Mark Interferences sustaining the opposition of Botany Worsted Mills, of Passaic, N. J., to the application of Barbara Coat Co., Inc., of New York, N. Y., for registration of the word "Kingora" as a trade-mark for women's, misses', children's, boys' and youths' coats.

The opposition was based on prior use and registration by opposer of the mark "Gilgora" for woolen and worsted piece good, and on the use by opposer's customers on children's suits made of woolen and worsted piece goods bought from opposer under its trade-mark "Gilgora" of labels bearing the mark "Gilgora" and furnished them by opposer. The Assistant Commissioner stated that issuance of the registration to opposer was admitted and use of the mark by opposer and by opposer's customers, as stated, was stipulated, all since prior to the date asserted by applicant as its earliest date of use of its mark.

In agreeing with the Examiner that the opposition should be sustained, the Assistant Commissioner said:

"As applicant points out, opposer's piece goods are specifically different from applicant's coats. However the goods are goods of the same descriptive properties. *Kushner & Gilman* v. *Mayflower Worsted Co.*, 56 App. D. C. 165, 11 Fed.(2d) 462, 351 O. G. 686.

"As to the marks, both appear to be arbitrary words having no ordinary or suggestive meaning. They are both words of seven letters and three syllables, the first syllables being quite different but the last two syllables being the same. In my opinion the marks are so similar in appearance and in sound that their concurrent use on the goods to which the parties apply the marks would be likely to result in confusion and mistake in the mind of the public and to deceive purchasers."

TRADE-MARKS

OFFICIAL GAZETTE, AUGUST 31, 1943

[VOL. 553. No. 5]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 4

ABRASIVE, DETERGENT, AND POLISHING MATERIALS

Ser. No. 453,610. D. H. BUSTER CHEMICAL COMPANY, Kansas City, Mo. Filed June 12, 1942.

SPAR-KALL

FOR LIQUID CLEANSER FOR USE AS A FLOOR CLEANER.

Claims use since Mar. 1, 1942.

Ser. No. 459,449. UNITED GILSONITE LABORATORIES, Scranton, Pa. Filed Mar. 27, 1943.

MEX

FOR CLEANING COMPOUND FOR CLEANING FLOORS, PAINTED WALLS, ENAMELED WOODWORK AND THE LIKE.

Claims use since June 1, 1933.

Ser. No. 460,598. G. M. P. CORPORATION, Milwaukee, Wis. Filed May 13, 1943.

No claim is made for the word "Wool" apart from the mark.

VICTORY WOOL

FOR POLISHING WOOL—NAMELY, FINE WOOD SHAVINGS (EXCELSIOR) IMPREGNATED WITH A DETERGENT FOR CLEANING, AND POLISHING METAL COOKING UTENSILS.

Claims use since Apr. 29, 1943.

Ser. No. 460,706. JOHN HUDSON MOORE, INC., New York, N. Y. Filed May 18, 1943.

Applicant disclaims the words "Shaving Bowl" apart from the mark.

Sportsman SHAVING BOWL-ER

FOR SHAVING SOAP CONTAINED IN A CONTAINER WHICH MAY BE EMPLOYED FOR DECORATIVE PURPOSES AFTER THE SOAP HAS BEEN USED.

Claims use since Apr. 19, 1943.

Ser. No. 460,946. MURRAY L. SCHUSTER, doing business as United Sanitary Chemicals Company, Baltimore, Md. Filed May 26, 1943.

RESISTO

FOR CLEANER FOR FLOORS, WOODWORK, AND PAINTED OR VARNISHED SURFACES.

Claims use since June 1940.

Ser. No. 461,030. MINNESOTA MINING & MANUFACTURING COMPANY, St. Paul, Minn. Filed May 26, 1943.

Applicant is the owner of Reg. No. 167,713 for the mark "Wetordry," registered May 8, 1923, and renewed.

WETORDRY

FOR COATED ABRASIVES.

Claims use since July 6, 1921.

Ser. No. 461,160. THE CARBORUNDUM COMPANY, Niagara Falls, N. Y. Filed June 5, 1943.

UNION AND CARBORUNDUM

FOR SHEET MATERIAL COATED WITH AND/OR INCLUDING ABRASIVE GRAINS.
Claims use since December 1941.

Ser. No. 461,865. CHEMICAL CENTER CORPORATION, New York, N. Y. Filed July 5, 1943.

Shangrila

FOR SOAPS.
Claims use since Mar. 1, 1943.

CLASS 6

CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS

Ser. No. 443,577. PALOL PERFUMED PRODUCTS, INC., Bloomfield, N. J. Filed May 14, 1941.

PALOL

FOR SACHET BLOCKS.
Claims use since Jan. 5, 1940.

Ser. No. 454,398. BESSIRE & COMPANY, INC., Indianapolis, Ind., Louisville, Ky., Columbus, Ohio, Atlanta, Ga., Memphis, Tenn., and Richmond, Va. Filed July 22, 1942.
No claim is made to the words "Products" or "Bessire & Company, Incorporated" except as shown. The drawing is lined for red and blue.

BESSIRE & COMPANY INCORPORATED BESCO PRODUCTS

FOR DRY AND SULPHURIC AND MURIATIC ACIDS, AMMONIA, CORROSIVE SUBLIMATE TABLETS, COUMARIN, EMULSIONS, ESSENTIAL OILS, GLYCERINE, GUMS (INDIAN, ARABIC, TRAGACANTH), HOREHOUND HERB, ROACH POWDER AND RAT EXTERMINATOR, FOOD COLORS, FLY SPRAY, INSECT KILLER, INSECT SPRAY, RAT POISON, SILICATE OF SODA, INSECT EXTERMINATORS, RAT EXTERMINATORS, AND ICE CREAM COLOR.
Claims use since 1918.

Ser. No. 458,573. PHYSICIANS & HOSPITALS SUPPLY COMPANY, INC., doing business as Ulmer Pharmacal Company, Minneapolis, Minn. Filed Feb. 16, 1943.
The drawing is lined for red.

ANDOIN

FOR MEDICAL PREPARATION—NAMELY, A STIMULATING OINTMENT FOR TREATMENT OF INDOLENT SORES AND ULCERS.
Claims use since Oct. 24, 1941.

Ser. No. 459,147. THE CERTI-VITE COMPANY, Los Angeles, Calif. Filed Mar. 16, 1943.
Applicant disclaims the words "Vitamin Capsules" and the representation of a capsule apart from the mark.

CERTI-VITE

FOR CONCENTRATED VITAMINS.
Claims use since Feb. 11, 1943.

Ser. No. 459,546. HARRY R. LUKAISER, doing business as Ceapana Chemical Co., New York, N. Y. Filed Mar. 31, 1943.

C-PANA

FOR LIQUID PREPARATION FOR USE AS A FRESHENER FOR THE SKIN, SCALP, AND HAIR.
Claims use since Sept. 15, 1942.

Ser. No. 460,160. RUDOLPH REBOLD, New York, N. Y. Filed Apr. 24, 1943.

TENAMINES

FOR HYDROLYSATION PRODUCT OF PROTEINS (AMINO ACIDS).
Claims use since Apr. 3, 1943.

Ser. No. 460,174. FLORENCE J. DECOURSEY, doing business as Fyre-Lite Products, Detroit, Mich. Filed Apr. 26, 1943.
The word "Fyre" is disclaimed apart from the mark.

festiv-fyre

FOR CHEMICAL PREPARATIONS FOR USE IN COLORING FLAMES IN FIREPLACES.
Claims use since Oct. 8, 1942.

Ser. No. 460,424. GENERAL DYESTUFF CORPORATION, New York, N. Y. Filed May 5, 1943.

FENAMIN

FOR DYESTUFFS AND INDUSTRIAL CHEMICALS.
Claims use since Apr. 30, 1943.

Ser. No. 460,553. PARKE, DAVIS & COMPANY, Detroit, Mich. Filed May 11, 1943.

DICALSAMIN

FOR MINERAL-VITAMIN PREPARATION FOR THE PREVENTION OF MINERAL AND VITAMIN DEFICIENCIES.
Claims use since Apr. 5, 1943.

Ser. No. 460,596. THE CITRO-NESIA COMPANY, INC., Chicago, Ill. Filed May 13, 1943.
Applicant disclaims "Citro" per se apart from the mark.

CITRO-NESIA

FOR APERIENT MEDICINAL PREPARATIONS.
Claims use since June 1, 1915.

Ser. No. 461,112. MICHEL GOURLAND, doing business as Migou Cosmetics, New York, N. Y. Filed June 3, 1943.
The trade-mark consists of the word "Migou."

Migou

FOR COSMETIC SKIN LOTION FOR PERFUMING AND SOFTENING THE SKIN.
Claims use since Jan. 14, 1943.

Ser. No. 461,191. DENTON C. CROWL, doing business as Allen-Crowl Co., Toledo, Ohio. Filed June 7, 1943.

Trigger

FOR PHARMACEUTICAL PREPARATIONS ADAPTED TO REPEL AND KILL INSECTS AND AFFORD RELIEF FROM BITES, STINGS AND ITCHINGS.
Claims use since July 1, 1941.

Ser. No. 461,229. SCHERING & GLATZ, INC., New York, N. Y. Filed June 8, 1943.

ATOPHAN-UROTROPIN

FOR HEXAMETHYLENETETRAMINE OR HEXAMETHYLENAMINE (U. S. P.) AND PHENYLCINCHONINIC ACID OR 2-PHENYLQUINOLIN-4-CARBOXYLIC ACID, USEFUL IN THE TREATMENT OF GOUT AND RHEUMATIC CONDITIONS.
Claims use since Feb. 1, 1924.

Ser. No. 461,416. THE PENNSYLVANIA SALT MANUFACTURING COMPANY, Philadelphia, Pa. Filed June 15, 1943.

FOR LYE.
Claims use since 1925.

Ser. No. 461,634. THE LANDER CO. INC., New York, N. Y. Filed June 24, 1943.

Forbidden Secret

FOR PERFUME.
Claims use since June 17, 1943.

Ser. No. 461,635. THE LANDER CO. INC., New York, N. Y. Filed June 24, 1943.

Stolen Secret

FOR PERFUME.
Claims use since June 17, 1943.

Ser. No. 461,667. S. M. A. CORPORATION, Chicago, Ill. Filed June 25, 1943.

CARITOL

FOR MEDICINAL VITAMIN PREPARATIONS.
Claims use since June 8, 1943.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 459,956. RENE WASSERMANN, doing business as Eutectic Welding Alloys Company, New York, N. Y. Filed Apr. 17, 1943.

"Durface"

FOR METALLIC WELDING, BRAZING, AND SOLDERING ALLOYS IN THE FORM OF ELECTRODES AND RODS COATED WITH OR HAVING INCORPORATED THEREIN FLUX SUBSTANCE; NON-TACKY CEMENTING MATERIAL IN THE NATURE OF A SOLDER; SPELTER FOR WELDING, BRAZING, AND SOLDERING PURPOSES.
Claims use since Mar. 15, 1943.

Ser. No. 460,642. WISCONSIN FOUNDRY & MACHINE COMPANY, Madison, Wis. Filed May 14, 1943.

WFM

FOR IRON AND SEMI-STEEL CASTINGS.
Claims use since May 1941.

Ser. No. 461,159. BRACE-MUELLER-HUNTLEY, INCORPORATED, Buffalo, N. Y. Filed June 5, 1943.
The drawing is lined for red.

BMH

FOR STEEL IN THE FORM OF TOOL STEEL BARS.
Claims use since June 29, 1940.

Ser. No. 461,477. ALUMINUM FORGINGS, INC., Erie, Pa. Filed June 18, 1943.

AF

FOR FORGINGS MADE OF ALUMINUM AND OTHER METALS AND ALLOYS THEREOF.
Claims use since May 17, 1943.

CLASS 15

OILS AND GREASES

Ser. No. 461,587. WILLIAM W. CHENEY, Pittsfield, Mass. Filed June 22, 1943.

MONOFIL

FOR ENGRAVERS' WAX.
Claims use since Mar. 1, 1910.

CLASS 16

PAINTS AND PAINTERS' MATERIALS

Ser. No. 459,560. BEAUTYKOTE CORPORATION, Newark, N. J. Filed Apr. 1, 1943.
The word "Tone" is disclaimed apart from the mark.

BEAUTY-TONE

FOR READY-MIXED PAINTS, PAINT ENAMELS, AND VARNISHES.
Claims use since Mar. 10, 1943.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 454,393. BESSIRE & COMPANY, INC., Indianapolis, Ind., Louisville, Ky., Columbus, Ohio, Atlanta, Ga., Memphis, Tenn., and Richmond, Va. Filed July 22, 1942.
No claim is made to the words "Products" or "Bessire & Company, Incorporated" except as shown. The drawing is lined for red and blue.

BESSIRE & COMPANY BESCO PRODUCTS

FOR DAIRY, BAKERY, AND CONFECTIONERS' MACHINERY AND GOODS—NAMELY, ELECTRIC DONUT FRYERS, ELECTRIC DRINK MIXERS, ELECTRIC BOTTLE WASHERS, ELECTRIC OVENS AND EQUIPMENT.
Claims use since 1918.

Ser. No. 457,666. THE WESTINGHOUSE AIR BRAKE COMPANY, Borough of Wilmerding, Pa. Filed Dec. 30, 1942.

COMMUSTAT

FOR ELECTRICAL APPARATUS FOR DETECTING THE SLIPPING OF VEHICLE WHEELS AND RELIEVING THE SLIPPING CONDITION, INCLUDING AXLE DRIVEN COMMUTATOR UNITS FOR SAID APPARATUS AND MECHANISMS COOPERATIVELY INTERLOCKING SUCH UNITS WITH BRAKE SYSTEMS AND ACCELERATION CONTROL SYSTEMS.
Claims use since Dec. 4, 1942.

Ser. No. 460,197. ROGERS RADIO TUBES, LIMITED, Toronto, Ontario, Canada. Filed Apr. 26, 1943.

ULTRON

FOR THERMIONIC TUBES.
Claims use since June 15, 1942.

Ser. No. 461,026. ROHM & HAAS COMPANY, Philadelphia, Pa. Filed May 29, 1943.

DIAPLEX

FOR ELECTRICAL INSULATING MATERIAL IN THE FORM OF FILMS, SOLUTIONS, SUSPENSION, OR POWDER.
Claims use since May 21, 1943.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 460,185. SAM KALNER, doing business as Well Made Doll & Toy Co., New York, N. Y. Filed Apr. 26, 1943.

PURPLE SAGE

FOR TOYS—NAMELY, HOLSTER SETS MADE OF LEATHER AND IMITATION LEATHER, AND TOY GUNS AND PISTOLS.
Claims use since Dec. 15, 1942.

Ser. No. 461,724. CHARLES H. TAYLOR, Springfield, Mass. Filed June 28, 1943.

VENTURE MONEY

FOR GAME PLAYED WITH CARDS.
Claims use since Mar. 29, 1943.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 454,395. BESSIRE & COMPANY, INC., Indianapolis, Ind., Louisville, Ky., Columbus, Ohio, Atlanta, Ga., Memphis, Tenn., and Richmond, Va. Filed July 22, 1942.
No claim is made to the word "Products" and "Bessire & Company, Incorporated" except as shown. The drawing is lined for red and blue.

BESSIRE & COMPANY BESCO PRODUCTS

FOR DAIRY, BAKERY, AND CONFECTIONERS' MACHINERY AND GOODS—NAMELY, AERATORS, BEATERS FOR MIXING MACHINES, BOTTLE CAPPERS, FILLERS, WASHERS, AND STERILIZERS; BATCH MIXERS, COOKIE MAKING MACHINES, PIE MAKING MACHINERY AND TOOLS, JUG CAPPERS AND FILLERS, CANDY HOOKS, COOKIE AND CAKE

CUTTERS, CAN OPENERS, CANDY STIRRING PADDLES, SCOOPS—NAMELY, CANDY AND CONFECTIONERS', CAN SCRAPERS, CHURN STRAINERS, CREAM CAN SCRAPERS, CANDY SHEARS, CHURNS, CREAM MIXERS, CREAM SEPARATORS, CAN STEAMERS, CAKE FILLERS, CAN WASHING MACHINES, DOUGH BRAKES, EGG BEATERS, FOOD CHOPPERS, FRUIT JUICE EXTRACTORS, GRATING AND SLICING MACHINES; ICE UTENSILS—NAMELY, PICKS, TONGS, SCRAPERS, CRUSHERS, SHAVERS, SCOOPS, BREAKERS, SHOVELS; ICE CREAM UTENSILS—NAMELY, BRICK CUTTERS, CUTTING MACHINES, CAN CARRIERS, SODA AND SHERBET SPOONS OF BASE METAL, DISHERS, SPOONS; BASE METAL KNIVES OF ALL KINDS, JUG FILLERS AND CAPPERS, MILK CLARIFIERS, LEMON SQUEEZERS, PEEL BLADES, PAN CLEANING MACHINE, PLATE SCRAPERS, DRY ICE SAWS, ORNAMENTING SETS AND TUBES, RUBBER MALLETS, TUMBLER WASHERS, PASTEURIZERS, AND SCRAPERS—NAMELY, BARREL, DOUGH, FLOOR, RUBBER BLADED, PAN.

Claims use since 1918.

Ser. No. 456,598. GLASCOTE PRODUCTS, INC., Cleveland, Ohio. Filed Nov. 2, 1942.

Applicant is the owner of T. M. Reg. No. 243,975, comprising the term "Glascote."

GLASCOTE

FOR INDUSTRIAL AUTOCLAVES, MECHANICAL REACTORS, AGITATORS, AGITATION APPARATUS, AND PARTS THEREOF; ADJUSTABLE BAFFLE MECHANISMS FOR AUTOCLAVES AND MIXING MACHINES AND PARTS THEREOF; AGITATOR AND STIRRING MECHANISM FOR TANKS, KETTLES AND VATS; INDUSTRIAL MACHINERY AND SPECIFICALLY CHEMICAL AND PHARMACEUTICAL PROCESSING MACHINERY—NAMELY, GAS ABSORBERS, BUBBLE TOWERS, CHLORINATORS, ABSORBING COLUMNS, MECHANICAL POLYMERIZERS, DISTILLING AND FRACTIONATING COLUMNS, RECTIFYING AND DEPHLEGMATING COLUMNS, SCRUBBING COLUMNS, SOLVENT EXTRACTION COLUMNS, REFLUX AND SURFACE CONDENSERS, DEAERATORS, DEODORIZERS, DIGESTERS, DISSOLVERS, MIXERS, PRESSURE MIXERS, NITRATING AUTOCLAVES, PERCOLATORS, MECHANICAL REACTORS, AUTOCLAVES, MIXING PROPELLERS, ACID RESISTING PUMP LINERS AND ROTORS, FATTY ACID STILLS, FRACTIONATING STILLS, MECHANICAL SULFONATORS, ACID TOWERS, SCRUBBING TOWERS, AND PARTS THEREOF; INDUSTRIAL MACHINERY FOR USE IN THE DISTILLING INDUSTRY—NAMELY, PERCOLATORS AND PARTS THEREOF; INDUSTRIAL MACHINERY FOR USE IN THE FOOD PROCESSING INDUSTRY—NAMELY, BEAN SOAKERS, BRINE AND SYRUP MIXERS, DEAERATORS, MIXERS, PASTEURIZERS, PERCOLATORS, STILLS, AND PARTS THEREOF; INDUSTRIAL MACHINERY FOR USE IN THE PLASTIC, RUBBER AND SYNTHETIC RUBBER INDUSTRIES—NAMELY, AUTOCLAVES, MECHANICAL POLYMERIZERS, STRIPPERS, STRIPPING TOWERS; INDUSTRIAL MACHINERY FOR USE IN THE BEVERAGE INDUSTRY—NAMELY, MIXING MACHINES, PERCOLATORS AND PARTS THEREOF; INDUSTRIAL MACHINERY FOR USE IN THE BREWERY INDUSTRY—NAMELY, FERMENTERS, HOT BEER FERMENTERS, PORTABLE YEAST FERMENTERS, AND PARTS THEREOF; INDUSTRIAL MACHINERY FOR USE IN THE DAIRY INDUSTRY—NAMELY, AUTOCLAVES, BALANCE TANKS, BLENDING TANKS, BUTTER STARTERS, EMULSORS, HOPPERS, ICE CREAM BATCH MIXERS, ICE CREAM HOPPERS, MILK PASTEURIZERS, MILK POWDERING MACHINES, MILK EVAPORATING MACHINES AND PARTS THEREOF; AND ESPECIALLY DESIGNED AND CONSTRUCTED INDUSTRIAL MACHINERY FOR THE CHEMICAL, PHARMACEUTICAL, DISTILLERY, FOOD PROCESSING, PLASTIC, RUBBER, SYNTHETIC RUBBER, PETROLEUM, BEVERAGE, DAIRY AND BREWERY INDUSTRIES.

Claims use since December 1919.

Ser. No. 461,212. ARTHUR WEIS, doing business as Artag Engineering Works, Chicago, Ill. Filed June 7, 1943.

ARTAG

FOR DIES, JIGS, TOOL FIXTURES, SPECIAL TOOLS, AND MOLDS FOR PLASTICS OF THE TRANSFER, INJECTION, IMPRESSION, JET, FLASH, POSITIVE, SEMI-POSITIVE AND AUTOMATIC TYPES.

Claims use since May 20, 1938.

Ser. No. 461,454. BAKER PERKINS INC., Saginaw, Mich. Filed June 17, 1943.

Bp

FOR FLOUR HANDLING MACHINERY—NAMELY, SIFTERS: BOLTING REELS, BLENDERS, FLOUR CONVEYORS, AND ELEVATORS; DOUGH HANDLING MACHINES—NAMELY, DOUGH DIVIDERS, ROUNDERS, MIXERS, PROOFERS, MOULDERS, DOUGH RESERVOIRS, DOUGH PANNING MACHINES; MACARONI MACHINERY, NOODLE CUTTERS, PRESSES, BRAKES; BREAD HANDLING MACHINERY—NAMELY, COOLERS, SORTING TABLES, REDUCTION GEARS, WAFER MACHINES, FRUIT CLEANERS; CAKE DEPOSITORS; CONFECTIONERY MANUFACTURING MACHINERY—NAMELY, COATERS, FORMERS, COOKERS, COOLERS, CONFECTIONERY CONVEYORS, GRINDERS, REFINERS, BEATERS, DEPOSITORS, ROASTERS; BISCUIT MANUFACTURING MACHINERY—NAMELY, SHEETERS, FORMERS, CONVEYORS, COATERS, COOLERS, DEPOSITORS, PACKING MACHINERY.

Claims use since Apr. 24, 1939.

CLASS 25

LOCKS AND SAFES

Ser. No. 459,652. DIEBOLD SAFE & LOCK COMPANY, Canton, Ohio. Filed Apr. 6, 1943.

The name "Diebold" is owned by applicant by reason of trade-mark registration No. 161,934, effected under the 10-year proviso of the act of February 20, 1905.

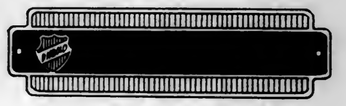
DIEBOLD

FOR FILING SAFES, SKELETON SAFES, FIREPROOF SAFES, BURGLARPROOF SAFES, MANGANESE SAFES, VAULT DOORS, LOCKS, SAFE-DEPOSIT BOXES, MONEY CHESTS, LEDGER SAFES, RECORD DESK SAFES, AND TELLERS' SAFETY LOCKERS.

Claims use to filing safes, skeleton safes, fireproof safes, burglarproof safes, manganese safes, vault doors, locks, safe-deposit boxes and money chests since Oct. 5, 1922; to ledger safes and record desk safes since 1927; and to tellers' safety lockers since 1931.

Ser. No. 459,653. DIEBOLD SAFE & LOCK COMPANY, Canton, Ohio. Filed Apr. 6, 1943.

The drawing is lined for red. The representation of a metal label is disclaimed.



FOR FILING SAFES, FIREPROOF SAFES AND VAULT DOORS.

Claims use since Oct. 1, 1941.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 458,939. KEUFFEL & ESSER COMPANY, Hoboken, N. J. Filed Mar. 6, 1943.

Photact

FOR LIGHT-SENSITIVE REPRODUCTION PAPERS AND CLOTHS.

Claims use since Nov. 3, 1939.

Ser. No. 460,585. SMITH TOOL AND ENGINEERING CO., Bucyrus, Ohio. Filed May 12, 1943.

STECO

FOR PRECISION MEASURING EQUIPMENT—NAMELY, SURFACE PLATES AND SPECIAL STANDS FOR HOLDING THEM, LAPPING PLATES, AND ANGLE PLATES AND CUBES.

Claims use since Nov. 30, 1942.

Ser. No. 460,603. GEORGE H. MORSE, Arlington, Va. Filed May 13, 1943.

Ultimator

FOR SLIDE RULE.

Claims use since Mar. 1, 1943.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 449,547. DOUGLAS AIRCRAFT COMPANY, INC., Santa Monica, Calif. Filed Dec. 17, 1941.



FOR BOOKS, PAMPHLETS, BOOKLETS, BROCHURES, BULLETINS, EMPLOYEE PUBLICATIONS, ANNUAL REPORTS, TECHNICAL REPORTS, SPECIFICATIONS AND PUBLICATIONS RELATING TO AIRCRAFT AND AIRCRAFT MANUFACTURE.

Claims use since 1924.

Ser. No. 460,004. MCKESSON & ROBBINS, INCORPORATED, New York, N. Y. Filed Apr. 19, 1943.

Moneymaker

FOR MONTHLY MERCHANDISING MEDIUM MAGAZINE.

Claims use since Mar. 15, 1930.

Ser. No. 461,396. HELEN TILTON, Woodridge, N. J. Filed June 14, 1943.
No claim is made to the name Helen Andrews apart from the mark.

Just Suggesting
By Helen Andrews

FOR NEWSPAPER COLUMN.
Claims use since July 26, 1941.

CLASS 39
CLOTHING

Ser. No. 449,438. I. SCHNEIERSON & SONS, INC., New York, N. Y. Filed Dec. 12, 1941.

Beauty Maid

FOR LADIES' CHEMISES, PAJAMAS, DRESSES, PRINCESS SLIPS, BLOOMERS, STEP-INS, NIGHTGOWNS, AND LADIES' UNIFORMS FOR WORK PURPOSES, AND CHILDREN'S CHEMISES, PAJAMAS, DRESSES, PRINCESS SLIPS, BLOOMERS, STEP-INS, AND NIGHTGOWNS OF A TEXTILE FABRIC.
Claims use since July 10, 1941.

Ser. No. 455,652. FOREST CITY MANUFACTURING COMPANY, doing business as Doris Dodson Garment Company, St. Louis, Mo. Filed Sept. 21, 1942.

Infadorables

FOR MATERNITY DRESSES.
Claims use since Sept. 10, 1942.

Ser. No. 457,638. A. DE PINNA CO., INC., New York, N. Y. Filed Dec. 29, 1942.
The phrase "Shop of De Pinna" is disclaimed apart from the mark.

VICTORY SHOP of De PINNA

FOR OFFICERS' UNIFORMS AND HATS FOR BOTH MEN AND WOMEN.
Claims use since Sept. 16, 1942.

Ser. No. 458,832. CUSTOM UNDERGARMENT CORPORATION, New York, N. Y. Filed Mar. 1, 1943.

CUSTOMATES

FOR UNDERWEAR FOR WOMEN AND GIRLS.
Claims use since Jan. 2, 1943.

Ser. No. 460,157. MUNSINGWEAR, INC., Minneapolis, Minn. Filed Apr. 24, 1943.

"Candleglow"

FOR WOMEN'S NIGHTGOWNS AND PAJAMAS.
Claims use since Mar. 31, 1943.

Ser. No. 460,565. CHIPMAN LACROSSE HOSIERY MILLS COMPANY, East Flat Rock, N. C. Filed May 12, 1943.

Mitten

FOR LADIES', MISSES', AND CHILDREN'S ANKLETS.
Claims use since Apr. 19, 1943.

Ser. No. 460,715. C. R. SHAPIRO, Los Angeles, Calif. Filed May 18, 1943.
The words "Custom Construction" are disclaimed apart from the mark.

SINGLE NEEDLE *Custom Construction*

FOR OUTER SHIRTS.
Claims use since July 25, 1942.

Ser. No. 461,087. BETMAR HATS INC., New York, N. Y. Filed June 2, 1943.

BETMAR

FOR LADIES' AND CHILDREN'S HATS.
Claims use since Apr. 15, 1933.

Ser. No. 461,356. APOLLO KNITTING MILLS, New York, N. Y. Filed June 14, 1943.

Sportigan

FOR LADIES' AND MISSES' SWEATERS, KNITTED SUITS, KNITTED JACKETS AND JERKINS, AND SLACKS.
Claims use since January 1938.

Ser. No. 461,391. SELECT SPORTSWEAR, INC., New York, N. Y. Filed June 14, 1943.
The wording "By Select Sportswear, Inc." is disclaimed apart from the mark.

SLOPPY-CLAUDIA
BY Select SPORTSWEAR, INC.

FOR LADIES' AND MISSES' SWEATERS, JACKETS.
Claims use since May 13, 1943.

Ser. No. 461,492. THE MONARCH GARMENT CO., New York, N. Y. Filed June 18, 1943.

Monarvo

FOR LADIES' COATS AND SUITS.
Claims use since January 1936.

Ser. No. 461,676. WOLF & BARSE, INC., New York, N. Y. Filed June 25, 1943.

Queen Paca

FOR LADIES' AND MISSES' COATS AND SUITS.
Claims use since May 1937.

CLASS 40
FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 455,551. ARTCRAFT SPORTWEAR COMPANY, New York, N. Y. Filed Sept. 16, 1942.

Fuzzy Cubby by Artcraft

FOR SHOULDER STRAPS FOR UNDERGARMENTS; RIBBON BOWS, AND ROSETTES.
Claims use since May 1, 1941.

CLASS 42
KNITTED, NETTED, AND TEXILE FABRICS

Ser. No. 461,117. MALLINSON FABRICS CORPORATION, New York, N. Y. Filed June 3, 1943.

LIMITED EDITION

FOR PIECE GOODS OF SILK, WOOL, COTTON, RAYON, AND MIXTURES OF SILK AND RAYON.
Claims use since Apr. 15, 1943.

Ser. No. 461,476. YORK STREET FLAX SPINNING CO. LIMITED, Belfast, Ireland. Filed June 17, 1943.



FOR LINEN PIECE GOODS AND LINEN UNION PIECE GOODS IN WHICH LINEN PREDOMINATES.
Claims use since Nov. 6, 1913.

Ser. No. 461,645. ARTHUR BEIR & CO., INC., New York, N. Y. Filed June 25, 1943.

"ONE-TWO-THREE"

FOR COTTON PIECE GOODS.
Claims use since June 7, 1943.

Ser. No. 461,660. KEMPER FABRICS CO. INC., New York, N. Y. Filed June 25, 1943.

Flirtation

FOR TEXTILE FABRICS IN THE PIECE OF COTTON, RAYON AND COMBINATIONS THEREOF.
Claims use since November 1935.

Ser. No. 461,772. PLYMOUTH WHOLESALE DRY GOODS CORPORATION, New York, N. Y. Filed June 30, 1943.

SHEERQUISETTE

FOR PLAIN MARQUISETTE CURTAINS.
Claims use since May 12, 1943.

CLASS 43

THREAD AND YARN

Ser. No. 461,502. SPINNERIN YARN CO., INC., New York, N. Y. Filed June 18, 1943.

SPINNERIN

FOR YARN.
Claims use since May 2, 1935.

Ser. No. 461,567. PENN WORSTED COMPANY, Philadelphia, Pa. Filed June 21, 1943.

DECOFIL

FOR YARNS.
Claims use since June 9, 1943.

Ser. No. 461,568. PENN WORSTED COMPANY, Philadelphia, Pa. Filed June 21, 1943.

DECOSPUN

FOR YARNS.
Claims use since June 9, 1943.

Ser. No. 461,584. BOTANY WORSTED MILLS, Passaic, N. J. Filed June 22, 1943.

SAXATONES

FOR HAND KNITTING YARNS.
Claims use since June 11, 1943.

CLASS 45

BEVERAGES, NONALCOHOLIC

Ser. No. 461,226. GARABED S. PAPAZIAN, doing business as Papazian Delmor Co., West New Brighton, Staten Island, N. Y. Filed June 8, 1943.
No claim is made to the words "Papazian," "Drink of Perfection," and "Genuine" apart from the mark.

PAPAZIAN
DELMOR
DRINK OF PERFECTION
Genuine

FOR SYRUP USED IN THE MANUFACTURE OF NON-ALCOHOLIC MALTLESS BEVERAGES.
Claims use since Apr. 23, 1943.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 443,834. THE BUSBY COMPANY, Cleveland, Ohio. Filed May 23, 1941.

PUD·N·PY

FOR CHEESE CAKES.
Claims use since Jan. 13, 1941.

Ser. No. 452,165. PHIL HANTOVER, INC., Kansas City, Mo. Filed Apr. 6, 1942.
Applicant is the owner of trade-mark registration No. 378,742.

PRES-TEEGE

FOR SEASONINGS FOR SAUSAGES.
Claims use since April 1939.

Ser. No. 452,515. ELVIRA VON TUERK, Greenwood Lake, N. Y. Filed Apr. 22, 1942.



FOR CHOCOLATE COATED CANDY CONTAINING NUTS AND FRUITS.
Claims use since June 1, 1941.

Ser. No. 459,158. BAY STATE MILLING CO., Winona, Minn. Filed Mar. 17, 1943.

STURDIBAKER

FOR WHEAT FLOUR.
Claims use since Feb. 9, 1943.

Ser. No. 459,808. R. T. FLEISCHER, Nogales, Ariz. Filed Apr. 12, 1943.
The word "Flecha" means arrow in Spanish. No claim is made to the representation of the tomato apart from the mark.



FOR FRESH VEGETABLES—NAMELY, TOMATOES.
Claims use since Feb. 7, 1943.

Ser. No. 459,809. R. T. FLEISCHER, Nogales, Ariz. Filed Apr. 12, 1943.
The word "Lobo" means wolf in Spanish.



FOR FRESH VEGETABLES.
Claims use since Feb. 7, 1943.

Ser. No. 461,483. ENERGEN FOODS CO., LIMITED, London, England. Filed June 18, 1943.

ENERSEM

FOR PREPARED CEREAL FOOD.
Claims use since Mar. 1, 1943.

Ser. No. 461,581. WACHSBERG PICKLE WORKS, Bayonne and Hoboken, N. J. Filed June 21, 1943.
The picture is fanciful.



FOR DILL PICKLES, SWEET MIXED PICKLES, SWEET PICKLE RINGS, SWEET PICKLES, SWEET PICKLE RELISH, PICKLED PEPPERS, SWEET ONIONS, QUEEN OLIVES, STUFFED OLIVES, HORSERADISH, MAYONNAISE, MARASCHINO CHERRIES, AND MUSTARD.
Claims use since 1920.

Ser. No. 461,646. E. G. BILLINGS, doing business as The Magic Food Products Co., St. Louis, Mo. Filed June 25, 1943.

MAGIC DIP

FOR SPECIALLY PROCESSED WHEAT PRODUCT USED FOR BREADING AND THE LIKE PURPOSES IN A MANNER SIMILAR TO THE USE OF BREAD OR CRACKER CRUMBS.
Claims use since June 5, 1943.

Ser. No. 461,818. IOWA CANNING COMPANY, Vinton, Iowa. Filed July 2, 1943.

"Chubbies"

FOR CANNED VEGETABLES—NAMELY, PEAS.
Claims use since May 1, 1942.

Ser. No. 461,944. CINDERELLA FOODS, Dawson, Ga. Filed July 9, 1943.



Fairy Wand

FOR PEANUT BUTTER.
Claims use since May 12, 1943.

Ser. No. 462,037. VICTORY PRODUCE CO., Los Angeles, Calif. Filed July 12, 1943.

TOP HOUSE

FOR FRESH VEGETABLES AND FRESH DECIDUOUS FRUITS.
Claims use since May 29, 1943.

CLASS 47

WINES

Ser. No. 461,711. CALIFORNIA WINE SALES, INC., Lodi, Calif. Filed June 28, 1943.

ST MARK

FOR WINE.
Claims use since Feb. 24, 1943.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Ser. No. 455,158. G. F. HUEBLEIN & BRO., Hartford, Conn. Filed Aug. 28, 1942.

The name "Bell's" is disclaimed except as shown. The facsimile signature is that of Arthur Bell, deceased.

BELL'S



Arthur Bell & Sons Ltd.

FOR WHISKEY.
Claims use since Apr. 30, 1940.

Ser. No. 461,351. SEGGERMAN NIXON CORPORATION, New York, N. Y. Filed June 12, 1943.

Castanet

FOR RUM AND GIN.
Claims use since June 9, 1943.

Ser. No. 461,753. BLACKHAWK HOTELS COMPANY, Davenport, Iowa. Filed June 30, 1943.



FOR WHISKIES.
Claims use since Jan. 5, 1943.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 461,257. MCDONNELL AIRCRAFT CORPORATION, St. Louis, Mo. Filed June 9, 1943.

STRUCTOMOLD

FOR COMPOSITION MATERIAL IN THE NATURE OF RESIN IMPREGNATED LAMINATE MANUFACTURED IN SHEET FORM.
Claims use since May 11, 1943.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

AUGUST 31, 1943

403,017. INSECTICIDE. CHAPMAN & RODGERS, INC., Philadelphia, Pa.
Filed October 12, 1939. Serial No. 424,464. PUBLISHED JANUARY 30, 1940. Class 6.

403,018. CANNED COMPOUND OF COTTONSEED, PEANUT, AND IMPORTED OLIVE OIL. GUS SCLAFANI, Stamford, Conn.
Filed July 29, 1941. Serial No. 445,751. PUBLISHED JUNE 22, 1943. Class 46.

403,019. PREPARATION USED AS A CORN AND CALLOUS REMOVER. STOMAR PRODUCTS COMPANY, Kansas City, Mo., assignor, by mesne assignments, to Stomar Products Co., Kansas City, Mo., a corporation.
Filed September 29, 1941. Serial No. 447,400. PUBLISHED JUNE 22, 1943. Class 6.

403,020. QUARTZ CRYSTAL ELECTRIC OSCILLATOR. GENERAL ELECTRIC COMPANY, Schenectady, N. Y.
Filed December 24, 1941. Serial No. 449,734. PUBLISHED JUNE 22, 1943. Class 21.

403,021. GAS COOKING RANGES. THE CLEVELAND CO-OPERATIVE STOVE COMPANY, Cleveland, Ohio.
Filed February 17, 1942. Serial No. 451,031. PUBLISHED MAY 12, 1942. Class 34.

403,022. CHOCOLATE MALTED MILK PREPARATION IN POWDER AND LIQUID FORM. JACK POLIN, doing business as Packard Food Products Co., Brooklyn, N. Y.
Filed February 26, 1942. Serial No. 451,241. PUBLISHED JUNE 22, 1943. Class 46.

403,023. CHEMICAL PREPARATIONS FOR INCORPORATION INTO, OR APPLICATION TO, AN ARTIST'S DRAWING ON PAPER TO RENDER THE WORK AREAS OF THE DRAWING ABSORBENT OF ULTRAVIOLET LIGHT WHEREBY TO ADAPT THE DRAWING FOR REPRODUCTION BY A PHOTOENGRAVING PROCESS WHEREIN THE HIGHLIGHT AREAS ON THE NEGATIVE ARE CLEARED OF SCREEN PATTERN BY EXPOSURE TO ULTRAVIOLET LIGHT REFLECTED BY THE NON-WORK AREAS OF THE DRAWING, ETC. PRINTING ARTS RESEARCH LABORATORIES, INC., Santa Barbara, Calif.
Filed March 13, 1942. Serial No. 451,611. PUBLISHED JUNE 22, 1943. Class 6.

403,024. FLAT GLASS. NATIONAL GLASS DISTRIBUTORS ASSOCIATION, Chicago, Ill.
Filed March 16, 1942. Under the act of February 20, 1905, as amended June 10, 1938. Serial No. 451,649. PUBLISHED JUNE 22, 1943. Class 33.

403,025. SWITCH GEAR INCLUDING CUBICLES AND SWITCHBOARDS FOR CONTROL OF ELECTRIC POWER; OUTLET BOXES, INSULATING SLABS, BUS RUNS; AND PARTS THEREOF. G AND N ENGINEERING COMPANY, Boston, Mass.
Filed March 21, 1942. Serial No. 451,816. PUBLISHED JUNE 22, 1943. Class 21.

403,026. ALBUMS FOR HOLDING PHONOGRAPH RECORDS. PEERLESS ALBUM CO., INC., New York, N. Y.
Filed April 23, 1942. Serial No. 452,537. PUBLISHED JUNE 22, 1943. Class 36.

403,027. UTILITY BAGS MADE OF CLOTH. VICTORY BAG COMPANY, Paterson, N. J., assignor to Alfred Merwin Hickman, doing business as Victory Bag Company, Paterson, N. J.
Filed May 19, 1942. Serial No. 453,132. PUBLISHED JUNE 22, 1943. Class 3.

403,028. PERMANENT HAIR WAVING SOLUTION. MYRTLE EVANS WIGGINS, doing business as The Lifola Company, Tulsa, Okla.
Filed June 5, 1942. Serial No. 453,502. PUBLISHED MARCH 2, 1943. Class 6.

403,029. LUBRICATING GREASE FOR HANDPIECES, ANGLES, ENGINE ARMS AND MOTORS, AND OTHER MECHANISM. THE S. S. WHITE DENTAL MANUFACTURING COMPANY, Philadelphia, Pa.
Filed August 25, 1942. Serial No. 455,110. PUBLISHED JUNE 22, 1943. Class 15.

403,030. LIQUID PREPARATION FOR CLEANING, PRESERVING, AND RENEWING TYPEWRITER AND WRINGER ROLLERS AND FOR CLEANING TYPEWRITER TYPE. MOHAWK CHEMICAL PRODUCTS CO., Philadelphia, Pa., assignor to Mohawk Chemical Products, Inc., a corporation of Pennsylvania.
Filed October 15, 1942. Serial No. 456,219. PUBLISHED JUNE 22, 1943. Class 4.

403,031. WOODEN DISPENSING CABINETS FOR PAPER TOWELS. BAY WEST PAPER COMPANY, Green Bay, Wis.
Filed October 19, 1942. Serial No. 456,266. PUBLISHED JUNE 22, 1943. Class 2.

403,032. IODINE COMPOSITIONS. IOLINE COMPANY, Newark, N. J.
Filed October 28, 1942. Serial No. 456,491. PUBLISHED JUNE 22, 1943. Class 6.

403,033. GRAPHITE LUBRICANTS. JOSEPH DIXON CRUCIBLE COMPANY, Jersey City, N. J.
Filed December 8, 1942. Serial No. 457,273. PUBLISHED JUNE 22, 1943. Class 15.

403,034. FRESH CITRUS FRUITS. DALE BUMSTEAD, Phoenix, Ariz.
Filed December 21, 1942. Serial No. 457,539. PUBLISHED JUNE 22, 1943. Class 46.

403,035. FACE PACK COSMETIC, WHITE FACE PACK COSMETIC, COLD CREAM, VANISHING CREAM, FACE POWDER, CLEANSING CREAM, ETC. BONCILLA LABORATORIES, INCORPORATED, Indianapolis, Ind.
Filed January 21, 1943. Serial No. 458,060. PUBLISHED JUNE 22, 1943. Class 6.

403,036. UNITARY AXLE ASSEMBLY SOLD AS AN AUXILIARY FOR TRUCK OR TRACTOR. THE TRAILER COMPANY OF AMERICA, Cincinnati, Ohio.
Filed February 1, 1943. Serial No. 458,295. PUBLISHED JUNE 22, 1943. Class 19.

403,037. AIRCRAFT PROPELLERS, PARTS, AND ATTACHMENTS THEREFOR. UNITED AIRCRAFT CORPORATION, East Hartford, Conn.
Filed February 5, 1943. Serial No. 458,360. PUBLISHED JUNE 22, 1943. Class 19.

403,038. MACHINE FOR BALANCING MASSES, MACHINES FOR DETERMINING AND/OR CORRECTING UNBALANCE IN MASSES, MACHINES FOR PRODUCING, MEASURING, AND/OR ELIMINATING VIBRATIONS IN ROTATING MASSES. GYRO-BALANCE CORPORATION, Greenwich, Conn.
Filed February 8, 1943. Serial No. 458,393. PUBLISHED JUNE 22, 1943. Class 26.

403,039. FRESH CITRUS FRUITS. RAY M. CRANE, doing business as Associated Fruit Distributors of California, Los Angeles, Calif.
Filed February 22, 1943. Serial No. 458,679. PUBLISHED JUNE 22, 1943. Class 46.

403,040. PRINTED ADVERTISING MATERIAL SOLD AS SUCH. ROY P. PALMER, Minneapolis, Minn.
Filed February 24, 1943. Serial No. 458,739. PUBLISHED JUNE 22, 1943. Class 38.

403,041. GASEOUS TUBE LIGHTING UNITS. THE FRANCE MANUFACTURING COMPANY, Cleveland, Ohio.
Filed February 26, 1943. Serial No. 458,780. PUBLISHED JUNE 22, 1943. Class 21.

403,042. GASOLINE. PHILLIPS PETROLEUM COMPANY, Bartlesville, Okla.
Filed March 8, 1943. Serial No. 458,972. PUBLISHED MAY 25, 1943. Class 15.

403,043. CIGARS. MEDALIST CO., INC., Passaic, N. J.
Filed March 10, 1943. Serial No. 459,012. PUBLISHED JUNE 22, 1943. Class 17.

403,044. GLASS TABLE AND COOKING WARE. SUN FLAME APPLIANCES LIMITED, Ridgefield, N. J.
Filed March 10, 1943. Serial No. 459,017. PUBLISHED JUNE 22, 1943. Class 33.

403,045. STATIONERY—NAMELY, WRITING PAPER AND ENVELOPES SOLD IN THE FORM OF PACKETS AND IN BOXES. AMERICAN ART SERVICE, also doing business as Spector-Goodman Advertising, Chicago, Ill.
Filed March 15, 1943. Serial No. 459,100. PUBLISHED JUNE 22, 1943. Class 37.

403,046. TRADE ORGAN PUBLISHED FROM TIME TO TIME DEVOTED LARGELY, ALTHOUGH NOT ENTIRELY, TO ADVERTISING CONSTRUCTION MATERIALS, PROTECTIVE PRODUCTS AND OTHER GOODS SOLD BY THE APPLICANT. ALLIED CHEMICAL & DYE CORPORATION, New York, N. Y.
Filed March 17, 1943. Serial No. 459,157. PUBLISHED JUNE 22, 1943. Class 38.

403,047. EXERCISERS FOR BABIES. CHILDHOOD INTERESTS, INC., Roselle, N. J.
Filed March 17, 1943. Serial No. 459,164. PUBLISHED JUNE 22, 1943. Class 22.

403,048. PAPER DRINKING CUPS. UNITED STATES ENVELOPE COMPANY, Springfield, Mass.
Filed March 17, 1943. Serial No. 459,180. PUBLISHED JUNE 22, 1943. Class 2.

403,049. STEEL WASHERS, TUBE CLAMPS, CONDUIT CLAMPS, HOSE CLAMPS, AIRCRAFT SHACKLES, PIPE PLUGS, COTTER PINS, ETC. AERO SUPPLY MFG. CO. INC., Corry, Pa.
Filed March 18, 1943. Serial No. 459,187. PUBLISHED JUNE 1, 1943. Class 13.

403,050. EMULSIFIED WALL FINISHING PAINT. SOCONY-VACUUM OIL COMPANY, INCORPORATED, New York, N. Y.
Filed March 19, 1943. Serial No. 459,231. PUBLISHED JUNE 22, 1943. Class 16.

403,051. PLASTIC PRICE TICKETS MOLDINGS AND PLASTIC PRICE TICKETS HOLDERS. HOPP PRESS INC., New York, N. Y.
Filed March 24, 1943. Serial No. 459,307. PUBLISHED JUNE 22, 1943. Class 13.

403,052. CUSHIONS, PILLOWS, MATTRESSES, SEATS FOR CHAIRS, ARM RESTS, AND PADS FOR USE ON CHAIR SEATS. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio.
Filed March 25, 1943. Serial No. 459,340. PUBLISHED JUNE 22, 1943. Class 32.

403,053. BOTTLE CROWN DISCS. CERTAIN-TEED PRODUCTS CORPORATION, Chicago, Ill.
Filed March 26, 1943. Serial No. 459,358. PUBLISHED JUNE 22, 1943. Class 50.

403,054. SPACHTLING COMPOUND. UNITED GILSONITE LABORATORIES, Scranton, Pa.
Filed March 27, 1943. Serial No. 459,445. PUBLISHED JUNE 22, 1943. Class 12.

403,055. CUTTING LUBRICANTS. FILMITE OIL CORPORATION, Milwaukee, Wis.
Filed March 29, 1943. Serial No. 459,464. PUBLISHED MAY 25, 1943. Class 15.

403,056. TABLE BALL GAME. GEORGE H. FORSYTH, Evanston, Ill.
Filed March 31, 1943. Serial No. 459,541. PUBLISHED JUNE 22, 1943. Class 22.

403,057. SALTS FOR USE IN MOLTEN STATE TO DARKEN METAL SURFACES. MITCHELL-BRADFORD CHEMICAL COMPANY, Bridgeport, Conn.
Filed April 1, 1943. Serial No. 459,572. PUBLISHED JUNE 22, 1943. Class 6.

403,058. BOTTLED SODIUM HYPOCHLORITE SOLUTION USED AS A DEODORANT AND DISINFECTANT. RED ROSE CHEMICAL CO., Newark, N. J.
Filed April 3, 1943. Serial No. 459,603. PUBLISHED JUNE 22, 1943. Class 6.

403,059. PYROPHORIC CIGARETTE LIGHTERS. THE FIRESTONE TIRE & RUBBER COMPANY, Akron, Ohio.
Filed April 5, 1943. Serial No. 459,623. PUBLISHED JUNE 22, 1943. Class 34.

403,060. IDENTIFICATION BRACELETS AND TAGS NOT INCLUDING WATCHES. IDENTAG, INC., New York, N. Y.
Filed April 6, 1943. Serial No. 459,667. PUBLISHED JUNE 22, 1943. Class 28.

403,061. VEHICLE FOR USE IN COMPOUNDING PRESCRIPTIONS. WILLIAM R. WARNER & CO., INC., Wilmington, Del., and New York, N. Y.
Filed April 6, 1943. Serial No. 459,680. PUBLISHED JUNE 22, 1943. Class 6.

403,062. HUMECTANTS. THE AKTIVIN CORPORATION, New York, N. Y.
Filed April 7, 1943. Serial No. 459,682. PUBLISHED JUNE 22, 1943. Class 6.

403,063. LEG MAKE-UP FOUNDATION. THE BENJAMIN ANSEHL CO., St. Louis, Mo.
Filed April 10, 1943. Serial No. 459,775. PUBLISHED JUNE 22, 1943. Class 6.

403,064. CHEMICAL PREPARATION FOR FUMIGATING TOBACCO. CYRUS D. BIAS, doing business as Tobacco States Chemical Company, Cave City, Ky.
Filed April 12, 1943. Serial No. 459,801. PUBLISHED JUNE 22, 1943. Class 6.

403,065. OINTMENTS AND CREAMS FOR PROTECTION OF THE SKIN FROM FOREIGN MATTER AND IRRITATION. RICHARD HUDNUT, New York, N. Y.
Filed April 13, 1943. Serial No. 459,837. PUBLISHED JUNE 22, 1943. Class 6.

403,066. OINTMENTS AND CREAMS FOR PROTECTION OF THE SKIN FROM FOREIGN MATTER AND IRRITATION. RICHARD HUDNUT, New York, N. Y.
Filed April 13, 1943. Serial No. 459,838. PUBLISHED JUNE 22, 1943. Class 6.

403,067. MATTRESSES. ECLIPSE SLEEP PRODUCTS, INC., Brooklyn, N. Y.
Filed April 14, 1943. Serial No. 459,859. PUBLISHED JUNE 22, 1943. Class 32.

403,068. VITAMIN PREPARATIONS. THE HUNTER DRUG COMPANY, Lima, Ohio.
Filed April 14, 1943. Serial No. 459,877. PUBLISHED JUNE 22, 1943. Class 6.

403,069. WETTING AGENT, MORE PARTICULARLY FOR USE IN THE WETTING OF DUST. THE JOHNSON-MARCH CORPORATION, New York, N. Y.
Filed April 14, 1943. Serial No. 459,878. PUBLISHED JUNE 22, 1943. Class 6.

403,070. NONMETALLIC FAUCET WASHERS. WOODWARD-WANGER COMPANY, Philadelphia, Pa.
Filed April 14, 1943. Serial No. 459,894. PUBLISHED JUNE 22, 1943. Class 35.

403,071. CANDY BARS. THE SHOTWELL MFG. CO., Chicago, Ill.
Filed April 15, 1943. Serial No. 459,913. PUBLISHED JUNE 22, 1943. Class 46.

403,072. AROMATIC CHEMICAL FOR USE IN SOAPS, COSMETICS, PERFUME EXTRACTS, AND FLAVORING EXTRACTS. THE DOW CHEMICAL COMPANY, Midland, Mich.
Filed April 16, 1943. Serial No. 459,922. PUBLISHED JUNE 22, 1943. Class 6.

403,073. AROMATIC CHEMICAL FOR USE IN SOAPS, COSMETICS, PERFUME EXTRACTS, AND FLAVORING EXTRACTS. THE DOW CHEMICAL COMPANY, Midland, Mich.
Filed April 16, 1943. Serial No. 459,923. PUBLISHED JUNE 22, 1943. Class 6.

403,074. CHEMICAL SOLUTION TO BE USED IN THE PERMANENT WAVING OF HAIR. RAYMOND LABORATORIES, INC., St. Paul, Minn.
Filed April 16, 1943. Serial No. 459,946. PUBLISHED JUNE 22, 1943. Class 6.

403,075. TOMATO SEEDS. FRANCIS C. STOKES COMPANY, Vincentown, N. J.
Filed April 16, 1943. Serial No. 459,951. PUBLISHED JUNE 22, 1943. Class 1.

403,076. PREPARATION USED IN THE PREVENTION AND TREATMENT OF COCCIDIOSIS. DR. HESS & CLARK, INC., Ashland, Ohio.
Filed April 17, 1943. Serial No. 459,957. PUBLISHED JUNE 22, 1943. Class 6.

403,077. HAEMOSTATIC FORCEPS, HOLDERS FOR SURGICAL NEEDLES, TISSUE FORCEPS, SKIN CLIPS, OPERATING SCISSORS, AND DISSECTING SCISSORS. MASTER SURGICAL INSTRUMENT CORPORATION, Irvington, N. J.
Filed April 17, 1943. Serial No. 459,959. PUBLISHED JUNE 22, 1943. Class 44.

403,078. LUNCH BOXES. VERN W. BUSCH, doing business as V. W. Busch Manufacturing Company, South Lyon, Mich.
Filed April 19, 1943. Serial No. 459,977. PUBLISHED JUNE 22, 1943. Class 2.

403,079. NONALCOHOLIC MALTLESS FRUIT JUICES AND FRUIT CONCENTRATES FOR BEVERAGE PURPOSES. MONROE HARRISON, Chicago, Ill.
Filed April 19, 1943. Serial No. 459,995. PUBLISHED JUNE 22, 1943. Class 45.

403,080. CARD GAME. KASCO MILLS, INC., Toledo, Ohio.
Filed April 19, 1943. Serial No. 459,999. PUBLISHED JUNE 22, 1943. Class 22.

403,081. WATCHES. EMIL LEICHTER, New York, N. Y.
Filed April 21, 1943. Serial No. 460,058. PUBLISHED JUNE 22, 1943. Class 27.

403,082. FACE POWDER, ROUGE AND MAKE-UP BASE. REVLON PRODUCTS CORPORATION, New York, N. Y.
Filed April 21, 1943. Serial No. 460,071. PUBLISHED JUNE 22, 1943. Class 6.

403,083. LUBRICATING OILS AND GREASES. STANDARD OIL COMPANY OF NEW JERSEY, Wilmington, Del.
Filed April 22, 1943. Serial No. 460,099. PUBLISHED JUNE 22, 1943. Class 15.

403,084. LUBRICATING OILS AND GREASES. STANDARD OIL COMPANY OF NEW JERSEY, Wilmington, Del.
Filed April 22, 1943. Serial No. 460,100. PUBLISHED JUNE 22, 1943. Class 15.

403,085. LADIES' HANDBAGS. IDA JOLLES, doing business as J. Jolles Studios, New York, N. Y.
Filed April 23, 1943. Serial No. 460,111. PUBLISHED JUNE 22, 1943. Class 3.

403,086. PULL TOYS. NOMA ELECTRIC CORPORATION, New York, N. Y.
Filed April 23, 1943. Serial No. 460,122. PUBLISHED JUNE 22, 1943. Class 22.

403,087. REFRIGERATORS AND COOLERS FOR COOLING AND MAINTAINING COOL OR COLD FOODS, BEVERAGES, DAIRY AND FARM PRODUCTS; ICE BOXES, ICE CHESTS, ICE CREAM FREEZERS, ICE MAKING MACHINES. PORTABLE ELEVATOR MFG. CO., Bloomington, Ill.
Filed April 23, 1943. Serial No. 460,124. PUBLISHED JUNE 22, 1943. Class 31.

403,088. TUBULAR GAUZE BANDAGES. SURGITUBE PRODUCTS CORP., New York, N. Y.
Filed April 23, 1943. Serial No. 460,128. PUBLISHED JUNE 22, 1943. Class 44.

403,089. SKIN LOTION. JOHN T. KENNEDY SALES COMPANY, Kansas City, Mo.
Filed April 24, 1943. Serial No. 460,155. PUBLISHED JUNE 22, 1943. Class 6.

403,090. COFFEE SUBSTITUTE AND DILUTENT. JAVATONE MANUFACTURING COMPANY, also doing business as Javatone Company, Los Angeles, Calif.
Filed April 26, 1943. Serial No. 460,184. PUBLISHED JUNE 22, 1943. Class 46.

403,091. GENTLEMEN'S TOILETRIES CONSISTING OF EAU DE COLOGNE, AFTER SHAVING LOTION, TALCUM POWDER, FACE POWDER, TOILET POWDER, HAIR LOTION, HAIR POMADE AND DEODORANT. PARFUMS CHARBERT, INC., New York, N. Y.
Filed April 26, 1943. Serial No. 460,194. PUBLISHED JUNE 22, 1943. Class 6.

403,092. SOY FLOUR. A. E. STALEY MANUFACTURING COMPANY, Decatur, Ill.
Filed April 26, 1943. Serial No. 460,202. PUBLISHED JUNE 22, 1943. Class 46.

403,093. POULTRY FEED. ALLIED MILLS, INC., Chicago, Ill.
Filed April 27, 1943. Serial No. 460,206. PUBLISHED JUNE 22, 1943. Class 46.

403,094. HANDBAGS. MARK CROSS COMPANY, New York, N. Y.
Filed April 27, 1943. Serial No. 460,212. PUBLISHED JUNE 22, 1943. Class 3.

403,095. FERRUGINOUS TONIC USED AS A STIMULANT TO THE APPETITE AND NUTRITIONAL ANEMIA. E. FOUGERA & CO. INCORPORATED, New York, N. Y.
Filed April 30, 1943. Serial No. 460,293. PUBLISHED JUNE 22, 1943. Class 6.

403,096. INSECTICIDE. THE SELIG COMPANY, Atlanta, Ga.
Filed April 30, 1943. Serial No. 460,311. PUBLISHED JUNE 22, 1943. Class 6.

403,097. ANTISEPTIC AND ANALGESIC PREPARATIONS. E. R. SQUIBB & SONS, New York, N. Y.
Filed May 1, 1943. Serial No. 460,355. PUBLISHED JUNE 22, 1943. Class 6.

403,098. WASHING POWDER. PITTSBURGH CHEMICAL LABORATORY, Pittsburgh, Pa.
Filed May 3, 1943. Serial No. 460,391. PUBLISHED JUNE 22, 1943. Class 4.

403,099. LAXATIVE POWDER. JAMES C. GRIMES, Opp, Ala.
Filed May 5, 1943. Serial No. 460,427. PUBLISHED JUNE 22, 1943. Class 6.

403,100. TOILET PREPARATIONS—NAMELY, PREPARATIONS FOR THE CARE AND TREATMENT OF THE HAIR AND SCALP. SAMUEL I. MARKS, Chicago, Ill.
Filed May 5, 1943. Serial No. 460,428. PUBLISHED JUNE 22, 1943. Class 6.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

403,101. (CLASS 15. OILS AND GREASES.) THE PURE OIL COMPANY, Chicago, Ill. Filed Mar. 17, 1941. Serial No. 441,635.

PERFECT VALVE

FOR LUBRICATING OIL.
Claims use since Jan. 1, 1923.

403,102. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) THE OWENS STAPLE-TIED BRUSH COMPANY, Toledo, Ohio. Filed Sept. 5, 1941. Serial No. 446,811.

SUPER FLARE

FOR HAIR BRUSHES.
Claims use since Aug. 13, 1941.

403,103. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CATZ AMERICAN CO., INC., New York, N. Y. Filed Mar. 16, 1942. Serial No. 451,639.



FOR YERBA MATE OR SOUTH AMERICAN TEA.
Claims use since Feb. 28, 1942.

403,104. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE NURRE COMPANIES, INC., Bloomington, Ind. Filed June 2, 1942. Serial No. 453,422.



FOR GLASS MIRRORS.
Claims use since October 1939.

403,105. (CLASS 48. MALT BEVERAGES AND LIQUORS.) JACOB RUPPERT, New York, N. Y. Filed July 22, 1942. Serial No. 454,435.

RUPPERT

FOR ALE.
Claims use since July 3, 1942.

403,106. (CLASS 34. HEATING. LIGHTING, AND VENTILATING APPARATUS.) AGRICOLA FURNACE COMPANY, INC., Gadsden, Ala. Filed July 25, 1942. Serial No. 454,487.

EVER WARM

FOR COAL BURNING STOVES.
Claims use since July 16, 1942.

403,107. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) ANDREW Y. MICHIE & SONS COMPANY, doing business as Alva Tape Mills, Philadelphia Pa. Filed Sept. 14, 1942. Serial No. 455,515. Applicant is owner of T. M. Reg. No. 305,634.

"BEN NEVIS"

FOR TAPES, BINDINGS, BRAIDS, AND NARROW FABRICS.
Claims use since May 1931.

403,108. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE GRAY LINE, INC., Chicago, Ill. Filed Oct. 22, 1942. Serial No. 456,336. Applicant is owner of Reg. No. 157,083.



FOR AUTOMOBILES.
Claims use since April 1922.

403,109. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MODERN MAID FOOD PRODUCTS, Brooklyn, N. Y. Filed Nov. 23, 1942. Serial No. 456,988.

Modern Maid

FOR PREPARED FLOURS FOR THE FOLLOWING FOODS—NAMELY, WAFFLE, WHOLE WHEAT WAFFLE, BISCUIT, PIE CRUST, DOUGHNUT, GREASELESS DOUGHNUT, CORN MUFFIN, BRAN MUFFIN, WHOLE WHEAT MUFFIN, PANCAKE, SPICE CAKE, FUDGE CAKE, GINGER CAKE, GOLDEN CAKE, DEVIL'S FOOD CAKE; HOT CHOCOLATE POWDER, CHOCOLATE PUDDING, CONFECTIONER'S COCOA; BUTTER FLAVOR, MAPLE FLAVOR, VANILLA FLAVOR, AND FLAVORING EMULSIONS FOR FOOD PURPOSES; PIE FILLINGS, FUDGE ICING, ICING BASE, CREAM PUFF FILLING, BAKER'S DEVIL'S FOOD, SPONGE CAKE MIX.
Claims use since Nov. 15, 1932.

403,110. (CLASS 30. CROCKERY, EARTHENWARE, AND PORCELAIN.) DE LITE MANUFACTURING CO., INC., New York, N. Y. Filed Dec. 18, 1942. Serial No. 457,496.

ETON

FOR PORCELAIN VASES.
Claims use since 1936.

403,111. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MARK VANDEWART COMPANY, INC., New York, N. Y. Filed Jan. 11, 1943. Serial No. 457,866.

MAPLE-O

FOR BOTTLED IMITATION MAPLE FLAVORING FOR FOOD PURPOSES.
Claims use since June 15, 1942.

403,112. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) THE FAIR, Chicago, Ill. Filed Jan. 12, 1943. Serial No. 457,871.

MAJESTIC

FOR PIPES.
Claims use since Dec. 1, 1913.

403,113. (CLASS 17. TOBACCO PRODUCTS.) THE FAIR, Chicago, Ill. Filed Jan. 12, 1943. Serial No. 457,872.

Majestic

FOR CIGARS AND SMOKING TOBACCO.
Claims use since Dec. 1, 1913.

403,114. (CLASS 6, CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SULFOR-EX COMPANY, INC., New York, N. Y. Filed June 14, 1943. Serial No. 461,395.

MAGMA SULFORATA

FOR PREPARATION FOR EXTERNAL APPLICATION IN THE TREATMENT OF SKIN DISORDERS.
Claims use since May 1, 1933.

TRADE-MARK REGISTRATIONS RENEWED

23,727. **"U H CO" AND DRAWING.** ICE AND ROLLER SKATES. Registered October 17, 1893. UNION HARDWARE COMPANY, Torrington, Conn., and New York, N. Y. Re-renewed October 17, 1943, to Union Hardware Company, Torrington, Conn., a corporation of Connecticut.

169,877. **WINCARNIS.** LIQUOR OR LIQUID PREPARATION CONTAINING MALT. Registered July 3, 1923. COLEMAN AND COMPANY LIMITED. Renewed July 3, 1943, to Coleman & Co. Limited, Norwich, England, a United Kingdom corporation.

170,060. **"C-EM-DIE" AND DRAWING.** CERTAIN NAMED INSECTICIDE AND MOSQUITO REPELLANT. Registered July 10, 1923. NEIL E. MORGAN. Renewed July 10, 1943, to St. Lawrence Chemical Company, Inc., Ogdensburg, N. Y., a corporation of New York, assignee by mesne assignments.

170,197. **ALBADOR.** GOLD, PLATINUM, PALLADIUM, AND SILVER METALS, SOLDER, AND ROLLED SHEETS AND PLATES. Registered July 10, 1923. AMERICAN PLATINUM WORKS. Renewed July 10, 1943, to The American Platinum Works, Newark, N. J., a corporation of New Jersey.

170,247. **ALKANITE.** SUPPURATIVE MEDICINAL POWDER. Registered July 10, 1923. SHARP & DOHME, Baltimore, Md. Renewed July 10, 1943, to Sharp & Dohme, Incorporated, Philadelphia, Pa., a corporation of Maryland, assignee.

170,416. **ALUMINOL.** METALLIC SOLDERING ALLOYS. Registered July 17, 1923. SIEGFRIED PFYFFER. Renewed July 17, 1943, to Siegfried Pfyffer von Altischofen, Zurich, Switzerland.

170,426. **"JOHN D." AND DRAWING.** EMULSION OF PETROLEUM COMBINED WITH HYPOPHOSPHITES. Registered July 17, 1923. ROBERT E. O'REAR, doing business as John D. Bear Company, Clearbrook, Va. Renewed July 17, 1943, to Lily B. Bear, Washington, D. C., successor.

170,704. **ARCOLA.** COMBINED BOILER AND HEATER OTHER THAN ELECTRICALLY OPERATED. Registered July 24, 1923. AMERICAN RADIATOR COMPANY, East Orange, N. J., and Chicago, Ill. Renewed July 24, 1943, to American Radiator & Standard Sanitary Corporation, Pittsburgh, Pa., a corporation of Delaware, assignee.

170,718. **"1749" AND DRAWING.** TOILET WATER. Registered July 24, 1923. W. J. BUSH & CO., INC. Renewed July 24, 1943, to W. J. Bush & Co. Inc., New York, N. Y., a corporation of New York.

170,719. **"P & M" AND DRAWING.** TOILET WATER. Registered July 24, 1923. W. J. BUSH & CO., INC. Renewed July 24, 1943, to W. J. Bush & Co. Inc., New York, N. Y., a corporation of New York.

170,835. **"RBEST" AND DRAWING.** HEN FOOD, EGG MASH, CHICK FOOD, AND CHICK MASH. Registered July 24, 1923. BOWMAN BROS. SEED CO. Renewed July 24, 1943, to The Bowman Seed Company, Concordia, Kans., a corporation of Kansas, assignee.

170,842. **"WORLD'S BEST" AND DRAWING.** WHEAT FLOUR. Registered July 24, 1923. THE RUGBY MILLING COMPANY, Rugby, N. Dak. Renewed July 24, 1943, to The Rugby Milling Company, Rugby, N. Dak., and Minneapolis, Minn., a corporation of North Dakota.

170,925. **"HENACRES" AND DRAWING.** EGGS AND LIVE POULTRY. Registered July 24, 1923. EDGAR R. WELLS, Prosser, Wash. Renewed July 24, 1943.

171,087. **"ZENITH".** LAUNDRY WASHING MACHINES AND WRINGERS. Registered July 31, 1923. MARSHALL-WELLS COMPANY, Duluth, Minn., a corporation of New Jersey. Renewed July 31, 1943.

171,186. **UTAH VALLEY.** FRESH DECIDUOUS AND CITROUS FRUITS, FRESH VEGETABLES, CANNED FRUITS AND VEGETABLES, AND FRUIT JAM. Registered July 31, 1923. PLEASANT GROVE CANNING CO. Renewed July 31, 1943, to Pleasant Grove Canning Company, Pleasant Grove, Utah, a corporation of Utah.

171,295. **CROQUETTES.** CHOCOLATE. Registered August 7, 1923. LAMONT-CORLISS AND COMPANY. Renewed August 7, 1943, to Lamont, Corliss & Company, New York, N. Y., a corporation of New York.

171,321. **MAYFAIR ROYAL LINEN.** PRINTING AND WRITING PAPER. Registered August 7, 1923. HAMPSHIRE PAPER COMPANY, South Hadley Falls, Mass. Renewed August 7, 1943, to Hampshire Paper Company, Holyoke, Mass., a corporation of Massachusetts.

171,380. **"OLD HONESTY" AND DRAWING.** CERTAIN NAMED FOODS AND FOOD PRODUCTS. Registered August 7, 1923. JOHNSON-APPLEBY COMPANY, Boston, Mass. Renewed August 7, 1943, to Johnson-Appleby Company, Cambridge, Mass., a corporation of Massachusetts.

171,487. **"PERKO" AND DRAWING.** CERTAIN NAMED LAMPS AND LANTERNS ALL BURNING OIL AND/OR GAS, AND BOAT FUNNELS. Registered August 7, 1923. PERKINS MARINE LAMP CORPORATION, New York and Brooklyn, N. Y. Renewed August 7, 1943, to Perkins Marine Lamp & Hardware Corporation, Brooklyn, N. Y., a corporation of New York, by change of name.

172,014. **SERVANT TO THE HOME.** ELECTRIC SUCTION SWEEPERS. Registered August 21, 1923. THE HOOVER COMPANY, North Canton, Ohio, a corporation of Ohio. Renewed August 21, 1943.

172,648. **U. S. GOLD.** WHEAT FLOUR. Registered September 11, 1923. THE FRANK R. PRINA CORPORATION, New York, N. Y., a corporation of New York. Renewed September 11, 1943.

172,756. **PEP.** WHEAT FLOUR. Registered September 11, 1923. HECKER-JONES-JEWELL MILLING COMPANY. Renewed September 11, 1943, to Standard Milling Company, New York, N. Y., a corporation of Delaware, assignee.

172,918. **TRANSITE.** FIREPROOF NON-HEAT-CONDUCTING MATERIALS COMPOSED OF ASBESTOS FIBER AND HYDRAULIC CEMENT IN SHEETS, STRIPS, AND BLOCKS. Registered September 11, 1923. JOHNS-MANVILLE, INCORPORATED. Renewed September 11, 1943, to Johns-Manville Corporation, New York, N. Y., a corporation of New York, assignee by mesne assignments.

173,278. **SWAGCAST.** DENTAL METAL. Registered September 18, 1923. BAKER & CO., INC., Newark, N. J., a corporation of New Jersey. Renewed September 18, 1943.

173,459. **CONTURO.** DENTAL BAND MATERIAL. Registered September 25, 1923. BAKER & CO., INC., Newark, N. J., a corporation of New Jersey. Renewed September 25, 1943.

173,460. **UNICAST.** DENTAL METAL. Registered September 25, 1923. BAKER & CO., INC., Newark, N. J., a corporation of New Jersey. Renewed September 25, 1943.

173,605. **LILLY.** SOAP. Registered October 2, 1923. THE ELI LILLY AND COMPANY, now by change of name Eli Lilly & Company. Renewed October 2, 1943, to Eli Lilly and Company, Indianapolis, Ind., a corporation of Indiana, by change of name.

173,665. **"NATURALAX" AND DRAWING.** MEDICINAL SEED—VIZ, A BOWEL REGULATOR. Registered October 2, 1923. LANMAN & KEMP, INC. Renewed October 2, 1943, to Lanman & Kemp-Barclay & Co. Incorporated, New York, N. Y., a corporation of New York, by change of name.

174,052. **"WINARICK'S" AND DRAWING.** CERTAIN NAMED TOILET PREPARATIONS. Registered October 2, 1923. ARTHUR WINARICK, New York, N. Y. Renewed October 2, 1943.

174,521. **SIREN.** POWDER USED IN MAKING CHOCOLATE SAUCES OR SIRUPS FOR FOOD PURPOSES. Registered October 16, 1923. SIREN MILLS CORPORATION, Chicago, Ill. Renewed October 16, 1943, to Lamont, Corliss & Company, New York, N. Y., a corporation of New York, assignee.

174,734. **"S U CO" AND DRAWING.** CERTAIN NAMED INKS AND BLACKS, AND TINTS AND FUGITIVE TINTS, DRY COLORS, DRIERS, VARNISHES, GLOSS VARNISHES, PLATE OILS AND VARNISHES, AND BRONZE POWDERS. Registered October 23, 1923. SIGMUND ULLMAN COMPANY. Renewed October 23, 1943, to General Printing Ink Corporation, New York, N. Y., a corporation of Delaware, assignee.

174,844. **HARRY BERGER SWISS POPLIN.** MEN'S AND BOYS' SHIRTS—NAMELY, DRESS, NEGLIGEE, AND WORK SHIRTS. Registered October 23, 1923. HARRY BERGER, doing business as Harry Berger Shirt Company. Renewed October 23, 1943, to Kaylon Incorporated, New York, N. Y., a corporation of New York, successor.

174,998. **FRUIT OF THE LOOM.** CERTAIN NAMED WEARING APPAREL. Registered October 30, 1923. B. B. & R. KNIGHT, INC., Providence, R. I., and New York, N. Y. Renewed October 30, 1943, to Fruit of The Loom, Inc., Providence, R. I., a corporation of Rhode Island, assignee by mesne assignments.

175,141. **TAXITRUX.** BRAKE LINING. Registered October 30, 1923. MULTIBESTOS COMPANY, Walpole, Mass. Renewed October 30, 1943, to Raybestos-Manhattan, Inc., Passaic N. J., a corporation of New Jersey, assignee by mesne assignments.

175,146. **KING SATIN.** MEN'S AND BOYS' COLLARS, PYJAMAS, AND SHIRTS, INCLUDING DRESS, NEGLIGEE, AND WORK SHIRTS. Registered October 30, 1923. HARRY BERGER, doing business as Harry Berger Shirt Company. Renewed October 30, 1943, to Kaylon Incorporated, New York, N. Y., a corporation of New York, successor.

175,314. **FRUIT OF THE LOOM.** SHEETS AND PILLOW CASES. Registered November 6, 1923. B. B. & R. KNIGHT, INC., Providence, R. I., and New York, N. Y. Renewed November 6, 1943, to Fruit of The Loom, Inc., Providence, R. I., a corporation of Rhode Island, assignee by mesne assignments.

175,374. **DUREZ.** MOLDING COMPOSITIONS CONTAINING RESINOUS INGREDIENTS. Registered November 6, 1923. INDUSTRIAL MOLDED MATERIALS COMPANY, assignor to Durez Company, Inc. Renewed November 6, 1943, to Durez Plastics & Chemicals, Inc., North Tonawanda, N. Y., a corporation of New York, by consolidation.

175,998. **HYCOE.** BRAKE LINING. Registered November 13, 1923. THE MANHATTAN RUBBER MFG. CO. Renewed November 13, 1943, to Raybestos-Manhattan, Inc., Passaic, N. J., a corporation of New Jersey, assignee.

176,617. **"LA PALOMA" AND DRAWING.** WHEAT FLOUR. Registered November 27, 1923. THE SOUTHWESTERN MILLING COMPANY INC. Renewed November 27, 1943, to Standard Milling Company, New York, N. Y., a corporation of Delaware, assignee.

176,673. **MARBELITE.** RAZOR SETS. Registered November 27, 1923. AMERICAN SAFETY RAZOR CORPORATION, Brooklyn, N. Y., a corporation of Virginia. Renewed November 27, 1943.

176,729. **PILLSBURY'S FAMILY CIRCLE.** FLOUR MADE FROM WHEAT. Registered November 27, 1923. PILLSBURY FLOUR MILLS COMPANY. Renewed November 27, 1943, to Pillsbury Flour Mills Company, Minneapolis, Minn., a corporation of Delaware, assignee.

176,850. **"YANKEE" AND DRAWING.** ROLLED OATS. Registered December 4, 1923. THE QUAKER OATS COMPANY, Chicago, Ill., a corporation of New Jersey. Renewed December 4, 1943.

176,851. **"BUCKEYE" AND DRAWING.** WHEAT FLOUR, ROLLED OATS, CORN MEAL, AND FARINACEOUS FEEDS. Registered December 4, 1923. THE QUAKER OATS COMPANY, Chicago, Ill., a corporation of New Jersey. Renewed December 4, 1943.

176,874. **"F S" IN A CIRCLE.** ROLLED OATS, CORN MEAL, WHEAT FLOUR, RYE FLOUR, HOMINY, AND STOCK FOODS. Registered December 4, 1923. THE QUAKER OATS COMPANY, Chicago, Ill., a corporation of New Jersey. Renewed December 4, 1943.

176,956. **"ANACONDA" AND DRAWING.** CERTAIN NAMED METALS AND ALLOYS AND PRODUCTS THEREOF. Registered December 11, 1923. ANACONDA COPPER MINING COMPANY, New York, N. Y., a corporation of Montana. Renewed December 11, 1943.

177,065. **VIM.** STOCK FEEDS. Registered December 11, 1923. THE QUAKER OATS COMPANY, Chicago, Ill., a corporation of New Jersey. Renewed December 11, 1943.

177,066. **"WHITE STAR" AND DRAWING.** FARINACEOUS STOCK FEEDS. Registered December 11, 1923. THE QUAKER OATS COMPANY, Chicago, Ill., a corporation of New Jersey. Renewed December 11, 1943.

177,100. **PETTIJOHN'S.** ROLLED WHEAT AND MIXTURE OF WHEAT AND BRAN FLOUR. Registered December 11, 1923. THE QUAKER OATS COMPANY, Chicago, Ill., a corporation of New Jersey. Renewed December 11, 1943.

177,103. **REPRESENTATION OF A BEAR.** ROLLED WHEAT AND WHEAT AND BRAN FLOUR. Registered December 11, 1923. THE QUAKER OATS COMPANY, Chicago, Ill., a corporation of New Jersey. Renewed December 11, 1943.

177,208. **FOREST.** PERFUME, TOILET WATER, FACE POWDER, TALCUM POWDER, SACHET, BRILLIANTINE, ROUGE, AND FACE LOTION. Registered December 11, 1923. LEON COHN, doing business as Les Parfums Forest, Paris, France. Renewed December 11, 1943, to Leon Cohn, Hopewell, N. J., successor.

177,259. **WONDER KNIT.** WOVEN AND/OR KNITTED SWEATERS, BATHING SUITS, MUFFLERS, NECKTIES, AND SCARFS MADE FROM WOOL, WORSTED, COTTON, SILK, AND OTHER FIBRES. Registered December 11, 1923. WONDER-KNIT MILLS, Union Hill, N. J. Renewed December 11, 1943, to Wonder-Knit Mills, Union City, N. J., a firm.

177,264. **SHASTA.** CANNED FISH. Registered December 11, 1923. REID, MURDOCH & Co., Chicago, Ill., a corporation of Illinois. Renewed December 11, 1943.

177,340. **"PABST" AND DRAWING.** TABLE WATER, ROOT BEER, AND CERTAIN NAMED SOFT DRINKS. Registered December 18, 1923. PABST CORPORATION, Milwaukee, Wis. Renewed December 18, 1943, to Pabst Brewing Company, Peoria Heights, Ill., a corporation of Delaware, assignee.

177,352. **"CELESTINA" AND DRAWING.** CANDIES. Registered December 18, 1923. JOHN B. ARATA, JR., INC. Renewed December 18, 1943, to John B. Arata, Jr., Philadelphia, Pa., assignee.

177,377. **EVER-READY.** RAZORS, RAZOR BLADES, SAFETY RAZORS, AND SAFETY-RAZOR BLADES. Registered December 18, 1923. AMERICAN SAFETY RAZOR CORPORATION, Brooklyn, N. Y., a corporation of Virginia. Renewed December 18, 1943.

177,423. **"RECKITT'S" AND DRAWING.** LAUNDRY BLUE. Registered December 18, 1923. RECKITTS (U. S. A.), LTD., New York, N. Y., and New Brunswick, N. J. Renewed December 18, 1943, to The R. T. French Company, Rochester, N. Y., a corporation of Delaware, assignee by mesne assignments.

177,530. **"WHITE DIAMOND" AND DRAWING.** WHEAT FLOUR. Registered December 18, 1923. HECKER-JONES-JEWELL MILLING COMPANY. Renewed December 18, 1943, to Standard Milling Company, New York, N. Y., a corporation of Delaware, assignee.

177,562. **VALLEY.** WHEAT FLOUR. Registered December 18, 1923. THE QUAKER OATS COMPANY, Chicago, Ill., a corporation of New Jersey. Renewed December 18, 1943.

177,573. **"OTTER" AND DRAWING.** WHEAT FLOUR. Registered December 18, 1923. THE QUAKER OATS COMPANY, Chicago, Ill., a corporation of New Jersey. Renewed December 18, 1943.

177,615. **UNCLE WIGGILY.** HANDKERCHIEFS AND COTTON GOODS IN THE PIECE. Registered December 25, 1923. FRED A. WISH INCORPORATED, New York, N. Y. Renewed December 25, 1943, to Howard R. Garis, East Orange, N. J., assignee.

177,624. **DIXIE.** COTTON TRAMPERS. Registered December 25, 1923. CULLANDER MACHINERY CO. Renewed December 25, 1943, to Cullander Machinery Company, Inc., Belzoni, Miss., a corporation of Mississippi, assignee.

177,631. **"DR. W. B. CALDWELL'S LAXO-PEP-SEN" AND PORTRAIT.** PREPARATION FOR THE TREATMENT OF DIGESTIVE DISORDERS. Registered December 25, 1923. PEPSIN SYRUP CO., Monticello, Ill. Renewed December 25, 1943, to Sterling Drug Inc., Wilmington, Del., a corporation of Delaware, assignee.

177,642. **REPRESENTATION OF A RED CAP ON A PENCIL.** PENCILS. Registered December 25, 1923. JOSEPH DIXON CRUCIBLE COMPANY, Jersey City, N. J., a corporation of New Jersey. Renewed December 25, 1943.

177,677. **REPRESENTATION OF FOUR BLUE STRANDS.** WOVEN COTTON FEED RIBBONS FOR LAUNDRY MACHINES. Registered December 25, 1923. TINGUE, BROWN & Co., New York, N. Y., a corporation of New York. Renewed December 25, 1943.

177,686. **"RED ROBIN" AND DRAWING.** FRESH GRAPES. Registered December 25, 1923. L. R. HAMILTON, REEDLEY, Calif. Renewed December 25, 1943.

177,722. **"KNICKERBOCKER" AND DRAWING.** WHEAT FLOUR. Registered December 25, 1923. HECKER-JONES-JEWELL MILLING COMPANY. Renewed December 25, 1943, to Standard Milling Company, New York, N. Y., a corporation of Delaware, assignee.

177,725. **"TESCO" AND DRAWING.** CERTAIN NAMED ELECTRICAL INSTRUMENTS FOR CENTRAL-STATION USE, AND RADIO RECEIVING SETS AND CERTAIN NAMED PARTS THEREOF. Registered December 25, 1923. THE EASTERN SPECIALTY COMPANY, Philadelphia, Pa., a corporation of Pennsylvania. Renewed December 25, 1943.

177,776. **"LIGHT OF ASIA" AND DRAWING.** TEA. Registered December 25, 1923. REID, MURDOCH & Co., Chicago, Ill., a corporation of Illinois. Renewed December 25, 1943.

177,779. **LALLA ROOKH.** TEA. Registered December 25, 1923. REID, MURDOCH & Co., Chicago, Ill., a corporation of Illinois. Renewed December 25, 1943.

177,780. **"STAR OF INDIA" AND DRAWING.** TEA. Registered December 25, 1923. REID, MURDOCH & Co., Chicago, Ill., a corporation of Illinois. Renewed December 25, 1943.

177,857. **"DANDEE" AND DRAWING.** COAL. Registered January 1, 1924. THE KEARNS COAL COMPANY, Cincinnati, Ohio, a corporation of Ohio. Renewed January 1, 1944.

177,859. **"BARDEN'S WONDER BANTAM" AND DRAWING.** SEED CORN. Registered January 1, 1924. CLIFFORD A. BARDEN, Oberlin and Wakeman, Ohio. Renewed January 1, 1944, to Clifford A. Barden, Oberlin, Ohio.

177,871. **LION BINDER.** CORE BINDER FOR CERTAIN NAMED USES. Registered January 1, 1924. THE J. S. MCCORMICK COMPANY, Pittsburgh, Pa., a corporation of Pennsylvania. Renewed January 1, 1944.

177,883. **"RED DEER" AND DRAWING.** FRESH CITROUS FRUITS. Registered January 1, 1924. WILLIAM G. ROE, Winter Haven, Fla. Renewed January 1, 1944.

177,897. **REPRESENTATION OF A PURPLE YARN OR THREAD IN ROPE.** JAVA HEMP-FIBER ROPE. Registered January 1, 1924. THE HOOVEN & ALLISON COMPANY, Xenia, Ohio, a corporation of Ohio. Renewed January 1, 1944.

177,903. **"PAL".** WORK SHIRTS. Registered January 1, 1924. ROMBRO BROTHERS, Baltimore, Md., a firm. Renewed January 1, 1944.

177,908. **CASCO SWEETS.** CERTAIN NAMED CONFECTIONERY. Registered January 1, 1924. CANDY SALES CORPORATION. Renewed January 1, 1944, to Breitbart Bros., Inc., Brooklyn, N. Y., a corporation of New York, assignee.

177,924. **"CORTICELLI" AND DRAWING.** HOSIERY. Registered January 1, 1924. THE CORTICELLI SILK COMPANY, Florence, Northampton, Mass. Renewed January 1, 1944, to Belding Heminway Company, New York, N. Y., a corporation of Connecticut, assignee.

177,928. **PELICAN.** BOX SHOOKS. Registered January 1, 1924. PELICAN BAY LUMBER COMPANY, Klamath Falls, Oreg., a corporation of Oregon. Renewed January 1, 1944.

177,929. **REPRESENTATION OF A PELICAN.** BOX SHOOKS. Registered January 1, 1924. PELICAN BAY LUMBER COMPANY, Klamath Falls, Oreg., a corporation of Oregon. Renewed January 1, 1944.

177,965. **"FITSU" AND DRAWING.** OVERALLS, WORK-SHIRTS, JUMPERS, AND DUCK, KHAKI, AND CORDUROY COATS AND PANTS. Registered January 1, 1924. KEET & ROUNTREE DRY GOODS CO. Renewed January 1, 1944, to Springfield Garment Mfg. Company, Springfield, Mo., a corporation of Missouri, assignee.

177,974. **"VANITY" AND DRAWING.** CLOTHING FOR MEN—NAMELY, SUITS, OVERCOATS, TUXEDOS, FULL-DRESS SUITS, TROUSERS, AND SPORT GARMENTS. Registered January 1, 1924. JOSEPH H. COHEN & SONS. Renewed January 1, 1944, to Joseph H. Cohen & Sons Vanity Clothes, Inc., New York, N. Y., a corporation of New York, assignee.

177,976. **"HOLLYWOOD" AND DRAWING.** MEN'S, WOMEN'S, AND CHILDREN'S HOSIERY. Registered January 1, 1924. HARRINGTON & WARING. Renewed January 1, 1944, to Harrington & Waring, New York, N. Y., a firm, successor.

177,986. **"HARPOON" AND DRAWING.** CORDS, TWINES, ROPES, AND LINES OF FIBER MATERIAL MADE FROM COTTON, HEMP, MANILA, SISAL, OR JUTE, SAID LINES BEING OF THE NATURE OF CLOTHESLINES. Registered January 1, 1924. GRANITE CORDAGE COMPANY, Granite Falls and Hickory, N. C. Renewed January 1, 1944, to Granite Cordage Company, Hickory, N. C., a corporation of North Carolina.

177,996. **SOUP-GEMS.** MACARONI PRODUCTS. Registered January 1, 1924. KEYSTONE MACARONI MANUFACTURING COMPANY, Lebanon, Pa., a corporation of Pennsylvania. Renewed January 1, 1944.

177,997. **DEL MAIZ.** CANNED VEGETABLES—NAMELY, PEAS, GOLDEN WAX BEANS, PUMPKIN, REFUGE BEANS, LIMA BEANS, SUCCOTASH, AND KRAUT. Registered January 1, 1924. MINNESOTA VALLEY CANNING COMPANY, Le Sueur, Minn., a corporation of Minnesota. Renewed January 1, 1944.

177,999. **POT-PIE.** MACARONI PRODUCTS. Registered January 1, 1924. KEYSTONE MACARONI MANUFACTURING COMPANY, Lebanon, Pa., a corporation of Pennsylvania. Renewed January 1, 1944.

178,001. **"CLEEN MADE" AND DRAWING.** MACARONI PRODUCTS. Registered January 1, 1924. KEYSTONE MACARONI MANUFACTURING COMPANY, Lebanon, Pa., a corporation of Pennsylvania. Renewed January 1, 1944.

178,006. **"ARGO" AND DRAWING.** EDIBLE OIL. Registered January 1, 1924. CORN PRODUCTS REFINING COMPANY, New York, N. Y., a corporation of New Jersey. Renewed January 1, 1944.

178,010. **"ADHESIUM" AND DRAWING.** WALL-PAPER SIZE. Registered January 1, 1924. COLONIAL WORKS, INC., Brooklyn, N. Y., a corporation of New Jersey. Renewed January 1, 1944.

REISSUES

AUGUST 31, 1943

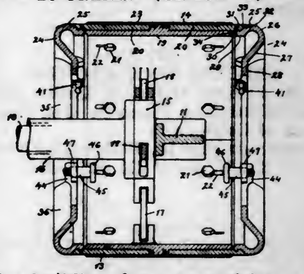
22,369

COLLAPSIBLE FORM

Henry C. Bostwick, Akron, Ohio, assignor to The Akron Standard Mold Company, Akron, Ohio, a corporation of Ohio

Original No. 2,073,729, dated March 16, 1937, Serial No. 90,958, July 16, 1936. Application for reissue March 15, 1939, Serial No. 261,977

10 Claims. (Cl. 154—9)

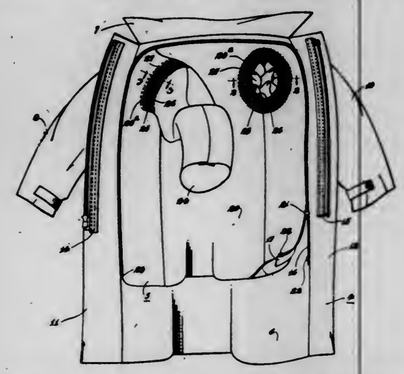


1. A tire-building form comprising a collapsible, segmental form body, and an independently collapsible segmental, bead-seating flange structure removably mounted thereon and composed of segments detachable by moving them radially inward from the form body.

PATENTS

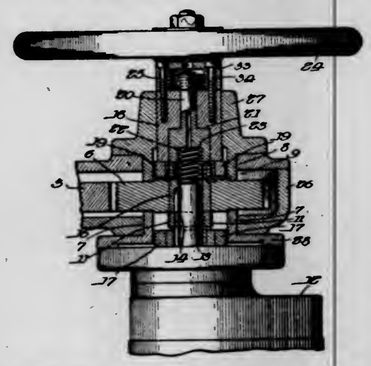
GRANTED AUGUST 31, 1943

2,327,979
LINED GARMENT
Perkins H. Bailey, New York, N. Y., assignor to Talon, Inc., a corporation of Pennsylvania
Application September 29, 1941, Serial No. 412,781
3 Claims. (Cl. 2—97)



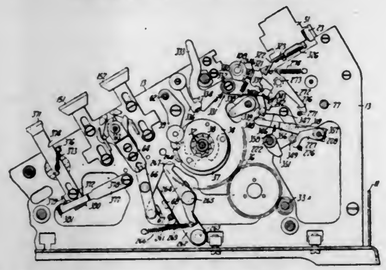
1. In a garment comprising a body with attached sleeves, a lining comprising a body lining portion, sleeve lining portions, and annular connecting members of elastic porous material connected between the upper ends of said sleeve lining portions and said body lining portion.

2,327,980
AUTOMATIC DECLUTCHING MEANS
Corwin W. Bryant, Downers Grove, Ill., assignor to Crane Co., Chicago, Ill., a corporation of Illinois
Application December 22, 1941, Serial No. 423,883
9 Claims. (Cl. 192—48)



1. Valve actuating means having a dual operating mechanism comprising a prime mover and a shaft therefor, a hand actuator, a gear having clutch means on opposite faces thereof, a pair of sleeves telescopically movable relative to each other and rotatable independently of each other, one of said sleeves being rotated by the said prime mover and having a clutch surface thereon suitable for engagement with one of the clutch means on the said gear, the other of said sleeves cooperating with the said hand actuator and having a clutch surface thereon for engagement with the other of said clutch means on the said gear, resilient means jointly maintaining the clutch surface on one of the sleeves in engagement with the clutch means on said gear and for normally retaining the clutch surface on the other of said sleeves out of engagement with the clutch means on said gear.

2,327,981
CALCULATING MACHINE
Carl M. F. Friden, Oakland, Calif., assignor to Friden Calculating Machine Co., Inc., a corporation of California
Application August 10, 1935, Serial No. 35,619
32 Claims. (Cl. 235—63)



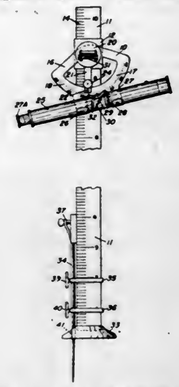
1. In a calculating machine, a register, actuating means therefor, division control mechanism for automatically enforcing a predetermined sequence of machine operations after each overdraft of said register in a division operation, said mechanism including a program control device, and control means for stopping operation of the machine before completion of a division operation including means for enabling said device irrespective of an overdraft on said register.

18. In a calculating machine having relatively shiftable numeral wheels and actuating means therefor, settable control means for initiating a division operation, a latch for holding said settable means in active position, and means for disabling said latch to prevent initiation of a division operation when said numeral wheels and said actuating means are relatively positioned to determine the lowest order quotient figure.

2,327,982
SURVEYING INSTRUMENT
Donald C. Johnson, Berkeley, Calif.
Application September 2, 1942, Serial No. 456,981
1 Claim. (Cl. 33—70)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

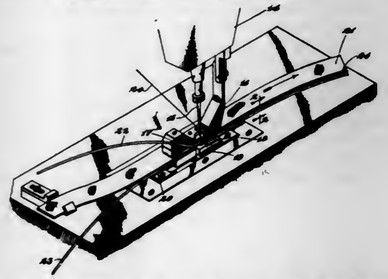
A surveying instrument comprising a rod, a sleeve slidable on and along said rod, means for releasably securing said sleeve to said rod in adjusted position, a spindle fixed to said sleeve normal to said rod, a telescope swingably supported on said spindle with its line of sight normal to said spindle, a spirit level secured to said spindle in a plane parallel to the vertical plane through said line of sight, means projecting an image of said level in the field of view of said telescope in

all angular positions of said telescope on said spindle, an angular scale concentric of said spin-



dle and secured to said telescope, and means for clamping said scale and telescope to said spindle.

2,327,983
SLIDE FASTENER STRINGER TAPE REINFORCEMENT
Noel J. Poux, Meadville, Pa., assignor to Talon, Inc., a corporation of Pennsylvania
Application March 9, 1940, Serial No. 323,183
3 Claims. (Cl. 112—262)



1. In a method of reinforcing slide fastener stringer tape, attaching oppositely twisted edge reinforcement cords to opposite sides of one edge of a stringer tape by a single line of lock stitching applied from one side of the tape while imparting to the tape a fixed radius, inverting said tape, and resistitching said cords to said tape edge by a second line of lock stitching applied from the opposite side of the tape to lock the fixed radius in said tape.

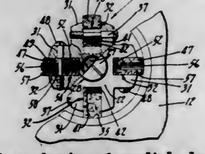
2,327,984
PRODUCTION OF LOW VISCOSITY UREA-FORMALDEHYDE ALCOHOL RESIN SOLUTIONS
Herbert J. West, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application August 3, 1940, Serial No. 351,215
5 Claims. (Cl. 260—29)

1. The process which comprises reacting urea and aqueous formaldehyde with about one half of the desired proportion of a high molecular weight aliphatic alcohol, having not more than one hydroxyl group and containing at least 8 carbon atoms, in the presence of sufficient water-miscible primary aliphatic alcohol containing from 1 to 3 carbon atoms and having not more than one hydroxyl group to produce a clear homogenous solution before reaction, distilling off said water-miscible alcohol wet with water, continuing the distillation of such wet water-miscible alcohol until substantially no water is present, adding dry, water-miscible monohydric alcohol containing from 1 to 3 carbon atoms at substantially the same rate as it is distilled off, adding a second proportion of the high molecular weight aliphatic alcohol, approximately equal to that originally added, and removing the water-miscible alcohol by distillation, the entire process being carried out under acid conditions.

2,327,985
ACYL ISOTHIOCYANATE AND POLYMER THEREOF
Van Vernon Alderman, Arden, and Donald Drake Coffman, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 29, 1940, Serial No. 326,786
10 Claims. (Cl. 260—80)

3. A polymer of an acyl isothiocyanate having an ethylenic double bond between the carbons alpha and beta to the —CO—NCS group and free from active hydrogen containing groups.

2,327,986
CAN CLEANING DEVICE
Neils P. Bach, Geneva, N. Y., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application March 5, 1941, Serial No. 381,913
6 Claims. (Cl. 15—213)

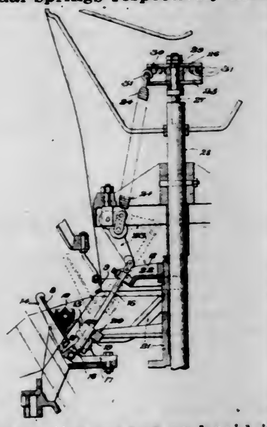


3. A cleaning device for dislodging solder pellets from the inside surface of container bodies, comprising in combination, a head body insertable into a container to be cleaned, a quill yieldably disposed in said head body and movable bodily relative thereto, a blade carried in said quill and projecting beyond its outer surface and engaging against the inner surface of the container body with a sweeping action when rotative movement between the container and said head body is effected, and spring means carried by said head body engaging said quill for normally urging said blade bodily radially outwardly relative to said head body.

2,327,987
CIRCULAR WEAVING LOOM
Juan Balsach, Buenos Aires, Argentina, assignor of one-half to Sedalana Sociedad Anónima, Buenos Aires, Argentina
Application April 10, 1941, Serial No. 387,981
2 Claims. (Cl. 139—13)

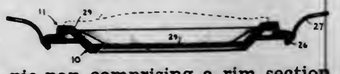
1. In a circular loom, a central shaft, a sectional reed, individual slides for respectively mounting the sections of said reed, fixed rods upon which said slides are slidably mounted, each of said slides comprising a roller, an operating cam carried on said central shaft and comprising a projecting flange, a plurality of indi-

vidual connecting means connected to said slides respectively, a stud mounted on the end of said shaft adjustable axially thereof, a circular support rotatably mounted on said stud and comprising a plurality of individual mounting means, and individual springs respectively mounted be-



tween said mounting means and said individual connecting means, said connecting means being adapted under urging of said springs respectively to press said roller against the flange of said cam, whereby reed vibrations are prevented.

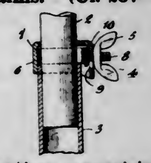
2,327,988
PIE PAN
Ethel Neil Bassett, Lincoln, Nebr.
Application March 19, 1941, Serial No. 384,081
10 Claims. (Cl. 53—6)



1. A pie pan comprising a rim section having a side wall and two outer horizontal flanges disposed at different levels, and a bottom section of resilient material having extensions overlying and of the same configuration radially as said rim portion for the full radial extent of said rim section, said extensions having beads adapted to project under and releasably grip the under side of the outermost of said flanges sufficiently firmly to hold said sections rigidly together.

2,327,989
WITHDRAWN

2,327,990
ADJUSTABLE MAST
George O. Benson, Niagara Falls, N. Y.
Application August 12, 1940, Serial No. 352,283
3 Claims. (Cl. 287—58)



1. The combination comprising a plurality of tubular members in telescopic relationship and a clamp attached to the outer of said tubular members comprising a ferrule which embraces the end portion of said outer tubular member and extends longitudinally beyond the same, a band which embraces the inner of said tubular members over an area extending substantially completely around said inner tubular member and is positioned within said ferrule and has one end attached thereto, and tensioning means attached to the other end of said band.

2,327,991
CIGAR AND CIGARETTE
Gilbert A. Betts, Buffalo, N. Y.
Application April 28, 1938, Serial No. 204,836
21 Claims. (Cl. 131—4)

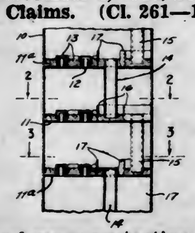


1. A cigar or cigarette having glass fibrous yarn strands running lengthwise thereof.

2,327,992
PROCESS FOR THE PREPARATION OF COMPOUNDS OF CERIUM
Joseph Blumenfeld, New York, N. Y.; vested in the Alien Property Custodian
No Drawing. Application April 1, 1939, Serial No. 265,602. In France April 13, 1938
3 Claims. (Cl. 23—22)

1. A process of preparing a cerium compound from a mixture of rare earth metal hydroxides which comprises oxidizing the cerous hydroxide in said mixture to the ceric state, then reacting with an acid selected from the group consisting of hydrochloric acid and nitric acid upon the trivalent rare earth metal hydroxides in such mixture while suspended in several times its own weight of water to convert such trivalent rare earth metal hydroxides substantially all into soluble salts while leaving substantially all of the hydrated ceric oxide chemically unchanged, separating the solution of trivalent rare earth metal salts from said hydrated ceric oxide, and thereafter reacting upon said hydrated ceric oxide with nitric acid to obtain a solution of ceric nitrate, substantially without reduction, and hydrolyzing the solution so formed in water containing some sulphuric acid.

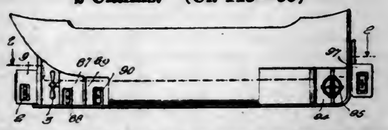
2,327,993
VAPOR AND LIQUID CONTACT APPARATUS
Leslie B. Bragg, Scotch Plains, N. J., assignor to Foster Wheeler Corporation, New York, N. Y., a corporation of New York
Application November 4, 1940, Serial No. 364,122
7 Claims. (Cl. 261—114)



1. Liquid and vapor contacting apparatus comprising a column, a plurality of superposed bubble trays in the column each having a substantially vertically extending downcomer through which liquid on the tray is delivered to the tray next below, the downcomers on adjacent trays being

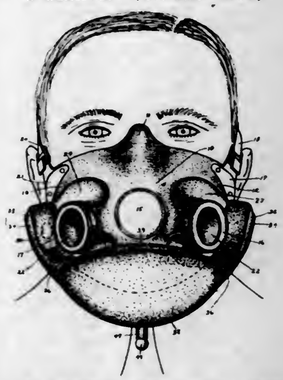
adjacently disposed, with the downcomer on one tray being disposed inwardly of the column in relation to the downcomers on the adjacent trays, the downcomers on alternate trays being disposed in vertical alignment, and a liquid flow directing baffle on each tray having a portion extending between the downcomers on adjacent trays and arranged and disposed to cause the liquid to flow in substantially the same direction on each tray from the outlet of one downcomer to the inlet of another.

2,327,994
MECHANISM FOR IMPROVING THE DIRIGIBILITY OF SHIPS, SUBMARINES, AND AIRCRAFT
Henry C. Briggs, Brooklyn, N. Y.
Application November 6, 1939, Serial No. 303,130
2 Claims. (Cl. 115—35)



1. Mechanism for maneuvering vessels comprising in combination with the hull of a vessel, a recessed bow portion disposed below the water line of the hull in retracted relation to the leading edge of the bow of the vessel, a streamlined bulkhead forming the rear wall of the recessed bow portion for directing the discharge of water entering the recessed bow portion, propeller mechanism disposed in said recessed bow portion intermediate said streamlined bulkhead and the leading edge of the bow of the vessel, said propeller mechanism being located on an axis coincident with the longitudinal axis of the vessel, means for driving said propeller mechanism, and means for orienting said propeller mechanism in selected planes for directing thrust forces outwardly in selected directions through the volumetric entry and egress of water with respect to said recessed bow portion.

2,327,995
MASK ADAPTED FOR USE AT HIGH ALTITUDES
Arthur H. Bulbulian, Rochester, Minn.
Application September 22, 1941, Serial No. 411,871
5 Claims. (Cl. 128—205)

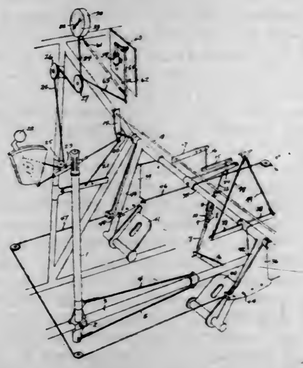


4. A mask adapted for use in high altitudes comprising a mask body having marginal portions for contacting the face so as to enclose and form the breathing chamber extending over the nose and mouth, inlet openings spaced apart at opposite sides of the mask body, connectors having passageways extending from said inlet openings, an elongated rebreathing bag supported at its ends by said connectors and held thereby close under the chin of the wearer and communicating with the breathing chamber through the passageways through the connectors, and an oxygen supply tube extending into and to a point substantially midway between said connectors.

2,327,996
PROCESS OF DEHYDRATING MINERAL OIL EMULSIONS
Thompson W. Burnam, Inglewood, Calif.
No Drawing. Application November 24, 1941, Serial No. 420,267
3 Claims. (Cl. 252—331)

1. A process of treating natural emulsions of petroleum containing petroleum and brine, which consists in contacting the natural emulsions with a cellulose ether thermoplastic material capable of dehydrating the emulsion, and producing a gelatinous layer separating the brine and petroleum of the emulsion.

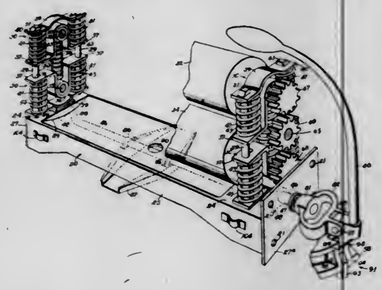
2,327,997
TORQUE DEVICE FOR COORDINATOR TRAINERS
Edmund O. Carmody and Charles A. West, United States Navy
Application February 4, 1943, Serial No. 474,662
14 Claims. (Cl. 35—12)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a flight training apparatus in combination with a simulated cockpit with the normal controls such as stick, rudder controls, throttle, dual-ignition switch, and tachometer, a connection between the throttle and the tachometer for operating the latter in response to the position of the former, a lever system including a floating lever pivoted at three points one of which is connected to move in response to movement of the rudder controls, another in response to movement of the throttle in the high power range and the third is connected to move one of a pair of relatively slidable contact members in a signal circuit, the other contact member being connected to move in response to movement of the aileron controls, the contact surface of one of the members being normally positioned on an insulated portion between two adjoining contact surfaces of the other member, these connections and leverage being arranged so that, with normal movement of the rudder and/or aileron controls

corresponding to the advance of the throttle to the high power range to overcome the effect of high engine torque and maintain a straight course in flight, the contact members will maintain normal out-of-contact relative positions, but if the control coordination is not properly executed the contact surface of said one contact member will move over one of the adjoining contact surfaces of said other contact member to complete the signal circuit and cause a warning signal indicating an improper coordination of the controls.

2,327,998
WRINGER
De Witt Clausen, Akron, Ohio
Application October 29, 1938, Serial No. 237,655
36 Claims. (Cl. 68—249)

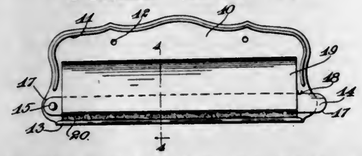


1. A wringer having, in combination, a pair of rolls each mounted for independent movement toward and away from the other, means for applying spring pressure to urge the rolls into operative engagement, and means operative selectively to shift either of the rolls into engagement with the other in its substantially unshifted position.

17. A wringer comprising, in combination, a pair of cooperating wringer rolls each mounted for movement toward and away from the other, means for selectively shifting either roll, and driving means engageable by movement of the shifted roll to drive the rolls in one direction or the other depending upon which roll is shifted.

30. A wringer comprising, in combination, a vertical standard, a wringer frame rotatably supported for swinging movement on said standard, a pair of coacting rolls journaled in said frame for shifting movement of either roll for engagement with the other, driving means engageable by movement of the shifted roll to drive the rolls in one direction or the other depending upon which roll is shifted, resilient means effective to tension the rolls upon engagement thereof, a single lever control means for shifting either roll into and out of yieldable pressure engagement with the other, a tiltable drain spout having a connection with said control means and automatically tiltable thereby to one side of the wringer or the other depending upon the direction of rotation of the rolls, latching means for indexing the wringer frame in one of a plurality of positions on said standard and means associated with said lever and operated thereby for releasing the latching means only when the rolls are disengaged and for preventing engagement of the rolls by the lever when it is actuated for releasing the latching means, whereby the complete operation of the wringer is controlled by a single lever.

2,327,999
MATCH BOOK HOLDER
Harry Cohen, Chicago, Ill.
Application February 24, 1941, Serial No. 380,379
3 Claims. (Cl. 206—29)

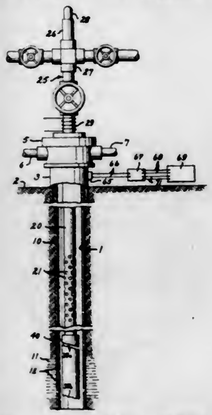


1. A match book holder comprising a plate adapted to be mounted on a wall, means to support the match book at the bottom, and other means to retain the match book against the plate, said other means comprising a blade pivoted to the plate at one side of the match book to swing from a substantially horizontal normal position in an upward direction along the outer face of the plate, said blade passing through the match book, and means to lock the remote end of the blade to the plate when the blade is in said normal position, said locking means comprising a hook tripped by the blade on its return to the normal position.

2,328,000
RACEMIC-α-HYDROXY-β,β-DIMETHYL-GAMMA-BUTYRO LACTONE, ESTERS AND SALTS THEREOF
Jacob Finkelstein, New York, N. Y., assignor to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey
No Drawing. Application July 3, 1940, Serial No. 343,779
4 Claims. (Cl. 260—344)

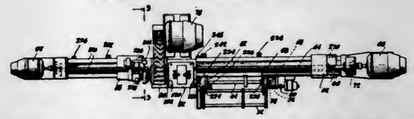
1. The brucine salt of the acid phthalate ester of racemic α-hydroxy-β,β-methyl-gamma-butyrolactone.

2,328,001
MEANS AND METHOD OF BRINGING OIL WELLS INTO PRODUCTION
Dean H. Furse, Arlington, and Leonard J. Neuman, Houston, Tex.
Application March 11, 1940, Serial No. 323,420
7 Claims. (Cl. 166—2)



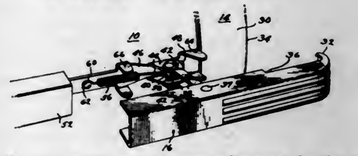
1. A method of bringing wells into production comprising the steps of, encasing the bore hole by an imperforate casing cemented in place and filled with water, lowering a perforator within the casing upon a flow string, closing the well at its upper end, sequentially forming perforations through the casing and into the formation to be produced, and recording at the mouth of the well the vibrations created by the perforating operation.

2,328,002
METALWORKING MACHINE
Carl Gall and Bartel J. Di Santo, Woodbridge, N. J., assignors to American Smelting and Refining Company, New York, N. Y., a corporation of New Jersey
Application September 7, 1939, Serial No. 293,679
5 Claims. (Cl. 29—27)



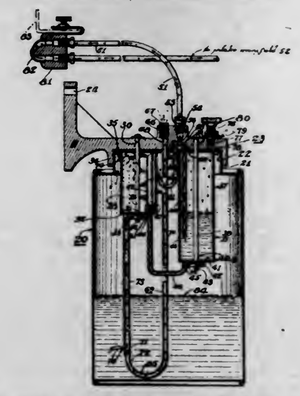
1. A machine for scalping metal billets comprising an elongated bed, a metal scalping tool means positioned intermediate the ends of said bed, a billet clamping and guiding means disposed adjacent said scalping tool, said billet clamping and guiding means comprising rigidly supported roller clamping means with said rollers being arranged in the same plane for unyieldingly holding and guiding the billet so that the longitudinal axis of the billet throughout its entire length is maintained in accurate alignment with the longitudinal axis of said scalping tool during the scalping operation, reciprocable carriage means arranged on one side of said scalping tool for receiving and feeding said billet lengthwise along said bed through said clamping and guiding means and to said scalping tool, additional reciprocable carriage means located on opposite side of said scalping tool for receiving and guiding said billet away from said tool, said last mentioned carriage having a clamping means mounted thereon for gripping the advancing end portion of said billet as it emerges from said scalping tool whereby upon movement of the carriage away from said tool said billet is pulled forward while the remainder of the billet is being scalped.

2,328,003
VACUUM CLEANER COUPLING CONSTRUCTION
Alfred W. Gardes, Evanston, Ill., assignor to Eureka Vacuum Cleaner Company, Detroit, Mich., a corporation of Michigan
Application September 25, 1941, Serial No. 412,257
3 Claims. (Cl. 292—114)



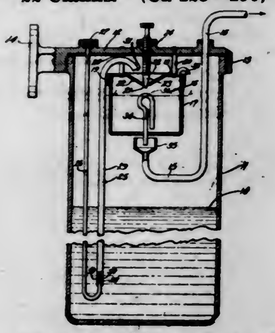
3. For use with a vacuum cleaner body member having a seat thereon, a member adapted to be removably seated thereon, and a shoulder on one of said members; a toggle clamp for releasably securing said members together and comprising a U-shaped element having a catch at one end thereof for engagement with said shoulder, a link having one of its ends pivoted to said element intermediate the ends thereof, the other end of said link having a pin and slot connection with the other of said members and means biasing said other end of said link in a direction away from said one of said members, said link being arranged within and generally parallel to said element when said toggle clamp is closed.

2,328,004
LUBRICATOR
Emmet M. Green, Los Angeles, Calif., assignor to Lincoln Engineering Company, St. Louis, Mo., a corporation of Missouri
Application May 22, 1941, Serial No. 394,690
5 Claims. (Cl. 123—196)



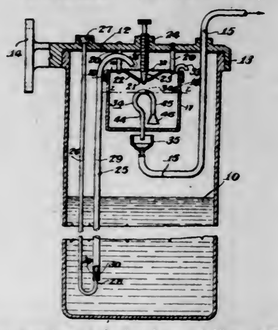
1. An engine lubricator including a lubricant reservoir, a lubricant feed chamber disposed within the upper part of said reservoir and vented thereto, means for transferring lubricant from said reservoir to said feed chamber during operation of the engine, a closed supply chamber disposed within said reservoir and extending downward therein beyond said feed chamber, a passageway connecting lower portions of said feed chamber and said supply chamber and permitting flow of lubricant therebetween, a branched suction conduit operatively connected to the engine and separately communicating with the upper portion of said reservoir and with an intermediate portion of said supply chamber, said conduit being adapted simultaneously to suck fluid from said upper portion of said reservoir and from said intermediate portion of said supply chamber, and a manually-operable air valve connected to said supply chamber and opening to the exterior of said lubricator, said valve being adapted to be closed whereby said feed chamber and said supply chamber are kept at generally the same reduced pressure during operation of the engine to permit continuous drainage of lubricant from the feed chamber to the supply chamber and continuous transfer of lubricant from said intermediate portion of said supply chamber through said conduit to the engine, said valve being adapted to be opened to admit air to said supply chamber whereby said supply chamber is kept at an appreciably higher pressure than said feed chamber during operation of the engine to prevent drainage of lubricant from the feed chamber to the supply chamber during operation of the engine and thereby to interrupt transfer of lubricant to the engine after an initial period of engine operation and after the level of lubricant in said supply chamber has dropped below said intermediate portion thereof, and to permit equalization of pressure and drainage of lubricant from said feed chamber to said supply chamber after termination of engine operation thereby gradually to accumulate an initial charge of lubricant in said supply chamber.

2,328,005
ENGINE LUBRICATOR
Emmet M. Green, Los Angeles, Calif.
Application June 6, 1941, Serial No. 396,817
22 Claims. (Cl. 123—196)



1. In an engine lubricator of the character described, a lubricant reservoir, a supply chamber, means operable by suction created by running of the engine for delivering a predetermined charge of lubricant from said reservoir to the chamber during running of the engine, and means operable as the engine continues to run and when said charge has been delivered to the chamber to feed the charge to the engine and to then discontinue the lubricant feed thereto.

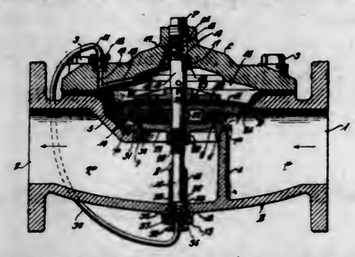
2,328,006
ENGINE LUBRICATOR
Emmet M. Green, Los Angeles, Calif.
Application January 3, 1942, Serial No. 425,488
6 Claims. (Cl. 123—196)



3. In an engine lubricator of the character described, a lubricant reservoir, a supply chamber, means operable by the engine suction for elevating lubricant from the body of lubricant in said reservoir and delivering a predetermined charge of the elevated lubricant into the supply chamber, a delivery conduit adapted to transfer lubricant to the engine, and a siphon operable when the charge has been delivered to the chamber to withdraw the charge therefrom directly to said conduit for delivery to the engine, said siphon having a cross-sectionally enlarged tip at the end of its short arm.

2,328,007
CHECK VALVE
Donald G. Griswold, Alhambra, Calif., assignor to Clayton Manufacturing Company, Alhambra, Calif.
Application May 1, 1940, Serial No. 332,823
12 Claims. (Cl. 137—153)

1. In a check valve comprising a body, a flexible diaphragm for controlling the flow of fluid through said body, and a pressure chamber for operating fluid above said diaphragm, said diaphragm being arranged to be actuated downwardly to effect cessation of flow through said body; a valve stem connected to said diaphragm; a guide in said body for said valve stem, said guide being hollow and having port means for



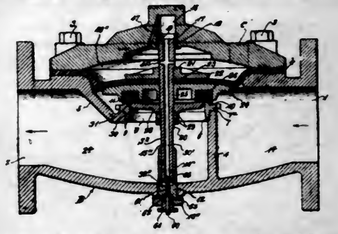
the passage of fluid thereinto; and passage means for conducting operating fluid from said guide to said pressure chamber to effect closing of said valve, said valve stem being cooperable with said port means to decrease the flow of fluid to said pressure chamber as said valve stem moves downwardly.

2,328,008
VALVE
Donald G. Griswold, Alhambra, Calif., assignor to Clayton Manufacturing Company, Alhambra, Calif.
Application May 29, 1940, Serial No. 337,903
22 Claims. (Cl. 137—139)

1. A valve comprising: a body having an inlet opening, an outlet opening, and a seat between said openings; a diaphragm cooperable with said seat to control flow from said inlet opening to said outlet opening; a pressure chamber above said diaphragm; passage means for conducting operating fluid to and from said pressure chamber; and valve means between said passage means and said pressure chamber, said valve means being connected with said diaphragm and arranged to control the rate of admission of operating fluid into, and the rate of exhaust of spent operating fluid from, said pressure chamber.

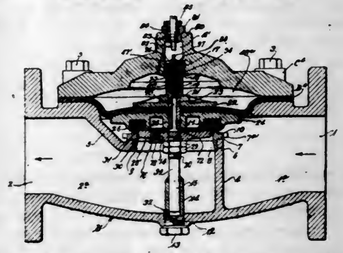
2,328,009
CHECK VALVE
Donald G. Griswold, Alhambra, Calif., assignor to Clayton Manufacturing Company, Alhambra, Calif.
Original application May 1, 1940, Serial No. 332,823. Divided and this application February 2, 1943. Serial No. 474,446
5 Claims. (Cl. 137—153)

3. A check valve comprising: a body having inlet and outlet openings; a seat between said openings; a flexible diaphragm cooperable with said seat for controlling the flow of fluid between said openings, said body having a pressure chamber for operating fluid above said diaphragm; a reciprocable valve stem connected with said diaphragm and extending through said seat; said valve stem having a passageway communicating



with one of said openings and said pressure chamber for conducting fluid from said one opening to said pressure chamber to effect closing of said valve; and means cooperable with the passageway in the lower end of said valve stem for decreasing the flow of fluid thereinto as said valve stem nears the end of its closing movement.

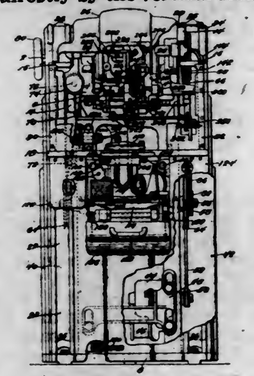
2,328,010
CHECK VALVE
Donald G. Griswold, Alhambra, Calif., assignor to Clayton Manufacturing Company, Alhambra, Calif.
Original application May 1, 1940, Serial No. 332,823. Divided and this application February 2, 1943, Serial No. 474,447
10 Claims. (Cl. 137—153)



2. A self-governing check valve comprising, a body; a flexible diaphragm for controlling the flow of fluid through said body; a pressure chamber for operating fluid for said diaphragm; a valve stem connected to said diaphragm, said valve stem having a passageway in continuous communication with said body and said pressure chamber; and a pilot valve floatingly mounted in said passageway of said valve stem for controlling the rate of flow of fluid through the passageway of said stem, said pilot valve having a passageway therethrough smaller in size than said passageway in said valve stem.

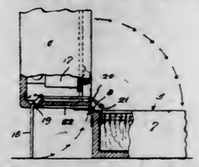
2,328,011
SHOE SEWING MACHINE
Otto R. Haas, North Beverly, Mass., assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J., a corporation of New Jersey
Application September 14, 1939, Serial No. 294,926
18 Claims. (Cl. 112—258)

1. A shoe sewing machine having, in combination, a main supporting frame of generally rectangular cross section having spaced vertical posts, stitch-forming devices carried by the main frame and exposed at the front of the frame, a horizontal sewing shaft in the upper part of the frame, driving means in the lower part of the frame, pulleys and belts at one side of the frame connecting the driving means and the sewing shaft, a front and rear enclosing cover structure supported directly by the vertical frame posts and



arranged to extend laterally beyond the frame at said side, and a separate end plate secured to the laterally extending portions of the front and rear cover structure to form a compartment enclosing the driving pulleys and belts at said side of the frame.

2,328,012
TRAVELING CASE FOR PORTABLE RADIO RECEIVERS
Edwina W. Hamilton, Lubbock, Tex.
Application January 31, 1942, Serial No. 429,048
1 Claim. (Cl. 190—38)

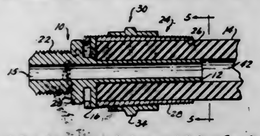


In a portable case, a body for the storage of wearing apparel, a cover hinged to said body for opening and closing the latter and having a depth greater than the depth of the body to accommodate a radio receiver entirely therein, a leg for supporting the cover when in an open position with the body disposed horizontally on a support and to prevent the body from accidentally moving out of the horizontally supported position under the weight of said cover and the radio receiver carried thereby, said cover having a slot in one wall thereof and a groove in said wall connecting with the slot, said leg having an angularly disposed end portion extending through the slot and pivoted to the cover, and a link pivoted to the body and to said end portion of the leg for automatically moving the leg into and out of the groove by the closing and opening of the cover.

2,328,013
END FITTING FOR HIGH PRESSURE HOSE
Mark Hattan, Dayton, Ohio
Application December 8, 1941, Serial No. 422,095
3 Claims. (Cl. 285—82)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. For use on a high pressure hose, an end fitting comprising a clamping sleeve having a substantially straight inner bore substantially

equal to the outside diameter of the hose and having a taper-threaded outer diameter, an internally taper-threaded nut on the outside of said sleeve, said sleeve being divided by longitudinal spaces into segments, a body having a coupling connection at one end, a holding portion fast on said body axially adjacent said coupling connection, a tubular portion dimensioned to fit closely into the inside of said hose, and a flange



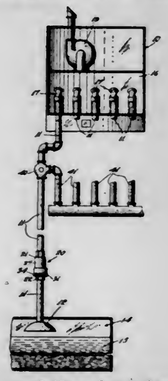
non-rotatably fastened to said body intermediate said holding portion and said tubular portion, said flange having circumferentially spaced slots extending axially therethrough equal in number to the number of segments, and guiding means on each segment, each segment guiding means consisting of a guide piece slidable toward and away from said body in one of said slots and a portion slotted to fit slidably over said flange.

2,328,014

FIRE DETECTING AND EXTINGUISHING SYSTEM

Henry Ernest Heigis, West Orange, N. J., assignor to Specialties Development Corporation, Bloomfield, N. J., a corporation of New Jersey

Application July 1, 1941, Serial No. 400,609
11 Claims. (Cl. 169—5)



7. In a system of the class described, the combination of fire detecting means; a conduit leading from a liquid storage compartment to said detecting means; a valve casing connected in said conduit having a downwardly facing valve seat adjacent the upper interior end thereof; and a flotatable valve member in said casing constructed to engage said valve seat to shut off communication between the compartment and said detecting means in response to liquid flowing from the compartment to said casing, whereby liquid is prevented from entering said detecting means, said valve casing and said valve member being constructed to normally permit said valve member to move out of engagement with said valve seat.

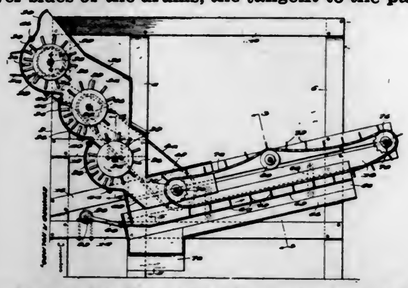
2,328,015

PEA HULLING MACHINE

Edward A. Holmes, Sandersville, Ga.

Application October 14, 1940, Serial No. 361,163
3 Claims. (Cl. 130—30)

1. In a pea hulling machine, a pair of drums each having teeth extending threfrom, stationary partly cylindrical walls concentric with said drums, teeth on said walls interfitting with the teeth on said drums, means to drive said drums in the same direction, means mounting said drums with their axes in a line downwardly inclined in the direction of the movement of the lower sides of the drums, the tangent to the part-



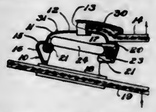
ly cylindrical wall opposite the upper drum at the end of the cylindrical part thereof intersecting the teeth of the next lower drum at a point where said teeth are moving towards the upper drum, whereby peas leaving the teeth of the upper drum are thrown against the teeth of the lower drum in a direction opposite to the direction of movement thereof.

2,328,016

ONE-WAY DETACHABLE SNAP FASTENER

Otto J. Huelster, Waterbury, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut

Application March 30, 1942, Serial No. 436,728
12 Claims. (Cl. 24—218)



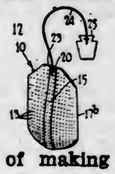
1. A snap fastener socket member for use with a stud element of the type which includes a post having an enlarged head portion and a contracted neck, said socket member comprising a body having a recess therein and an opening for admitting the head of such a stud to said recess and an enlarged portion to the rear of said opening, spring means disposed in said recess and being adapted for limited axial tilting movement therein and for expansion to receive the head of a stud, and means on the socket member for cooperation with a part of the spring means for providing the limited axial tilting of the latter.

2,328,017

PACKAGE AND METHOD OF MAKING THE SAME

Hans O. Irmscher, New York, N. Y., assignor to Millie Patent Holding Co., Inc., a corporation of New York

Application May 26, 1938, Serial No. 210,152
10 Claims. (Cl. 93—3)



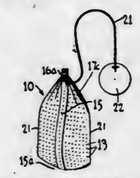
1. The method of making packages of the character described consisting in forming a tubular structure with a single interlocking adhesiveless seam from a strip of crease retaining sheet material, infold gathering an end portion of the structure and securing said gathered end portion to make a bag bottom closure, partially filling the bag formed with a product through the open end thereof, flattening said filled bag by providing spaced longitudinally extending edge folds, and infolding said edge folds at the open end portion of the bag and securing same to provide a top closure.

2,328,018

PACKAGE AND METHOD OF MAKING THE SAME

Hans O. Irmscher, New York, N. Y., assignor to Millie Patent Holding Co., Inc., a corporation of New York

Application July 2, 1938, Serial No. 217,191
10 Claims. (Cl. 93—3)



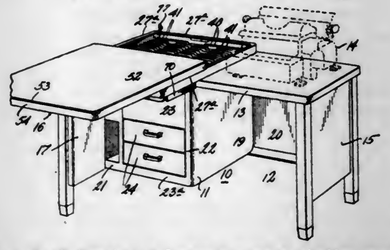
1. In the method of making packages of the character described from an internally supported tubular structure formed of sheet material having a single adhesiveless seam joint and an infolded and fastened end closure, the steps of removing the internal support from the portion of said structure adjacent said infolded and fastened end closure, partially filling said portion with a product to be packaged, infolding an unsupported tubular structure portion adjacent the remaining internally supported portion of the tubular structure, fastening the last mentioned infolded portion to form the end closure for a succeeding structure similar to the first mentioned closed structure and fastening the last mentioned infolded portion at a spaced distance below the end closure last mentioned to serve as a top closure for the partially filled structure, severing the infolded structure between the spaced fastenings to detach the filled package formed from the tubular structure with the closed end, and flattening opposite sides of said package.

2,328,019

DESK

James R. Jones, Lakewood, N. Y., assignor to Art Metal Construction Company, Jamestown, N. Y.

Application August 27, 1940, Serial No. 354,389
9 Claims. (Cl. 45—70)



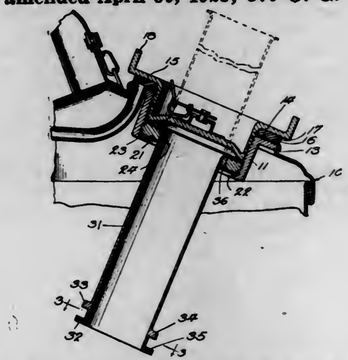
4. A desk having a knee space, a stationary top section over said knee space adapted to support a typewriting or the like machine, a stationary container for sheets located at one side of said knee space and extending from approximately the rear wall of the desk nearly to the front wall thereof and open at its upper end, and a desk top section which lies approximately horizontally and is movable in such horizontal position forwardly from a location in which it overlies and covers completely said open-ended container to a forward location in which it uncovers said container for approximately its full length fore and aft for access to said sheets and projects forwardly beyond the front edge of said stationary top section, said top section forming a top working surface of the desk in both its rear and forward portions.

2,328,020

RETRACTIBLE SPOUT

William B. Johnson, United States Army

Application September 30, 1941, Serial No. 412,973
5 Claims. (Cl. 221—27)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



4. In combination with a container, including a filler opening and adapted to be closed by a plug having a sealing flange, a retractible pouring spout including a base, a central circular opening in the base including bayonet notches, a generally cylindrical pouring spout slidably mounted within the central opening and arranged for axial and rotating movement with respect thereto; a sealing surface at the lower extremity of the pouring spout arranged to coact with the sealing surface of the base and bayonet lugs on the pouring spout arranged to pass through and cooperate with the bayonet notches of the base to maintain the aforementioned sealing surfaces in engagement.

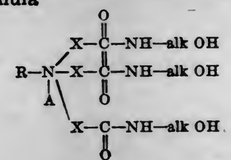
2,328,021

DERIVATIVES OF AMINES

Morris Katzman and Albert K. Epstein, Chicago, Ill., assignors to the Emulsol Corporation, Chicago, Ill.

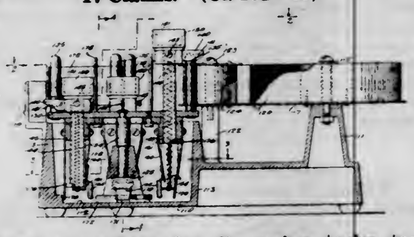
No Drawing. Application July 17, 1940, Serial No. 345,982
4 Claims. (Cl. 260—561)

1. Chemical compounds in accordance with the general formula



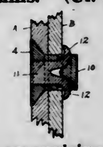
wherein R is a hydrocarbon radical containing from 8 to 18 carbon atoms, A is halogen, X is alkylene, and alk OH is hydroxy alkyl.

2,328,022
TAPE SERVING MACHINE
Theodore H. Krueger, Stratford, Conn., assignor to Better Packages Incorporated, a corporation of New York
Application January 20, 1942, Serial No. 427,413
17 Claims. (Cl. 164—48)



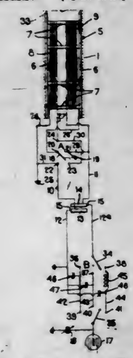
1. In a machine for dispensing tacky tape, means for rotatably supporting a roll of tape with its axis vertical, and a reel mounted adjacent thereto for rotation about a vertical axis, said reel including spaced vertical tape supporting members to which the tape is adapted to be adhered.

2,328,023
BLIND RIVET
Joseph C. Lang, Pittsburgh, Pa., assignor to Bocjl Corporation, a corporation of Delaware
Application May 16, 1942, Serial No. 443,198
8 Claims. (Cl. 85—38)



1. A blind rivet comprising telescopically interfitted pin and sleeve members, the former having a bifurcated inner end, the latter having an anvil portion at its inner end and having opposed laterally directed openings immediately forward of the anvil portion, the major portion of the openings being so located that they are just below the inner surface of the object into which the rivet is entered.

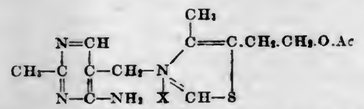
2,328,024
RADIO DIRECTION FINDER
Marcus G. Limb, Hyannis, Mass., assignor to Cape Cod Instrument Company, Hyannis, Mass., a corporation of Massachusetts
Application May 6, 1942, Serial No. 441,891
3 Claims. (Cl. 250—11)



3. A loop antenna for a radio direction finder, said antenna comprising two loop sections, all the turns of both loop sections having substantially the same diameter and having a common axis, a single shielding element enclosing both loop sections of said antenna, the windings of said sections being arranged with the high potential ends thereof situated between the low potential ends, whereby said low potential ends are nearer the walls of the shielding element than the high potential ends, and means for connecting said loop sections either in series or in parallel.

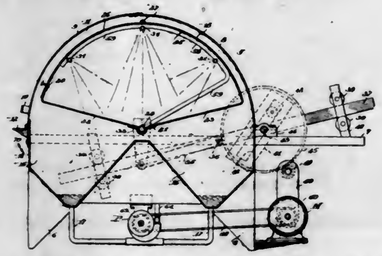
2,328,025
PROCESS FOR THE PRODUCTION OF YEAST HAVING HIGH VITAMIN B_1 POTENCY
Morris W. Mead, Jr., Bloomfield, and John Lee, Nutley, N. J., assignors, by direct and mesne assignments, of one-half to Hoffmann-La Roche, Inc., Nutley, N. J., a corporation of New Jersey, and one-half to National Grain Yeast Corp., a corporation of New Jersey
No Drawing. Application February 18, 1941, Serial No. 379,532
10 Claims. (Cl. 195—82)

1. In a process for producing yeast possessing high vitamin B_1 potency, the step comprising adding to the wort in which the yeast is being propagated, a substance of the following structure:



wherein X is a halide radical and Ac is an acyl radical.

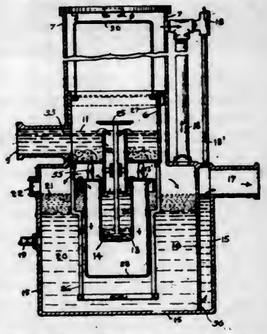
2,328,026
METHOD OF AND APPARATUS FOR WASHING GARMENTS OR THE LIKE
Arthur T. Moore and Carl R. Ebling, Batavia, N. Y.; said Ebling assignor to said Moore
Application December 9, 1938, Serial No. 244,826
10 Claims. (Cl. 8—147)



3. A washing machine comprising a tub, a receptacle within said tub having converging, garment-supporting bottom walls, said receptacle being perforated to allow liquid to drain freely therefrom, means for oscillating said receptacle about an axis approximately at the intersection of the planes of said converging walls and through an angle and at a speed sufficient to toss the contents from one converging wall to the other with a definite impact, means for spraying a liquid into said receptacle towards said converging walls, said tub being disposed below said receptacle for receiving the liquid draining from said receptacle, and means for continuously withdrawing the liquid draining into said tub whereby the receptacle will not be immersed in liquid standing in said tub.

4. The method of cleansing textile articles which comprises tossing said articles with substantial velocity alternately against spaced perforate walls and while substantially all of said articles are fully unsubmerged in any liquid throughout their movement, directing a cleaning liquid in streams under substantial velocity against said articles throughout such treatment, withdrawing said cleaning liquid which is forced from said articles by the impact of said articles against said walls and that which is unabsorbed by said articles during such treatment, with sufficient promptness to prevent any immersion of the articles in a body of said cleaning liquid during any of such treatment, and making the velocity of tossing sufficient to cause a substantial amount of the cleaning liquid carried by the articles at the time of each impact with each wall to be squeezed from the articles by reason of such impact.

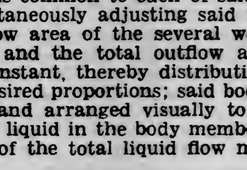
2,328,027
MANUFACTURE OF SEPARATORS
Ignaz Muller, New York, N. Y.
Application June 1, 1940, Serial No. 338,365
6 Claims. (Cl. 210—54)



1. In a trap for treating liquids such as sewage, a tank, a sealing liquid in said tank, a feed associated with the said tank, outlets for the treated liquid from the said tank communicating with the lower part of same, a solids collecting bucket, an inlet for the liquid in said bucket, means for holding said bucket and its inlet in alinement with said feed, a solids accumulating receptacle underneath the said bucket adapted to act as a float when inserted into the said sealing liquid, an outlet conduit from the said bucket into the said receptacle the latter being adapted to be sunk by a predetermined accumulation of solids, closing means carried by the said receptacle adapted to close the said outlet conduit as a result of the sinking of the receptacle and hereby to interrupt the flow from the said bucket into the said receptacle.

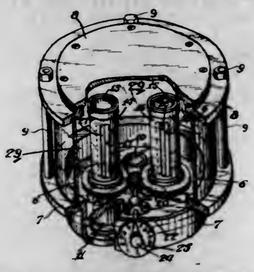
2,328,028
SHIP CONSTRUCTION
John H. Odenbach, Rochester, N. Y., assignor to Odenbach Holding Corporation, Rochester, N. Y., a corporation of New York
Application February 7, 1941, Serial No. 377,882
40 Claims. (Cl. 114—79)

1. The method of constructing an end portion of the hull of a ship which comprises the initial forming of structural members to substantially the shape of the transverse section of the hull at its amidship's portion; joining said members to form a tubular parent structure having two pairs of oppositely disposed walls and open ends, and including members used in the amidship's and the end portions of the hull; cutting approximately triangular pieces from one pair of oppositely disposed walls of the parent structure, adjacent an end thereof, leaving projections in both pairs of said walls, which extend from the amidship's portion at said end; bending certain of



said projections from the other pair of said walls, into respective adjacent relation with said projections in the first pair of said walls, to close the end and obtain the desired shape in the end portion of said hull and joining said projections to complete the said end of the hull.

2,328,029
FLOW PROPORTIONING DEVICE
George K. Porter, Philadelphia, Pa., assignor, by mesne assignments, to Fischer & Porter Company, Hatboro, Pa., a corporation of Pennsylvania
Application November 27, 1940, Serial No. 367,435
9 Claims. (Cl. 137—166)

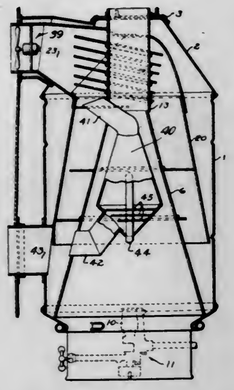


9. A liquid gauging and proportioning device comprising a body member, an inlet tube adapted to introduce liquid into said body member, a plurality of cooperatively adjustable outlet weirs, and means common to each of said outlet weirs for simultaneously adjusting said weirs so that the outflow area of the several weirs is varied inversely and the total outflow area is maintained constant, thereby distributing the liquid in any desired proportions; said body being constructed and arranged visually to indicate the height of liquid in the body member, whereby a measure of the total liquid flow may be determined.

2,328,030
HOT-AIR HEATER
William H. Richards, Dayton, Ohio
Application April 18, 1941, Serial No. 389,201
5 Claims. (Cl. 126—106)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

4. A fluid heater comprising a burner, a hollow flame spreader located above said burner, means for conducting the fluid to be heated through the interior of said flame spreader, a rod of heat-conducting material located in a substantially vertical position within said flame spreader and projecting through and slightly beyond the lowermost portion thereof, and one or more plates of heat-conducting material located in a substan-

tially horizontal position within the lower portion of said flame spreader and intimately joined thereto, said rod and said plates being effective



to dissipate the heat collected by the lower portion of said flame spreader to the fluid passing through the interior thereof.

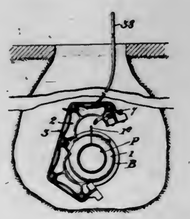
2,328,031

PIPE CLAMP AND METHOD AND APPARATUS FOR APPLYING SAME

Roger E. Risley, Bradford, Pa., assignor to Dresser Manufacturing Company, Bradford, Pa., a corporation of Pennsylvania

Application June 17, 1941, Serial No. 398,380

5 Claims. (Cl. 138—97)



1. A method of applying a repair clamp to an underground pipe line by operations performed through an opening too small to admit a man, comprising the steps of applying a gasket in proper position on the pipe securing said gasket against displacement, thereafter positioning a sectional repair clamp over the gasket, securing the sections together and tightening the clamp to apply sealing pressure to the gasket.

2,328,032

AIRPLANE RUNNING LIGHT INSTALLATION

John M. Roper, Washington, D. C.

Application June 11, 1942, Serial No. 446,616

1 Claim. (Cl. 240—7.7)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

A running light installation on the leading wing tip of an aircraft comprising a plurality of notched recesses providing side walls in staggered relation to each other, said side walls being in parallel planes, identically directed lamp sockets located in said recessed side walls in staggered relation to each other, running light lamps mounted in said lamp sockets to thereby emit light rays in identical directions, and a transparent member faired into the wing tip over the running light lamps.



2,328,033

PRESTRESSING REINFORCING DEVICE FOR CONCRETE

Herman Schorer, Valhalla, N. Y.

Application August 14, 1941, Serial No. 406,806

13 Claims. (Cl. 72—71)



1. A prestressing and reinforcing device for concrete comprising a compression member, a plurality of tension members spaced from and disposed around said compression member, a tensioning and tensioning force transmitting mechanism disposed at one end of said device and interconnecting one end of said tension members and one end of said compression member and tensioning said tension members and transmitting the tension reaction force to said compression member, and an anchorage mechanism disposed at the other end of said device and interconnecting the other end of said tension members and of said compression member, each of said mechanisms comprising a ring wedge device simultaneously gripping with equal force and firmly holding the ends of all of said tension members, said ring wedge device including a plurality of wedge members disposed between and clampingly engaging the ends of said reinforcing members and having an annulus-sector like cross section and forming together a substantially cone shaped outer surface disposed coaxially with said device, a counter member having a substantially cone shaped inner surface disposed coaxially with and engaging said outer surface, and tightening means engaging said wedge members and said counter member and forcing them in axial direction toward one another whereby said wedge members are moved radially and toward one another and toward said tension members.

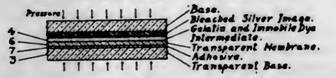
2,328,034

PHOTOGRAPHIC ELEMENT AND PROCESS

Virgil B. Sease, New Brunswick, and Otis Willard Murray, South River, N. J., assignors, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application December 14, 1940, Serial No. 370,194

13 Claims. (Cl. 95—2)



1. The process which comprises impregnating a photographic element containing an image record in reducible silver salts in an outer layer thereof with an aqueous solution, impregnating a color yielding element containing an immobile dye intermediate containing a component capable of forming a dye taken from the group consisting of quinoneimine and azomethine dyes in an outer layer thereof in a reducing solution containing a color coupling developing agent and pressing said outer layers into contact until a dye image is formed in the latter element.

2,328,035

SNOW RING OR WHEEL

Harvey N. Smith, Washington, D. C.

Application October 28, 1941, Serial No. 416,808

2 Claims. (Cl. 280—11.37)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A ski pole having a snow ring comprising a tubular ring, rubber spokes having a cotton carcass molded integrally with said ring, said spokes having a hub portion adapted to receive the ski pole, said cotton carcass having a U-shaped formation with both ends terminating within said hub portion.

2,328,036

PROCESS OF PRODUCING SOLUBLE BENZYL ETHERS OF DEXTRAN

Grant L. Stahly and Warner W. Carlson, Columbus, Ohio, assignors, by mesne assignments, to The Commonwealth Engineering Company of Ohio, Dayton, Ohio, a corporation of Ohio

No Drawing. Application February 26, 1938, Serial No. 192,887

4 Claims. (Cl. 260—209)

2. A method of manufacturing an acetone soluble benzyl ether of dextran in two stages consisting of (*a*) forming an acetone insoluble benzyl dextran by reacting an aqueous solution of dextran, benzyl chloride and sodium hydroxide at a temperature range of between 80 and 110 degrees C. for several hours until an acetone insoluble benzyl dextran is formed; (*b*) thereafter adding more benzyl chloride and sodium hydroxide to the first mentioned heat treated mixture and continuing the reaction at a higher temperature range between 135 to 185 degrees C. for several hours to form an acetone soluble benzyl dextran.

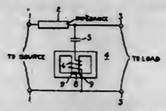
2,328,037

VOLTAGE REGULATOR

Claude M. Summers, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York

Application August 14, 1940, Serial No. 352,569

11 Claims. (Cl. 171—242)



1. An automatic voltage regulator for a load circuit comprising, in combination, a pair of impedance elements connected in series with each other and in parallel with said load circuit across the load end thereof, said elements having such volt-ampere characteristics that the vector sum of their respective voltages is a constant over a current range which is of the order of magnitude of full load current.

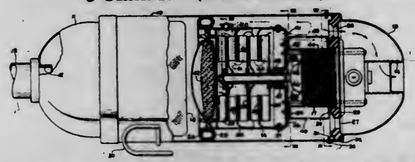
2,328,038

SUCTION CLEANING APPARATUS

Charles H. Taylor, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application October 25, 1941, Serial No. 416,459

6 Claims. (Cl. 230—117)



1. In a suction cleaner, a casing having an inlet opening and an outlet opening, a fan unit in said casing, said fan unit including a fan and a housing enclosing the same, a motor unit in said casing, a valve in said fan housing that automatically opens when the flow of air through said outlet opening becomes obstructed, said valve permitting the air to flow in a closed circuit, said circuit being adjacent the motor unit and against the inner surface of the wall of said casing and through said valve and back into the fan housing, said closed circuit flow of the air serving to transmit the heat generated incident to the operation of the motor to the walls of the casing where it is radiated and conducted to the ambient atmosphere.

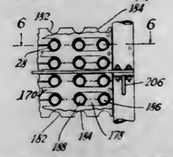
2,328,039

STEAM GENERATOR

Thomas C. Toomey, West New Brighton, Staten Island, N. Y., and Joseph G. Brandt, Westfield, N. J., assignors to The Babcock & Wilcox Company, Newark, N. J., a corporation of New Jersey

Application April 30, 1938, Serial No. 205,156

4 Claims. (Cl. 257—230)



1. In an economizer, spaced straight economizer tubes arranged in horizontal rows disposed

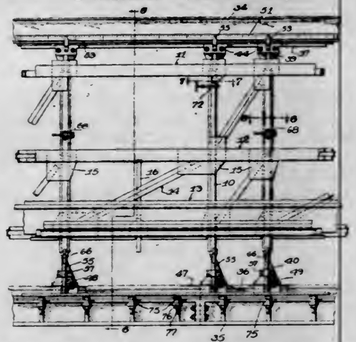
at successively higher levels, the tubes of each row being serially connected so as to constitute a flat coil, and means including fluid cooled suspension tubes supporting said coils at points intermediate the ends of the straight tubes, the suspension tubes being disposed exteriorly of the removal path of each coil and having secured thereto coil engaging supports so that each coil is supported independently of other coils for the independent withdrawal thereof horizontally endwise.

2,328,040

ASSEMBLY JIG

William A. Weightman, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania

Application April 8, 1941, Serial No. 387,431
8 Claims. (Cl. 29—89)



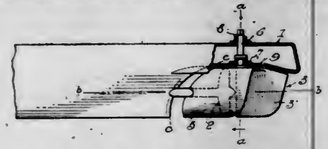
7. A jig of the class described, comprising longitudinally spaced vertical columns arranged in alignment and each having one side substantially in a common plane so as to outline a jig surface, each column carrying on said side a rod, means guiding each rod on its column for vertical movement, work supporting and securing means on each rod, a longitudinally extending flexible bar extending across all of the rods, each rod being associated with said bar for partaking in the movement thereof, adjusting means spaced along the length of the bar for varying the height of the bar at the desired locations so as to vary the vertical relative position of said rods at different points in the length of the bar and thereby to derive the desired camber of the work engaging means.

2,328,041

STEERING DEVICE FOR BOATS

Charles M. Wellons, Bellevue, Pa.

Application September 11, 1942, Serial No. 458,040
3 Claims. (Cl. 114—162)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



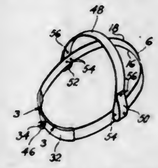
1. In a boat of the screw-propeller type, the combination with a hull formed with underwater surfaces, the latter converging inwardly toward the stern to an intersection on a curved line lying in a vertical plane central of said hull, and a propeller disposed to the rear of said line and having its axis of rotation in said vertical plane, of a multi-vane rudder pivoted about an axis behind said propeller and in the same plane as the line of intersection of the underwater surfaces, said rudder comprising a middle vane rotatable about said rudder axis, and a pair of forwardly and laterally offset curved outer vanes disposed in opposed relation such that rotation of said rudder about its axis will place the forward edge of one of said outer vanes in juxtaposition with respect to the intersecting line of the underwater surfaces to form a continuation of one of said surfaces and screen the propeller from water flowing along one side of the hull while directing the water flowing along the opposite side to and from the propeller through a restricted channel.

2,328,042

HEADBAND

James Wilson Welsh, Providence, R. I., assignor to The Welsh Manufacturing Company, Providence, R. I., a corporation of Rhode Island

Application April 28, 1941, Serial No. 390,726
5 Claims. (Cl. 2—8)



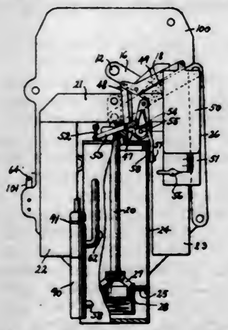
1. A split head-band the upper corner of one end of which and the lower corner of the other end of which are each provided with an extension of smaller width than the width of the body portion of the head-band, the outer boundaries of the respective extensions being continuations of the respective outer boundaries of the body portion of the head-band, the extensions being disposed in lapping relation side by side along their width dimension and being relatively adjustable longitudinally to permit adjustment of the size of the head-band, a sleeve enclosing the lapping extensions, and means for clamping the sleeve against the extensions to secure the extensions in adjusted position.

2,328,043

PARKING METER

William N. Woodruff and Charles A. Toce, Houston, Tex., assignors, by mesne assignments, to Vehicular Parking, Ltd., Washington, D. C., a corporation of Delaware

Application June 19, 1936, Serial No. 86,045
Renewed August 2, 1939
8 Claims. (Cl. 161—15)



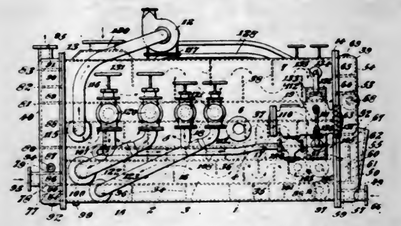
1. In a timing meter, the combination of a scale, an index movable along the same, a motor and timing mechanism including a weighted piston and associated cylinder operatively connected to the index to move the same along the scale in accordance with the passage of time, manually operated means to lift the weighted piston and release the same and permit it to lower due to the weight, said means including a turning part and a lever connection between said turning part and the piston, to lift the latter, a shield movable to cover the scale and index, and operating connections between said turning part and shield, constructed to remove the shield when the piston is lifted and restore the same when the piston has reached a desired lower position upon expiration of a predetermined period of time following the lifting of said piston.

2,328,044

COMBINATION LOW PRESSURE FEED HEATER

Eugene Porter Worthen, East Weymouth, Mass., assignor, by mesne assignments, to Buena Vista Iron Company, a corporation of New Jersey

Application July 25, 1941, Serial No. 404,011
5 Claims. (Cl. 257—2)



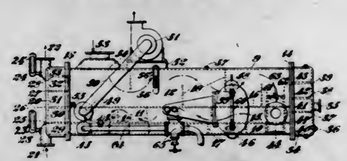
5. In a multi-stage steam plant including main and auxiliary condensers, second stage deaerating feed heater, turbine glands and bleeder, and fresh water drain collecting tank, a low pressure feed heater unit comprising a unitary containing shell substantially rectangular in transverse section, a plurality of horizontal division plates forming in order from the bottom rectangular compartments in said shell comprising an auxiliary air ejector intercondenser, a main air ejector intercondenser, a feed heater drain cooler, a combined gland leakoff condenser and main and auxiliary after condenser, an air ejector compartment through which air and vapor pass to the combined gland leakoff condenser and main and auxiliary after condenser, and a first stage feed heater through which heating steam from the turbine bleeder passes to the feed heater drain cooler, a tube-sheet secured at each open end of said shell, a plurality of straight horizontal tubes extending between said sheets and opening on the outside of said sheets for heat transference and passage of condensate, a return waterhead at one end of said tube sheets, an outlet water head at the other end of said tube sheets, an auxiliary inlet port at the bottom of the return water head for injecting condensate from the auxiliary condenser into the tubes in the auxiliary air ejector intercondenser, a main inlet port in the outlet water head for injecting condensate from the main condenser into the tubes in the main air ejector intercondenser and thence to the drain cooler, division walls in the water heads to direct flow of main and auxiliary condensate separately through their respective tubes, a vertical by-pass wall in the return water head to by-pass condensate from the auxiliary air ejector intercondenser to combine with condensate from the drain cooler at the entrance of the combined gland leakoff condenser and main and auxiliary air ejector section, a division wall in return water head to conduct the combined condensate through the said gland leakoff condenser and main and auxiliary air ejector section, an outlet for recirculating part of the combined condensate to the main or auxiliary condensers, thermostatic means for regulating the amount of condensate recirculated, the aforesaid first stage feed heater being adapted and arranged for heating the remaining condensate and discharging same.

2,328,045

FEED-WATER HEATER

Eugene Porter Worthen, East Weymouth, Mass., assignor to Buena Vista Iron Company, a corporation of New Jersey

Original application July 25, 1941, Serial No. 404,011. Divided and this application July 27, 1942, Serial No. 452,445
5 Claims. (Cl. 257—2)



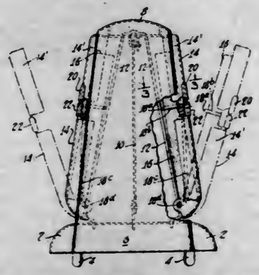
3. In a multi-stage steam plant including external condensers and a turbine having glands and bleeder, a combined unit having straight tubes for the passage of condensate and comprising a single enclosing shell, a feed heater section therein, a perforated inlet connection in the top of said feed heater section for admitting bleeder steam, staggered internal vertical baffles for directing the steam across the tubes therein to heat the condensate, a gland leakoff condenser beneath the feed heater for separating air and vapor coming from the turbine glands, a drain cooler section beneath the gland condenser, means for conducting drains from steam condensing on the tubes from the feed heater to the drain cooler section, and means for controlling the discharge of drains from the drain cooler in response to the level of the drains in the conducting means.

2,328,046

TOASTER

Allan M. Young, Meriden, Conn., assignor to Manning, Bowman & Co., Meriden, Conn., a corporation of Delaware

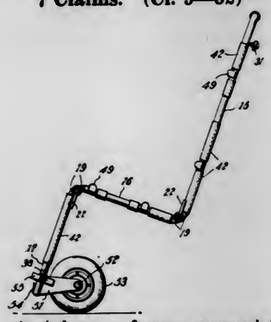
Application December 8, 1941, Serial No. 422,019
7 Claims. (Cl. 53—5)



1. In an electric toaster, a base support, a frame mounted thereon including end walls, upwardly extending spacer wires on said base support, an inspection device pivotally mounted in said end walls adjacent the base support and

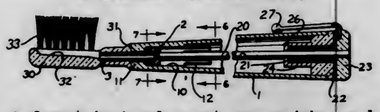
having a part thereof contacting said spacer wires, a lid pivotally mounted for conjoint rotation with said inspection device and on the same axis therewith to toast removing position or for rotation independently thereof to the same position, said lid and spacer wires defining a toast reception chamber and being so shaped as to cause the bread to be toasted to slide down into the lid when the lid is rotated alone to such toast removing position, and finger engaging means on said lid and on said inspection device for opening said lid independently of or together with said inspection device.

2,328,047
STRETCHER
Harry T. Anderson, New Philadelphia, and Edgar C. Davis, Dover, Ohio
Application March 21, 1942, Serial No. 435,706
7 Claims. (Cl. 5—82)



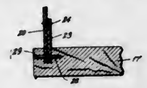
4. In a stretcher, a frame comprising a head section extending from the head end to approximately the middle of the frame, an intermediate section and a foot section, means for pivotally connecting the contiguous ends of the sections together, means for adjustably holding the sections at different positions of adjustment and patient supporting panels carried by the frame, and a detachable wheeled truck connected to the foot end of the frame and curved clamping springs upon the truck for frictionally engaging over the foot end of the frame for detachably connecting the truck to the foot end of the frame.

2,328,048
FOUNTAIN IMPLEMENT
Julian H. Bair, Seattle, Wash.
Application June 17, 1941, Serial No. 398,370
5 Claims. (Cl. 15—137)



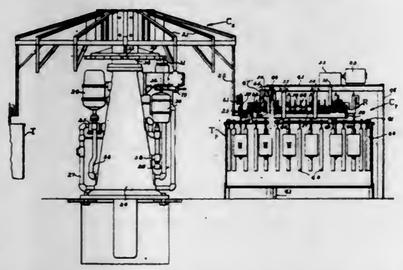
1. A fountain implement, comprising a hollow handle constituting a reservoir for liquid and having a dispensing passage leading therefrom narrower in width than the reservoir, a plunger received within the handle reservoir, means operable to move said plunger from the reservoir through said narrower dispensing passage, to force a charge of liquid therethrough and thereafter to effect a positive seal of said dispensing passage thereby, and holding means within said narrower dispensing passage interengageable with said plunger by rotation of said plunger moving means, to restrain lengthwise movement of said plunger moving means and thus to maintain said plunger in sealing position.

2,328,049
SHOE CONSTRUCTION
Arthur E. Bowman, St. Louis, Mo.
Application April 29, 1942, Serial No. 440,945
2 Claims. (Cl. 36—13)



1. In a shoe construction, a sole having an upper receiving groove therein, an upper having an edge portion adapted to be inserted into said groove, a separate strip attached to the upper adjacent said edge portion, said strip extending adjacent the edge, and the strip and edge being adapted to be inserted into said groove, and means to secure the edge of the upper and the strip in the groove.

2,328,050
CONVEYER
Edward P. Bullard III, Fairfield, Conn., assignor to The Bullard Company, a corporation of Connecticut
Application April 20, 1940, Serial No. 330,687
23 Claims. (Cl. 198—103)



3. Apparatus comprising in combination, a conveyer including a work-supporting member adapted to be raised, indexed, and lowered; means for raising and indexing said member; another conveyer in cooperative position relative to said first conveyer and including means forming an endless path about which work-supporting racks are adapted to be moved; means for moving said racks about said endless path; means for starting said rack-moving means; and means on said racks for controlling one of said conveyers when a rack arrives substantially at a common point between said conveyers.

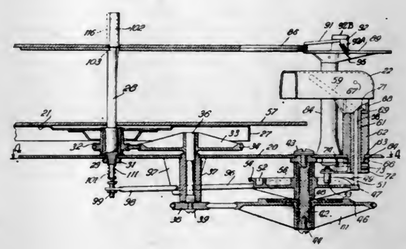
2,328,051
WALL CONSTRUCTION
Alvah S. Bull, Minneapolis, Minn., assignor, by mesne assignments, to Minnesota and Ontario Paper Company, a corporation of Minnesota
Application August 21, 1940, Serial No. 353,455
3 Claims. (Cl. 20—4)



1. In a building construction, the combination with a supporting surface a series of manufactured vegetable boards secured to the supporting surface and forming interior wall panels and secured in place by means driven at an angle to

major surfaces of the board, each board having opposite edges of substantially complemental configuration, each of said edges including a pair of tongues of unequal length and the surface connecting the two tongues being non-parallel to the major surfaces of the board and a spline-like member penetrating adjacent boards at an angle to said major surfaces and lying on said surface connecting the said two tongues.

2,328,052
AUTOMATIC RECORD CHANGER
Vaughn Butler, Harriman, Tenn.
Application April 22, 1940, Serial No. 330,879
7 Claims. (Cl. 274—10)

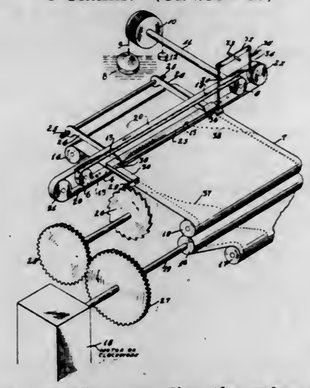


3. The combination with a rotary turntable for a sound reproducing machine, of means for supporting a plurality of records above said turntable and guiding said records collectively or individually to and from said turntable, said means including a stationary centering member extending upwardly from a point below the top surface of the turntable having a bottom portion in vertical alignment with the axial center of said turntable and a top portion off-set from said bottom portion and a horizontal shoulder on said bottom portion intermediate said top and bottom portion, a sleeve movably mounted on said off-set portion, means on said off-set portion mounting said sleeve for movement into and out of substantially peripheral alignment with said bottom portion, said supporting means also including a stationary support spaced radially from said centering member having a ledge adjacent the top thereof, with said centering member shoulder and said support ledge supporting a plurality of records thereon when said sleeve is out of peripheral alignment with said bottom portion, and means individually engaging each of said stacked records in succession and moving the engaged record from said shoulder and said ledge so that it will drop to said turntable while guided by said bottom portion.

2,328,053
PROCESS OF REFINING VITAMIN-BEARING MATERIALS
Loran O. Buxton, Belleville, N. J., assignor to National Oil Products Company, Harrison, N. J., a corporation of New Jersey
No Drawing. Application June 4, 1941, Serial No. 396,501
17 Claims. (Cl. 167—81)

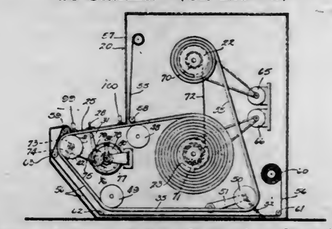
1. In a process of refining a fat-soluble vitamin-containing material, the step which comprises treating a vitamin-containing material with completely deaerated activated carbon in the presence of heat and under reduced pressure.

2,328,054
RECORDER
Ralph R. Chappell, Richmond, Va., and Rutger B. Colt and Robert J. Streb, Baltimore, Md., assignors to Bendix Aviation Corporation, Bendix, N. J., a corporation of Delaware
Original application April 29, 1936, Serial No. 77,060. Divided and this application December 14, 1940, Serial No. 370,208
3 Claims. (Cl. 234—68)



3. A recorder for recording the value of a varying quantity upon a strip of record chart supported for longitudinal movement, comprising a plurality of marking elements for making a mark on said chart, means controlled by said varying quantity for actuating said marking elements, an elongated tapper bar of predetermined length extending transversely of said chart for actuating said marking elements one at a time and also having a marking element at an end thereof for producing an additional mark at an edge of said chart to provide a reference margin at said edge, and means for actuating said tapper bar.

2,328,055
RECORD SELECTING MECHANISM
Jerome L. Clough, Milwaukee, Wis.
Application July 11, 1940, Serial No. 344,922
26 Claims. (Cl. 129—2)



17. In a device of the character described, the combination with means providing a display station and a plurality of record conveyor supports, a record mounting conveyor operable over said supports past said station, overlapping records mounted on the conveyor and adapted to pass therewith to and from the respective supports, apron ply means provided with guides for movement of said apron ply means with the conveyor over the respective supports in record confining relation to the conveyor, means for actuating the conveyor and the apron ply means in unison, and control mechanism including a selector for stopping a predetermined portion of said conveyor at said station for the display of

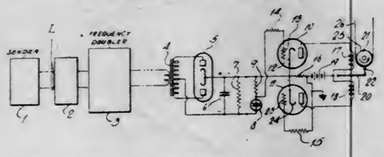
the records mounted thereon, said guides for said apron ply means defining paths for said means diverging from the path of the conveyor in advance of said station to permit access to said records at the station.

2,328,056

KEYING ARRANGEMENT FOR ELECTRIC SIGNALING SYSTEMS

Austin G. Cooley, Hudson View Gardens, N. Y., assignor, by mesne assignments, to Times Telephoto Equipment Inc., New York, N. Y., a corporation of New York

Application June 11, 1941, Serial No. 397,513
11 Claims. (Cl. 178—88)



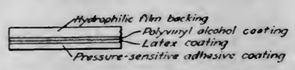
1. In an electric signaling system, a signal device having a member to be selectively set in at least two signal-controlled positions corresponding to two different signals, a pair of control windings associated with said member each arranged to be energized in response to a corresponding one of said signals, a pair of grid-controlled vacuum tubes having their output circuits connected in divided relation to said windings, means responsive to one of said signals for biassing the control grid of one of said tubes substantially to plate current cutoff and to maintain it so biassed as long as said signal continues, and means responsive to the other of said signals to bias the control grid of said other tube to substantial plate current cutoff and to maintain it so biassed as long as said other signal continues, and means whereby the current in the output circuit of one tube during the reception of one of said signals is greater than the current in the output circuit of the other tube during the reception of the other signal.

2,328,057

PRESSURE-SENSITIVE ADHESIVE SHEET

Robert Isham Coulter, St. Paul, Minn., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware

Application February 27, 1941, Serial No. 380,769
2 Claims. (Cl. 117—76)



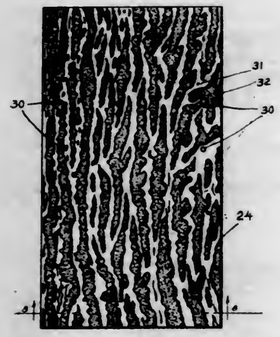
1. A transparent pressure-sensitive adhesive tape wound upon itself in roll form and comprising a flexible transparent regenerated cellulose film backing, a coextensive transparent primer film bonded to one side of said backing and essentially comprised of an intermixture of 100 parts rubber latex and 15–300 parts polyvinyl alcohol insolubilized in situ with formaldehyde, and an overlying coextensive transparent pressure-sensitive hydrophobic adhesive coating of the rubber-resin type bonded to the backing more firmly than if the primer were omitted; the adhesive tape being adapted to be unwound and removed from surfaces to which temporarily applied without delamination or offsetting of adhesive and being resistant to the effects of moisture and high humidities.

2,328,058

MANUFACTURE OF HYDRAULIC CEMENT PRODUCTS

Roscoe B. Crabbs, Morristown, N. J., assignor to The Philip Carey Manufacturing Company, a corporation of Ohio

Continuation of application Serial No. 664,454, April 4, 1933. This application December 1, 1938, Serial No. 243,468
5 Claims. (Cl. 25—154)



1. As an article of manufacture an impression plate for use in a press mold for molding hydraulic cement and fiber products with a decorative design comprising a metal plate, a composition non-metallic covering material fixed to one side of the plate, and narrowly spaced elevations and depressions of irregular heights and depths formed in the composition covering for impressing said products.

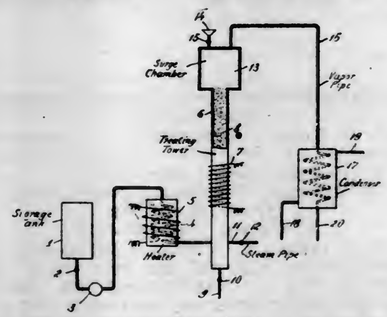
5. A process of manufacturing composition shingles having a weather exposed surface simulating the grain of weathering comprising forming an embossing member provided with a plurality of elongated differently dimensioned narrow stripes which are of varying width from end to end and of varying degrees of separation from adjacent stripes, treating the embossing member with oil to prevent sticking, and impressing the shingles with the embossing member to form a reverse replica of the stripes across the full exposed width thereof.

2,328,059

MANUFACTURE OF ETHERS

Wallace Alexander Craig, Los Angeles, Calif., assignor to Richfield Oil Corporation, Los Angeles, Calif., a corporation of Delaware

Application September 18, 1940, Serial No. 357,250
5 Claims. (Cl. 260—614)



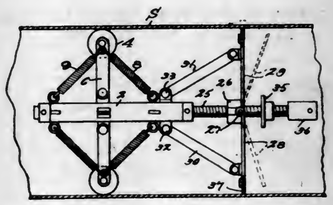
1. The method of manufacturing ethers which comprises vaporizing an aliphatic alcohol and delivering the alcohol vapors at a reacting temperature and at a pressure between 35 and 100 pounds per square inch into contact with a maintained solution of chloride of a heavy metal of the group consisting of zinc, copper, cadmium, mercury, iron, chromium, manganese, aluminum, nickel and cobalt.

2,328,060

SEWER SAND WASHER OR DESANDER

Hubert R. Crane and William D. Osborn, Los Angeles, Calif.

Application August 31, 1938, Serial No. 227,771
11 Claims. (Cl. 15—104.30)



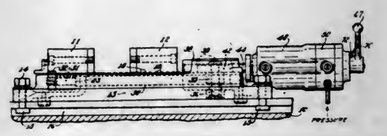
1. A bore cleaner of the class described and including an elongate body member provided with a fluid driven piston or kite head having relatively collapsible, discal sections, a screw operatively connected to said member and to facilitate bodily retraction of the cleaner, a nut on said screw carrying a pivot on which the head is diametrically foldable, and a brace means pivoted on said body and connected to and for supporting the head sections against pressure and to hold the nut and the head against rotation as the screw is rotated.

2,328,061

HYDRAULIC VISE

Frank W. Curtis, Springfield, Mass., assignor to Van Norman Machine Tool Company, Springfield, Mass., a corporation of Massachusetts

Application November 16, 1942, Serial No. 465,728
2 Claims. (Cl. 90—60)



1. A hydraulic vise for machine tools and the like comprising a base portion, a vise jaw stationarily mounted on the base portion, a second vise jaw slidably mounted on the base portion, a hydraulic cylinder mounted on the base portion on that side of the stationary jaw remote from the movable jaw, a piston in the cylinder, a piston rod attached to the piston and having rack teeth formed thereon, a rod attached to the movable vise jaw and having rack teeth formed thereon, multiplying gearing connecting the two rods whereby the piston rod will be constrained to move faster than the second rod, and valve means controlling the admission of pressure fluid to said cylinder.

2,328,062

CERTAIN WATER-SOLUBLE HIGH MOLAL OXYALKYLATED ESTERS AND METHOD OF MAKING SAME

Melvin De Groote, University City, and Bernhard Keiser, Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del., a corporation of Delaware

No Drawing. Original application March 21, 1941, Serial No. 384,594. Divided and this application June 26, 1942, Serial No. 448,681
11 Claims. (Cl. 260—404.8)

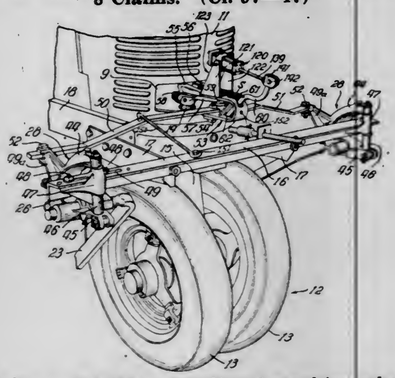
1. A water-soluble ester, being the resultant of two intermediate reactants, to wit, an acidic intermediate reactant and an alcoholic intermediate reactant; said acidic intermediate reactant being in turn the resultant fractional ester of two primary reactants, one being alcoholic and the other acidic; and said primary alcoholic reactant consisting of a polyalkylene glycol having at least 7 and not more than 17 ether linkages; and the alkylene radical thereof containing at least 2 and not more than 6 carbon atoms; and the acidic primary reactant being a polybasic carboxy acid having not more than 6 carbon atoms; and the ratio of the said primary esterifying reactants being within the range of more than 1 mole and not over 2 moles of the polybasic acid for each mole of the polyalkylene glycol; and said intermediate alcoholic reactant being the fractional ester of two additional primary reactants, and likewise, one being acidic and the other alcoholic, to wit, a detergent-forming monocarboxy acid having more than 8 and not more than 32 carbon atoms and a polyhydric alcohol having at least 2 and not more than 12 carbon atoms; the ratio of intermediate reactants being two moles of the alcoholic intermediate reactant for each mole of the acidic intermediate reactant.

11. In the manufacture of a water-soluble ester, being the resultant of two intermediate reactants, to wit, an acidic intermediate reactant and an alcoholic intermediate reactant; said acidic intermediate reactant being in turn the resultant fractional ester of two primary reactants, one being alcoholic and the other acidic; and said primary alcoholic reactant consisting of a polyalkylene glycol having at least 7 and not more than 17 ether linkages; and the alkylene radical thereof containing at least 2 and not more than 6 carbon atoms; and the acidic primary reactant being a polybasic carboxy acid having not more than 6 carbon atoms; and the ratio of the said primary esterifying reactants being within the range of more than 1 mole and not over 2 moles of the polybasic acid for each mole of the polyalkylene glycol; and said intermediate alcoholic reactant being the fractional ester of two additional primary reactants, and likewise, one being acidic and the other alcoholic, to wit, a detergent-forming monocarboxy acid having more than 8 and not more than 32 carbon atoms and a polyhydric alcohol having at least 2 and not more than 12 carbon atoms; the ratio of intermediate reactants being two moles of the alcoholic intermediate reactant for each mole of the acidic intermediate reactant, the steps of: (A) esterifying the polyhydric alcohol with the detergent-forming monocarboxy acid to yield the alcoholic intermediate reactant; (B) reacting the polyalkylene glycol with the polybasic carboxy acid to yield the acidic intermediate reactant; and (C) subsequently reacting said intermediate reactants to yield the water-soluble ester.

2,328,063
PROCESS OF CUTTING FABRIC
Frederick G. Dodge, Long, Md., assignor to Celanese Corporation of America, a corporation of Delaware
Application May 10, 1940, Serial No. 334,349
2 Claims. (Cl. 18—48)

1. Process for cutting fabric containing yarns of filaments or fibers of non-thermoplastic material whereby the cut edges are sealed against fraying or ravelling, which comprises applying to an assembly of layers, at least one of which is a textile fabric of non-thermoplastic filaments or fibers and at least one of which is a thin film or foil of thermoplastic material, localized heat and pressure on the line of desired severance by means of a hot cutting tool so as to cause the textile fabric to be cut and the cut edges of the layers to be sealed and united while the layers remain separate elsewhere than at the cut edges, and removing the film or foil from the fabric.

2,328,064
STEERING RELEASE MECHANISM
Cecil G. Doty, Crown Point, Ind.
Application November 7, 1941, Serial No. 418,122
8 Claims. (Cl. 97—47)

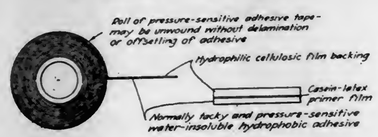


1. In a dirigible agricultural machine wherein there is a crop cultivating instrumentality releasably connected with steering mechanism of the machine for adjustment relatively to the crop within a cultivating zone in accordance with steerage manipulation of said mechanism; the combination of power-operated displacing means operable to displace said instrumentality from said zone, control means manipulatable for causing operation of said displacing means, and power-operated releasing means operable to release the connection of said instrumentality with the steering mechanism, said releasing means also being under control of said control means to be caused thereby to operate coordinately with the manipulation thereof for initiating operation of the displacing means.

2,328,065
TREATMENT OF SHEETS AND SIMILAR MATERIALS
Henry Dreyfus, London, England, assignor to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application September 29, 1938, Serial No. 232,355. In Great Britain October 7, 1937
2 Claims. (Cl. 18—48)

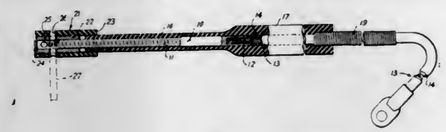
1. Process for providing with a hardened surface, transparent sheet materials suitable for use in wind screens and windows for vehicles, including aircraft, said materials having a basis of a thermoplastic organic derivative of cellulose and being substantially homogeneous as regards their chemical composition, which comprises first applying heat to the sheet in such a way that the sheet is softened superficially and not throughout its thickness, and then rapidly chilling the hot surface of the sheet.

2,328,066
COATING HYDROPHILIC CELLULOSIC FILMS
Richard Gurley Drew, St. Paul, Minn., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware
Application May 3, 1940, Serial No. 333,136
17 Claims. (Cl. 117—80)



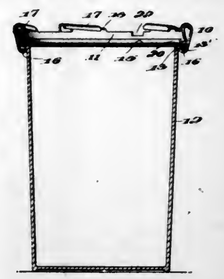
12. A pressure-sensitive adhesive sheet comprising a non-fibrous hydrophilic cellulosic film backing having a smooth, dense, non-porous surface thereof to which is united a contacting primer film formed of the dried deposition product of an aqueous emulsion of latex and hydrophilic protein glue, the glue being tanned in situ and present in proportion of about 15 to 600 parts by weight per 100 parts of latex rubber solids, and a water-insoluble pressure-sensitive adhesive coating compatible with and united to said primer film so as to be bonded more firmly than it would be if said primer film were omitted.

2,328,067
ELECTRODE HOLDER
Valmore Forgett, Teaneck, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York
Application February 28, 1942, Serial No. 432,883
3 Claims. (Cl. 219—8)



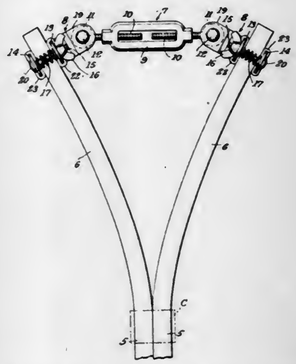
1. An electrode holder including a body element threaded at one end and having a recess at the other end, an insulated lead cable having a bare end portion permanently secured in the recess, a coil spring surrounding the insulation on the lead cable at a region back from the body element, a one-piece insulation jacket molded over the body element, the forward end portion of the spring, and the cable between the body element and the spring to hold said spring in assembled relation with the other parts, the molded insulation being of large diameter in the region of the spring and recess to serve as a handle, a head at the forward end of the body element with an opening for receiving a welding electrode, and insulation covering the head and overlapping the insulation on the body element to provide a fully-insulated electrode holder.

2,328,068
CLOSURE SEAL
Samuel B. Harris, Cristobal, C. Z.
Application November 27, 1940, Serial No. 367,482
2 Claims. (Cl. 220—61)



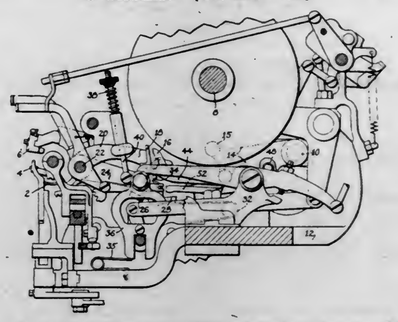
1. In combination, a container having a peripheral flange adjacent the open top portion thereof, a peripheral groove in the top surface of said flange, a lid having a peripheral groove commensurate in size with the groove in said flange, and a sealing device including a pair of cooperating annular clamping members, one member having a peripheral flange to engage the groove in said lid and the other having a peripheral flange to engage beneath the container flange and enclose the joint formed by said lid with said container flange, telescoping spaced apart cam members formed on the top portion of each annular clamping ring member, the cam surfaces on the outer ring being curved inwardly and the cam surfaces on the inner ring member being curved outwardly, whereby a relative rotational movement tightens the clamping members on the container flange.

2,328,069
SKI SPREADER
Max Kurtz, New York, N. Y., assignor to Max Kurtz and Joseph M. Ross, jointly, both of New York, N. Y.
Application October 15, 1940, Serial No. 361,201
1 Claim. (Cl. 280—11.37)



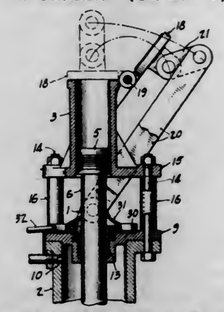
A ski spreading device of the character described comprising a pair of clamping units, each clamping unit comprising a pair of plates, means for moving said plates towards each other into clamping position, means for normally spacing said plates from each other, bearing ears formed on one of said clamp plates, and a screw device pivotally connected to the bearing ears of each clamp unit.

2,328,070
SHOE SEWING MACHINE
Otto R. Haas, North Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application October 18, 1941, Serial No. 415,571
8 Claims. (Cl. 112—61)



1. A shoe sewing machine having, in combination, stitch forming devices, a work support, a presser foot and mechanism for actuating the presser foot to clamp and release the work comprising a lever having a locking ratchet, a locking pawl for engaging the ratchet, a clamping arm having a ratchet connected to the presser foot, a clamping pawl for engaging the ratchet upon the clamping arm, a fixed pivot for the locking pawl, a fixed stud against which the clamping pawl is engaged to release said clamping pawl from its ratchet, a cam lever for causing both pawls to be actuated towards and from their respective ratchets and for moving the clamping pawl bodily to force the presser foot against the work, and adjustable means connected to said lever for changing the times in each sewing cycle at which the pawls are actuated relatively to each other.

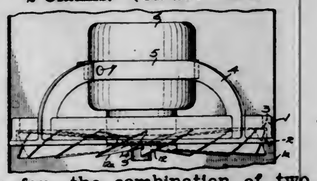
2,328,071
APPARATUS FOR PUG MAKING
Adolph Carl Jaeckel, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application July 3, 1941, Serial No. 400,976
2 Claims. (Cl. 18—5)



2. In a machine of the class described, a cylinder, a support for said cylinder, a removable head for said cylinder hinged to one side thereof for tipping out of the way to provide for loading the cylinder with material to be compressed, and a toggle link having a shorter member pivoted to said head above and near the center thereof and a pair of longer members pivoted at their upper ends to said shorter member and at their lower ends to said cylinder support on opposite

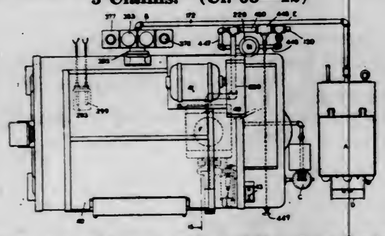
sides of the cylinder constituting tension members to secure the head tightly against the cylinder when closed and relieving the hinge from substantial pressure, said pivot point between the toggle members being laterally movable to provide for lifting said head and tilting the same on its hinge.

2,328,072
FAN
Edmund E. Hans, Detroit, Mich.
Application June 18, 1941, Serial No. 398,510
2 Claims. (Cl. 230—120)



1. In a fan, the combination of two plates each having a central disc and a plurality of blades provided with radially extending edges, said blades having decreasing transverse pitch and increasing width toward their outer ends, and having the outer margins thereof concentric to the axis of the discs, said discs being superimposed one upon another so that the radial edges of the blades are slightly overlapped, and the combined peripheries of the blades form a cylinder, a ring surrounding the periphery of the blades and having an inturned flange thereon forming a corner between the ring and flange, said fan being mounted in said ring so that the blade ends occupy said corner.

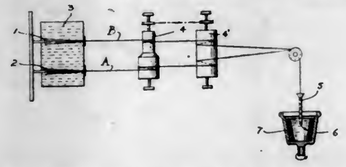
2,328,073
WASHING MACHINE FORMULA CONTROL
Angus F. Hanney, Norwood, Ohio, assignor to The American Laundry Machinery Company, Norwood, Ohio, a corporation of Ohio
Application August 2, 1940, Serial No. 349,880
3 Claims. (Cl. 68—12)



1. In a washing machine of the class described, a formula controller for controlling all operations of the washing machine, a conduit for supplying detergent liquid, a normally closed valve in said conduit, and a plurality of separate control means, each thereof being sensitive to operation of said controller and operatively associated with said valve to automatically open it at any desirable preselected time during the washing cycle, the several control means being arranged, when operated, respectively to open the valve different amounts.

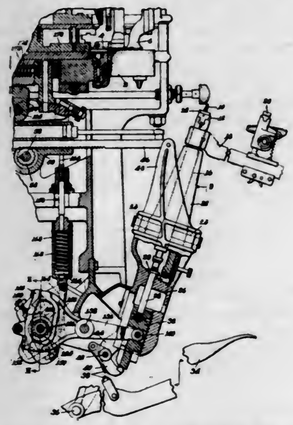
2,328,074
MANUFACTURE OF TEXTILE YARN
Archibald Stuart Hunter, Kenmore, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application July 16, 1940, Serial No. 345,778
2 Claims. (Cl. 18—54)

1. In the method of making a rippled composite yarn by wet spinning, at different spinning tensions, a plurality of yarns of different deniers composed of artificial cellulosic filaments, the improvements comprising applying to the yarn of least denier a spinning tension at least two



times the spinning tension of the yarn of largest denier, doubling said yarns, and drying the doubled yarns while they are still in the gel state by supporting them in a loose condition free from tension.

2,328,075
HEEL-END LASTING MACHINE
Jacob C. Jorgensen, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application March 4, 1942, Serial No. 433,347
19 Claims. (Cl. 12—14)

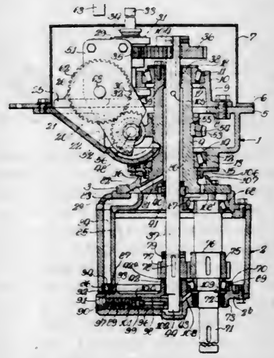


1. In a heel-end lasting machine, wipers movable to wipe the margin of the heel end of a shoe upper inwardly over an insole on a last, means for operating said wipers, an abutment arranged to engage the heel-end face of the shoe, a shoe support, and automatic means for effecting relative movement of said shoe support and abutment in a direction lengthwise of the shoe to cause the abutment to apply pressure to the heel-end face of the shoe, the operation of said automatic means being so timed relatively to the operation of the wipers as to cause substantial pressure to be applied by the abutment to the heel-end face of the shoe only after the wipers have been begun to wipe the margin of the upper inwardly over the insole.

2,328,076
DRIVING UNIT
Edward J. Karp, Cicero, Ill., assignor to G. S. Blakeslee & Co., Cicero, Ill., a corporation of Illinois
Application July 23, 1942, Serial No. 452,067
9 Claims. (Cl. 184—6)

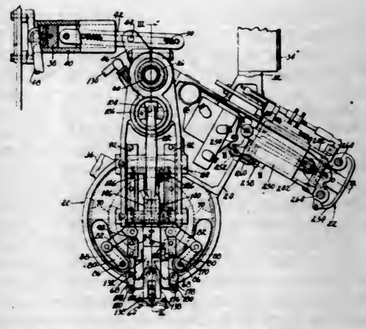
1. In a driving unit of the character described,

an upper gear housing, a drive shaft mounted therein, a lower gear housing, a countershaft mounted in said upper housing extending therefrom into said lower housing, means supporting said lower housing for rotation about the axis of said countershaft, a driven shaft rotatably mounted in said lower housing eccentric to said countershaft and extending downward beyond said lower housing, oil seal means about said driven shaft adjacent the bottom of said lower housing, means for rotating said lower housing and said countershaft comprising a gear secured on the upper portion of said countershaft, the latter having an oil outlet opening above said gear and an oil passage leading to said opening, a pinion secured on the lower portion of said



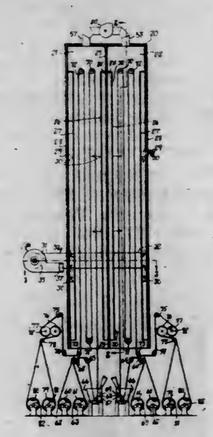
countershaft within said lower housing, a pinion secured on said driven shaft meshing with said first pinion, said unit having passages therein for flow of oil from said upper housing into said lower housing, and pump means operated by said countershaft for raising oil from said lower housing through said passage of said countershaft and discharging it therefrom through said opening, said lower housing having an oil duct leading from said seal means to the intake of said pump means.

2,328,077
SHOE MACHINE
Bernhardt Jorgensen, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application May 15, 1942, Serial No. 443,097, which is a division of application Serial No. 377,347, February 4, 1941. Divided and this application January 29, 1943, Serial No. 473,936
3 Claims. (Cl. 12—51)



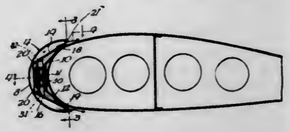
1. In a shoe machine, the combination with a support for a last having shoe materials comprising an insole and a multi-ply upper thereon, of an upper-trimming device arranged to sever from the toe end of the upper materials the margin of one or more inner layers of the materials while leaving a margin of the outer layer to overlap the insole, and a device for applying cement to the shoe for securing the margin of the outer layer to the insole, the upper-trimming device and the cement-applying device being movable as a unit to bring the different devices alternately into positions to operate on the shoe.

2,328,078
APPARATUS FOR DRYING WIRE SCREEN CLOTH
Harry C. Kugler, York, Pa., assignor to Superior Wire Cloth Company, Hungerford, Pa., a corporation of Pennsylvania
Application October 11, 1939, Serial No. 298,884
1 Claim. (Cl. 263—3)



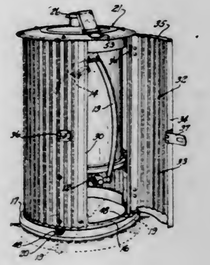
Apparatus for drying wire screen cloth having a coating containing volatile solvent, comprising: an elongated upstanding drying chamber open at the bottom and having upstanding opposite inner walls and two sets of air-circulation openings distributed substantially throughout the height and width of said opposite inner walls, said two sets of openings being adapted to permit air to be circulated from one set of openings transversely across the drying chamber and out through the other set of openings; feed means for passing said coated screen cloth between said sets of air-circulation openings and into and out of the open bottom of said drying chamber; air-circulating means including duct means and an air-pump, said air-circulating means leading from one of said sets of openings to the other of said sets of openings, and said air-pump being for recirculating air through said air-circulating means and drying chamber; flame-heating means exterior of said drying chamber and adapted to produce a flame in said duct means adapted to heat the air and burn solvent in said air passing therethrough, to heat said drying chamber and screen cloth therein; means for introducing air and fuel to said heating means; and means for discharging from the drying apparatus, an amount of said air and combustion products approximately equal to the amount of air and combustion products introduced into the air-circulating means adjacent said flame.

2,328,079
MEANS FOR PREVENTING ICE FORMATION ON AIRCRAFT WINGS
Jack Goodman, Chicago, Ill.
Application March 26, 1941, Serial No. 385,326
3 Claims. (Cl. 244—134)



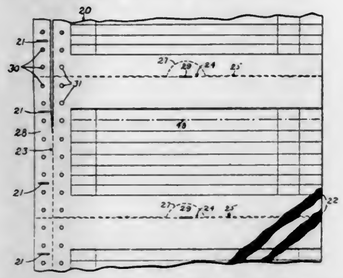
1. Means for inhibiting ice formation along the leading edge of an airplane wing which comprises, a boot covering the leading edge of the wing and extending from the body of the plane to the tip of the wing but spaced from the wing to provide a space for heated gases, means within the boot and extending lengthwise of the wing and having a plurality of gas outlets spaced from one another lengthwise of the wing for delivering hot gases into the space between the boot and the leading edge of the wing, and means within the boot dividing it into a plurality of separate compartments spaced from one another lengthwise of the wing and each compartment including a gas receiving inlet and a gas outlet.

2,328,080
STORAGE AND DISPENSING APPARATUS
Christian L. Hansen, Pewaukee, Wis.
Application October 27, 1941, Serial No. 416,681
5 Claims. (Cl. 221—67)



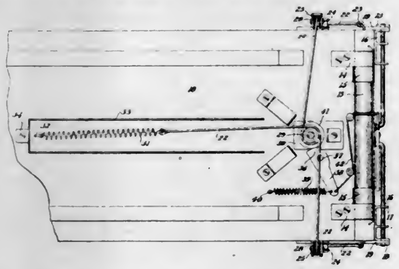
1. A bulk storage apparatus for liquid fuel comprising an inner metallic tank for containing liquid fuel, a metallic housing enclosing and surrounding the tank in spaced relation thereto and coacting therewith to provide a stack along and around the tank, a cowl at the upper end of the housing cooperating with the stack to provide for flow of air along and around the tank under the influence of convection currents, said tank being disposed in the housing with its lower end in spaced relation to the bottom thereof to provide a storage compartment for oil filling cans and the like, an outlet valve at the bottom of said tank, said valve having a nipple movable to a vertical position to close said valve, a flexible hose connected to said nipple for dispensing liquid from said tank, said housing having a door to provide for access to the compartment and for operative extension of said flexible hose, releasable fastening means for securing the door in closed position, said door when closed coacting with the flexible hose to retain the same in vertical position in the stack to maintain said nipple in vertical position and said valve closed.

2,328,081
MANIFOLDING STATIONERY
Arthur A. Johnson, Bridgeport, Conn., assignor to Autographic Register Company, Hoboken, N. J., a corporation of New Jersey
Original application August 7, 1941, Serial No. 405,846. Divided and this application November 28, 1941, Serial No. 420,783
10 Claims. (Cl. 282—11.5)



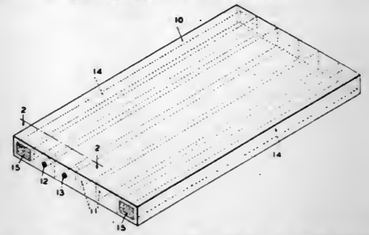
6. Manifolding stationery comprising a plurality of continuous superposed strips having transfer means interposed therebetween; a longitudinal severing line adjacent one margin thereof; means securing the superposed strips together along said margin, said strips having a longitudinal series of apertures adapted to engage positive strip-advancing means in the severable margin of the strips and a similar series of apertures on the other side of said severing line and adjacent thereto, adjacent apertures in the respective series being transversely aligned of the strip.

2,328,082
TAILGATE MECHANISM
Warren A. Lawrence, Hayesville, Ohio
Application September 8, 1941, Serial No. 409,928
3 Claims. (Cl. 296—57)



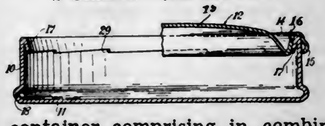
1. In combination with a vehicle body, a tailgate horizontally hinged at its lower end to the vehicle body and being substantially vertical in closed position, a pair of flexible members each connected at one end to the tailgate near the top thereof, pulleys on the sides of the vehicle body over which the flexible members are located, a pulley on the bottom of the vehicle body around which the flexible members are snubbed, a spring connected at one end to the other ends of the flexible members, the other end of the spring being connected to the bottom of the vehicle body, a friction brake associated with the bottom pulley for normally preventing movement of the tailgate, locking bars for locking the tailgate in closed position, and means associated with the locking bars for simultaneously releasing the locking bars and the friction brake.

2,328,083
MATTRESS OR THE LIKE
Thomas J. Lineback, St. Louis, Mo., assignor of one-fourth to Emil J. Morse, Clayton, Mo.
Application July 20, 1940, Serial No. 346,493
2 Claims. (Cl. 5—348)



2. In a mattress or the like, a substantially rectangular sheath of flexible material, said sheath being inelastic and impervious to the passage of air, a pair of collapsible tubes of air impervious material extending through said sheath adjacent parallel edges thereof, said tubes being open to the external atmosphere at their ends, partitions of air pervious material connecting the upper and lower walls of the sheath between the tubes and extending parallel therewith, a filling of air pervious spring material in the tubes, means for inflating the sheath, and a relief valve limiting the inflation of the sheath to a predetermined pressure.

2,328,084
CONTAINER
Sydney Charles Lomax and Harry Knightson, Barking, England
Application October 18, 1939, Serial No. 300,038
In Great Britain October 25, 1938
2 Claims. (Cl. 220—42)

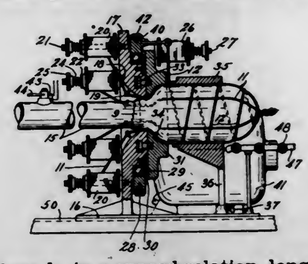


1. A container comprising in combination a body having an opening defined by a rolled-down edge and a lid having a tapered flange engaging said edge and a finger-grip, said edge and flange providing resilient coacting sealing surfaces and said edge being notched at its periphery to form pasages for escape of air from the body only during the insertion of the lid, and the angle of taper of said flange being such that upon application of the lid the initial contact between the opposing faces of said flange and rolled-down edge occurs along a line intersecting said passages.

2,328,085
APPLICATION OF CORDS TO FOOD PRODUCTS
Carlo Maccarini, Springfield, Mass.
Application December 12, 1941, Serial No. 422,723
10 Claims. (Cl. 17—1)

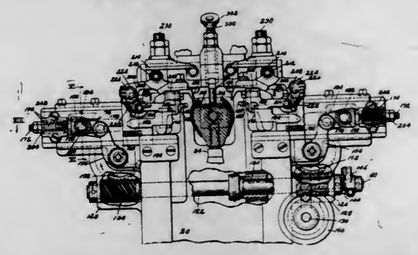
1. A device for applying cords to sausages and similar meat products which comprises a guideway to direct the sausage in a predetermined path of advance, means to guide a plurality of cords, in spaced relation, longitudinally along the sausage as it is moved along said guide-way, said guide-way including means to press the cords tightly against the sausage, and means to simultaneously wind a cord in a free spiral around the sausage and over the longitudinal cords.

9. The method of applying cords to sausages and similar meat products which comprises, connecting the ends of a plurality of cords together, arranging said cords radially about said point of connection, advancing the sausage endwise against the point of connection of the cords to



lay said cords, in a spaced relation, longitudinally of the sausage, and winding a cord in a free spiral around the sausage and over the longitudinally laid cords, said last-named cord being secured to the other cords only at their said point of connection.

2,328,086
INSEAM JOINT FORMING MACHINE
Lester S. Macdonald, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application August 30, 1941, Serial No. 408,935
41 Claims. (Cl. 12—51)

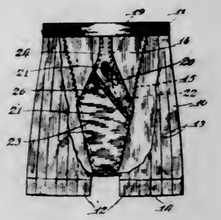


1. A machine for forming shoe bottom substance into upstanding flanges at opposite sides of a shoe bottom comprising oppositely disposed abutment members constructed and arranged to operate concomitantly on the outer surface of the shoe bottom substance at opposite sides of the shoe, means constructed and arranged to engage opposite sides of the shoe to determine the operative position of each abutment member widthwise of the shoe, and oppositely disposed flange formers operable to shape the shoe bottom substance against said abutment members by movement away from each other.

2,328,087
UNDERGARMENT
Dorothy L. McDonald, Evanston, Ill., assignor to Herman M. McDonald, Evanston, Ill.
Application September 30, 1939, Serial No. 297,267
5 Claims. (Cl. 128—159)

1. An undergarment adapted to sheathe the lower part of the human body comprising a main body portion having an opening in the front thereof extending from the crotch of the garment to the waist portion, a first sheet having substantially the same contour as the opening secured at its peripheral edges to the main body portion within said opening, said first sheet having a slot therein providing a fly opening for said

garment, a second sheet secured to said first sheet in a front portion of the garment providing a reinforced double thicknss fabric for the support area of said garment, and a covering strip



secured to the inside of said garment over said slot to provide a normally closed fly opening through which access may be had.

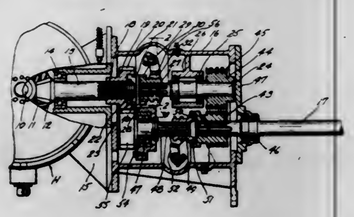
2,328,088

DRIVING MECHANISM FOR HOISTS

Robert B. Magee, Findlay, Ohio, assignor to The Buckeye Traction Ditcher Company, Findlay, Ohio, a corporation of Ohio

Original application December 24, 1940, Serial No. 371,507. Divided and this application July 13, 1942, Serial No. 450,739

4 Claims. (Cl. 74—477)



1. In a hoist driving mechanism having a pair of clutching members alternatively movable into operative driving relation, means to insure that one clutch member is in inoperative position before the other clutch member is actuated to operative position, said means comprising a pair of levers arranged in offset relation, each lever having a laterally projecting arm, a rod pivoted to the outer end of each arm, a frame member interposed between said levers and apertured to receive said rods respectively, each rod being disposed in substantially parallel relationship to the respective lever, an arcuate surface on the end portion of each lever over which the end portion of the rod of the other lever is adapted to ride, each lever being socketed to receive the end portion of the rod connected to the other lever so that when the latter is actuated to operative position, the respective rod locks the other lever against movement.

2,328,089

RECOVERY OF SOLUBLE LEAD SALTS FROM INSOLUBLE LEAD COMPOUNDS

John J. Mulligan, East Chicago, Ind., assignor to Lillian R. Birkenstein

Application September 14, 1940, Serial No. 356,885

9 Claims. (Cl. 260—436)

2. In a process for treating insoluble lead compounds containing lead peroxide, the step of treating the compounds with a solution of formic acid.

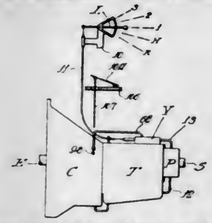
2,328,090

CLUTCH SYSTEM

Harold Nutt and Harold V. Reed, Chicago, Ill., assignors to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois

Application May 23, 1938, Serial No. 209,450

41 Claims. (Cl. 192—3.5)



2. In a clutch system for a motor vehicle having driving and driven mechanisms, and including a change-speed transmission having a driving range and a starting range, a clutch for operatively connecting said driving and driven mechanisms, including centrifugal weight mechanism for automatic operation of the clutch, said clutch being adjustable either to a position in which said centrifugal mechanism is operative to effect engagement and disengagment of the clutch in response to changes in rotational speed or a lockup position in which it remains in engaged condition irrespective of speed, and control mechanism including a fluid pump driven by said driving mechanism, adapted to cause said clutch to assume speed-responsive position when the transmission is adjusted to the starting range, and means for causing said clutch to assume lockup position when the transmission is adjusted to the driving range.

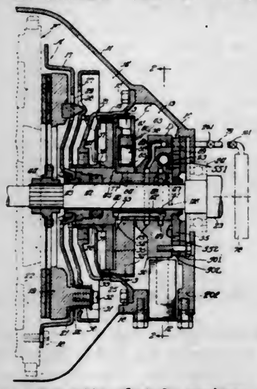
2,328,091

FLUID OPERATED CLUTCH

Harold Nutt, Chicago, and Richard L. Smirl, Bellwood, Ill., assignors to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois

Application September 30, 1938, Serial No. 232,664

43 Claims. (Cl. 192—3.5)



4. In an automatic clutch system for a motor vehicle including a change speed transmission having a starting range and a driving range, a fluid operated clutch, means for supplying fluid under pressure for operating the clutch, a control valve including a valve housing and a speed and rotational inertia responsive valve element arranged to open under pressure of the fluid acting on the clutch so as to limit such pressure in accordance with centrifugal force and rotational inertia developed in said valve element, and means, operative only when the transmission is adjusted to the driving range, to render said valve inoperative to limit said pressure.

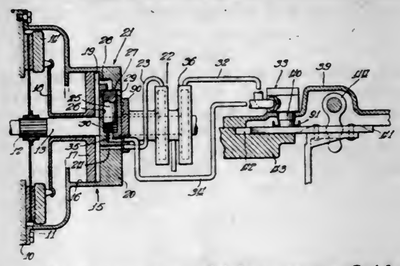
2,328,092

FLUID OPERATED CLUTCH

Harold Nutt, Chicago, and Richard L. Smirl, Bellwood, Ill., assignors to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois

Application April 19, 1939, Serial No. 268,850

5 Claims. (Cl. 192—3.5)



1. In an automotive vehicle pressure fluid system in combination with a transmission shift rail, having an opening therethrough, a valve cooperating with said rail, said valve including a chamber having an open end adapted to be closed by said rail when the latter is in one position of adjustment, and to be opened by the registering therewith of said opening in the rail when the latter is in another position of adjustment.

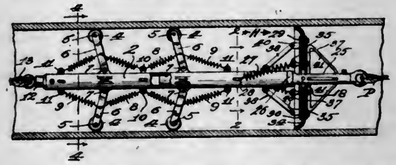
2,328,093

KITE-TYPE SEWER WASHER

William D. Osborn and Hubert R. Crane, Los Angeles, Calif.

Application June 15, 1942, Serial No. 447,192

1 Claim. (Cl. 15—104.30)



A kite type sewer washer including a tubular, elongate, rear, body member having a pull back device on its rear end, a fore end body member having a stem slidable axially in the said rear member and having a pulling hitch, a pair of semi-discs forming a piston and foldably connected by a pivot device mounted diametrically on said fore member and about which the semi-discs fold in one direction as said members axially shift relatively, rigid braces pivoted at their outer ends to outer portions of said semi-discs and pivoted at their rear and inner ends to the rear body, and a set of tensioned springs connected to the rear member and to said semi-discs to concurrently contract the body members and to pull the semi-discs into a common, piston forming plane; said members having mutual position limiting stops.

2,328,094

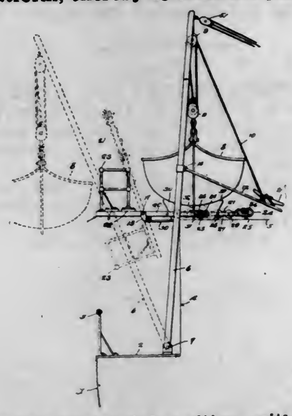
BOAT PLATFORM FOR VESSELS

Albert C. Perry, Toledo, Ohio

Application May 10, 1943, Serial No. 486,366

6 Claims. (Cl. 9—22)

1. In a device for rendering the outboard side of a boat accessible when the boat is in inboard position on a vessel, a platform, means for pivotally assembling the platform, intermediate its inboard and outboard edges, with the vessel, for vertical swinging movement, and means for lowering the boat until it rests on the inner portion of the platform, thereby to hold the platform in



approximately horizontal position, with the outboard portion of the platform disposed outboard of the boat, and in accessible relation thereto, and for raising the boat to cause the outboard portion of the platform to swing downwardly as the boat is carried outwardly.

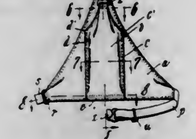
2,328,095

BATTERY HOLDER

Mary C. Phillips, Malden, Mass.

Application November 14, 1941, Serial No. 419,140

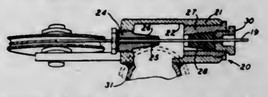
2 Claims. (Cl. 224—5)



2. A holder for supporting on the person the battery of an aid to hearing apparatus, comprising a backing piece of flexible fabric, a front piece secured at side and bottom edges centrally to the backing piece, and being of greater width than the distance between the lines at which its side edges are secured to the backing piece to provide a pocket with sufficient fullness to contain such a battery, the base of the backing piece extending at both sides beyond the bottom of said pocket, and its upper extremity extending above the top of the pocket, and the backing piece being of triangular outline with side edges converging from the lower corners to a central apex at its top, a strap connected to one of said base corners having a coupling member at its end, a complemental coupling member connected to the other of said base corners, said backing member, strap and coupling members cooperating to surround a leg of the user of the container and to hold the container close against such leg, a suspender fastened to the apex of the backing member and extending upwardly therefrom,

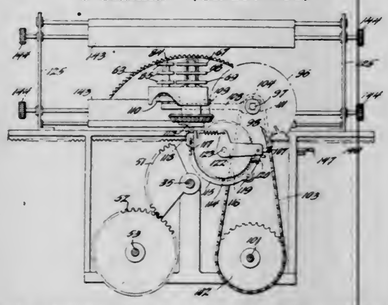
means connected with the upper extremity of the suspender for attachment to a portion of the clothing of the user, and means for coupling the upper extremity of the front member to said suspender when a battery is contained in the pocket, constructed and arranged to transmit to the suspender the tension created in the front member by the weight of the battery.

2,328,096
METHOD OF TREATING STRANDS
Frederick R. Reevely, St. Lambert, Quebec, Canada, assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Original application May 21, 1938, Serial No. 209,395. Divided and this application November 18, 1939, Serial No. 305,079
8 Claims. (Cl. 117—102)



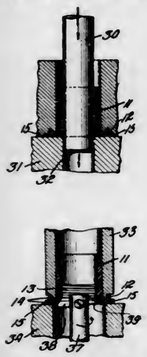
2. A process of applying on an electrical conductor strand a coating of predetermined thickness of a coating material in a highly viscous plastic form, which process comprises steps of passing a strand to be coated through a body of the coating material, exerting pressure upon the body of coating material to thereby form an excessive coating of the material on the strand, and wiping the excessively coated strand with a wiping pressure generated by the pressure on the body of coating material to be variable with variations of the pressure on the material.

2,328,097
DISPLAY PRINTING MACHINE
Roswell S. Reid, deceased, late of Morgantown, W. Va., by Effie Roberts Reid, executrix, Morgantown, W. Va., assignor to West Virginia Newspaper Publishing Company, Morgantown, W. Va., a corporation of West Virginia
Original application April 29, 1938, Serial No. 205,088. Divided and this application December 30, 1941, Serial No. 425,005
9 Claims. (Cl. 197—84)



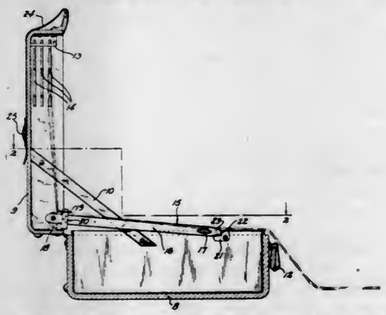
3. A typewriter comprising the combination with a carriage, means tending to advance the carriage, keys, and type of various widths, of mechanism for releasing the carriage after printing of a letter and thereafter stopping the same after it has travelled a distance corresponding to the width of the letter printed, said mechanism including a carriage operated escapement ratchet wheel, a pawl normally engaging the ratchet wheel, means for releasing said pawl, means for moving the pawl, when released, about the periphery of the ratchet, a variable stop means separate from said pawl releasing means for both limiting the movement of the pawl when released and causing the pawl to re-engage the ratchet, said variable stop means comprising a rotary disc member provided with a plurality of slots about its periphery, each slot being of a depth proportionate to the width of a given type character, said pawl provided with a projection adapted to enter a selected one of said slots and move to the bottom thereof, and key actuated means for automatically rotating said disc an amount necessary to bring the opening of a slot of a depth corresponding to the width of a character represented by said key, in front of the pawl projection.

2,328,098
METHOD OF MAKING LEAD ARTICLES
Frederic Remington, Elizabeth, and Richard A. Tartaglia, East Orange, N. J., assignors to Peerless Tube Company, Bloomfield, N. J., a corporation of New Jersey
Application June 27, 1941, Serial No. 400,054
2 Claims. (Cl. 29—148.2)



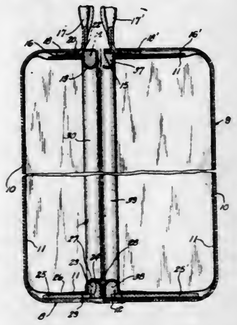
1. The method of producing a tubular lead article having an internal thread extending inwardly from one end thereof, which comprises extruding a lead slug to form a hollow member which has one end closed by a web and also has an internal thread one end of which terminates in said web, removing said web, and reaming out the opening so formed to expose the end of said thread so that an exteriorly threaded element can be screwed into said tubular article.

2,328,099
WARDROBE CASE COVER STAY DEVICE
Julius Ritter, Jr., Racine, Wis., assignor to Hartmann Trunk Company, Racine, Wis., a corporation of Wisconsin
Application September 26, 1942, Serial No. 459,853
2 Claims. (Cl. 190—41)



1. In a hand luggage case including a body section and a cover section hingedly connected to the body section, limiting means preventing the cover from moving rearwardly from its open position, but ineffectual upon closing movement of the cover, a garment frame having one end portion pivotally mounted within the inner end portion of said cover section and swingable from within the cover section to a position flatly overlying a portion of the body section, and notched stops carried by the body section and adapted to releasably receive the free end of the frame to hold the frame against forward and downward movement whereby the frame acts as a prop for holding the cover section under the action of its limiting means when the cover is open.

2,328,100
HAND LUGGAGE CONSTRUCTION
Julius Ritter, Jr., Racine, Wis., assignor to Hartmann Trunk Company, Racine, Wis., a corporation of Wisconsin
Application October 22, 1942, Serial No. 462,969
3 Claims. (Cl. 190—41)

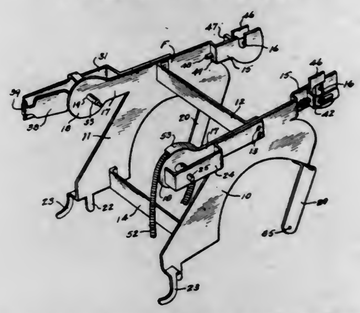


1. In a hand luggage case, an enclosing wall formed with an outer covering of leather and an inner fabric lining, a rigid wooden rail extending along an outer longitudinal edge of said wall projecting perpendicularly of a face of said wall and having a rounded surface portion, a flexible sheathing embracing the rail and having end portions secured between the outer covering and the lining, an inner portion of said rail being formed with a longitudinal rabbet, and a wooden reenforcing panel of less width than said wall interposed between the end portions of the sheathing and between portions of the covering and lining and having the longitudinal edge secured within said rail rabbet.

2,328,101
METHOD OF PROVIDING ADHERENT METAL COATINGS ON SURFACES
Edgar F. Rosenblatt, East Orange, N. J., assignor to Baker & Company, Inc., Newark, N. J., a corporation of New Jersey
No Drawing. Continuation of application June 17, 1939, Serial No. 279,677. This application January 28, 1941, Serial No. 376,335
12 Claims. (Cl. 117—65)

1. The method of depositing ruthenium on surfaces comprising providing a coating composition containing a ruthenium compound dissolved in a liquid medium, distributing said coating composition over the surface and decomposing the ruthenium compound by heating under reducing conditions to form a coating of metallic ruthenium.

2,328,102
ATTACHMENT FOR RIBBON MACHINES
Leo A. Schmitt, Washington, D. C.
Application December 9, 1942, Serial No. 468,417
9 Claims. (Cl. 164—89)



1. In an attachment of the character described, a frame having a pair of spaced apart side sections, each of the said side sections having an attaching claw at the lower front end and a supporting boss at the lower rear end, a pair of complementary shaft supporting bearings at the upper rear end of the frame, and a pair of transversely opposed winding spool supporting spindles mounted at the front upper part of the frame.

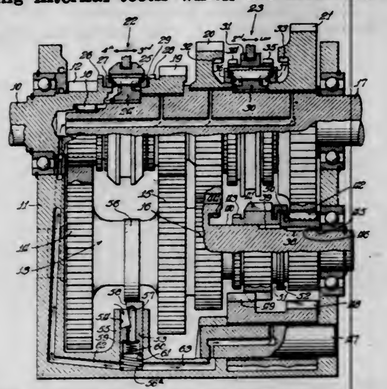
2,328,103
CATALYTIC CONVERSION OF PETROLEUM HYDROCARBONS
Melvin J. See and James C. Bailie, Chicago, Ill., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana
No Drawing. Application December 18, 1939, Serial No. 309,920
2 Claims. (Cl. 196—52)

1. The process of converting heavy hydrocarbon oils into gasoline comprising subjecting the vapors from said oils at a conversion temperature of about 700 to 1100° F. to the action of a solid conversion catalyst prepared by immersing silica gel in an acid solution of a soluble salt of vanadium, maintaining said silica gel in contact with said solution until a definite increase in the hydrogen ion concentration results from the adsorbolytic reaction between said gel and said vanadium salt while avoiding the precipitation of vanadium in insoluble form, thereafter separating said gel from said solution and drying it to produce the desired catalyst.

2,328,104
TRANSMISSION
John M. Simpson, Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application March 30, 1942, Serial No. 436,819
9 Claims. (Cl. 74—333)

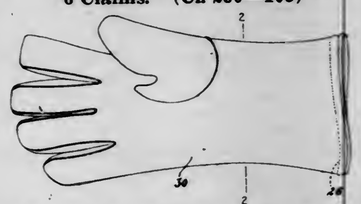
1. A transmission comprising driving and driven shafts, a countershaft, gears on the driving and driven shafts, means for connecting said gear to the driven shaft in driving relation thereto, said countershaft being in the form of a cluster gear having gears in mesh with the gears on the driving and driven shafts, a plurality of adjacent cylindrical sections on the cluster gear, said cylindrical sections being of different diameters, a gear slidably mounted on the section of largest diameter, a gear slidably mounted on the adjacent and next smaller diameter section, and splines on a portion of the third section, said

gear slidably mounted on the adjacent section having internal teeth which are meshable with



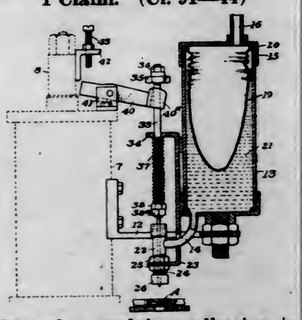
the splines on the third section to form a driving connection therewith.

2,328,105
X-RAY SHIELD
Louis J. Strobino, Bethel, Conn.
Application December 28, 1940, Serial No. 372,160
6 Claims. (Cl. 250—108)



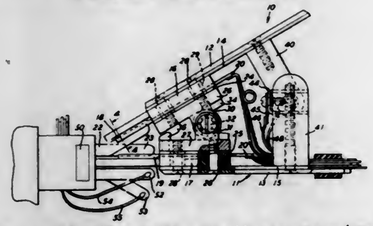
1. A flexible shield against X-rays and other rays of the class described, comprising a sheet of material which inherently is porous, flexible, and penetrable by said rays, combined with a substance which is of a nature opaque to the said rays and is insoluble in water; said substance being in finely divided condition dispersed in pores of the said material.

2,328,106
VISCOUS LIQUID DISPENSER
William J. Strong, Wheeling, W. Va., assignor to Wheeling Stamping Company, Wheeling, W. Va., a corporation of West Virginia
Application January 11, 1940, Serial No. 313,411
1 Claim. (Cl. 91—44)



A machine for applying adhesive to the interior of caps for bottles and the like comprising a nozzle for squirting a small amount of adhesive into each cap in succession, means for moving the caps in abutting succession under the nozzle, a valve for the nozzle operated in timed relation to the movement of the caps, a closed reservoir for adhesive connected to the nozzle, and an expandible air bag in the reservoir connected with the source of air at a pressure for maintaining pressure on the adhesive whereby the adhesive is expelled from the nozzle under pressure in regulated amounts without spattering adjacent caps.

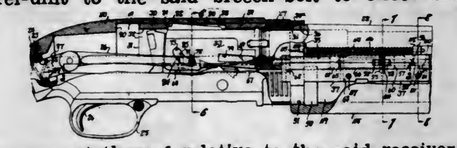
2,328,107
ELECTRICAL CONNECTING AND CONDITIONING APPARATUS
John H. Sulzer, Westfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Original application April 9, 1940, Serial No. 328,644. Divided and this application September 28, 1940, Serial No. 358,812
1 Claim. (Cl. 175—183)



The combination with a testing apparatus having a starting circuit and a resetting circuit to respectively start the apparatus to test an electrical unit and to reset the apparatus to condition it to test another electrical unit, of an electrical connecting and conditioning apparatus comprising a clamp having elements electrically connected to the testing apparatus and movable relative to each other from a normal substantially closed position to an open position and back to a clamping position to electrically connect an electrical unit to the testing apparatus, switch members mounted on the clamp for movement into and out of engagement with each other at definite relative positions of the elements during relative movement of the elements, a contact movable to alternately close the said circuits in a given order and to alternately open the said circuits in the reverse order, and a relay circuit, including a relay adapted to actuate the said contact, controlled by the switch members during their movements into and out of engagement with each other during their relative movements with the elements to cause the contact to close the resetting circuit when the elements have been moved into their normal position and open position and to cause the contacts to close the starting circuit when the elements have been moved into their clamping position.

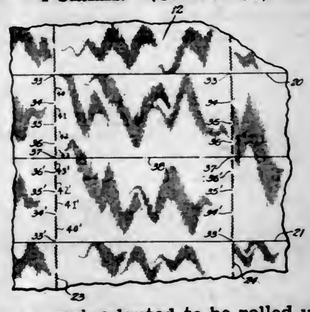
2,328,108
RECOIL-OPERATED SELF-LOADING FIREARM
Carl G. Swebilius, Hamden, Conn., assignor to Western Cartridge Company, New Haven, Conn., a corporation of Delaware
Application July 30, 1940, Serial No. 348,511
8 Claims. (Cl. 42—4)

1. A recoil-operated self-loading firearm including in combination: a receiver-unit; a barrel-unit projecting forwardly from the said receiver-unit and movable with respect thereto under the forces developed by the discharge of a cartridge; a tubular-magazine also extending forwardly from the said receiver-unit and in substantial parallelism with and beneath the said barrel-unit; a breech-bolt within the said receiver-unit and movable with respect to the same and with respect to the said barrel-unit; and bolt-actuating means constructed and arranged to transmit the recoil movement of the said barrel-unit to the said breech-bolt to effect the



movement thereof relative to the said receiver-unit and the said barrel-unit, the said bolt-actuating means including a transmitting-lever located vertically intermediate the said barrel-unit and the said tubular-magazine and pivoted to the said receiver-unit at a point forwardly of the forward end of the said breech-bolt, a portion of the said transmitting-lever being positioned to be engaged by the said barrel-unit when the same recoils upon the discharge of a cartridge.

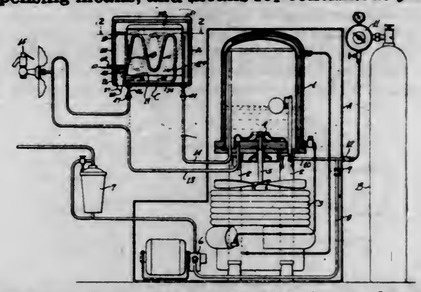
2,328,109
DIVISIBLE PAPER WEB
Oscar T. Thompson, Neenah, Wis., assignor to International Cellucotton Products Company, Chicago, Ill., a corporation of Delaware
Application May 16, 1940, Serial No. 335,543
4 Claims. (Cl. 206—58)



1. A paper web adapted to be rolled up and to be used by tearing off short pieces from the free outer end of the roll, each pair of adjacent short pieces being separated by a plurality of spaced apart cuts extending in a line from edge to edge across the web at substantially right angles to the length of the web and marking off the short pieces into which the web is adapted to be torn, the ends of the cuts being separated by narrow uncut parts, said uncut parts in each of said lines of cuts being symmetrically disposed on opposite sides of the center line of the web, and the uncut parts in each line being progressively narrower from said center line towards each edge.

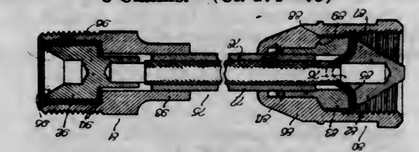
2,328,110
BEVERAGE DISPENSING APPARATUS
Parke H. Thompson, Glendale, and Arthur R. Peat, Webster Groves, Mo., assignors to AMP Corporation, St. Louis, Mo., a corporation of Missouri
Application March 14, 1941, Serial No. 383,256
9 Claims. (Cl. 225—21)

1. A beverage dispensing system comprising means for carbonating and refrigerating a liquid, dispensing means, and means for continuously re-



circulating the carbonated liquid between the carbonating-refrigerating means and the dispensing means.

2,328,111
LEAD EXTENSION
John H. Thornbery, Milwaukee, Wis., assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis., a corporation of Wisconsin
Application August 21, 1939, Serial No. 291,131
8 Claims. (Cl. 174—75)

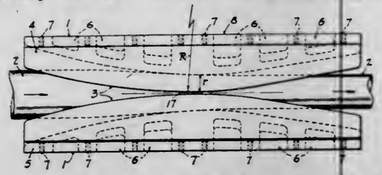


1. In connector means adapted for connecting by two conductor leads the terminals of a thermoelectric generator to the terminals of an electromagnet coil of a burner safety control device so as to provide a circuit of minimum resistance to the flow of the thermoelectric current, in combination, terminal means comprising a metallic terminal sleeve, a metallic terminal stud fitting in said sleeve, a lead extension comprising an outer tubular conductor, an inner conductor disposed within said outer conductor and insulated therefrom, terminal means on said inner conductor, a connector nut adapted for quick detachable screw connection with said metallic terminal sleeve and adapted when connected to said sleeve to complete one side of an electric circuit through said outer tubular conductor, said connector nut and said terminal sleeve and, by said screwing action, to clamp the terminal means on said inner conductor in pressure contact with the metallic terminal stud for completion of the other side of the electric circuit through said inner conductor and said terminal stud, an outwardly extending generally radial internal shoulder in said outer terminal sleeve, an outwardly extending generally radial external shoulder on said terminal stud for cooperation with said last mentioned shoulder longitudinally to position and to maintain the longitudinal position of said stud in said sleeve, and insulation between said shoulders.

2,328,112
DIE FOR TUBE REDUCING
Julius B. Tiedemann, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application January 28, 1941, Serial No. 376,347
5 Claims. (Cl. 80—14)

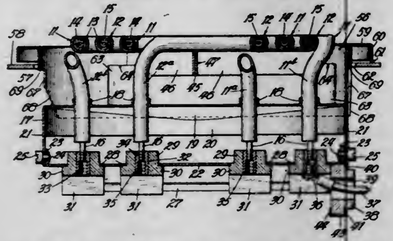
1. A die for reducing the diameter of a tube in a swaging machine of the kind in which the tube

is rotated on its axis through substantially one quarter of a turn and fed forward to the machine between successive strokes of the dies, said die having a working surface defining an opening tapering longitudinally of the die, the section of the opening transverse to the tube axis being substantially half an oval with the minor axis of the



oval in the direction of die closure on the tube, and with the minor axis of the oval at any longitudinal position on the die equal to the major axis of the oval at a position nearer the small end of the tapered opening by an amount not less than the feed imparted to the tube between strokes of the dies.

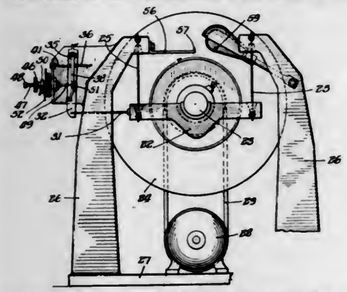
2,328,113
HEATING UNIT ASSEMBLY
William R. Tuttle, Riverside, and Fred J. Ewald, Elmhurst, Ill., assignors to Tuttle & Kift, Inc., Chicago, Ill., a corporation of Illinois
Application September 3, 1938, Serial No. 228,436
6 Claims. (Cl. 219—37)



3. In a heating device of the class described, a ring adapted to be supported in a range top opening, a relatively flat electrical heater within said ring and normally positioned at the mouth thereof, means on said ring to support said heater in said normal position but permitting displacement of the heater to an elevated position above the mouth of said ring with the under side of the heater exposed for access thereto, a stop to limit the extent of displacement of said heater, guide means for constantly maintaining the heater in axial alignment with said ring, and means for temporarily supporting said heater in said elevated position above and in axial alignment with said ring.

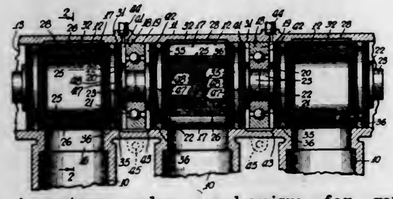
2,328,114
VIBRATION AMPLITUDE AND CENTER OF OSCILLATION INDICATOR
Ira A. Weaver and Clyde H. Phelps, Springfield, Ill., assignors to Weaver Manufacturing Company, Springfield, Ill., a corporation of Illinois
Application January 5, 1942, Serial No. 425,612
5 Claims. (Cl. 73—53)

1. In an appliance, for use with a balance-testing machine including means to support the body to be tested in a manner permitting its rotation about its axis and having freedom of movement in both lateral and longitudinal horizontal directions by reason of its unbalance, and means to rotate said body about its axis, said appliance having index-means including an electric light-flash means, an electric-circuit adapted to be supplied with electric-current and including said light-flash means, electric-switch means in said circuit, and means actuated by the vibration of said rotating body operating said electric-switch means and thereby governing said light-flashes, the novel combination of features being that said electric-switch means comprises two electric-switches in series relation in said circuit, in combination with (*a*) means to adjust the action of said switches so that when the rotating body passes its center-of-oscillation in one direction,



one said switch closes said circuit and the second switch immediately opens the circuit, such action producing a light-flash, and when the body passes said center-of-oscillation in the opposite direction, said second switch closes said circuit and said first switch immediately opens the circuit, said action producing a light-flash at 180° difference in rotation of the body from said first flash, (*b*) means to eliminate one set of said light-flashes, and (c) a pointer adapted to cooperate with said index-means, said pointer and said index-means being adjustable relatively to one another.

2,328,115
ROTARY VALVE
Rudolph Wehr, Baptistown, N. J.
Application October 12, 1940, Serial No. 360,863
8 Claims. (Cl. 123—190)



1. A rotary valve mechanism for multi-cylinder, internal combustion engines including a valve casing member having a plurality of axially spaced sets of peripherally spaced ports, one set for each cylinder of the engine and each set including an inlet port, an exhaust port and a cylinder port, a rotary valve member in said chamber and including a plurality of sections, one section for each set of ports and each section having a passage for interconnecting the corresponding cylinder port with the inlet and outlet ports alternately, a plurality of bearings in said casing for supporting and centering said valve member independently of any contact of the valve sections with the casing, each bearing being disposed between two adjacent valve sections for supporting the latter, whereby flexing of said valve member by pressure exerted thereon through said cylinder ports is prevented and the sections between said bearings maintained in fixed spacing in respect to the valve casing

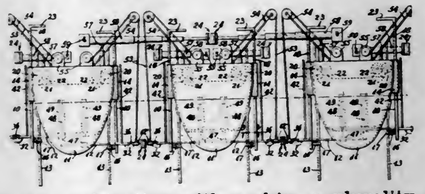
except for the changes due to expansion and contraction of the parts, the surface of one of said members having small closely spaced longitudinal serrations for retarding lateral flow of gas from said cylinder port between said members, and the outer parts of said serration being adapted to be worn into conforming substantially gas- tight seating contact with the opposed surface of the other member at opposite sides of said cylinder port and to provide faces of substantially less width than that of the grooves between said serrations.

2,328,116
FOUNTAIN PEN
Norman E. Weigel, Short Hills, N. J., assignor to E. O. Weigel & Sons, Newark, N. J., a firm composed of Norman E. Weigel, Ernest Weigel, and Louis J. Weigel
Application September 23, 1942, Serial No. 459,363
2 Claims. (Cl. 120—52)



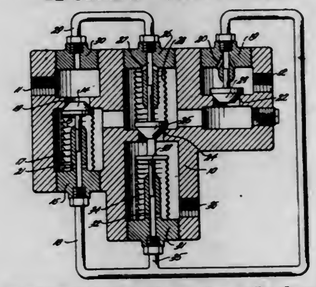
1. A fountain pen including a barrel having an ink reservoir, and a nib-holding and ink-feeding unit comprising a body part secured in one end of said barrel and having an opening therethrough communicating with said reservoir, an ink feed bar fitted in said opening, a pen nib secured between the walls of said opening and said feed bar and having a writing point with a longitudinal slit, there being an ink feed channel leading from said reservoir to said slit, and said body part having a portion in overlying contact with said writing point and provided with an opening to receive and hold ink from said slit.

2,328,117
SUPPORT DEVICE FOR SINKING SHIPS
Arnold Zukor, Bronx, N. Y.
Application May 18, 1942, Serial No. 443,451
12 Claims. (Cl. 114—235)



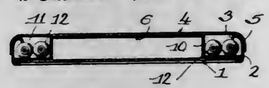
1. In combination with a ship, a plurality of vertical bars slidably mounted on the outer sides of said ship, a plurality of horizontal racks horizontally slidably mounted on bottom portions of said vertical bars, stationary vertical racks on the outer sides of said ship, gears rotatively mounted on said slidable vertical bars and meshing with said vertical and horizontal racks for extending and retracting said horizontal racks as said bars move downwards and upwards respectively, means for moving said vertical bars upwards and downwards, couplings on the outer ends of said horizontal racks for connection with complementary couplings on another ship, glass housings for divers to observe said couplings below the surface of the sea, means for extending and retracting said couplings operable from said glass housings, means for steadying said horizontal racks, vertical hydraulically operated supports on said ship, horizontal hydraulically operated bridges on said vertical supports, and couplings on the extended ends of said bridges for connecting with complementary couplings of another ship.

2,328,118
MEANS FOR PREVENTING REVERSE FLOW FROM BRANCH LINES TO SUPPLY MAINS
Brodie E. Ahlport, Los Angeles, Calif.
Application December 9, 1940, Serial No. 369,220
11 Claims. (Cl. 277—70)



1. A device of the class described comprising a body having an inlet and an outlet, two check valves arranged in series in the body between the inlet and outlet, a drain outlet between the check valves, a drain valve normally closing the drain outlet, pressure responsive means subject to pressure in the inlet ahead of the check valve therein urging the drain valve to close, and pressure responsive means subject to pressure in the outlet behind the check valve therein urging the drain valve to open, said pressure responsive means being so constructed and arranged that when the pressure in the outlet exceeds the pressure in the inlet the drain valve will be opened.

2,328,119
DISPLAY CONTAINER
Paul E. Allen, Niles Center, Ill.
Application September 26, 1940, Serial No. 358,446
2 Claims. (Cl. 206—78)

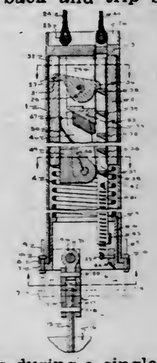


1. A container for receiving and displaying an article therethrough such as a teething necklace, string of beads or the like, comprising a base having a transparent side wall with its upper end turned inwardly and downwardly to provide a downwardly projecting edge, an insert adapted to be placed in said base and having an enlarged, elevated central portion and outwardly radiating projections extending toward the side wall of the base and upon which the article is placed, and a transparent closure adapted to cover the base and insert and engaging and supported upon said elevated central portion and upper end of said side wall, the periphery of said elevated central portion being spaced a distance from the side wall of the base just sufficient to conformably receive the article and with the downwardly projecting edge on the side wall engaging the upper surface of said article to maintain it in assembled, display relation in said container.

2,328,120
PILE RAISING STRUCTURE
Leon W. Atwater, Williamston, Mich.
Application February 17, 1940, Serial No. 319,400
30 Claims. (Cl. 61—73)

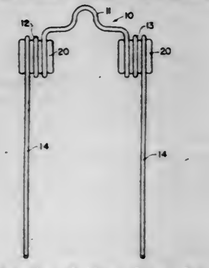
1. In a hammering device, a hammer, resilient

means for driving said hammer, means for moving said hammer back against said resilient means and tripping it a plurality of times in succession, a cyclically operating longitudinally stepped member for actuating said second named means to move back and trip said hammer a



plurality of times during a single cycle of movement of said stepped member, tension means for operatively moving said stepped member in one direction, and resilient means for returning said stepped member to its initial position.

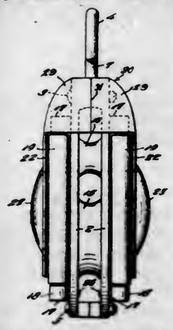
2,328,121
TOOTH MOUNTING
Michael Bartek, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application April 26, 1940, Serial No. 331,783
11 Claims. (Cl. 56—400)



1. A spring tooth of the class described comprising a metallic crop engaging tine, a supporting shank therefor, and a rubber damper attached solely to the tooth between said shank and said tine for damping oscillatory movement between said tine and said shank.

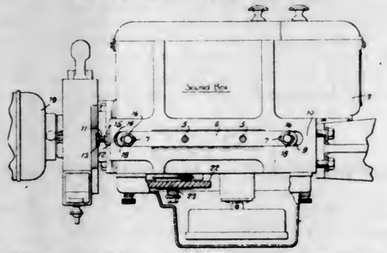
2,328,122
TACKLE BLOCK
Joseph Bertirotti, New Orleans, La.
Application June 15, 1942, Serial No. 447,114
In Cuba October 7, 1941
1 Claim. (Cl. 254—197)

A block of the character described comprising a housing including a pair of spaced, opposed plates, sheaves journaled between said plates, bars mounted on the plates and projecting beyond certain of the edges thereof, bearings on the outer ends of said bars, elongated rollers adjacent said certain edges of the plates and including trunnions on their ends journaled in the bearings, guards for said rollers including base portions engaged with the plates, complemental hood sections on one end of the guards enclosing the corresponding end portions of the plates and the adjacent bearings, balancing rockers comprising elongated domes including marginal flanges engaged with the bars and with the base portions



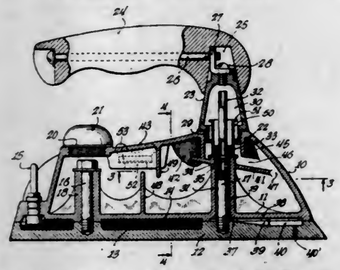
of the guards, bolts securing said bars and certain of the flanges to the plates, and bolts securing the other flanges and the base portions of the guards to said plates.

2,328,123
ADJUSTING MECHANISM FOR GEARS
Willy Borberg, Astoria, Long Island, N. Y., assignor to International Projector Corporation, New York, N. Y., a corporation of Delaware
Application May 22, 1940, Serial No. 336,606
10 Claims. (Cl. 88—16.2)



9. Apparatus for securing a sound head and picture projector together comprising a member adapted to fit between the projector and sound head, means for securing the projector rigidly to said member, means for maintaining the member in alignment with the sound head, means for adjusting the member longitudinally in relation to the sound head and means for rigidly securing the member to the sound head.

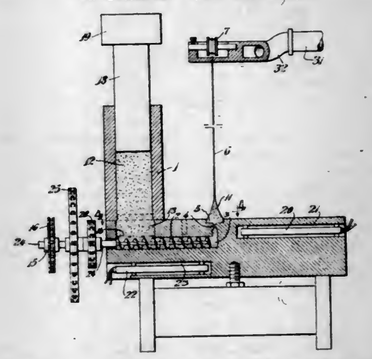
2,328,124
STEAM GENERATING ELECTRIC IRON
Harry E. Bremer, Milwaukee, Wis.
Application August 23, 1939, Serial No. 291,489
7 Claims. (Cl. 38—77)



4. In a steam generating electric flat iron the

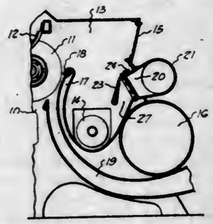
combination of a hollow body portion closed to form a liquid reservoir and steam generating chamber, means forming a steam collecting chamber having an inlet disposed in the top of said generating chamber adjacent one end thereof, steam discharge means communicating with said collecting chamber, and a system of baffles for preventing surging of liquid into said steam collecting chamber, said system including a substantially horizontal baffle spaced below the top of said body portion and spanning said inlet, said baffle being inclined downwardly toward the adjacent end of said body portion and having an opening at the lower end thereof, and a substantially vertical V-shaped baffle disposed between the opposite end of said first named baffle and the top of said body portion and substantially closing the opening therebetween, said vertical baffle having wings diverging away from the end of said body portion adjacent said first named baffle.

2,328,125
METHOD FOR MAKING FILAMENTS
Herbert Buchsbaum and Leonard Becker, Chicago, Ill., assignors to S. Buchsbaum & Company, Chicago, Ill., a corporation of Illinois
Application February 17, 1940, Serial No. 319,458
4 Claims. (Cl. 18—54)



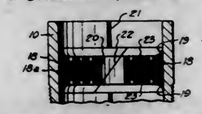
1. The method of making a textile filament which comprises heating a mixture of vinyl resin and a plasticizer to form a molten composition, feeding a portion of said molten composition through an orifice to a supply container having a cross sectional area substantially greater than that of said orifice, and drawing a filament from said molten mass in said supply container without first forming a filament while feeding molten composition to said supply container.

2,328,126
PNEUMATIC MOTE CONTROL
Charles R. Carr, Dallas, Tex., and Dewey D. Day, Memphis, Tenn.
Application June 20, 1941, Serial No. 398,864
9 Claims. (Cl. 19—58)



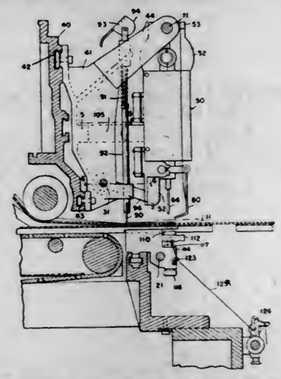
1. The combination with the mote chamber of a cotton gin which chamber is provided with an opening in the lower portion of its rear wall below the moting zone, of a suction duct connected to the opening for setting up an air current within said chamber, whereby the light-weight motes and other extraneous matter may be withdrawn from said chamber, a longitudinal deflecting element within the chamber overlying said opening and spaced from the rear wall of said chamber to form an inlet through which air is drawn from the chamber into the duct, and a partition disposed between the deflecting element and duct having openings for establishing communication between said chamber and said duct.

2,328,127
SUCKER ROD STRIPPER
Charles S. Crickmer, Dallas, Tex.
Application May 2, 1941, Serial No. 391,457
4 Claims. (Cl. 286—16)



1. A stripping device for a well rod including, a housing composed of semi-cylindrical sections, and flexible means bonded to the internal wall of each section and co-acting with each other for engaging and surrounding the rod, the flexible means projecting beyond the internal wall of its section and being bonded to the vertical edges thereof so as to provide a sealing means between the edges of the sections when the same are placed together.

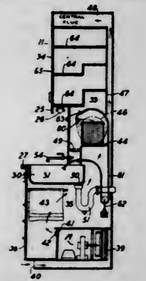
2,328,128
SEWING MECHANISM
Clarence J. Davies, Detroit, Mich., assignor to National Automotive Fibres, Inc., Detroit, Mich., a corporation of Delaware
Application June 17, 1940, Serial No. 341,048
20 Claims. (Cl. 112—198)



1. In a sewing machine having a reciprocating hooked sewing needle adapted to penetrate a fabric, pick up a loop of thread, and draw said loop through said fabric: loop-forming means cooperating with said needle and comprising a rotary shaft, a forming cam on said shaft, a thread guide member substantially engaging both said shaft and said cam, said member having a continuous groove cooperating with said shaft and cam to form therewith a thread guide passage, said cam having a spirally formed portion terminating in an arm spaced from the body of said

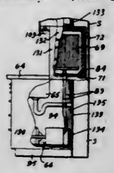
cam, a shallow notch adjacent the free end of said arm, and means for imparting continuous, unidirectional rotation to said forming cam.

2,328,129
DRIER ARRANGEMENT
Guyon L. C. Earle, Forest Hills, N. Y., assignor to Genevieve M. Earle, Forest Hills, N. Y.
Application January 18, 1940, Serial No. 314,402
5 Claims. (Cl. 34—197)



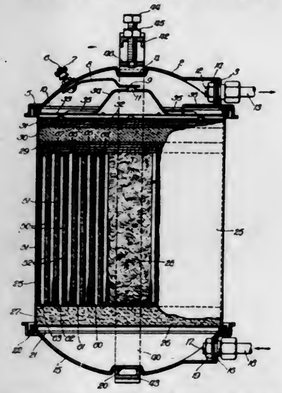
1. A combination for drying dishes and similar articles comprising a compartment having walls, racks for dishes and similar articles positioned within said walls, said compartment having openings in the upper and lower portions thereof, respectively, to permit the passage of air through said compartment and an opening in a wall thereof to permit articles to be placed on the racks in said compartment and be removed therefrom, a closure member for the opening in said wall, means defining a drainage path for conducting drain water from said compartment, a mechanical refrigerator having a condenser which gives off heat, said condenser being positioned at a lower level than the opening in the lower portion of said compartment, and means including said condenser for producing an upwardly moving current of heated air which passes into said compartment through the opening in the lower portion thereof and out of said compartment through the opening in the upper portion thereof.

2,328,130
METHOD OF ASSEMBLING MECHANICAL REFRIGERATORS
Guyon L. C. Earle, Forest Hills, N. Y., assignor to Genevieve M. Earle, Forest Hills, N. Y.
Application February 10, 1940, Serial No. 318,224
3 Claims. (Cl. 62—89)



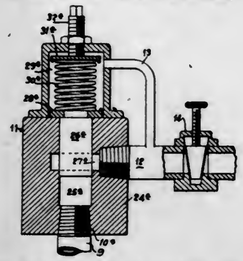
1. The method of assembling at the site where it is to be used a mechanical refrigerator including a relatively deep lower portion having an opening in the upper part thereof, a relatively narrow upper portion having an opening in the lower part thereof of substantially the same size as the opening in said lower portion, and a sealed refrigerating unit including an evaporator unit, a liquefying unit and tubes for the flow of refrigerant between these units, without disassembling the tube connections between the evaporator and liquefying units, which comprises placing and securing within said upper portion said evaporator unit, positioning said liquefying unit outside of both of said portions of the refrigerator, placing the upper portion on the lower portion in such a way that the two openings coincide and the said tubes pass between said two portions, and securing said upper portion to said lower portion.

2,328,131
OIL FILTER
Henry G. Eisler, Wilmette, Ill.
Application December 5, 1938, Serial No. 243,937
12 Claims. (Cl. 177—311)



1. In combination, a filter cartridge having a perforated bottom, means for connecting an oil pressure line with the bottom of said cartridge, a closure member having a restricted orifice at the top of said cartridge for the exit of oil therefrom, a signal, and means in the path of the flow of oil through said orifice and actuated by the energy of the oil stream for controlling said signal.

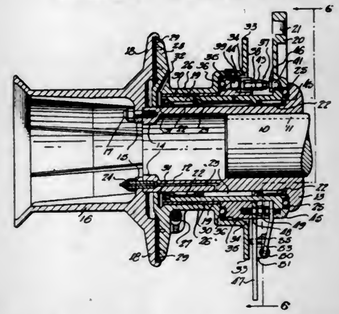
2,328,132
RELIEF VALVE
Walter Ernst, Mount Gilead, Ohio, assignor to The Hydraulic Development Corporation, Inc., Wilmington, Del., a corporation of Delaware
Application July 26, 1941, Serial No. 404,219
5 Claims. (Cl. 137—53)



1. A valve having a chamber with an inlet port and an outlet port, an exhaust line connected to said outlet port, a valve member reciprocably mounted in said valve chamber and operable by pressure fluid admitted through said inlet port to release said outlet port, yielding means continuously urging said valve member into position for closing said outlet port, choke means in said exhaust line, and conduit means communicating with said exhaust line at a point between said outlet port and said choke means and adapted to convey pressure fluid to

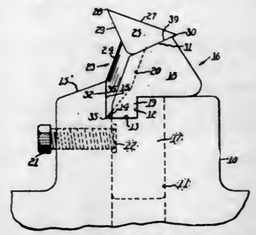
said valve member in a direction to aid said yielding means in its tendency to move said valve member into said closing position.

2,328,133
PULL LINE DRUM AND MOUNTING
Walter W. Foster, Wichita Falls, Tex.
Application November 21, 1941, Serial No. 419,948
2 Claims. (Cl. 254—185)



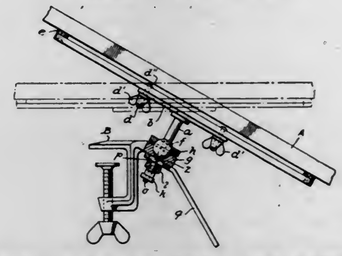
2. A pull line drum and mounting comprising in combination, a rotating shaft, a sleeve affixed to the end of said shaft for rotation therewith, a second and stationary sleeve floating on said first sleeve having a mounting flange, a flanged drum carrying a pull line and mounted for rotating and limited sliding movement wholly on said sleeve, an annular recess formed adjacent the inner flange of said drum, a collar conformably disposed in said recess, a flanged spool affixed to the end of said first sleeve having a flange whose face is in perpendicular relation to said shaft and parallel with the face of the outer flange of said drum and against which the latter flange is engaged to effect rotation of said drum, a plurality of longitudinally adjustable pins, each having an end connected to said collar with its opposite end connected to the mounting flange of said second sleeve, a lever affixed to said collar for oscillating the same to effect collective movement of said pins toward relative parallel positions to actuate said drum, a plate affixed to said mounting flange having an arm, and spring means connecting said lever and arm to resist movement of said lever.

2,328,134
MINING MACHINE CHAIN BIT AND HOLDER THEREFOR
Frank L. Fulke, Terre Haute, Ind.
Application January 8, 1941, Serial No. 373,557
10 Claims. (Cl. 262—33)



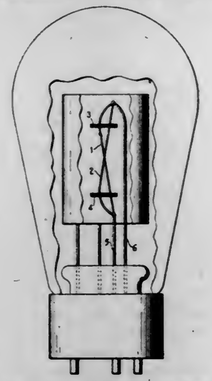
1. As an article of manufacture, a four-pointed cutter bit comprising a metal piece formed to provide a central rod portion of uniform cross section flattened equally at its opposite ends, the flattened surfaces at each end converging from rod thickness at their roots at equal angles to the axis of the rod to form a thin straight edge perpendicular to said axis, said two straight edges lying in planes perpendicular to each other and including said rod axis, and each of said edges terminating in two oppositely facing cutting points.

2,328,135
SUPPORTING MEANS FOR DRAWING BOARDS
Karl Gack, Erlangen, Germany; vested in the Alien Property Custodian
Original application March 19, 1938, Serial No. 197,012. Divided and this application May 13, 1941, Serial No. 393,265. In Germany March 23, 1937
2 Claims. (Cl. 287—87)



1. A device for supporting and adjusting a drawing board or the like comprising a pin secured at one end to the board and having a ball at the other end, an upper plate, a middle plate, and a bottom plate, the upper and middle plates being in contact with and adjacent to the ball, means to maintain the plates in alignment and to limit the distance between the upper and bottom plates, and means operatively connected to the bottom plate including a screw clamp secured to the middle plate to force the middle plate against the upper plate to clamp the board in position.

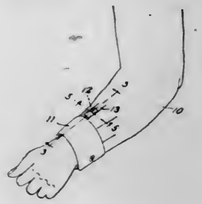
2,328,136
ELECTRON TUBE
Alfred Gaebel, Berlin, Germany; vested in the Alien Property Custodian
Application February 8 1941, Serial No. 377,986
In Germany January 8, 1940
2 Claims. (Cl. 250—27.5)



1. An electron tube having in conjunction a filament comprising two wires which intersect and bear against each other having common supports for said wires at each end of said wires, each support carrying an end of both said wires and

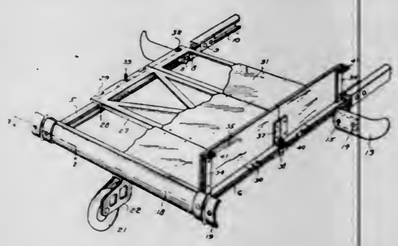
having insulating members spacing said wires at points intermediate the common points of support and the point of their intersection, said spacing members bow said wires into generally arcuate shape whereby said wires are rigidly supported without being stretched taut, and further whereby the possibility of vibrations being set up on said wires is minimized.

2,328,137
SLEEVE SHORTENER
Leon Goldberg, New York, N. Y.
Application June 26, 1941, Serial No. 399,822
1 Claim. (Cl. 2—269)



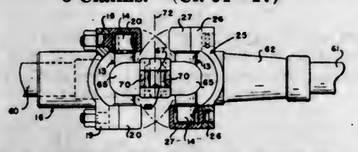
A sleeve shortening device including a relatively rigid elongated strip secured to and located medially of the width of the sleeve with the lesser dimension of the strip of appreciably smaller width than the width of the sleeve and with its greater dimension extending longitudinally of the sleeve and upwardly from the juncture of the cuff therewith for locking the lower portion of the sleeve in an upwardly retracted folded relation with the cuff surrounding the followed lower portion of the sleeve.

2,328,138
COLLAPSIBLE TRAILER
Frank I. Gosser, Miami, Fla.
Application April 27, 1942, Serial No. 440,690
4 Claims. (Cl. 280—33.4)



1. A vehicle trailer comprising a collapsible frame adapted for securing to the rear of a vehicle for extending rearwardly therefrom into an open position, a removable body including sectional flooring and walls supported on the frame, a wheel supporting the rear end of the frame when in open position, and a sectional bumper including stationary end portions carried by the vehicle and an intermediate portion movable into a position in alignment with the end portions transversely of the vehicle when the frame is in its collapsed position, and connector plates at each end of the intermediate portion adapted for securing in overlapping relation to the end portions.

2,328,139
UNIVERSAL JOINT
Anton F. Greiner, Detroit, Mich.
Application February 3, 1941, Serial No. 377,259
5 Claims. (Cl. 64—17)

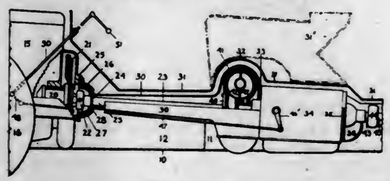


1. In a torque transmitting universal joint, driving and driven members having the adjacent ends spaced from each other, a pair of yokes positioned between the adjacent ends of the members, a pair of journals extending radially outwardly from diametrically opposite sides of each yoke and having a common axis, a pair of bearings respectively connecting the journals on one yoke to the adjacent end of one of said members, a second pair of bearings respectively connecting the journals on the second yoke to the other of said members, a second pair of journals extending radially outwardly from diametrically opposite sides of each yoke and having a common axis perpendicular to the common axis of the first pair of journals, a torque transmitting element positioned between the yokes, bearings supported at opposite ends of the torque transmitting element for rocking movement relative to the latter and respectively connected to the second pair of journals on the first yoke, and additional bearings supported at opposite ends of the torque transmitting element for rocking movement and respectively connected to the second pair of journals on the second yoke.

2,328,140
CATALYST RESULTING FROM HYDROLYSIS OF ALLOYS OF CATALYTIC METALS AND HYDROLYZABLE METALS
John H. Hahn, St. Louis, Mo., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application April 21, 1939, Serial No. 269,179
14 Claims. (Cl. 260—563)

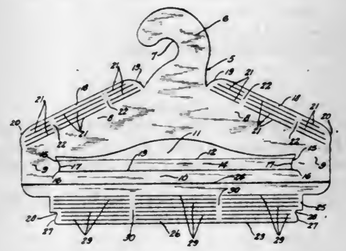
14. In the catalytic liquid-phase hydrogenation of a hydrogenatable organic compound, the improvement consisting in conducting the hydrogenation in the presence of a catalyst prepared by the hydrolysis in an organic liquid of an alloy of a catalytically active metal and a hydrolyzable metal with an amount of water stoichiometrically equivalent to that required for hydrolysis of the hydrolyzable metal.

2,328,141
SUSPENSION MEANS FOR AUTOMOBILE TRANSMISSIONS
Jules Haltenberger, Ann Arbor, Mich.
Application June 17, 1940, Serial No. 340,921
4 Claims. (Cl. 180—70)



4. In an automobile, a frame, a driver's compartment and a seat therein, an engine in the front of said compartment, a change speed mechanism having a housing disposed under said seat, a forward extension on said housing supported by said engine by a universally pivotal connection, a resilient connection between the rear part of said housing and said frame, and a power transfer shaft between said engine and change speed mechanism including a universal connection.

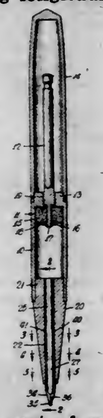
2,328,142
COAT HANGER
Henry J. Hanauer, Milwaukee, Wis., assignor to Badger Carton Company, Milwaukee, Wis., a corporation of Wisconsin
Application September 14, 1942, Serial No. 458,259
3 Claims. (Cl. 223—87)



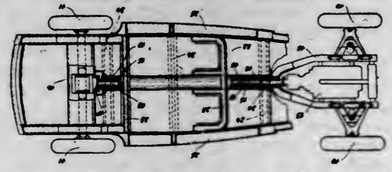
1. A garment hanger, comprising a flat body portion having a hook projecting from one edge thereof intermediate its ends, the body portion adjacent the opposite edge having a longitudinal slot therein, a strip foldably associated with the body portion at the lower edge of the slot of less breadth than the slot and foldable out of the slot to an outwardly projecting angular position to provide a ledge at the lower edge of the slot, a deformable flap foldably associated with said opposite edge of the body portion and projectable in folded and deformed condition through said slot and over the folded strip to provide a garment bar, the inner portion of the flap being foldable angularly relative to the plane of the body portion and the outer portion of the flap being stepped at its ends and being provided with a series of interrupted score lines to facilitate deformation of the same into arched formation, the latter portion constituting a substantial overhang relative to the folded strip, and cooperating means at the ends of the slot and at the stepped ends of the flap to releasably lock the flap in its projected, folded, overhanging and arched position.

2,328,143
FOUNTAIN PEN
Benjamin W. Hanle, Elizabeth, N. J., assignor to Eagle Pencil Company, a corporation of Delaware
Application June 27, 1942, Serial No. 448,709
6 Claims. (Cl. 120—50)

1. A fountain pen comprising a conical tip having an axial bore therein, a feed rod laterally flattened and fitting in said bore, said feed rod being bifurcated and affording a pair of spaced forwardly extending fingers, one of said fingers terminating short of the forward end of the tip, the other protruding beyond said tip and a pen nib frictionally gripped at its lateral edges by the wall of said bore, the mid-section of said pen nib extending longitudinally of and engaging the forward part of said protruding finger and clearing the other finger.



2,328,144
VEHICLE
Wilhelm Haspel, Stuttgart-Heumaden, Germany; vested in the Alien Property Custodian
Application June 7, 1940, Serial No. 339,212
In Germany February 3, 1939
11 Claims. (Cl. 180—70)



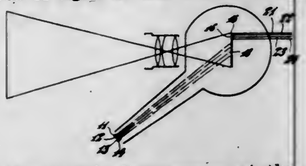
1. In a vehicle having a pair of front wheels and a pair of rear wheels, a central longitudinal bearer forming substantially the vehicle frame, means for the suspension of the front pair of wheels onto the central longitudinal bearer, means for the suspension of the rear pair of wheels onto the central longitudinal bearer, a body, a hollow bearer securely connected to the body, surrounding the central longitudinal bearer and being rigidly connected to it against rotation about the central longitudinal axis of the vehicle only at one end.

2. In a vehicle, the combination according to claim 1, in combination with a driving unit positioned at one end of the vehicle, said hollow bearer being rigidly connected to the central longitudinal bearer only at that end of the vehicle at which the driving unit is positioned.

2,328,145
COLOR TELEVISION
Bertram Tom Hewson, London, England
Application August 20, 1941, Serial No. 407,537
In Great Britain June 15, 1939
1 Claim. (Cl. 178—5.2)

A multi-color television system, comprising a transmitter and a receiver, each having means for using an independent individually controlled scanning beam for each of the separate colors of the system, image plates at the transmitter and the receiver including like multi-color mosaic line screens, a multi-element line plate at the transmitter, said multi-element line plate

having one element for each color, and an auxiliary source of light at the receiver to pass light



through the mosaic line screen at the receiver in order to render the image visible.

2,328,146
TYPEWRITING MACHINE
Laurence B. Hill and Edson G. Moshier, Syracuse, N. Y., assignors to L. C. Smith & Corona Typewriters, Inc., Syracuse, N. Y., a corporation of New York
Original application August 8, 1941, Serial No. 406,016. Divided and this application November 29, 1941, Serial No. 420,912
7 Claims. (Cl. 197—140)



4. In a typewriting machine, the combination of a platen carriage, a roller platen journaled on the carriage, a resiliently flexible sheet stopping lever fulcrumed intermediate its ends on the carriage for rocking of said lever about an axis parallel to the axis of the roller platen, one arm of said lever having its free end bent toward the platen to form an abutment for engagement by a paper sheet, spring means urging said stopping lever about its axis to yieldingly maintain the bent end of the lever out of contact with the platen, manually operable means on the carriage engageable with the other arm of said lever to resiliently press the bent end of said lever against the platen, and means on the carriage for guiding paper sheets between the platen and said lever when the bent end of the lever is held away from the platen and for guiding such sheets against the bent end of the lever when the latter is engaged with the platen.

2,328,147
FUEL MIXTURE
John A. Hyson, Merwood Park, and Joseph H. Kerrick, Philadelphia, Pa., assignors to The Philadelphia and Reading Coal and Iron Company, Philadelphia, Pa., a corporation of Pennsylvania
No Drawing. Original application July 6, 1939, Serial No. 282,968, now Patent No. 2,281,497, dated April 28, 1942. Divided and this application December 31, 1940, Serial No. 372,627
11 Claims. (Cl. 44—1)

1. An underfeed stoker fuel which comprises an intimate intermixture of between 70 and 80% by weight of bituminous coal and 20 to 30% by weight of anthracite coal of the number 4 buckwheat size.

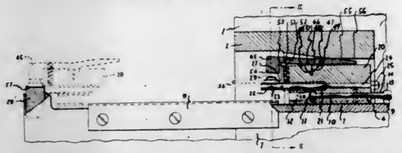
2,328,148
FILTER
Arnold Jacobowitz, Buffalo, N. Y.
Application October 29, 1940, Serial No. 363,269
2 Claims. (Cl. 210—181)

1. A pressure filter device comprising a pair of opposed fine mesh wire screen members, a coarse mesh wire screen spacing member mounted between said fine mesh screen members and coextensively therewith as a spacer therefor, a member mounted in clamping relation upon the marginal edge portions of said screen members and having closed side portions extending from the edge portions of said screen members to form an unobstructed channel for liquid



in open communication with the space between said fine mesh screen members extending continuously about the perimetral portions of said device, said screen spacing member having had removed therefrom prior to assembly of the device, the wire elements thereof normally disposed in the region of said perimetral clamping member and extending parallel to adjacent perimetral portions of said device.

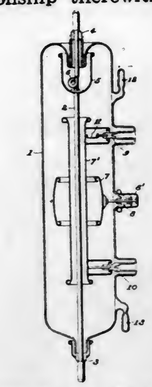
2,328,149
RIVET CARRIER FOR RIVETING MACHINES
Arden L. Johnson, Jackson, Mich., assignor to Tomkins-Johnson Company, Jackson, Mich., a corporation of Michigan
Application January 6, 1941, Serial No. 373,293
6 Claims. (Cl. 218—2)



1. A rivet carrier for transferring upsettable members fed thereto from a source to an anvil, comprising a carriage for receiving thereon one upsettable member at a time, a ram for transferring the upsettable member on said carriage to said anvil, means to traverse said ram and carriage toward said anvil, means for yieldably maintaining said carriage and ram in a predetermined relation but permitting said ram to be moved relatively to said carriage upon the engagement of said carriage with an abutment during traversing to transfer from said carriage to the anvil the upsettable member thereon, said ram having an internal recess therein in which said carriage is slidably reciprocable, and means for yieldably holding each upsettable member on said carriage as it is fed thereto.

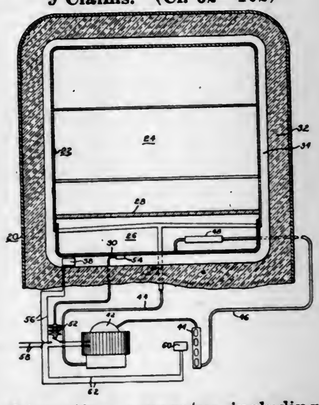
2,328,150
CONDENSER LEADIN FOR HIGH ELECTRIC POTENTIALS
Peter Kniepen, Berlin, Germany; vested in the Alien Property Custodian
Application June 11, 1941, Serial No. 397,525
In Germany March 21, 1940
6 Claims. (Cl. 174—9)

1. A vacuum type condenser lead-in bushing comprising a cylindrical enclosing vessel of insulation material, a conductor passing through the axis of said enclosing vessel and sealed to each of the ends thereof, a first cylindrical metallic member surrounding said conductor, supporting means for said first cylindrical metallic member and supported by a seal located at the side wall of said enclosing vessel, a second metallic member located intermediate said conductor and said first cylindrical member and in capacitive relationship therewith, and a pair of



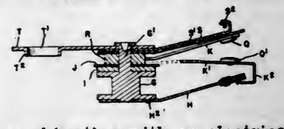
insulating supports located at the side wall of said enclosing vessel.

2,328,151
REFRIGERATING APPARATUS
Andrew A. Kucher, Oakwood, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application October 28, 1940, Serial No. 363,093
9 Claims. (Cl. 62—102)



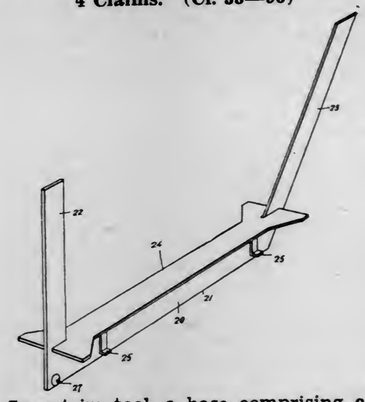
1. Refrigerating apparatus including liquefying means and evaporating means, each of said means including heat transfer means for interchanging heat with air outside of said means, and a vibrating reed-type fan means for circulating the air into heat exchange relationship with one of said heat transfer means.

2,328,152
THERMOSTATIC UNIT AND CONNECTION FOR ELECTRIC IRONS
Frank Kuhn, Detroit, and Laurence H. Thomas, Birmingham, Mich., assignors to American Electrical Heater Company, Detroit, Mich., a corporation of Michigan
Application June 23, 1941, Serial No. 399,414
7 Claims. (Cl. 219—25)



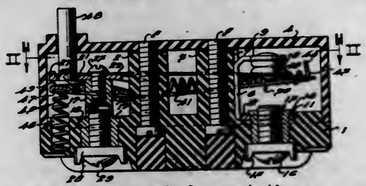
1. The combination with an electrically heated member, of a thermostatic switch unit assembly comprising a rigid straight post, a cross bar centrally and rigidly mounted on said post, resilient conductor strips having an insulated mounting on the opposite end portions of said bar and extending obliquely therefrom with their free ends in registration, cooperating contacts upon the registering ends of said strips, a thermostatic bar rigidly secured to the base of said post and inclining upward therefrom, an insulated connection between the free end of said thermostatic bar and the lower resilient conductor strip, electrical connections between said resilient strips and said electrically heated member, and means bearing upon the upper end of said post for clamping the same in thermal conductive relation to said electrically heated member.

2,328,153
TRIM TOOL
Alexander W. Laing, Miami, Fla.
Application September 29, 1942, Serial No. 460,143
4 Claims. (Cl. 33—93)



1. In a trim tool, a base comprising a blade, an arm integral with said blade in the same plane with the latter and disposed at an angle to said blade, said arm having a marking edge, and a stop on said blade projecting laterally therefrom and out of the plane of said blade and located at a predetermined distance inwardly of the blade from said marking edge.

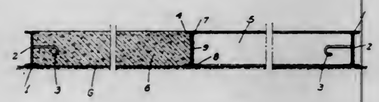
2,328,154
ELECTRIC SWITCH
Gustav A. Lennholm, Detroit, Mich., assignor to Square D Company, Detroit, Mich., a corporation of Michigan
Application August 5, 1939, Serial No. 288,506
8 Claims. (Cl. 200—67)



1. In an electric switch, a stationary contact, a thin leaf spring with a contact supported thereon and movable thereby to move to engaged and disengaged position with said stationary contact, a support for said leaf spring, conducting means securing said support in position, terminal means disposed upon an extremity of said conducting

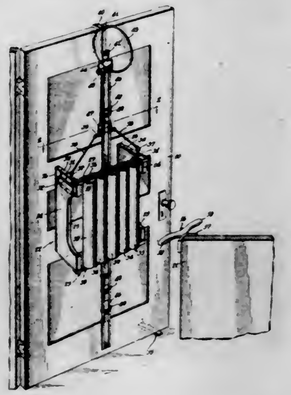
means, a bearing member, a plurality of bearing seats disposed thereupon, a lever member associated with said bearing seats and having a lost motion connection with said leaf spring, spring means operatively connected to said lever member, and means operable to move said spring means through dead center position including a second spring means continually exerting its bias to tend to move said movable contact toward engaged position.

2,328,155
EXPANSION JOINT
Robert G. Le Tourneau, Peoria, Ill., assignor to R. G. Le Tourneau, Inc., a corporation
Application October 25, 1941, Serial No. 416,515
1 Claim. (Cl. 94—10)



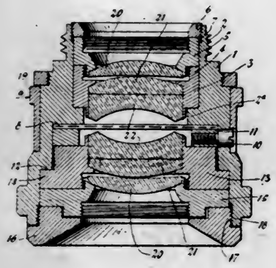
A combination permanent form and expansion joint for a plurality of rectangular concrete slabs, comprising a rigid bordering frame rectangular in plan, said frame being of a height equal to the thickness of the slabs to be formed therein, a plurality of expansion joints rigidly and permanently connected with said bordering frame, separating the area within the latter into a plurality of rectangular slab receiving sections, the frame bordering at least one edge of each slab poured in said sections, and a plurality of longitudinally spaced anchoring elements rigid with and projecting inwardly from the bordering frame intermediate the top and bottom thereof whereby to anchor the slabs at said edges to the bordering frame; said joints being I-beams arranged to freely receive, in the opposed channels thereof, the remaining edges of the slabs.

2,328,156
MASSAGING APPARATUS
Bessie P. London, Baltimore, Md.
Application November 18, 1941, Serial No. 419,656
7 Claims. (Cl. 272—57)



1. Massaging apparatus comprising a frame, a plurality of rollers revolubly mounted on said frame the axes of the rollers being substantially parallel to each other, said rollers being closely adjacent each other, and the diameter of adjacent rollers varying in size to give a bumping action to a body rubbing against them.

2,328,157
OBJECTIVE
Rudolf K. Luneburg, Buffalo, N. Y., assignor to Spencer Lens Company, Buffalo, N. Y., a corporation of New York
Application September 11, 1940, Serial No. 356,342
3 Claims. (Cl. 88—57)



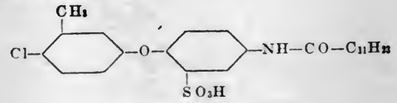
1. A mount for a projection or photographic objective lens system comprising a main body portion having an internal flange, a pair of annular lens supporting members adapted to slidingly fit in said body portion on one side of the diaphragm position with one of said annular members having a shoulder adapted to seat on said internal flange, a threaded ring adapted to engage an internal threaded portion adjacent the outer end of said body portion to retain the lens rings in aligned relation, an iris diaphragm positioned adjacent the opposite side of said internal flange, and a pair of annular lens supporting members slidingly positioned in said body portion on the other side of said iris diaphragm, one of said annular members having a shoulder adapted to engage a shoulder on the main body portion and the other of said members adapted to engage the first annular member, and an annular ring having a threaded portion adapted to engage an internal threaded portion adjacent the outer end of said body portion to retain said annular member in aligned relation.

2,328,158
ART OF REFINING
Edward J. Martin, East Chicago, Ind., assignor to Sinclair Refining Company, New York, N. Y., a corporation of Maine
No Drawing. Application May 13, 1940, Serial No. 334,906
6 Claims. (Cl. 252—276)

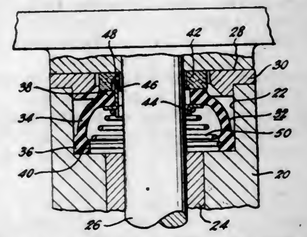
1. In the revivification of substantially water free decolorizing earth used in the bleaching or decolorizing of mineral oil and containing extracted coloring matter, the step which comprises treating the decolorizing earth with a blend of substantially 3 parts of naphtha, 1 part of a ketone, and an amount of water comprising not less than 5 percent and not more than is miscible with the blend at the temperature employed in treating the decolorizing earth, and maintaining the water content of the blend at not less than 5 percent and not more than is miscible with the blend at the temperature employed in treating the decolorizing earth.

2,328,159
PREPARATION OF HALOGEN SUBSTITUTED AMINOARYLSULPHONIC ACID DERIVATIVES
Henry Martin, Basel, Hans Heinrich Zaeslin, Riehen, near Basel, and Rudolf Hirt and Alfred Staub, Basel, Switzerland, assignors to J. R. Geigy A. G., Basel, Switzerland
No Drawing. Application December 14, 1939, Serial No. 309,292. In Switzerland December 24, 1938
10 Claims. (Cl. 260—401)

9. The halogensubstituted amino-arylsulphonic acid of the formula:



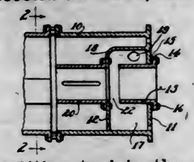
2,328,160
FLUID SEALING DEVICE
John T. Marvin, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Original application March 29, 1940, Serial No. 326,711, now Patent No. 2,299,638, dated October 20, 1942. Divided and this application February 6, 1942, Serial No. 429,787
2 Claims. (Cl. 286—11)



1. In combination with two members relatively rotatable with respect to one another, of a self-contained fluid sealing assembly comprising: an annular resilient sleeve having opposed end flanges at either end thereof, one of said flanges being adapted to fit within a cavity in one of said relatively rotatable members, a sealing surface carried by the other of said relatively rotatable members, said flange in said cavity including an internal circumferential groove therein and a single conical spring adapted to be compressed radially inwardly at its large diameter end so as to fit into said groove and to be compressed axially between said groove and said other flange for causing the sleeve to expand axially into sealing contact with said sealing surface and for causing the sleeve to expand radially outwardly into sealing contact with the walls of said cavity.

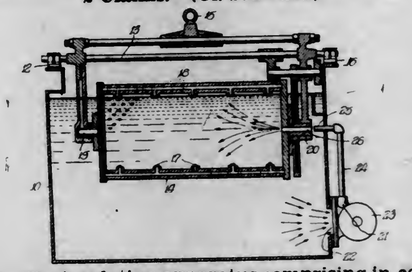
2,328,161
WATER COOLED SILENCER
Hiram Hamilton Maxim, Hartford, Conn., assignor to The Maxim Silencer Company, Hartford, Conn., a corporation of Connecticut
Application April 12, 1941, Serial No. 388,230
1 Claim. (Cl. 181—52)

A silencer comprising a casing having end headers, a central partition dividing the casing into two chambers having their lengths in non-integral ratio, a substantially central inlet pipe passing through one end header into one of the chambers and formed with an annular gap adjacent the header, wall members surrounding the inlet pipe and said gap to form a water compartment, means for introducing water into said compartment, an outlet pipe eccentrically arranged in the second chamber, and tubes passing



through the partition to join the chambers and having a combined area substantially equal to the area of the outlet opening, at least some of said inlet and outlet tubes and the chamber connecting tubes being formed with lateral escape openings in their walls.

2,328,162
PLATING TANK
Elmer J. Mercil, Oak Park, Ill., assignor to Mercil Plating Equipment Company, Chicago, Ill., a corporation of Illinois
Application March 4, 1940, Serial No. 322,077
2 Claims. (Cl. 204—212)

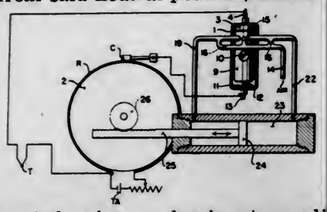


1. Electroplating apparatus comprising in combination, a tank for electrolyte, a rotatable cylinder removably mounted therein for receiving articles to be plated, said cylinder having perforated walls through which the electrolyte is adapted to circulate and provided with an opening at its axis of rotation, a circulation pipe, the open end of which is located below the operating level of electrolyte within the tank and registers with but does not enter the axial opening in the cylinder, and a pump connected to said circulation pipe and adapted to withdraw electrolyte from the tank and force it into the said cylinder through said axial opening.

2,328,163
MEASURING INSTRUMENT
Coleman B. Moore, Carroll Park, Pa., assignor to The Brown Instrument Company, Philadelphia, Pa., a corporation of Pennsylvania
Original application March 8, 1938, Serial No. 194,582, now Patent No. 2,242,656, dated May 20, 1941. Divided and this application October 7, 1939, Serial No. 298,350
5 Claims. (Cl. 171—229)

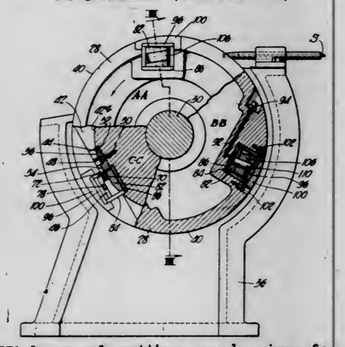
1. In a self-balancing potentiometer, the combination with a potentiometer circuit of a galvanometer adapted to deflect from a neutral position in response to potentiometer circuit unbalance, movable fluid pressure rebalancing mechanism including a member adapted to be set in operation in one direction or in the opposite direction by an increase or decrease respectively of the fluid pressure acting on said member, a

valve continuously adjusted by the galvanometer to regulate said pressure accordingly as the galvanometer deflection is in one direction or the other from said neutral position, means operable



by said rebalancing mechanism to readjust said valve directly and terminate said operation, and means operated by said rebalancing mechanism to rebalance the potentiometer circuit.

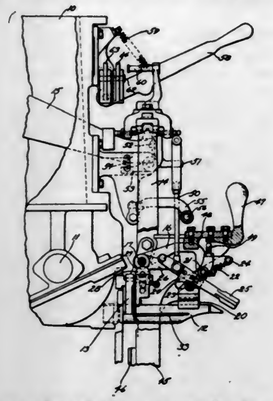
2,328,164
HIGH SPEED CUTTING MECHANISM
George H. Perkins, Cleveland, and Albert L. Stoeckel, East Cleveland, Ohio, assignors to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
Application August 18, 1942, Serial No. 455,226
11 Claims. (Cl. 164—47)



11. High speed cutting mechanism for severing longitudinally advancing stock comprising a rotor having a circumferential stock receiving guide groove formed in the outer face thereof, a cutter blade fixedly secured to the rotor, a guideway in the rotor disposed transverse to said groove, a holder slidable therein carrying a blade for coaction with said fixed blade, the guideway in the rotor having a replaceable wear plate secured therein on which said holder slides, the holder having a lubricant receiving chamber therein, the rotor and the wear plate having lubricant passageways therein, and a fitting secured to the rotor to facilitate the introduction of lubricant through said passageways to said chamber.

2,328,165
BAG FILLING APPARATUS WITH HAND DISCHARGE
William R. Peterson, Oswego, N. Y., assignor to St. Regis Paper Company, New York, N. Y., a corporation of New York
Application October 1, 1940, Serial No. 359,219
15 Claims. (Cl. 226—48)

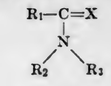
1. In apparatus for filling valve bags comprising a spout adapted to enter the valve of a bag and means to feed material to and through the spout, a movably mounted vent-forming member outside the spout and extending in the same general direction, and means to move said member towards the axis of the spout while a



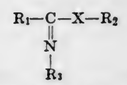
bag is being placed thereon and away from the spout while the bag is being filled.

2,328,166
MANUFACTURE OF PHOTOGRAPHIC BLEACHING LAYERS
André Polgár and Charles Halmos, Paris, France; vested in the Alien Property Custodian
No Drawing. Application December 2, 1939, Serial No. 307,324. In France December 3, 1938
7 Claims. (Cl. 95—7)

1. In a process for manufacturing photographic bleaching layers, the step consisting in introducing in the composition of these layers an organic compound the constitution of which can be set forth by one of the tautomer formulae:



and

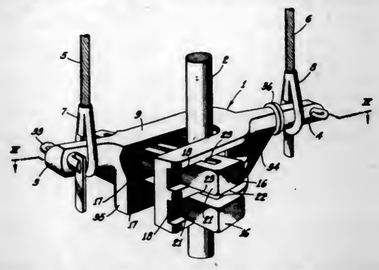


in which X represents an element of the oxygen series selected from a group consisting of O, Se, Te, and R_1, R_2, R_3 each represents a saturated monovalent element, radical or group with the exception of compounds having a sensitizing power, by choosing the organic compounds in question among the compounds belonging to the following classes: acyl amides, acyl imides, amidines, guanidines, hydrazides, hydrazidines, hydroxamic acids, imido-ethers and carbamides.

2,328,167
WEDGE-TYPE CLAMP AND CARRIER BAR
James P. Ratigan, Los Angeles, Calif.
Application September 20, 1941, Serial No. 411,674
15 Claims. (Cl. 24—263)

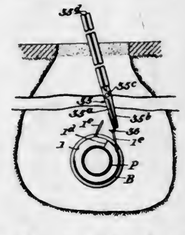
1. In a clamp for attachment to a rod, the combination of: a body member having a rod receiving slot extending into one side thereof; a gripping member pivotally supported on said body member for movement from a position away from said slot to a position extending thereacross, said gripping member having a rod engaging surface and an opposite surface so directed as to extend transversely of said slot when said rod engaging surface is engaged with said rod; a tapered wedging member supported on said body member for

movement transversely of said slot with one wedging surface engaging said opposite surface of said gripping member; and means on said body



member for engaging the other wedging surface of said wedging member.

2,328,168
PIPE CLAMP
Roger E. Risley, Bradford, Pa., assignor to Dresser Manufacturing Company, Bradford, Pa., a corporation of Pennsylvania
Original application June 17, 1941, Serial No. 398,380. Divided and this application October 27, 1942, Serial No. 463,482
2 Claims. (Cl. 288—11)



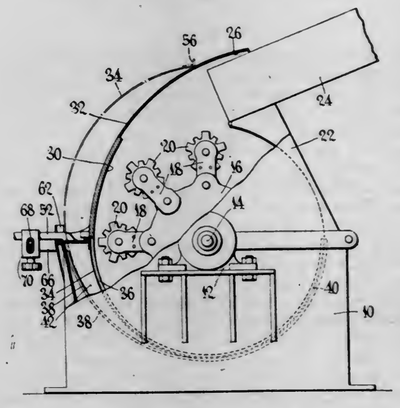
1. A gasket for a pipe clamp comprising a split ring of elastic deformable material providing a sealing surface for fluid tight engagement with a pipe, a circumferentially extending reinforcing element at least partially embedded in said material and disposed radially outwardly of said sealing surface, eyelets provided adjacent the split ends of the ring for securing the said ends together, said eyelets being located radially outwardly of said sealing surface and being anchored to said reinforcing element of the gasket.

2,328,169
MEANS FOR INSTRUCTING BY HISTOPHONETICS
Erwin L. Schindler, Kansas City, Mo.
Application August 1, 1940, Serial No. 349,091
2 Claims. (Cl. 35—17)



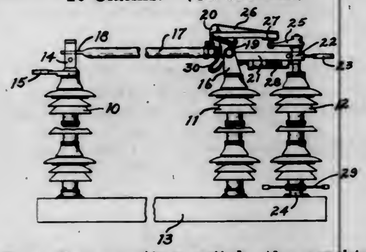
1. Means for instructing on the diseases of the cardiovascular and respiratory system by recreating and simulating the normal and abnormal heart sounds without the use of clinical material, comprising a microphone-amplifier-speaker system, a housing for encompassing the microphone, openings provided in the housing adjacent the pick-up side of the microphone, and tubing leading into the housing and adjacent the pick-up side of the microphone, said tubing being adapted to be blown into to simulate the sound of heart murmurs.

2,328,170
SCREENING MILL
Charles F. Schutte and Herman D. Schutte, Snyder, N. Y.
Application November 12, 1941, Serial No. 418,740
4 Claims. (Cl. 83—11)



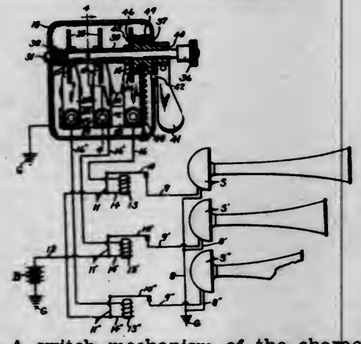
3. In a screening mill, a lower frame member supporting a hammer mill rotor thereon, a cover member of generally circular sectional form mounted upon said frame to complete enclosure of said mill, said cover being of a sectional curvature of greater radius than the radius of the orbit of said rotor, a semi-cylindrical screen member formed of elastic material to have a natural set in a curvature of a radius greater than the radius of said rotor orbit, means for cantilever mounting one end portion of said screen upon said frame in predetermined spaced relation with respect to said rotor orbit, and lever means adapted to engage beneath and actuate the other end portion of said screen upwardly and into similarly spaced relation with respect to said rotor orbit against the elastic force of said screen, said lever device comprising a spade-like member having a plate portion with a rounded nose adapted to engage beneath a laterally flanged end portion of said screen and a plate heel portion adapted to bear upon said frame and a handle portion extending rearwardly therefrom for levering said screen into operative position, and bracket means extending from said frame for cooperation with said plate heel portion to position said lever member relative to said frame during said levering operation, whereby said lever device may be removed to provide a screen removal opening and to simultaneously permit said screen to become relaxed into free sliding condition relative to said mounting means and relative to said cover so as to be readily slipped out of said removal opening and arcuately upwardly over said cover in pickaback relation thereon.

2,328,171
DISCONNECTING SWITCH
August C. Schwager, Millbrae, and Charles L. Garrison, San Francisco, Calif., assignors to Pacific Electric Manufacturing Corporation, San Francisco, Calif., a corporation of California
Application October 31, 1942, Serial No. 464,038
10 Claims. (Cl. 200—48)



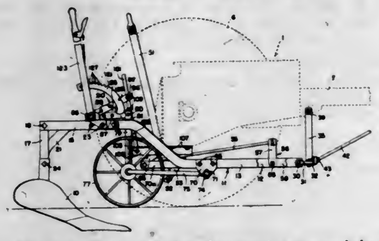
1. In a disconnecting switch, the combination of a support mounted to pivot about an axis extending at a right angle to the plane of movement of the switch blade, a switch blade with a beaver-tail end extending from and rotatably mounted upon said support, a stationary contact with which the beaver-tail end of said switch blade cooperates, a member pivotally mounted upon said support for movement about an axis in the plane of movement of said switch blade, means for initially imparting rotation to said member about its axis and subsequently moving it with said support about the pivotal axis of said support, and a driving connection between said switch blade and said member having a ratio of angular transmission which will produce a greater rotation of said switch blade than the rotation of said member, whereby the beaver-tail end of said switch blade will be first rotated out of contact making engagement with said stationary contact and finally withdrawn therefrom with substantially no further rotative movement with respect to said support.

2,328,172
WARNING SIGNALING SYSTEM
Theodore J. Scofield, Jackson, Mich., assignor to The Sparks-Withington Company, Jackson, Mich., a corporation of Ohio
Application June 6, 1940, Serial No. 339,091
5 Claims. (Cl. 200—33)



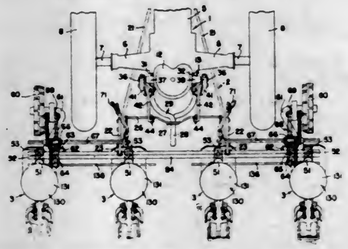
1. A switch mechanism of the character described comprising, in combination, a frame, a plurality of contact wheels rotatably mounted in said frame, each of said contact wheels having an equal number of groups of contact lobes disposed about its periphery, the respective lobe groups of the respective contact wheels occupying like included angles, means for preselecting a series of said lobe groups consisting of one group from each wheel and for angularly positioning the same in axial alignment with one another at a predetermined initial operating station, means for rotating said contact wheels in unison from said initial station through an angle corresponding to the included angle of the selected lobe series, and a plurality of contact elements, one for each contact wheel, secured to said frame and so constructed and arranged as to close an electric circuit when engaged by one of said lobes during said rotation of the contact wheels.

2,328,173
GAUGING AND LIFTING MECHANISM FOR IMPLEMENTS
Walter H. Silver, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application September 28, 1939, Serial No. 296,925
24 Claims. (Cl. 97—47)



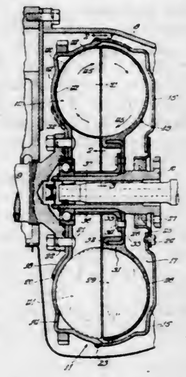
1. An agricultural implement comprising tool means adapted to be raised and lowered, gauge means for said tool means, a lever having two arms, means connected with one arm of said lever and operated by the latter through one range of movement thereof for shifting said gauge means relative to said tool means for gauging the depth of operation of the latter, and means connected with the other arm of said lever and operated by said lever through another range of movement thereof for raising both said tool means and said gauge means out of ground engaging position.

2,328,174
LISTER
Walter H. Silver, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application September 23, 1940, Serial No. 357,885
29 Claims. (Cl. 111—59)



1. An agricultural implement comprising the combination with a tractor of a tool frame including generally forwardly extending frame bars and a transverse bar connected with the rear end portions of said frame bars, means connecting the forward ends of said forwardly extending bars to the forward portion of the tractor, seed holding and selecting mechanism, bracket means supporting said mechanism generally rearwardly of said transverse bar, brackets fixed to said transverse bar, a plurality of furrow opening means, sets of generally parallel links connected at their rear ends to said brackets and extending generally forwardly therefrom and connected to the forward portion of said furrow opening means so as to dispose the rear portion of the latter in a position to receive seed from said mechanism.

2,328,175
HYDRODYNAMIC TORQUE TRANSMITTING DEVICE, WITH MOLDED PLASTIC ROTOR
Richard L. Smirl, Detroit, Mich., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application August 19, 1940, Serial No. 353,204
3 Claims. (Cl. 60—54)

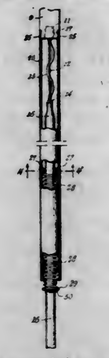


1. In a hydrodynamic power transmitting device, a housing, fluid therein, a runner operating in said fluid, said runner being integrally formed of a molded plastic material having a specific gravity less than 2½ times the specific gravity of the fluid, said runner including a toroidal wall of arcuate cross section tapering from maximum thickness at its inner extremity to minimum thickness in its outer region, said minimum thickness being in the neighborhood of not substantially greater than 1/40 of the radial distance between the inner and outer extremities of said toroidal wall portion, and vanes extending between said inner and outer wall portions and integrally joined to said toroidal wall portion, said vanes having a thickness not substantially more than 1/50 of said radial distance.

2,328,176
PURIFICATION OF CARBON DISULPHIDE
Wilhelm Sonnenschein, Elsterberg i. V., Germany; vested in the Alien Property Custodian
No Drawing. Application May 9, 1939, Serial No. 272,637. In Germany May 10, 1938
3 Claims. (Cl. 23—206)

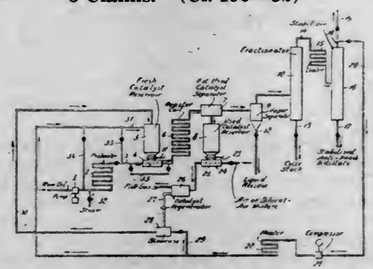
1. In a process of purifying and de-odorizing carbon disulphide, the steps in sequence which comprises intimately mixing carbon disulphide, recovered during viscose manufacturing operations and contaminated by bad smelling, volatile, sulphur compounds comprising hydrogen sulphide and thioformaldehyde, with a caustic alkali solution containing about 30% by weight of a caustic alkali to dissolve a portion of said sulphur compounds from said carbon disulphide, substantially separating the partially purified carbon disulphide from said caustic alkali solution and then filtering the partially purified carbon disulphide through finely divided alumina to form colorless carbon disulphide completely free from said contaminating sulphur compounds.

2,328,177
FUSE LINK CONSTRUCTION
Alwin G. Steinmayer, Milwaukee, Wis., assignor to Line Material Company, South Milwaukee, Wis., a corporation of Delaware
Application November 16, 1934, Serial No. 753,358
15 Claims. (Cl. 200—117)



1. A fuse link comprising a terminal portion, a fusible section, a flexible section, an insulating tube surrounding the fusible section and a portion of the flexible section, said tube being engaged with the terminal portion, a helical spring concentrically related to said flexible section and having one end engaging the flexible section and the other end engaging the tube at a point intermediate the ends thereof, thereby to tension the fusible section.

2,328,178
MANUFACTURE OF GASOLINE
John W. Teter, Chicago, Ill., assignor to Sinclair Refining Company, New York, N. Y., a corporation of Maine
Application August 7, 1941, Serial No. 405,752
3 Claims. (Cl. 196—52)



1. In the production of high anti-knock gasoline by cracking hydrocarbon oils in the presence of a finely-divided adsorptive catalyst of not more than moderate directive activity wherein a mixture of vapors of the oil to be cracked and a finely-divided adsorptive catalyst is passed through an elongated cracking zone of restricted cross section at a velocity adequate to maintain a substantially uniform dispersion of the catalyst in the oil vapors, the improvement which

comprises subjecting said mixture in said cracking zone to a temperature upwards of 1000° F. and not substantially exceeding 1075° F. for a period of time upwards of about 23 seconds and sufficient to convert upwards of about 28% but not more than about 52% of said vapors into hydrocarbons suitable as components of the desired anti-knock gasoline during a single passage through said cracking zone, maintaining a pressure upwards of about 30 pounds per square inch but not substantially exceeding 400 pounds per square inch on the mixture in said cracking zone and maintaining the ratio of catalyst to oil vapors in said cracking zone at a value between about 1:10 and 5:10 parts by weight.

2,328,179

ALTERNATING ELECTRIC CURRENT RECTIFIER OF THE SELENIUM TYPE

Leslie Ernest Thompson and Alexander Jenkins, London, England, assignors, by mesne assignments, to The Union Switch and Signal Company, Swissvale, Pa., a corporation of Pennsylvania

No Drawing. Application February 12, 1943, Serial No. 475,654. In Great Britain September 2, 1941

2 Claims. (Cl. 175—366)

1. In an alternating current rectifier of the type comprising a layer of selenium disposed on a base plate and having applied to its outer surface a counter-electrode composed mainly of tin, cadmium or an alloy of these metals with the addition of a relatively small quantity of thallium, the improvement which consists in adding to the counter-electrode a small quantity of mercury.

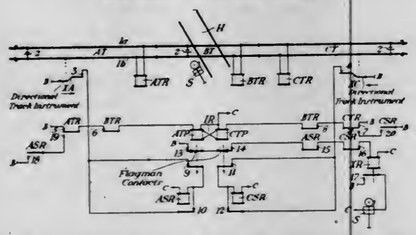
2,328,180

APPARATUS FOR THE CONTROL OF HIGHWAY CROSSING SIGNALS

Harry C. Vantassel, Swissvale, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania

Application June 25, 1942, Serial No. 448,334

7 Claims. (Cl. 246—130)



1. In combination with a highway crossing signal located at the intersection of a highway and a railway track, a track section disposed to one side of the intersection and provided with a track circuit including a track relay, operating means controlled by said track relay to operate the signal when a train occupies the section, train governed means controlled by a train approaching the intersection on the side opposite that of said track section to operate said signal and to remove said track relay from control of said operating means as this train occupies said section in receding from the intersection, a directional train actuated means located at a preselected point within said section and actuated only by a train moving in the direction to approach the intersection, and means governed by said directional train actuated means to control said operating means to operate said signal independent of said track relay.

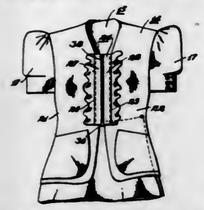
2,328,181

GARMENT CONSTRUCTION

Perkins H. Bailey, New York, N. Y., assignor to Talon, Inc., a corporation of Pennsylvania

Application April 15, 1940, Serial No. 329,633

1 Claim. (Cl. 2—96)



In a method of manufacturing a garment, preparing a garment body with a straight-line opening, forming a pair of elongated garment opening facing strips with one edge of each parallel, placing said strips in slightly spaced relationship with said parallel edges adjacent one another, placing over the space between said parallel edges a separating end slide fastener having its stringers connected, stitching together said slide fastener stringers and the underlying edge portions of said facing strips, placing said connected facing strips over the opening in the garment body with the slide fastener adjacent the garment body and substantially aligned with said opening, and stitching down the outer edge portions only of said facing strips to the underlying portions of said garment body while maintaining said patch member otherwise free of attachment to said garment body.

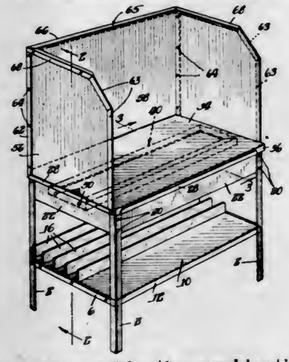
2,328,182

ARC WELDING TABLE

James E. Bales, Aurora, Ill., assignor to Lyon Metal Products, Incorporated, Aurora, Ill., a corporation of Illinois

Application October 27, 1941, Serial No. 416,766

2 Claims. (Cl. 311—105)



1. In a welding table, the combination of four vertically extending angle irons, the flanges of which are 90 degrees apart, said angle irons forming four vertically extending corner legs of the table, four vertically extending sheet metal panels having their outer ends connected to the flanges of said leg members, the upper portions of said panels providing horizontally extending ledges terminating in upwardly extending peripheral flanges, a sheet metal table top having marginal vertically extending flanges providing free edges, the latter flanges resting upon the horizontal flanges of the panel members and the vertically extending sides of the table top lying parallel to but spaced from the vertical flanges of said panel members and a guard rail comprising a back and two side sheet metal members interconnected, the lower edges of said back and two side members lying within the pocket or space formed between said parallel spaced-apart flanges of the panel member and the table top.

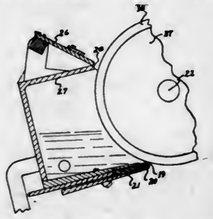
2,328,183

COATING APPARATUS

William Barrett, International Falls, Minn., assignor to Minnesota and Ontario Paper Company, Minneapolis, Minn.

Application May 4, 1942, Serial No. 441,603

8 Claims. (Cl. 91—30)



1. An apparatus for applying coating material to a web of paper or analogous material comprising a fountain having a top, back, sides, bottom and an open front; a roll having a resilient cover, said open front being directed toward the roll so that the fountain and the roll form an applying chamber, an air seal means secured to the fountain top adjacent to the roll and at a selected distance therefrom, a doctor blade secured to the fountain bottom at a selected distance from said roll, and a resilient pad mounted against lower side of the doctor blade.

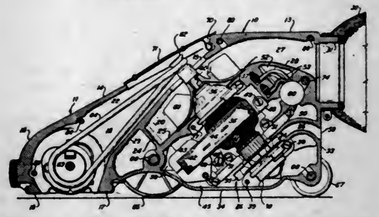
2,328,184

SUCTION CLEANER

Bernard C. Becker, deceased, late of Canton, Ohio, by Bernice E. Becker, executrix, York, Pa., assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio

Application December 9, 1940, Serial No. 369,222

1 Claim. (Cl. 15—16)



A suction cleaner comprising, a casing having a nozzle and connected fan chamber, a housing in said casing extending rearwardly downwardly from said fan chamber, a motor downwardly rearwardly inclined in said housing for operating a fan in said fan chamber, one side of the motor armature being substantially contiguous to the top side wall of said housing to provide a space in the lower portion of said housing between said armature and the bottom side wall of said housing, and means for supporting the motor field stack and field coil in said space at the lower portion of said housing to distribute the motor weight to the lower portion of the cleaner.

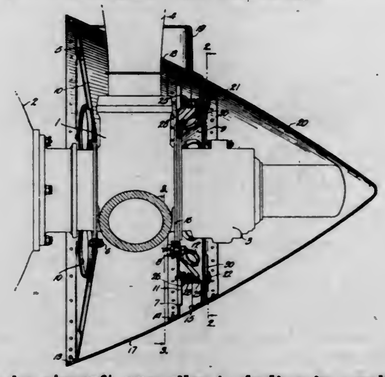
2,328,185

SPINNER

Edward B. Benson, Kansas City, Mo., assignor to The Benson Manufacturing Company, Kansas City, Mo., a corporation of Missouri

Application December 30, 1940, Serial No. 372,224

6 Claims. (Cl. 170—159)



6. An aircraft propeller including in combination a hub, a spinner streamlining said hub, said spinner comprising a portion stationary with said hub and a removable nose portion, said stationary portion being formed with openings for the passage of propeller blades, means for supporting said stationary portion from said hub, a diaphragm supported from said hub, said removable nose portion being formed with an inwardly directed flange, pins slidably positioned in said diaphragm, said flange being formed with hey-hole slots, said pins being formed with heads adapted to pass through the larger portions of said slots and to engage the metal bounding the smaller portions of said slots, springs for urging said pins to engaging position, and means for preventing relative rotation between said stationary portion and said nose portion when said nose portion is secured to said diaphragm.

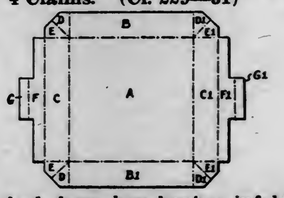
2,328,186

AUTOMATIC BOX

Samuel Bergstein, Cincinnati, Ohio, assignor to Robert Morris Bergstein and Frank David Bergstein, trustees

Application May 17, 1941, Serial No. 393,892

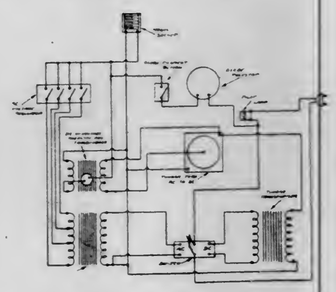
4 Claims. (Cl. 229—31)



1. A knocked down box having infolded side walls, outfolded end walls, overlapping panels articulated to said end walls, said overlapping panels being infolded, and auxiliary flange articulated to said overlapping panels, lying folded back under said infolded overlapping panels and adhesively secured to said end walls, said overlapping panels arranged to engage members on

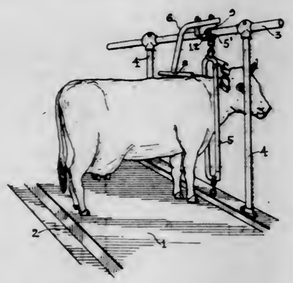
the side walls to maintain an erected condition of said box when it is erected, and said auxiliary flanges being less in length than said overlapping panels and of such length as to lie between said side wall members.

2,328,187
REPAIR OF BROKEN LIGHTING FILAMENTS
George R. Borden, Jr., Blaine, Wash.
Application March 6, 1943, Serial No. 478,286
4 Claims. (Cl. 176—7)



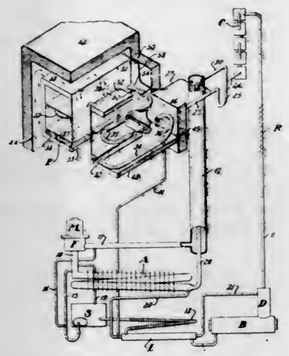
1. The described machine functioning through the instrumentality of a stepped-up potential to repair a break in the filament of an electric lamp: comprising the combination of two normally incomplete electric circuits, one A. C. and the other D. C. arranged to be selectively energized by standard line current and each including, with a transformer unit to perform the step-up office of the machine, a modifying voltage regulator and a switch for closing the respective circuits; a tail socket, common to both circuits, for the reception of the lamp to be repaired; and a normally open low-potential test circuit providing a circuit-closing switch and having functional connection with the lamp socket.

2,328,188
DAIRY ANIMAL RESTRAINING ARM
Andrew V. Borkey, Collegeville, Pa.
Application October 8, 1942, Serial No. 461,254
2 Claims. (Cl. 119—27)



1. A sanitary device for animals housed in a stall having a supporting member, comprising, a T shaped restraining arm having its stem adapted to be supported by said member and projecting in a direction so that the head of the T is substantially horizontal so as to overlie the animal's back, the head of the T arm being transversely unsymmetrical with regard to the T stem but substantially symmetrical with the animal's back.

2,328,189
REFRIGERATION
George A. Brace, Winnetka, and Alfred G. Gross, Wilmette, Ill., assignors to The Hoover Company, North Canton, Ohio
Application September 16, 1939, Serial No. 295,230
24 Claims. (Cl. 62—99)



1. Refrigerating apparatus including an insulated cooling chamber, a pair of laterally spaced freezing compartments arranged in said cooling chamber on opposite sides thereof to provide an air circulation channel extending substantially the full depth of said chamber therebetween, and a cooling apparatus having a cooling unit in each of said compartments and a cooling unit arranged to refrigerate air flowing through said chamber and said channel.

2,328,190
STABILIZING HYDROCARBON PRODUCTS
Robert E. Burk and Everett C. Hughes, Cleveland Heights, Ohio, assignors to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio
No Drawing. Application November 29, 1940, Serial No. 367,722
8 Claims. (Cl. 44—74)

1. A process of stabilizing a petroleum cut against oxidation, comprising adding diphenylthiocarbazide in an amount sufficient to act as an inhibitor.

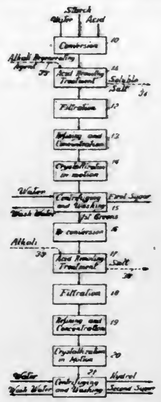
2,328,191
STARCH CONVERSION PROCESS
Sidney Mark Cantor, Riverside, Ill., assignor to Corn Products Refining Company, New York, N. Y., a corporation of New Jersey
Application March 20, 1940, Serial No. 325,036
5 Claims. (Cl. 127—40)

1. In the art of producing dextrose, or dextrose containing products, by the acid conversion of dextrose polymers, the improvement which consists in bringing the converted liquor into contact with an amine, represented by the formula

R—N—X

wherein N stands for nitrogen, X for 0 to 2 atoms of hydrogen, and R for a member of the class consisting of alkyl, aryl, aralkyl and cyclic groups of the primary, secondary and tertiary types substituted and unsubstituted and combinations of these groups, which amine is inert to dextrose and of sufficiently high molecular weight to be capable of forming an insoluble compound with

acid in the converted liquor; and effecting a removal between said insoluble compound and said



converted liquor, whereby acid is removed from said converted liquor.

2,328,192
METHOD OF HAIRDRESSING
Anthony Casieri, Chicago, Ill.
Application March 31, 1943, Serial No. 481,216
6 Claims. (Cl. 132—31)

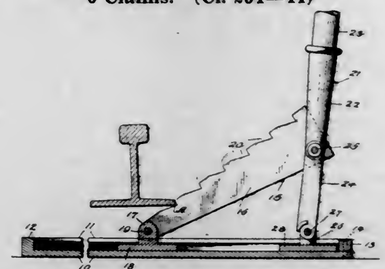


1. In the art of forming a coiffure, the steps of dividing the hair to form a lock, coiling the lock to form a closed helical curl, and twisting the lock as the curl is formed by turning the curl alternately in opposite directions a substantially one-half turn on an axis substantially parallel with said lock after each coil is formed.

2,328,193
VEGETATIVE PROPAGATION OF PLANTS
Lyman Chalkley, Brick Township, Ocean County, N. J.
No Drawing. Application March 12, 1940, Serial No. 323,625
13 Claims. (Cl. 47—58)

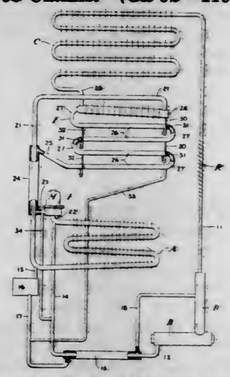
1. A process for the vegetative propagation of plants comprising the following steps: application of an auxin in an oily medium to a portion of an intact healthy plant which is suitable for use as a cutting; reduction in the average daily illumination of at least those parts of the plant above the point of application of the auxin to a level substantially below that which is optimum for assimilation and healthy growth; removal of the auxin treated portion from the parent plant to form a cutting.

2,328,194
RAILWAY TRACK LINER
John Clark, Walkerton, Ind.
Application March 5, 1943, Serial No. 478,158
6 Claims. (Cl. 254—44)



1. A railway track liner, comprising an elongated base, guide means on the base extending throughout substantially its entire length, a rail-engaging lever above the base and extending longitudinally thereof, a foot pivotally connected with the forward end of the rail-engaging lever and frictionally engaging the upper face of the base and guided by the guide means, said base extending forwardly beyond the rail-engaging lever for substantially the major portion of the length of the rail-engaging lever, an operating lever pivotally connected with the rear end of the rail-engaging lever and having its lower end extending beyond such pivotal connection, a foot pivotally connected with the lower end of the operating lever and engaging the upper face of the base and guided by the guide means, the two feet being of substantially the same area and having substantially the same frictional engagement with the base, the operating lever, the rail-engaging lever, and the feet being shiftable as a unit longitudinally of the base with relation thereto for substantially the major portion of the length of the rail-engaging lever so that the rail-engaging lever may engage the rail substantially throughout the major portion of the length of the rail-engaging lever, and stops secured to the opposite ends of the base in the path of travel of the feet.

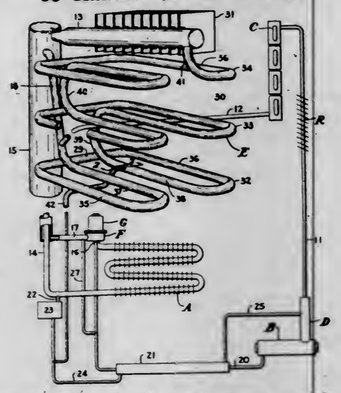
2,328,195
REFRIGERATION
Curtis C. Coons, North Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio
Application April 2, 1941, Serial No. 386,394
In Great Britain August 20, 1937
35 Claims. (Cl. 62—119.5)



18. That improvement in the art of absorption refrigeration which includes the steps of circu-

lating an absorbing solution between an absorbing zone in which refrigerant is added to the solution by contacting the same with a mixture of a pressure equalizing medium and refrigerant vapor and a generating zone in which refrigerant vapor is removed from the solution by the application of heat thereto, passing the vapor produced in the generating zone in heat exchange with cooling air to convert the vapor to liquid, supplying said liquid to an evaporating zone, circulating the pressure equalizing medium refrigerant vapor mixture through the absorbing zone and through the evaporating zone under conditions such that the liquid is distributed through the evaporating zone as it is evaporating into the pressure equalizing medium by the frictional drag exerted thereon by the pressure equalizing medium refrigerant vapor mixture flowing through such zone.

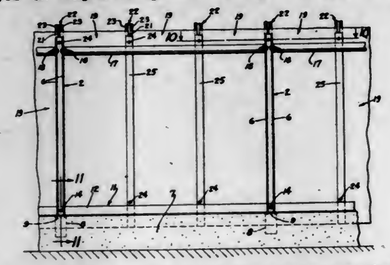
2,328,196
REFRIGERATION
Curtis C. Coons, North Canton, and William H. Kitto, Canton, Ohio, assignors to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application April 2, 1941, Serial No. 386,395
In Great Britain August 20, 1937
38 Claims. (Cl. 62—119.5)



15. That method of producing a refrigerating effect with the aid of a refrigerating system involving a source of refrigerant vapor, a refrigerant vapor liquefying means, an absorber, and an evaporating element having a passageway defining wall, which includes the steps of introducing refrigerant liquid into said passageway, circulating an inert gas through said passageway with sufficient pressure and velocity to bubble into and out of the liquid refrigerant and thereby to drag the liquid refrigerant through said passageway as it is evaporating into the inert gas to produce a refrigerating effect.

2,328,197
BUILDING STRUCTURE
James Cowin, Minneapolis, Minn., assignor to Cowin and Company, Minneapolis, Minn., a corporation of Minnesota
Application December 24, 1941, Serial No. 424,277
4 Claims. (Cl. 189—1)

1. In a building of the class described, a foundation comprising longitudinally extending base rails each having an upwardly extending flange, a plurality of semi-circular arches of angular cross-section each having its lower ends secured to the base rails, said arches being arranged in spaced parallel relation lengthwise of the building, horizontally disposed tie member interposed between and secured to said arches and cooperating therewith to provide a rugged supporting structure, a plurality of elongated wall plates seated against the outer surfaces of said arches and said tie members, said wall plates being relatively narrower than the spacing between said arches, whereby certain of the joints between said plates will be disposed between the arches and other joints will be disposed over the arches, the longitudinal edges of said plates being formed with outwardly turned flanges and the flanged edges of adjacent plates being disposed in contiguous relation, elongated clamping members of channel cross-section engaging the longitudinal edge portions of said plates and concealing the joints between said plates, one such clamping member being secured to each arch, and the channel members concealing the joints disposed between the arches having complemental strap-like members engaging the inner sides of the plates, and suitable bolts securing said clamping members to their respective arches and strap-like members, whereby all of said wall plates may be securely clamped to the supporting structures without the use of holes in the wall plates.

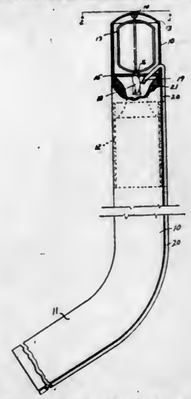


2,328,198
LOW ELECTRICAL RESISTANCE PAPER AND METHOD OF MAKING SAME
Franklyn E. Davenport, David C. Knowlton, and Robert W. McCormick, Watertown, N. Y., assignors to Knowlton Bros., a corporation of New York
No Drawing. Application April 12, 1939, Serial No. 267,468
18 Claims. (Cl. 92—21)

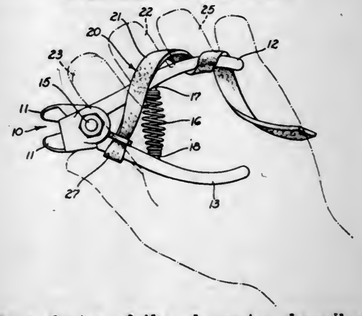
1. A paper of low resistance to electricity formed from a furnish stock composed of refined fibrous material and finely divided electrical conductive material of the first class intimately commingled in proportions, by weight, of approximately six and two-thirds times as much refined fibrous material as conductive material and compressed more highly and given more finish than obtained by a machine calender to render said paper highly conductive to electricity.

2,328,199
EMBALMING APPARATUS
Harry S. Day, North Benton, Ohio
Application April 28, 1942, Serial No. 440,766
4 Claims. (Cl. 27—24)

1. A noncollapsible tubular member open at both ends and provided with a flexible midsection, a secondary tubular member attached to the said tubular member one end of which secondary tubular member terminates inwardly from one end of the said tubular member and faces inwardly from the said end of the tubular member so that liquid introduced through the secondary member effects a jet pump action in connection with the said tubular member to assist in removing the clots and blood blocking formations from the vessels of a human body into which the said tubular members are adapted to be inserted.



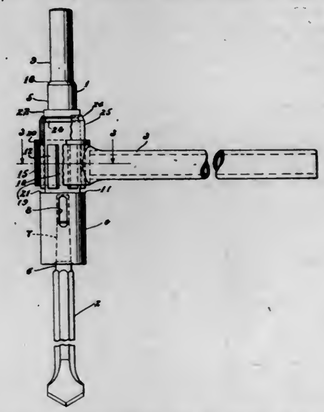
2,328,200
TOOL CONSTRUCTION
Grover C. Deakins, Orange, Calif.
Application January 30, 1943, Serial No. 474,165
6 Claims. (Cl. 30—291)



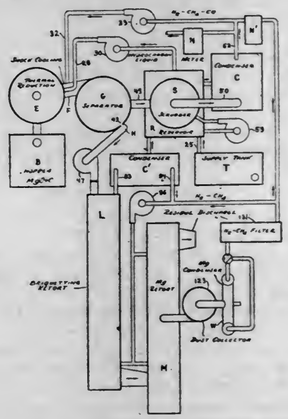
1. In a device of the character described, the combination of: a tool having two handles to be grasped by the user's hand; an elongated flexible holding member attached to one of said handles and having a portion wrapped around a portion of the other handle for frictional engagement therewith, thereby forming a holding loop between the two handles for engagement by the user's hand; and means on the tool retaining said wrapped portion of the flexible member against said handle portion but permitting lengthwise adjustment of the wrapped portion of the flexible member for varying the dimension of said holding loop.

2,328,201
BIT CONTROL FOR PERCUSSIVE TOOLS
Alonzo G. Decker, Jr., Baltimore, Md., assignor to The Black and Decker Manufacturing Company, a corporation of Maryland
Application November 1, 1940, Serial No. 363,811
3 Claims. (Cl. 255—37)

1. The combination with a bit holder for operation in impact transmitting relation to and with a power hammer bit, of an operating handle elongated transversely to the length of the bit, said handle having an apertured portion enclosing said bit holder and a bit controlling connection between the said enclosing portion and the bit holder, said connection comprising co-operating splines and grooves inwardly disposed on the said enclosing portion and outwardly disposed splines and grooves on said bit holder, said splines and grooves on the enclosing portion and on the bit holder being arranged in inter-engaging relation and having an excess of clearance radially and circumferentially, said holder having an upwardly disposed shoulder below the enclosing portion to support the handle on the holder, said holder also having a sleeve encircling the same and removably secured thereto above said enclosing portion and a ring encircling said holder above said enclosing portion, and engaged on one side by the lower end of said sleeve and on the other side by said enclosing portion, whereby the holder is supported on the handle.



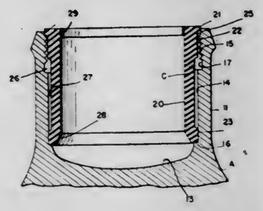
2,328,202
PROCESS FOR PRODUCING MAGNESIUM METAL
Henry A. Doerner, Pullman, Wash.
Application December 30, 1940, Serial No. 372,293
19 Claims. (Cl. 75—67)



1. A process for producing magnesium metal, comprising thermal reduction of magnesium oxide with carbon, wherein the magnesium occurs in vapor form intermingled with carbon monox-

ide and some finely divided solids corresponding to the original reagents, condensing the magnesium by a spray of hydrocarbon liquid at a rate to produce a shock cooling temperature at which all of the hydrocarbon liquid is vaporized except a limited amount sufficient to form a fluid paste with the magnesium and existing solids, separating said paste from the vapors and gas, next subjecting said paste to a two stage distillation, first to distill off the hydrocarbon liquid and produce a porous solid containing finely divided magnesium, then to distill the magnesium from the porous solid, and condensing the distilled magnesium.

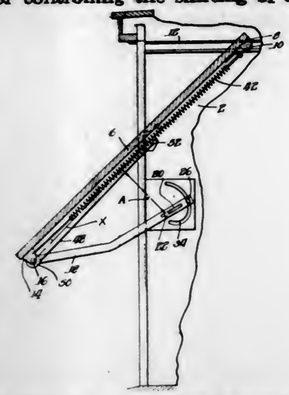
2,328,203
PAINT MASK STRUCTURE
James Edward Duggan, Detroit, Mich.
Application May 18, 1942, Serial No. 443,520
5 Claims. (Cl. 91—65)



3. Means for protecting a finished interior bearing surface and internal threads spaced longitudinally apart at one side of a cup-shaped member from paint and plating material applied to the bottom of said cup-shaped member, comprising a tubular member formed of resilient material and operable as a protecting sleeve within the cup-shaped member to cover simultaneously both the bearing surface and internal threads, said tubular member being provided upon its exterior at longitudinally spaced points thereof with laterally projecting annular enlargements or ribs adapted to have sealing engagement with interior portions of the cup-shaped member adjacent the remote ends of the bearing surface and threads whereby a vacuum is provided between the tubular member and cup-shaped member intermediate said enlargements to exclude paint and plating material applied to the bottom of said cup-shaped member, the inner end of said tubular member being beveled toward the bottom of the cup-shaped member to substantially eliminate any obstruction to the passage of paint or plating material onto the bottom of the cup-shaped member from a point within the tubular member.

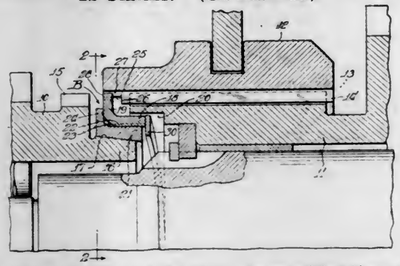
2,328,204
GARAGE DOOR
William D. Ferris, Sterling, Ill., assignor to Frantz Manufacturing Co., Sterling, Ill., a corporation of Illinois
Application January 22, 1942, Serial No. 427,700
8 Claims. (Cl. 20—19)

1. An overhead door construction comprising a frame having an opening to be closed, a door adapted to be moved from a substantially vertical position closing said opening to an open substantially horizontal position adjacent the upper part of said opening, lever means pivoted to the door, means forming a fixed pivot for said lever, counterbalancing means for the door, means forming a shiftable pivotal connection between said lever and said fixed pivot, and cam means for controlling the shifting of said pivot



during the opening and closing movements of the door.

2,328,205
CLUTCH
George E. Flinn, Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application April 13, 1942, Serial No. 438,668
12 Claims. (Cl. 192—53)

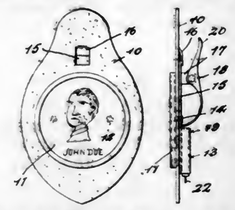


1. In a clutch mechanism, in combination with a pair of torque transmitting members to be synchronized, each having radially outwardly extending teeth, a jaw clutch sleeve having internal teeth meshing with the teeth of one of said members and axially slidable thereon into clutching engagement with the teeth of the other member, said sleeve teeth having base portions at least one of which extends axially beyond the tip portion thereof to define a corner recess, and a blocker ring having a radially outwardly extending lug received between the base portions of adjacent sleeve teeth to provide for limited oscillating movement of said ring relative to said sleeve, and having a radially outwardly extending blocker element arranged to be received in said recess and to be disposed in blocking relation to the end of said tip portion when said blocker ring is at one limit of said oscillating movement.

2,328,206
IDENTIFICATION BADGE HOLDER
Clarence D. Fowler, Glastonbury, Conn.
Application September 23, 1941, Serial No. 412,033
1 Claim. (Cl. 40—1.5)

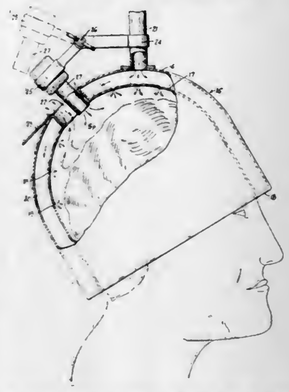
An identification badge holder comprising a flexible body member having a tongue adjacent one end offset from the vertical plane of the body member, a plate member in snug engagement with one side of the body member and fixed

thereto at a medial portion thereof, the upper end of the plate being positioned between the tongue and the body member, a spring clip mounted on the plate member for detachably



mounting the body member to a garment, and an identification card holding case fixed to the other side of the body member.

2,328,207
HAIR DRYING HOOD
Annie R. Freeman, Jamaica, N. Y.
Application November 23, 1942, Serial No. 466,657
3 Claims. (Cl. 34—62)



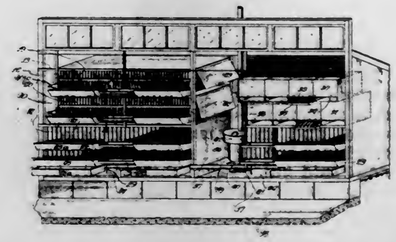
1. In a hair drying apparatus, the combination with a helmet having spaced inner and outer walls, said inner wall being perforated, and means to deliver a blast of hot air into the space, a bracket fixed on the hot air inlet, a motor driven fan housing pivoted to said bracket, means to clamp said housing in adjusted position to said bracket, a discharge tube from said fan, and means to enter said tube into the space below the helmet walls.

2,328,208
INDICATOR
Emery G. Friedman, Tampico, Mexico
Application May 6, 1941, Serial No. 392,158
6 Claims. (Cl. 244—1)



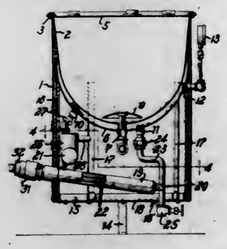
1. In an airplane, a record preserving apparatus comprising a cylinder mounted in the tail portion of the airplane and having an open end at the end of said tail portion, a container slidably fitted in the outer end of the cylinder, a recording device in the container, a cap closing the open end of the container, means removably connecting the cap to the tail portion, power means at the inner end of the cylinder, means causing the power means to become active for forcing the container outwardly of the cylinder, and a parachute connected to the container.

2,328,209
POULTRY HOUSING
Frederick H. Giguere, Joliet, Ill.
Application April 8, 1939, Serial No. 266,852
3 Claims. (Cl. 119—21)



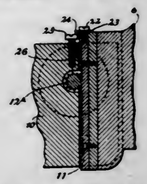
1. A poultry brooding and keeping installation comprising a poultry house having rear and side walls, and a structure substantially forming a frontal filler between said side walls, said structure being divided laterally into battery brooders, a heat room, and frontal compartments combining with a portion of the floor space in said poultry house to form a pen for growing and adult poultry, said compartments and floor space adjoining the lower portion of said heat room and the battery brooders adjoining the upper portion thereof, whereby to maintain a much higher temperature in the battery brooders than in said compartments and floor space.

2,328,210
KETTLE
Fred H. Groen, Jr., Chicago, Ill., assignor to Groen Mfg. Co., Chicago, Ill., a corporation of Illinois
Application December 17, 1941, Serial No. 423,377
6 Claims. (Cl. 219—43)



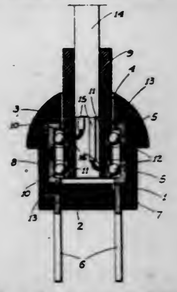
1. In a steam heated kettle, the combination with a kettle, and a steam jacket secured thereto and having a steam inlet and a condensate outlet, of a steam generating unit comprising a plurality of inclined tubes connected at their lower ends to a water manifold and at their upper ends to a steam chamber, an electrical heater within each of said tubes, a connection from the steam chamber to the steam inlet of said steam jacket, and a connection from the water manifold to the condensate outlet of said steam jacket.

2,328,211
MICROSCOPE
Kennard W. Harper, East Aurora, and Erwin O. Roeder, Ebenezer, N. Y., assignors to Spencer Lens Company, Buffalo, N. Y., a corporation of New York
Application April 2, 1941, Serial No. 386,467
2 Claims. (Cl. 88—39)



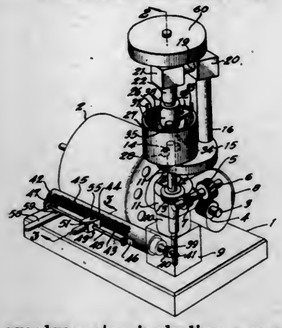
1. In a device of the character described, a supporting arm having a guideway in one face thereof, a member vertically adjustable in said guideway, and an adjustable threaded member threaded into the surface of said supporting arm adjacent said guideway, substantially in the direction of the longitudinal axis of the guideway, a second threaded member threaded into said vertically adjustable member adjacent said guideway and said first threaded member, one of said threaded members having a stop surface thereon and the other having means for engaging said stop surface for adjustably limiting the vertical movement of said vertically adjustable member.

2,328,212
ELECTRIC SWIVEL
Everette J. Heiner, Fresno, Calif., assignor of one-third to Harry Cleason and one-third to Louis J. Heiner
Application February 13, 1942, Serial No. 430,734
1 Claim. (Cl. 173—324)



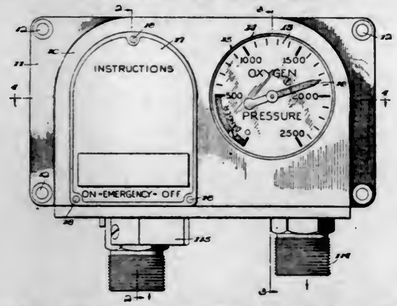
An electric swivel comprising an insulation sleeve having a two-wire electric cord therein, a pair of annular metal ball bearings each including an inner race and an outer race, the inner races being fitted on the sleeve adjacent one end in spaced and non-axially movable relation, an insulation ring on the sleeve between and engaging the inner races to maintain the bearings spaced, one wire passing radially through the sleeve and engaging one inner race while the other wire likewise passes through the sleeve and engages the other race, an insulation body forming a cup initially open at one end into which the outer races fit, the sleeve projecting from the open end of the body, an insulation spacer ring in the body between and engaging the outer races, one outer race engaging the bottom of the cup, electric connection elements embedded in the body and exposed at the closed end thereof, one element extending to and engaging one outer race and the other element extending to and engaging the other outer race when the bearings are disposed in the cup, and a cap fitted on the body over its open end and about the sleeve, said cap engaging the outer race of the adjacent bearing whereby axial displacement of both bearings and the sleeve is prevented.

2,328,213
AMALGAMATOR
George M. Hollenback, Los Angeles, Calif.
Application December 12, 1941, Serial No. 422,643
5 Claims. (Cl. 259—85)



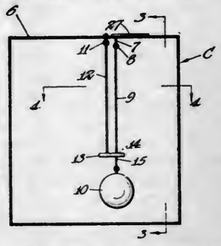
1. An amalgamator including a mortar having an annular groove, a pestle for the mortar confined in said groove having a diameter less than the transverse width of the groove and free to rotate therein, means for rotating the mortar, and supporting means for said pestle permitting lateral play thereof in the groove as the mortar rotates.

2,328,214
OXYGEN REGULATOR
Bradford B. Holmes, New York, N. Y., assignor to Bendix Aviation Corporation, Bendix, N. J., a corporation of Delaware
Application December 26, 1940, Serial No. 371,840
8 Claims. (Cl. 128—142)



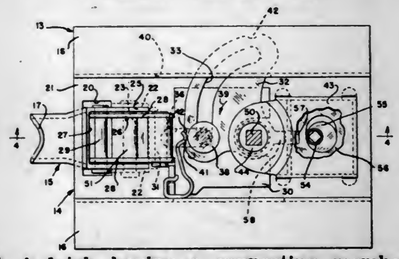
1. A respiratory apparatus comprising a housing, a casing arranged within said housing and forming a pair of substantially cylindrical members, one of said members defining a pressure reduction chamber and the other of said members defining a breathing chamber, a source of respirant gas under pressure communicating with said reduction chamber, valve means for controlling communication between said reduction chamber and said source, an aneroid mounted within said reduction chamber, a toggle mechanism actuated by said aneroid for opening said valve means when the pressure within said reduction chamber has dropped below a predetermined value and for closing said valve when the pressure attains a predetermined value within said reduction chamber, a passage formed in said casing for communicating said reduction chamber with said breathing chamber, a second valve means for controlling communication between said passage and said breathing chamber, a resilient wall mounted within said breathing chamber and a second toggle mechanism actuated by said wall upon a reduction of pressure within said breathing chamber for opening said last-named valve means to communicate said breathing chamber with said reduction chamber.

2,328,215
BURGLAR ALARM FOR MOTOR VEHICLES
Marcellus Luther Jacobs, Minneapolis, Minn.
Application May 13, 1942, Serial No. 442,731
2 Claims. (Cl. 200—52)



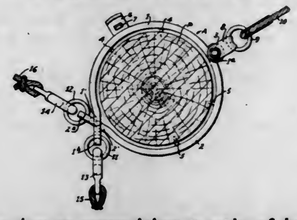
1. In an alarm device for vehicles, a pair of relatively movable contact arms, means for supporting said arms, the first of said arms having a portion substantially encircling the second of said arms in spaced relation thereto, said encircling portion defining an elongated enclosure, the second of said arms having its encircled portion cross sectionally elongated, and one of said arms being rotatable relative to the other to vary the spacing between said elongated enclosure of said first arm and said cross sectionally elongated portion of said second arm.

2,328,216
LATCH CONSTRUCTION
Joseph G. Joachim, Detroit, Mich., assignor to Ferro Stamping & Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application October 7, 1940, Serial No. 360,178
6 Claims. (Cl. 292—110)



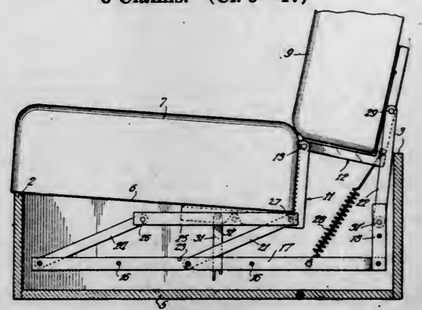
1. A latch having a supporting member, a bolt member pivotally mounted on the supporting member at one side of the latter for swinging movement into and out of engagement with a keeper, a plate mounted on the supporting member at the opposite side of the latter for sliding movement relative thereto in a direction toward and away from the bolt, a link having one end connected to said plate and having the other end extending through the supporting member, and means connecting said other end of the link to the bolt at a point spaced from the pivotal connection of the bolt with said supporting member for swinging the bolt in opposite directions as said plate is moved in opposite directions.

2,328,217
GUY TONGS
Orville H. Johnson, Wausa, Nebr., assignor to James R. Kearney Corporation, St. Louis, Mo., a corporation of Missouri
Application July 10, 1942, Serial No. 450,485
6 Claims. (Cl. 189—31.5)



1. Guy tongs comprising a pair of tong members, means for pivotally connecting said tong members together at corresponding ends thereof, said tong members being provided with portions adapted for disposition in overlapping and underlapping relation, and a plurality of guy lines attached to said tong members, one of said guy lines being attached to said tong members at the point of pivotal connection thereof and a pair of said guy lines being attached to the outer end portions of said overlapping and underlapping portions of the tong members respectively, said tong members being adapted to be drawn to a contracted condition where they closely embrace a support to which the guy tongs are to be applied by pulling said pair of guy lines in different directions.

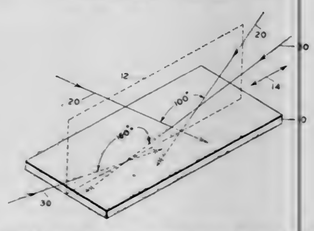
2,328,218
STUDIO COUCH
Dwight N. Kelly, Chicago, Ill., assignor to A. Brandwein & Company, Chicago, Ill., a corporation of Illinois
Application November 15, 1939, Serial No. 304,517
8 Claims. (Cl. 5—47)



1. In a couch, the combination of a back cushion movable into horizontal or back-forming positions, a seat cushion, said cushions being pivotally connected adjacent their meeting edges, and a supporting assembly at each end of said couch, each of said assemblies including a pair of arms pivotally secured in spaced relation at one of their respective ends to the couch base, and one of said arms pivotally secured at the other end to the seat cushion adjacent said meeting

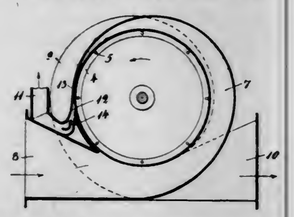
edge thereof, a link member connecting said arms, and another arm pivotally secured at one end to the couch base adjacent the back thereof and at the opposite end to the back cushion, at a point spaced from said meeting edge thereof, and resilient means secured to said back cushion adjacent said last mentioned edge and the couch base.

2,328,219
LIGHT POLARIZER AND PROCESS OF MANUFACTURE
Edwin H. Land, Cambridge, Mass., assignor to Polaroid Corporation, Cambridge, Mass., a corporation of Delaware
Original application October 29, 1938, Serial No. 237,783. Divided and this application January 8, 1943, Serial No. 471,753
25 Claims. (Cl. 88—65)



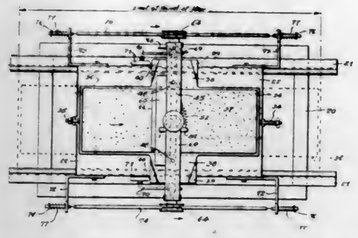
1. A light polarizer comprising a sheet of material from the class consisting of the transparent vinyl compounds, the molecules of said sheet being substantially oriented, said sheet having a dichroic substance from the class consisting of the stains and dyes incorporated therewith.

2,328,220
ROTARY DEFLECTION SEPARATOR
Erik Torvald Linderoth, Enkoping, Sweden
Original application December 15, 1938, Serial No. 245,990. Divided and this application December 9, 1939, Serial No. 308,493. In Sweden December 18, 1937
5 Claims. (Cl. 183—77)



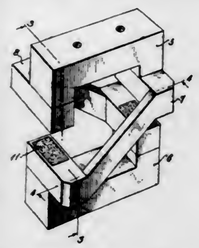
1. A rotary deflection separator for a gaseous medium comprising, a housing, a rotor mounted within said housing having a surface provided with gas flow impelling means and openings for the medium, means for rotating said surface at a high peripheral velocity, means for leading a current of the medium to be treated against one side of the rotating surface, a diffuser channel arrangement communicating with the opposite side of the rotating surface to receive the filtered medium and adapted to assist in creating a drop in static pressure between the opposite sides of the said surface and to transform kinetic energy of the medium after passing through the rotating surface into pressure energy for further transport of the treated medium, a discharge conduit on the inlet side of the surface for carrying away the separated solid particles accumulating close to the rotating surface, said discharge conduit being provided with an inlet opening for said solid matter situated close to the surface, and means for directing a jet of scavenging gaseous medium to blow said solid particles into said inlet opening.

2,328,221
SPECIMEN BLADE SHARPENER
Julius Lipshaw, Detroit, Mich.
Application January 27, 1941, Serial No. 376,055
8 Claims. (Cl. 51—65)



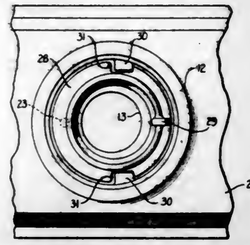
8. In a sharpening device for histological specimen blades, a sharpening element having a sharpening surface, means for floatingly suspending said element, a blade holder element movable to present either side of the edge of a blade therein to said surface, means for shifting said elements relative to each other, and means on said sharpening element and means on said blade holder independent of said shifting means cooperating by mutual contact positively to position initially said sharpening element in its floating suspension during a portion of the relative movement between said elements prior to blade contact and to control the contact-movement between said sharpening surface and a blade in said holder element.

2,328,222
GEOPHONE
Malcolm D. McCarty, Dallas, Tex., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
Application October 1, 1941, Serial No. 413,117
9 Claims. (Cl. 177—352)



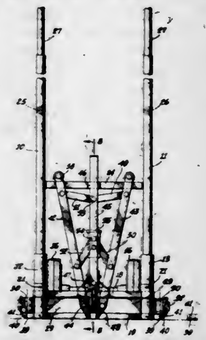
9. In an instrument adapted to detect seismic waves by generating electrical signals corresponding to them of the type which utilizes alternating flux paths that are distinct from the source of direct flux, the improvement which comprises low reluctance conductors comprising links connecting like poles of permanent magnets for producing direct flux, said links consisting of high permeability metal filings and a plastic material surrounding said filings and bonding them together into the desired shape.

2,328,223
BATTERY FILLING VENT
Leslie H. Middleton, Toledo, Ohio
Application May 23, 1940, Serial No. 336,796
3 Claims. (Cl. 136—178)



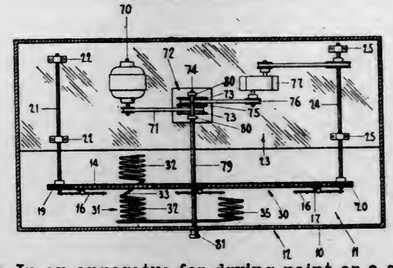
2. In a device of the class described, a battery cell having an air-tight enclosure to contain electrolyte at a predetermined level, a chamber formed in the upper wall of the enclosure, a tubular portion depending from the floor of the chamber and opening at substantially the level of the electrolyte, a closure and venting cap removably positioned on the exterior portion of the chamber and adapted to be removed manually for filling the enclosure to the predetermined level with water, whereby air entrapped above the opening of the depending portion determines the amount of water added, a pair of planar surfaces formed in the floor of the chamber transecting to form an obtuse angular ridge, one of the planar surfaces being provided with an aperture in communication with the enclosure, a perforated valve member having at least one flat side adapted to tilt on the ridge to cooperate by its flat side with the planar surfaces successively, with one planar surface by gravity to close the aperture forming a vent for the entrapped air when the cap is removed from the chamber and with the other planar surface by the action of the cap against the action of gravity when the cap is driven home to close the chamber, and integral means projecting from the chamber walls and cooperating with the valve member to maintain the valve member in centered relation with the chamber to prevent binding with the walls thereof.

2,328,224
CLAMP TRUCK
Robert James Moorehead, Riverside, Calif.
Application May 11, 1942, Serial No. 442,533
16 Claims. (Cl. 214—65.5)



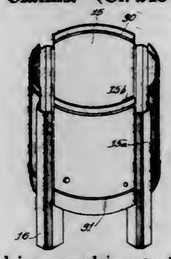
1. A jaw for clamp trucks comprising a transverse bar, a forwardly extending arm pivotally mounted at the end of the bar for pivotal movement in a plane transverse with respect to the length of the bar, means secured to the end of the bar extending forwardly adjacent the arm, said means serving to limit rocking movement of the arm relative to said bar.

2,328,225
RADIO FREQUENCY INDUCTION HEATING APPARATUS
James J. Morey, Brooklyn, N. Y.
Application December 6, 1940, Serial No. 368,959
2 Claims. (Cl. 34—1)



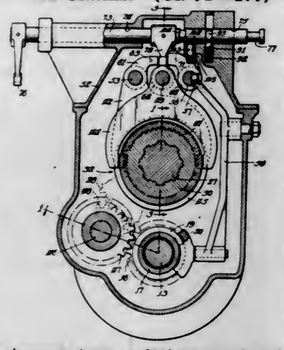
2. In an apparatus for drying paint or a similar coating upon metal without discoloring said coating, comprising a casing having a heating chamber and an opening in a wall providing access to said chamber, a radio frequency induction coil operatively mounted in said chamber, said coil having winding sections positioned coaxially in spaced relation and forming an open top passageway therebetween, the turns in both coil sections running in the same direction, an endless overhead travelling conveyor having a portion thereof movably mounted above said passageway, said conveyor having inverted T-shaped carrier arms supported thereon, each adapted to support a plurality of said coated metal articles in said passageway with the respective metal surfaces held transversely of and passing through the axis of said coils, a source of electric current, means for generating a radio frequency induction field of predetermined intensity in said coil sections, and manually adjustable means for varying the speed of said conveyor in proportion to the mass of metal of said articles being heated to cause motion of said conveyor in timed relation with the time required to heat and dry the coated metal articles passing through the effective area of said induction field.

2,328,226
WASHING MACHINE
Irving Nachumsohn, Chicago, Ill.
Application April 12, 1941, Serial No. 388,324
2 Claims. (Cl. 248—152)



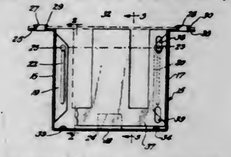
1. In a washing machine or the like, a wall designed to enclose an insulating space around the tub of the machine, and means to augment said space comprising a series of laterally-spaced reinforcing outward projections from said wall, said projections forming internal pockets communicating with said space.

2,328,227
TRANSMISSION CONTROL
Palmer Orr, Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application May 25, 1942, Serial No. 444,301
11 Claims. (Cl. 74—477)



1. In a torque transmitting mechanism having a plurality of shiftable elements, means for effecting a mutually exclusive operation of said elements comprising a shifter for engaging said elements, means for moving the shifter across the elements to select one element, interlock means between adjacent elements and additional interlock means between one element and the shifter.

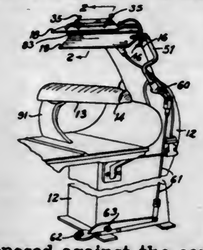
2,328,228
CORE ASSEMBLY
Oscar A. Pearson, Oak Park, Ill., assignor to Jefferson Electric Company, Bellwood, Ill., a corporation of Illinois
Application June 10, 1941, Serial No. 397,491
4 Claims. (Cl. 175—356)



1. A core assembly for electrical apparatus comprising, in combination, a stack of substantially E-shaped laminations of magnetic material and a cooperating stack of substantially I-shaped laminations of magnetic material adapted to extend across and close the open side of the stack of E-shaped laminations, substantially E-shaped outer laminations on each side of the stack which conform to the E-shaped stack and have outer legs which extend across both the E-shaped and I-shaped laminations, said outer legs having apertures near the unconnected ends thereof, a substantially U-shaped frame providing a channel into which the stacks of laminations and outer laminations snugly fit, said frame having integral detents which fit into said apertures, and means comprising lugs integral with the frame and folded over the laminations for holding the laminations in place with respect to the frame.

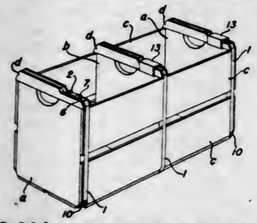
2,328,229
PRESSING MACHINE
Otto H. Pearson, Salt Lake City, Utah, assignor to Louis N. Strike, Salt Lake City, Utah
Application April 20, 1942, Serial No. 439,663
4 Claims. (Cl. 223—57)

1. In a pressing machine, including a downwardly opening wedge-shaped pressing head and a conformably shaped stationary buck downwardly upon which the head is movable in the pressing operation, said buck consisting of a rigid wedge-shaped core member having upwardly opening recesses spaced therealong, a ridge member, springs seated in said recesses and yieldingly engaging and supporting the ridge member above and along the core member, and side



members disposed against the core member and having upper, inwardly-curved extensions movably seated on the ridge member in staggered relation therealong, the side members being forced to swing laterally by the wedge-shaped core member when pressure of the head on the ridge member forces downward movement of the ridge member.

2,328,230
BOX
Alfred L. Rosenmund, Woodport, N. J., assignor to Stapling Machines Co., a corporation of Delaware
Application August 23, 1940, Serial No. 353,827
3 Claims. (Cl. 217—66)

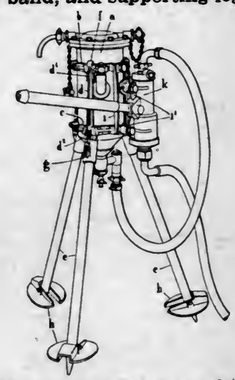


1. D eld box having top cleats, a releasable reenfo metal band surrounding the box and overlying the top cleats under tension, a buckle secured to one end of the band, the other end of the band having a hole formed therein and passing through the buckle and bent back upon the body of the band to hold the band under tension, and a detachable locking member overlying the buckle and the bent end of the band and connected to a top cleat to lock the bent end of the band in holding position; the sides of the box and the top cleats being recessed to receive the band and hold it against lateral shifting.

2,328,231
SUPPORT FOR FILTERING APPARATUS
John George Royce, London, England, assignor of one-half to The Paterson Engineering Company Limited, London, England
Application October 27, 1941, Serial No. 416,708
In Great Britain August 19, 1940
5 Claims. (Cl. 248—150)

5. A support for portable filtering and like apparatus comprising upper and lower bands for removable application to a part of the apparatus, the upper band being provided with slots

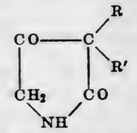
having parallel undercut side walls and the lower band having dovetailed slots, brackets provided with rectangular upper portions slidably engaged in the slots of the upper band and having dovetail lower portions wedged in the slots of the lower band, and supporting legs carried by



said brackets, spring catches on the rectangular portions of said brackets adapted to snap over the upper band to retain said brackets in operative position, sockets of said brackets receiving said legs.

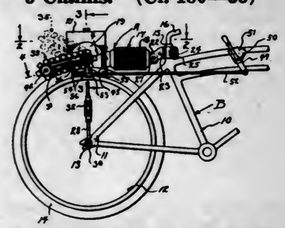
2,328,232
2,4-DIOXO-3,3-DIALKYL-PYRROLIDINES AND PROCESS FOR THE MANUFACTURE OF SAME
Otto Schnider, Basel, Switzerland, assignor to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey
No Drawing. Application November 6, 1939, Serial No. 303,161. In Germany November 30, 1938
11 Claims. (Cl. 260—313)

1. A 2,4-dioxo-3,3-dialkyl-pyrrolidines of the formula



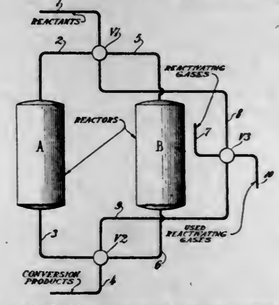
where R and R′ are alkyl groups each containing two to six carbon atoms.

2,328,233
POWER DRIVE FOR BICYCLES
George S. Schunk, West Allis, Wis.
Application April 26, 1941, Serial No. 390,604
3 Claims. (Cl. 180—33)



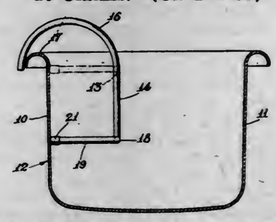
1. In a bicycle including a frame and a wheel, an internal combustion engine rigidly mounted upon the frame including a crankshaft extending over the wheel, a supporting frame rockably mounted upon the crankshaft and extending outwardly therefrom and movable independently of the engine, a shaft carried by the outer end of the supporting frame, sprocket wheels on the shaft at the outer end of the supporting frame and on the crankshaft, an endless track including sprocket chains trained about said sprocket wheels disposed above the bicycle wheel for driving engagement therewith, an operating arm carried by the inner end of the supporting frame, and manual means for actuating said arm.

2,328,234
PROCESS FOR REACTIVATING USED CATALYSTS
Jean Delattre Seguy, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application August 15, 1940, Serial No. 352,681
3 Claims. (Cl. 196—52)



3. In a catalytic conversion process wherein a stream of hydrocarbon reactants heated to a desired conversion temperature is passed in contact with a bed of catalytic material capable of effecting conversion while passing a stream of oxygen-containing reactivating gases in contact with a similar bed of catalytic material to burn therefrom carbonaceous substances deposited during a prior processing period and wherein provisions are made for alternately processing and reactivating the separate beds of catalytic material, the improvement which comprises stopping the injection of oxygen in the reactivating gases charged to the bed of catalyst undergoing reactivation when reactivation is substantially completed, passing the oxygen-free gases in contact with the reactivated bed in a direction opposite to the direction of flow of said reactivating gases and for a period of time sufficient to substantially uniformly distribute heat accumulated at the outlet of the bed through other portions thereof.

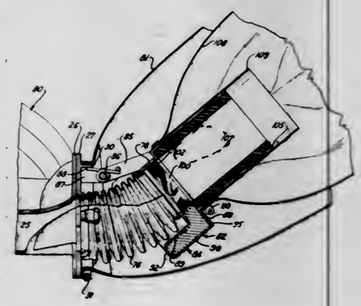
2,328,235
SITZ BATH
Henry Setzler, Chicago, Ill.
Application July 14, 1941, Serial No. 402,383
10 Claims. (Cl. 4—185)



1. A sitz bath attachment for a conventional

bath tub having, in combination, two spaced vertical hanger arms having parallel upper curved portions forming hooks adapted to engage over the outer edge of the top rim of one side wall of the tub and with the vertical portions of said arms extending downwardly in substantially spaced relation inwardly from said side wall, a horizontal lower cross bar connecting the lower ends of said arms and having laterally extending members adapted for engagement with the inside of said wall and to support said cross bar in predetermined spaced relation to said wall, and a horizontal upper cross bar connected at opposite ends to said arms, and adapted to extend in spaced relation to said wall to support the legs of the patient.

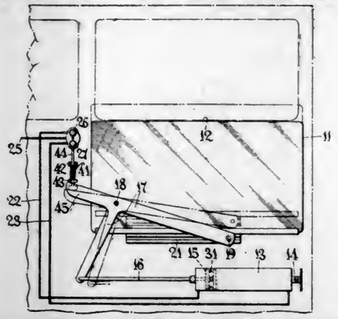
2,328,236
SUCTION CLEANER
Thomas A. Stoner, North Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application December 7, 1939, Serial No. 307,968
4 Claims. (Cl. 183—51)



1. A sound-reducing resonant muffler adapted to be mounted on a cleaner body in communication with the suction system of a suction cleaner and comprising, a muffler casing and perforated conduit cooperating to define a resonant chamber of a volume calculated to reduce sound vibrations in the moving air stream in a suction cleaner, said resonant chamber extending longitudinally and laterally beyond said conduit, and means connecting said conduit to said cleaner body and to the suction system, said resonant chamber telescoping said connecting means, extending therealong and slightly therebeyond laterally to provide protecting means for said connecting means.
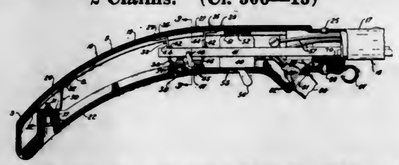
2,328,237
WINDOW OPERATING MECHANISM
Richard W. Treverton, Buffalo, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.
Application October 15, 1941, Serial No. 415,104
9 Claims. (Cl. 268—125)

1. In a window construction and operating means therefor, a framing structure having a well and a window slidable therein between an opened position in the well and a closed position, fluid pressure operated means for moving the window between said positions, spring means compressed as the window approaches fully opened position for urging initial opening movement of the window to a point above the well, spring pressed latch means effective to hold the window against such motion by the spring means,



and manually operated means for releasing the latch means.

2,328,238
SUCTION CLEANER
Charles G. Troxler, North Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application December 23, 1940, Serial No. 371,290
2 Claims. (Cl. 306—13)



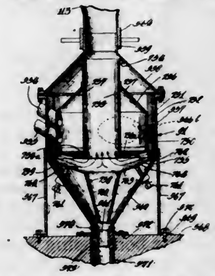
2. In a suction cleaner, a cleaner body, a handle pivotally mounted on said body, handle control means for controlling the positions of said handle relative to the cleaner body, means for actuating said control means, a hand grip formed in cooperating sections attached to the upper end of said handle, means on one of said hand grip sections defining a substantially semi-circular recess, another of said hand grip sections having a substantially semi-circular recess cooperating with said first mentioned recess to provide an annular walled chamber to pivotally support said actuating means, said semi-circular recess being at the meeting surfaces of said hand grip sections to form said annular walled chamber transversely of said hand grip at said meeting surfaces.

2,328,239
PROJECTOR SHUTTER
Raymond W. Wengel, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application July 25, 1940, Serial No. 347,442
10 Claims. (Cl. 88—16.6)



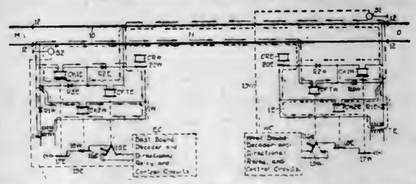
1. In a duplex projection apparatus, the combination with a pair of illuminating and optical assemblies each including a light condenser lens and a projection lens and each for projecting a light beam onto the same area, of a pair of shutter assemblies respectively positioned between said condenser lens and said projection lens and each including a pair of shutter blades oppositely movable to open and closed positions with the juncture of said blades centrally of the respective light beam, and simple harmonic motion driving means moving the blades of one shutter assembly toward each other each with simple harmonic motion to close them, and simultaneously moving the blades of the other shutter assembly away from each other each with simple harmonic motion in quadrature to the movement of the blades of said one shutter assembly and to open said blades of said other shutter assembly.

2,328,240
PROCESSING OF MATERIALS
Edwin L. Wiegand, Pittsburgh, Pa., assignor to Orefraction Incorporated, Pittsburgh, Pa., a corporation of Pennsylvania
Original application December 7, 1939, Serial No. 308,002. Divided and this application November 2, 1940, Serial No. 364,072
4 Claims. (Cl. 83—93)



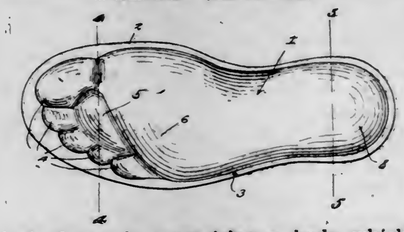
1. Separating means of the fluid flow type, comprising: means providing a substantially vertical passage of approximately uniform cross-section; means providing a substantially vertical separating column connected at its lower end to the upper end of said passage, the lower portion of said separating column increasing in cross-section upwardly to a cross-section substantially larger than the cross-section of said passage; means for causing a stream of fluid to progress in a generally radially inward direction to the lower end of said passage and enter the lower end of said passage and move upwardly in said passage and said separating column; and means causing particles to be separated to fall into said radially inwardly progressing portion of said stream of fluid before said stream enters the lower end of said passage.

2,328,241
CODED TRACK CIRCUIT SIGNALING SYSTEM
Sedgwick N. Wight, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.
Application July 26, 1941, Serial No. 404,212
19 Claims. (Cl. 246—38)



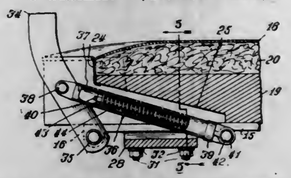
1. In combination with a section of track divided from adjacent sections by insulating joints, a single wave rectifier for each end of said section, a track relay for each end of said section each connected in series with the associated single wave rectifier and connected across the rails tion, another single wave rectifier at each end of of said section at that end, said rectifiers being so poled that one rectifier allows current to flow from one rail and the other rectifier allows current to flow from the other rail, a source of alternating current available at both ends of said secsaid section, a coding contact at each end of said section, a transformer at each end of said section having its primary winding energized from said source and the secondary windings of which are connected in series with the associated coding contact and said another rectifier, said transformers being so connected and said other rectifiers being so poled in the secondary windings that current impulses are alternately applied to opposite ends of said section each current impulse being of a polarity so that it cannot flow through the track relay and its associated rectifier at that end but can flow through the track relay and its associated rectifier at the other end, a check relay connected in multiple with each rectifier associated with a track relay, and decoding electro-responsive means controlled by the track relay and check relay at one end of said section.

2,328,242
SOLE
Lathrop Milton Witherill, Pensacola, Fla.
Application November 9, 1942, Serial No. 465,042
2 Claims. (Cl. 36—59)



1. A shoe sole comprising a body which, in outline, longitudinal section and cross section, is a duplication of the tread surfaces of the heel, arch, ball and toes of the human foot.

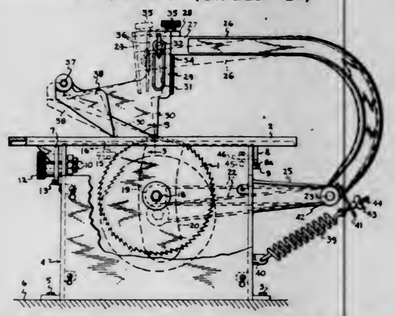
2,328,243
CHAIR
Glenn D. Wood, Elkhart, Ind., assignor to Posture Research Corporation, Elkhart, Ind., a corporation of Indiana
Application April 28, 1941, Serial No. 390,684
6 Claims. (Cl. 155—164)



1. A chair embodying therein, seat providing means having a recess in each rear end corner and a channel in its bottom surface along one side that opens into an associated recess, supporting means for said seat providing means, a back rest having a normal position with respect to said seat providing means, supporting arms

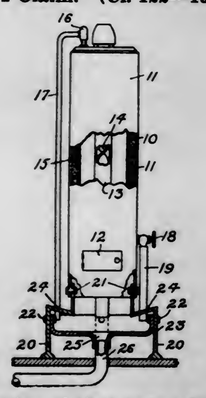
one connected to each side of the back rest and each having a bottom end portion disposed in a recess and being pivotally connected to one of said first mentioned means, and resilient cushioning means for at least one of said arms having a part thereof disposed in said channel in said one side of the seat providing means so as to be covered from above thereby and operatively connected at one end to said one of said arms and also operatively connected at its other end with one of said first mentioned means.

2,328,244
CIRCULAR SAW MACHINE
William H. Woodward, Detroit, Mich.
Application February 24, 1941, Serial No. 380,107
11 Claims. (Cl. 143—41)



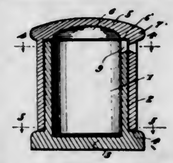
10. In a circular saw machine, the combination with a circular saw and a table for supporting work fed to said saw, said saw being normally disposed substantially in its entirety below the work surface of said table, of a control element normally in the path of work advancing to said saw and movable by the work to clear said path, and a connection from said element to the saw for raising the saw proportionately to the movement of said element, whereby the depth of the cut taken by the saw is regulated by the thickness of the work.

2,328,245
WATER HEATER WITH SAFETY DRAIN
Morris Yavitch, Los Angeles, Calif.
Application March 24, 1941, Serial No. 384,915
1 Claim. (Cl. 122—13)



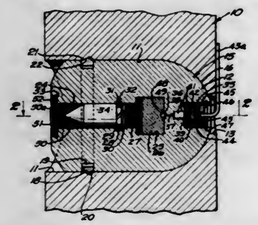
A water heater of that type which has a surrounding jacket, the jacket having an open lower end which is lower than the boiler, a plurality of legs attached to the jacket, and a support upon which said legs rest, the combination with said heater of an open topped tray having its sides attached to the said legs, the legs being bent outwardly between the jacket and the said support so that the tray is extended in all lateral directions beyond the lower end of the jacket so that any water which escapes from the boiler through a crack therein will be directed downwardly by the jacket and will be caught in said tray, the said upper surface of the bent portions of the legs being inclined downwardly and inwardly whereby any water which falls on said surface is caused to flow into the tray, and a drainage pipe attached to said tray through which the water therein is conducted to waste.

2,328,246
CONDIMENT HOLDER
Henry R. Albion, Atlanta, Ga.
Application April 9, 1942, Serial No. 438,309
2 Claims. (Cl. 65—45)



1. A condiment holder comprising a body having a cylindrical wall formed with an outlet, a cover having a cylindrical wall fitting snugly about the wall of the body and formed with an outlet moved into and out of register with the outlet of the body by turning the cover about the body, the outlet of the body being tapered toward its outer end, and the outlet of the cover flaring toward its outer end.

2,328,247
CASING GUN
Ford I. Alexander, Whittier, Calif., assignor to Lane-Wells Company, Los Angeles, Calif., a corporation of Delaware
Application December 8, 1941, Serial No. 422,177
13 Claims. (Cl. 164—0.5)

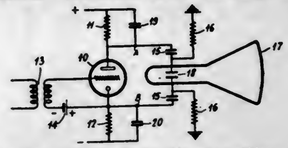


1. In a casing gun, a body containing an outwardly opening powder chamber, a relatively small flame duct opening inside said powder chamber, a fuse receiving socket alined and communicating with said flame duct, and a recess sunk in an outside surface of said body and extending inwardly to said socket, said recess being adapted to receive a hydrostatic seal.

2,328,248
SAW-TOOTH WAVE GENERATOR
Robert Andrieu, Berlin, Germany; vested in the Alien Property Custodian
Application February 27, 1937, Serial No. 128,089
In Germany February 28, 1936
9 Claims. (Cl. 250—36)

1. A sawtooth wave generator comprising a

plurality of condensers, a resistive member connected substantially in parallel with each of said condensers, a thermionic vacuum tube having at least an anode and a cathode, means for maintaining said tube normally impervious to current flow during the charging of said condensers a source of electrical energy, one of said resistance-condenser combinations having one terminal thereof connected to the positive terminal of the energy supply and the other terminal thereof connected to the anode of said tube, and another of said resistance-condenser combinations having one terminal thereof connected to the negative side of said source of energy and the other terminal thereof connected to the cathode of said thermionic tube.



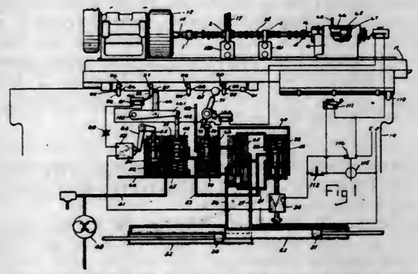
2,328,249
COATING COMPOSITION
Ladislaus Balassa, Flint, Mich., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application July 12, 1940, Serial No. 345,178
7 Claims. (Cl. 260—22)

6. A coating composition comprising an oil modified alkyd resin, vermiculite calcined at 600° C. to 750° C., other pigment, solvent, and drier.

2,328,250
BARIUM SULPHATE PIGMENTS AND PROCESS FOR PREPARING THEM
Ladislaus Balassa, Flint, Mich., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application July 26, 1940, Serial No. 347,784
12 Claims. (Cl. 260—40)

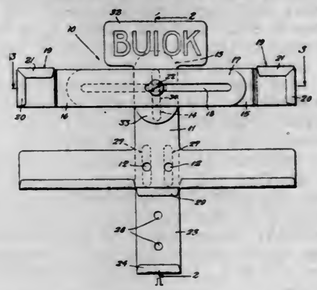
4. A coating composition comprising calcined natural barytes which has been heated at a temperature between 1100° C. and 1300° C. for at least 4 hours.

2,328,251
INDEX MECHANISM
Harold E. Balsiger, Waynesboro, Pa., assignor to Landis Tool Company, Waynesboro, Pa.
Application December 30, 1940, Serial No. 372,223
7 Claims. (Cl. 51—72)



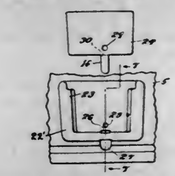
1. In a metal working machine, a tool, a work support, mechanism for effecting a relative longitudinal movement between said tool and said work support, means for initiating said longitudinal movement intermittently for positioning said tool and successive portions of a work piece, an indexing mechanism for controlling said positioning means, and means for omitting predetermined portions during the operation of said indexing mechanism including stopping devices which are operable only during said longitudinal movement in one direction.

2,328,252
PLATE HOLDER
Frederick W. Barker, Pound Ridge, N. Y.
Application November 8, 1940, Serial No. 364,779
4 Claims. (Cl. 40—125)



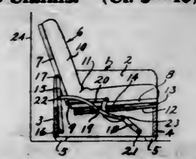
1. In a holder for a rectangular plate, the combination of a mounting member with a channel to receive the lower section of a plate, and having a vertical slot; a gripping member having a pair of channels at right angles to each other for gripping the side and top of one upper corner of a plate, and having a horizontal slot; another gripping member having a pair of channels at right angles to each other for gripping the side and top of the other upper corner of the plates, and having a horizontal slot; and one means, extending through the slots of said three members, adapted to lock said three members together and to grip all four edges of the plate.

2,328,253
LICENSE PLATE
Albert W. Becker, Hartford, Conn., assignor to Becker Permanent Plate Company, Hartford, Conn., a corporation of Connecticut
Application March 14, 1940, Serial No. 323,921
2 Claims. (Cl. 40—125)



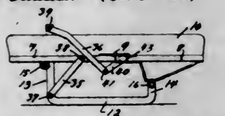
2. In an article of the character described a main plate, an auxiliary plate, and means for securing said auxiliary plate to the main plate; said means including a tab extending from the auxiliary plate, a tab receiving opening in said main plate adapted to receive said tab from a position in front of the main plate and permit bending of the tab to a position back of the main plate, and means including an aperture in said main plate adjacent to said tab receiving opening and a separate aperture in said auxiliary plate in register with the aperture in the main plate to provide access to said tab, when bent, and permit unbending thereof for releasing said auxiliary plate.

2,328,254
CHAIR BED
Joseph D. Bell, San Francisco, Calif.
Application May 16, 1940, Serial No. 335,593
5 Claims. (Cl. 5—48)



2. In a chair bed, a main frame, a back and a seat having a hinge connection between the same and means for supporting the back and seat on the frame in chair position, comprising two links, each pivoted to the main frame near the bottom thereof, one in the rear and the other forwardly thereof, and both rising from their pivots, the rear one substantially vertically and the front one with a slight rearward incline, a pivotal connection between the free end of the first link and the back intermediate its height, a third link connecting the free end of the second link and the back near the bottom thereof, and a fourth link connecting intermediate sections of the first two links, whereby the second link is swung forward when the upper end of the back is swung rearward and through the fourth link pulls the first link forward.

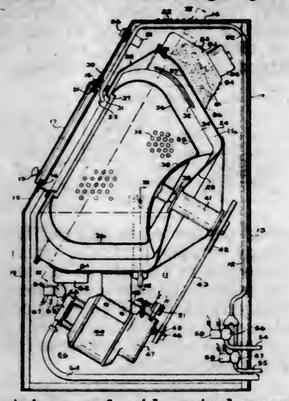
2,328,255
CHAIR BED
Joseph D. Bell, San Francisco, Calif.
Original application May 16, 1940, Serial No. 335,593. Divided and this application December 29, 1942, Serial No. 470,479½
2 Claims. (Cl. 5—47)



1. In a chair bed, a main frame, a back and a seat having a hinge connecting the same, two links, each having one end pivoted to the main frame near the rear thereof, one near the bottom and the other near the top and substantially vertically above the former, a pivotal connection between the other end of the first link and an intermediate portion of the back, a bracket projecting downwardly from the seat, and a pivotal connection between the second end of the second link and the bracket.

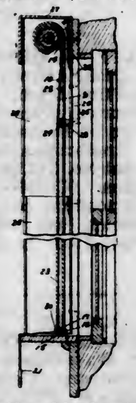
2,328,256
LAUNDRY APPARATUS
Frank Breckenridge, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 13, 1941, Serial No. 393,157
3 Claims. (Cl. 34—45)

3. In apparatus for drying saturated fabrics or the like, the combination of a container for enclosing the fabrics in a saturated condition, means for rotating the container in a single direction at relatively low and high speeds alternately, means for translating heated air in contact with the fabrics for abstracting moisture therefrom and means adjustable to a plurality of stations for controlling the operation of said rotating means and said air translating means, said control means when adjusted to one of its stations effecting high speed rotation of the container for centrifuging fluid from the fabrics and when adjusted to a plurality of other stations effecting alternate low and high speed rotation



of the container and said control means providing for operation of the air translating means when adjusted to said plurality of other stations.

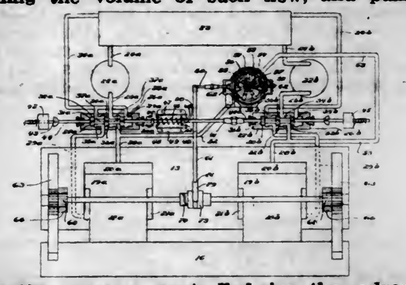
2,328,257
VENTILATING BLACK-OUT ROLLER SHADE
Richard R. Butts, Miamisburg, Ohio, assignor of one-half to T. B. Zumstein, Fort Thomas, Ky., and one-half to George F. Miller, Cincinnati, Ohio
Application December 31, 1941, Serial No. 425,180
8 Claims. (Cl. 160—121)



2. In a ventilating blackout window shade the combination of a shade roller, a pair of superposed panels secured at the tops thereof to said roller, a bottom dowel stick between the panels at the bottom of the shade and a cross member extending freely between the panels in parallelism with the roller whereby the panels are spaced when the shade is drawn.

2,328,258
APPARATUS FOR CONTROLLING THE SLIDE MOVEMENT IN LONG-BED HYDRAULIC PRESSES
Earl Cannon, Rockville Centre, N. Y., assignor to E. W. Bliss Company, New York, N. Y., a corporation of Delaware
Application September 26, 1942, Serial No. 459,854
9 Claims. (Cl. 100—71)

1. Apparatus for controlling the slide movement in a long-bed hydraulic press having two or more symmetrically-disposed slide-actuating rams and related ram advance chambers, the said apparatus comprising a compensator pump, connected between ram advance chambers at opposite sides of the press slide and having flow regulating means for reversing the direction of flow of liquid through said pump and for controlling the volume of such flow, and pump-



adjusting means, controlled by the advance movement of the press slide and adapted to coact with said flow regulating means to so adjust the said pump that the latter operates to transfer liquid, during the advance movement of said slide, in the proper direction and in suitable volume between the said ram advance chambers to effect the advance of the press slide in substantial parallelism with the press bed.

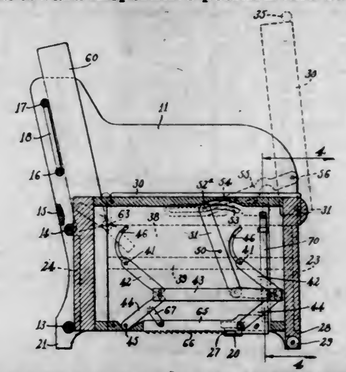
2,328,259
POLAR COORDINATE CATHODE-RAY TUBE
Peter S. Christaldi, Wood-Ridge, and Stanley J. Koch, Clifton, N. J., assignors to Allen B. Du Mont Laboratories, Inc., Passaic, N. J., a corporation of Delaware
Application November 18, 1941, Serial No. 419,530
3 Claims. (Cl. 250—158)



1. A polar coordinate cathode-ray tube, having a cylindrical neck portion reduced in diameter and formed into the frustum of a cone at the upper end thereof where it joins the body portion, said tube having means for deflecting an electron beam along orthogonal axes and means for independently deflecting said beam radially of said tube, said last named means comprising a pair of conically shaped conducting elements one of which is supported on said reduced neck portion.

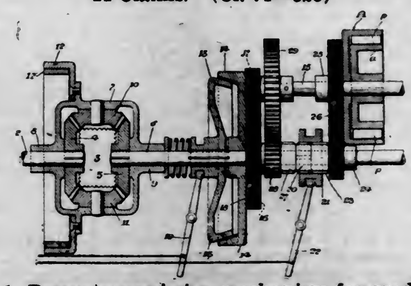
2,328,260
CONVERTIBLE DAVENPORT AND BED
Thomas F. Cooney, New Haven, Conn.
Application October 24, 1940, Serial No. 362,616
5 Claims. (Cl. 5—31)

5. A davenport bed construction comprising a main frame having rigidly connected end sections, an auxiliary frame slidably connected to said main frame for retraction between said sections or extension therefrom, a unitary cushion member pivoted to said auxiliary frame to swing upwardly and outwardly, a second cushion member mounted for substantially vertical movement in said auxiliary frame, means carried by the latter frame for supporting said second cushion, means connecting said first cushion to said supporting means for moving the latter upwardly when said first cushion is swung pivotally, and locking means to lock said auxiliary frame in extended position, said locking means being spring pressed toward inoperative position and said con-



necting means moving said locking means to operative position when said first-named cushion is in a horizontal position either when disposed between the end frames or when swung outwardly to an extended position.

2,328,261
MECHANICAL MOVEMENT
Anthony Cory, New York, N. Y.
Application June 25, 1941, Serial No. 399,581
11 Claims. (Cl. 74—328)

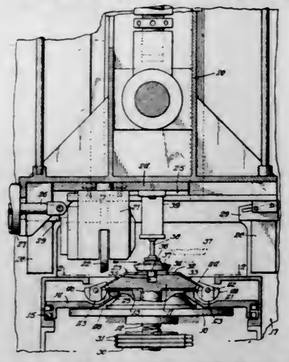


1. Power transmission mechanism for gradually imparting motion from a power source to a driven shaft and including a differential coupling unit having a driving member connected with the power source and a driven member connected with a driving shaft, means for gradually imparting the movement of the driving member to the driven member and the driving shaft, and a plurality of means independently and simultaneously connecting the driving and driven shafts, the simultaneous connection thereof effective to prevent reverse movement of said driven shaft, both of said connecting means including a disengageable clutch mechanism, one for driving the driven shaft at reduced speed when independently connected and overrun when simultaneously engaged.

2,328,262
CONTROL FOR CLAMPS
Donald H. Cravener, Jr., Chicago, Ill., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application December 1, 1941, Serial No. 421,186
11 Claims. (Cl. 80—19)

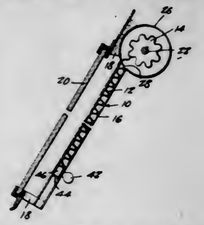
9. A clamping device for holding a blank on a

rotatable form, said device comprising a plurality of weights, means for movably mounting said weights on the form, said mounting means being adapted to permit the weights to move under the influence of centrifugal force, and mechanical



clamping elements movable with the weights and adapted in one position to clamp the blank to the form, in another position to prevent the blank from leaving the form, and in a third position to support the blank over the form.

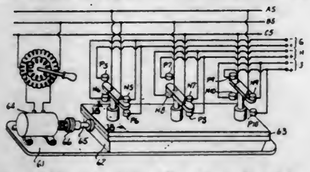
2,328,263
WINDSHIELD SAFETY GUARD
John De Stefano, Jackson Heights, N. Y.
Application March 16, 1942, Serial No. 434,971
2 Claims. (Cl. 160—98)



1. A safety guard for a windshield comprising an elongated casing having a longitudinal slot, a pair of channel shaped guide members extending in parallel arrangement from opposed ends of the casing and in registration with the slot therein, a plurality of brackets for mounting the said casing and guide members in spaced relation with a windshield, a corrugated roller rotatably mounted in the housing, a corrugated guard sheet connected to the roller and having opposed longitudinal edge portions slidably engaging the said guide members, the corrugations of said guard sheet being disposed to conform to the corrugations of the roller when the sheet is wound thereon, means on the said sheet for pulling the same to extended windshield covering arrangement, and means for rotating the roller to wind the sheet thereon.

2,328,264
METHOD OF AND APPARATUS FOR RECTIFYING ALTERNATING CURRENTS
James A. Doran, Providence, R. I.
Application September 25, 1939, Serial No. 296,365
11 Claims. (Cl. 175—364)

1. In a current conversion system for converting alternating current, from a three wire supply system into unidirectional current, a substantially inflexible oscillatable member, opposed contacts rigidly secured thereto, rotary means and reciprocal means driven by said rotary means to oscillate said member in synchronism with the phase reversals of said alternating current, a pair of contacts, one positioned adjacent to each limit of the amplitude of said member to be alternately contacted by said opposed contacts, a resilient support for each contact of said pair, restraining means engaging said resilient supports to define the positions of said last contacts with respect to said limits and permitting said last contacts to move with their cooperating contacts after engagement therewith, a connection between said

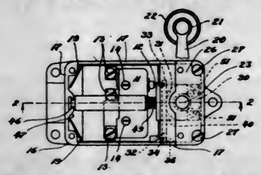


member and the positive feeder of said unidirectional current, connections from the two outside wires of said system to said pair of contacts, a connection from the center or third wire of said system and the negative feeder of said unidirectional current, whereby said member receives the positive half cycles from both sides of said system and delivers them to said positive feeder, and means between said rotary means and said oscillatable member for setting the latter so that its contacts break contact with the contacts of said pair in time with the zero values of said alternating current and insuring zero sparking at said contacts.

2,328,265
PROCESS OF TREATING FRUIT
Louis F. Ducker and George A. Little, Orlando, Fla., assignors to Charles H. C. Van Pelt, Amberley Village, Hamilton County, Ohio
No Drawing. Application April 14, 1941, Serial No. 388,492
3 Claims. (Cl. 99—156)

1. The method of preparing fruit juices, which comprises, subjecting the whole fruit to a 12½% to an 18½% borax water solution, having a temperature of from 150° F. to 170° F. for a period at which the heat will not penetrate to the interior of the fruit, water wash spraying the whole fruit with cold water, and drying the peel surface of the fruit prior to an extraction of the juice.

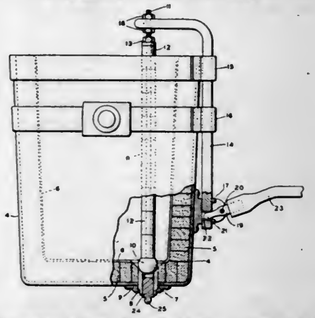
2,328,266
OPERATING MECHANISM FOR SWITCHES
Stanley H. Durbin, Brooklyn, N. Y., assignor to E. W. Bliss Company, Brooklyn, N. Y., a corporation of Delaware
Application October 28, 1941, Serial No. 416,801
8 Claims. (Cl. 200—47)



1. An operating mechanism for a switch having a reciprocable actuating member, said mechanism comprising a substantially non-flexible motion-transmitting element having a portion restrained against substantial movement laterally of the line

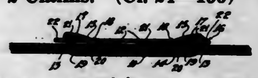
of movement of said actuating member and adapted to engage and operatively move the said member, a cam disposed adjacent said element and adapted, when turned from an inoperative to an operative position, to engage and move the latter and, through the movement of the latter, to move said actuating member whereby to operate the switch, yieldable means, independent of the switch and its said actuating member and in constant engagement with said cam whereby to urge the latter normally to an inoperative position and means, responsive to movement of a part of a machine in which said mechanism is employed, for turning said cam from an inoperative to an operative position against the urging of said yieldable means.

2,328,267
LADLE
Henry G. Freeman, Granite City, Ill.
Application May 18, 1942, Serial No. 443,361
2 Claims. (Cl. 22—84)



2. In a refractory lined ladle open at the top to receive molten metal, a tubular nozzle of refractory material at the bottom of the ladle, said nozzle being provided with an inlet and an outlet for the discharge of molten metal from said ladle, a stopper valve including a refractory head movable into and out of engagement with the inlet portion of said nozzle and a refractory operating stem secured to and extending upwardly from the refractory stopper valve, an operating member extending over the open top of the ladle and secured to the refractory stem, and means for inhibiting solidification of molten metal at the head of said stopper valve, said means including an elongated insulating plug made of thermally non-conductive asbestos material frictionally secured within the tubular nozzle and extending from the outlet of said nozzle to a point adjacent to the stopper valve at said inlet portion, so as to almost completely fill the nozzle and thereby insulate the head of said stopper valve from the atmosphere.

2,328,268
PAPER FASTENER
Alex Gelfand, Bronx, N. Y., assignor to Peerless Key-Imperial Mfg. Co., New York, N. Y., a corporation of New York
Application March 5, 1943, Serial No. 478,165
2 Claims. (Cl. 24—153)

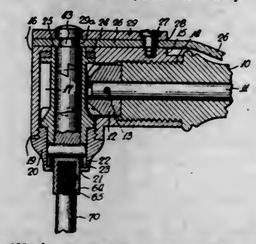


1. A fastener comprising a compressor plate having a pair of ends, a pair of adjacent, angularly directed, parallel, upwardly extending prongs adjacent each end of said plate, said prongs being struck out of the material of said plate to define openings in the plate adjacent said prongs, each pair of prongs being directed toward the adjacent end of the plate, serrated edges on that prong of each pair which is nearest the adjacent end of the plate, and a fastener base provided with a pair of tongue portions, each tongue portion being adapted to be passed upwardly through the opening from which the prong having serrated edges was struck, and to be bent over said prong and downwardly under the adjacent prong and through the opening from which the said last-mentioned prong was struck.

2,328,269
MOLDING MATERIAL
Walter E. Gloor, Milltown, N. J., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 27, 1940, Serial No. 342,703
4 Claims. (Cl. 106—177)

1. A molding composition comprising between about 66% and about 75% by weight based on the total acetate and plasticizer of cellulose acetate having a combined acetic acid content between 56% and 58% and between about 34% and about 25% of a plasticizing mixture, said mixture comprising between 75% and 88% of a substantially non-volatile softening and toughening plasticizer selected from the group consisting of dimethyl phthalate, diethyl phthalate, dimethylcellosolve phthalate, diethylene glycol diacetate, diethylene glycol dipropionate, glycerol triacetate, glycerol tripropionate; and between 12% and 25% of a substantially non-volatile plasticizer which forms a substantially rigid gel structure with cellulose acetate selected from the group consisting of triphenyl phosphate, sucrose octa-acetate, mannitol hexa-acetate, sorbitol hexa-acetate, methyl phthallyl methyl glycollate, methyl phthallyl ethyl glycollate, ethyl phthallyl ethyl glycollate, ethyl phthallyl methyl glycollate, para-toluene ethyl sulphonamid, cyclohexyl sulphonamid, para-toluene ethyl sulphonate, diphenyl phthalate, ortho-toluene sulphonamid, para-toluene sulphonamid, and methyl 2-nitro 2-methyl 1-propyl phthalate.

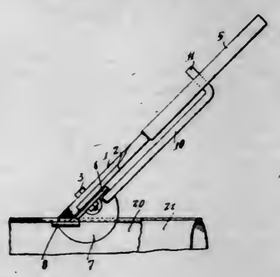
2,328,270
OSCILLATORY HAMMER
Harry Daniel Greenberg, New York, N. Y.
Application June 1, 1942, Serial No. 445,526
3 Claims. (Cl. 74—56)



1. An oscillatory device comprising a supporting member; a rotating driving cam unit journalled therein, having a transversely faced, spirally formed cam surface with a circumferential cam drop of predetermined height; a driven cam journalled in said supporting member, provided with a cam surface operable by the cam surface of the driving cam unit, for propelling the driven

cam and the driving cam unit away from each other a distance equal to the height of the driving cam drop; a tool actuated by said driven cam; locking means for preventing the rotation of said tool when the driving cam is rotating with respect to the driven cam; and means automatically operable for permitting the driven cam and the driving cam to rotate together as a unit when the direction of rotation of the driving cam is reversed; said driven cam normally pressed against said driven cam unit during the rotation of the driving cam unit.

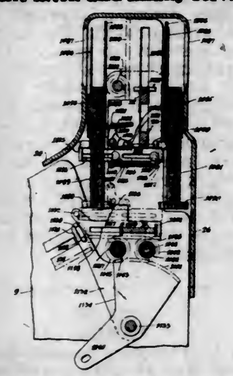
2,328,271
CLAMPING TOOL
Joseph R. Greene and Floyd A. Cox, San Diego, Calif., assignors to Solar Aircraft Company, San Diego, Calif., a corporation of California
Application September 29, 1941, Serial No. 412,706
2 Claims. (Cl. 113—99)



1. A tool of the type described, comprising: a pair of members, each having a jaw thereon, and pivot means securing them together for swinging movement into and out of a work-clamping position, handle means on said members for moving them, a third work-engaging member adapted to support a workpiece in a different direction than said jaws support it, a hub member pivotally supported, with respect to said pair of members, by said pivot means, and a connecting means extending between and secured to both said third work-supporting element and said hub member, and consisting of a thin, flat member normally positioned substantially in the plane of the faces of said jaws when the latter are in closed position.

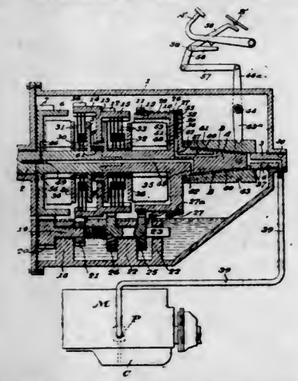
2,328,272
CASH REGISTER
William S. Gubelmann, Convent, N. J.
Original application January 22, 1929, Serial No. 334,160, now Patent No. 2,226,919, dated December 31, 1940. Divided and this application June 11, 1940. Serial No. 339,953
3 Claims. (Cl. 235—23)

1. In a machine of the class described the combination of a set of indicator tablets, a tablet selecting device formed with teeth, a main operating mechanism, positioning means operated by the main operating mechanism and acting on the selecting device for positioning the selecting device differentially, a latch engageable with said teeth on said selecting device for holding the selecting device in set position, means controlling the extent of movement of the positioning means, and means operated by the main operating mechanism for moving the selecting device and selected tablets out of exhibiting position and disengaging the latch, said means being then moved slightly in the opposite direction to re-engage the latch and finally serving to move



the selecting device and newly selected tablet to exhibiting position.

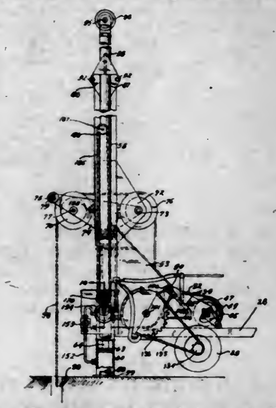
2,328,273
CHANGE SPEED DEVICE
Jesse W. Hale, Newton, Mass.
Application November 18, 1940, Serial No. 366,069
10 Claims. (Cl. 74—472)



1. In a change speed device for a vehicle, the prime mover of which has a source of lubrication under constant pressure when the prime mover is in operation, a drive shaft and driven shaft, means to connect said shafts at different ratios, fluid pressure operable means to actuate said connecting means, said fluid pressure operable means being operable at a pressure in excess of that of said source, centrifugally operable means delivering fluid from said source to said pressure operated means at an increased pressure determined by said driven shaft speed.

2,328,274
EARTH DRILLING MECHANISM
Lysle L. Hazen, Detroit, Mich.
Application June 10, 1940, Serial No. 339,721
2 Claims. (Cl. 254—189)

2. In a well drilling mechanism of the class described, a vertically extending cylinder; a piston slidably mounted in said cylinder; a piston rod connected to said piston and projected upwardly outwardly from said cylinder; a pair of spaced apart, vertically directed standards; an elevating carriage slidably mounted between said standards; means for connecting said carriage to said piston rod; a pair of spaced apart sheave wheels carried by said carriage; a stationary member; a cable secured at one end to said stationary member and passed over said sheave wheels; a control valve for controlling the delivery of fluid



into said cylinder and draining of fluid therefrom, and movable to delivery position and drain position; a rotatable cam mechanism for operating said control valve; means for rotating said cam mechanism; and means associated with said carriage for actuating said rotating means.

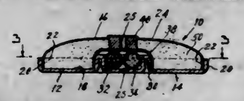
2,328,275
CATALYTIC PROCESS FOR PURIFYING ETHYLENE
Joseph R. Heard, Jr., New York, N. Y., assignor, by mesne assignments, to Wyandotte Chemicals Corporation, Wyandotte, Mich., a corporation of Michigan
No Drawing. Application June 22, 1939, Serial No. 280,525
11 Claims. (Cl. 260—663)

1. The process for separating ethylene from its higher homologues including propylene and butylene which comprises reacting the higher homologues of ethylene contained in a hydrocarbon gas mixture also containing ethylene at about 100° C. to about 150° C. with hydrogen chloride in the presence of a catalyst comprising essentially a solid mixture of at least one metal chloride and a poison-inhibiting substance selected from the group consisting of ammonium chloride and amine hydrochlorides to leave the ethylene substantially unaffected, and separating ethylene from the products of said reaction, whereby ethylene substantially free from other unsaturates is produced.

8. The process for producing isopropyl chloride which comprises passing a mixture of propylene and hydrogen chloride in the ratio of about 1:1 at a temperature of about 100° C. through a chamber, there subjecting said mixture to the catalytic effect of a solid mixture of a metal chloride and a hydrochloride of a basic amine deposited upon a carrier having fine pores, and recovering isopropyl chloride therefrom.

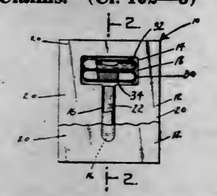
2,328,276
LAND MINE
Harold Lyons Hunt, New York, N. Y.
Application October 19, 1940, Serial No. 361,822
3 Claims. (Cl. 102—8)

1. A device of the character described comprising a casing of explosive easily deformable material, which casing comprises an upper and a lower portion, a main explosive charge in said casing, a detonator for said charge within the casing, which detonator comprises in part a plurality of individually sealed easily frangible containers disposed and secured in closely abutting side-by-side relationship on one of the casing portions, and within which containers are dis-



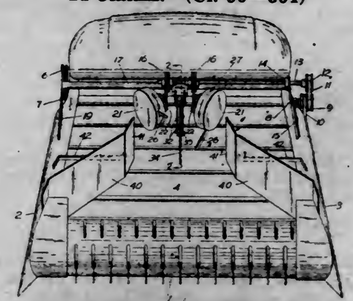
posed compounds which form an explosive mixture upon the commingling thereof, and in part of means on the other portion of the casing, normally spaced from and overlying the containers, which means upon deformation of the casing, will bear against and crush the containers to cause intermingling of the contents thereof and the subsequent ignition of the main charge and of the casing itself.

2,328,277
BOMB
Harold Lyons Hunt, New York, N. Y.
Application April 1, 1942, Serial No. 437,144
4 Claims. (Cl. 102—8)



1. A device of the character described comprising a casing of explosive material, easily deformable, the casing comprising a pair of cooperating members, a portion of each of which is recessed to define a compartment therewithin, a plurality of containers within the compartment, certain of which contain an explosive charge, and others of which contain a charge detonator, the remainder of the members beyond the compartment lying flatly against each other to define a wing portion extending all around the device.

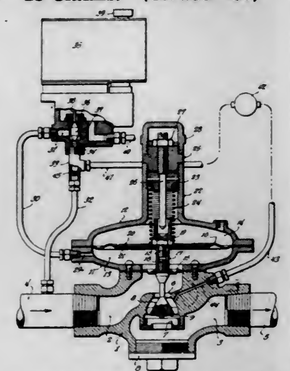
2,328,278
GRAIN HANDLING MECHANISM
George Innes, Davenport, Iowa
Application January 21, 1941, Serial No. 375,317
14 Claims. (Cl. 56—364)



1. In a machine for gathering and threshing grain, comprising a threshing mechanism, a pick-up mechanism, and a conveyor for conveying

grain from the pick-up to the threshing mechanism; the combination of a rotary dividing means located above the conveyor closely adjacent thereto, and approximately midway of the width thereof, and rotary feeding means rotating in a direction diagonal to the direction of travel of the conveyor to pull the grain laterally and feed it forwardly in its course of travel toward the threshing mechanism.

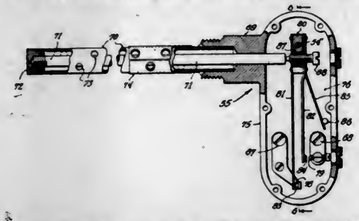
2,328,279
AUTOMATIC CONTROL MEANS FOR HEATING DEVICES
Edwin A. Jones, Shorewood, Wis.
Application May 25, 1940, Serial No. 337,134
13 Claims. (Cl. 236—80)



1. A modulating regulator for controlling fluid flow to heating means comprising pressure motor means including a movable wall having a chamber on each side thereof, a main fluid flow passage sealed from the movable wall, a pair of spaced valve seats in the said passage one of which constitutes a modulating valve seat and the other of which constitutes an on and off valve seat, a unitary valve structure operated by said pressure motor means and including a modulating valve and an on and off valve cooperating respectively with said modulating valve seat and said on and off valve seat, said valve seats constituting ports arranged in series for the fluid flow, said valves simultaneously moving in alternate directions to perform their respective functions of modulation and cut off, biasing means biasing said unitary valve structure towards cut off position, said pressure motor means being connected to the line pressure and to the pressure subsequent to the modulating valve, to provide pressures therein to oppose the biasing means, and means operated in response to variations in predetermined external conditions for continuously varying the said pressures provided in opposition to the biasing means being varied between values above the pressure subsequent to the modulating valve and the said pressure subsequent to the modulating valve, and means for causing the pressures on opposite sides of the movable wall to approach equality to an extent sufficient at least for said biasing means to close said on and off valve.

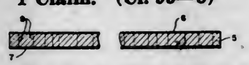
2,328,280
CONTROL MEANS AND SYSTEM OF CONTROL FOR HEATING DEVICES
Edwin A. Jones, Shorewood, Wis.
Application June 14, 1940, Serial No. 340,452
3 Claims. (Cl. 200—137)

1. A thermally actuated time delay control device actuated by a medium subject to temperature fluctuations comprising two members which have approximately the same expansion due to change in temperature, control means actuated by the difference in expansion when said members are at substantially different temperatures



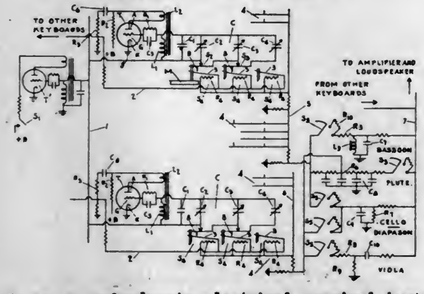
and occupying a normal position when said members are at substantially the same temperature irrespective of the actual temperature of said members, and means to adjust the relative rate of heating and cooling of said members.

2,328,281
PHOTOGRAPHIC JIGSAW PUZZLE
Walter R. Jones, Brooklyn, N. Y.
Application September 20, 1941, Serial No. 411,615
1 Claim. (Cl. 95—8)



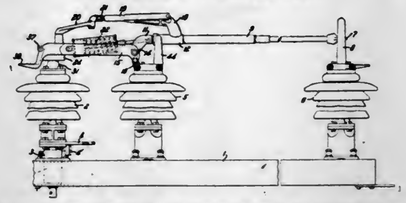
An article of manufacture comprising a suitably cut base of substantial thickness separable into a number of parts to form a jig saw puzzle, one face of the base being photo-sensitized and the other face of the base having an extremely thin sheet of material applied thereto over its entire surface and being capable of holding said parts together while handling prior to printing a picture on the photo-sensitized surface and only for sufficient time to allow the development and fixing of the photo, the parts when separated having all edges even and smooth.

2,328,282
ELECTRICAL MUSICAL INSTRUMENT
Winston E. Kock, Cincinnati, Ohio, assignor to The Baldwin Company, Cincinnati, Ohio
Application April 23, 1941, Serial No. 389,939
8 Claims. (Cl. 84—1.01)



1. In a polyphonic electrical musical instrument, a keyboard having keys representing in sequential octaves the notes of the chromatic musical scale, a plurality of independent primary electric oscillation generators, less in number than the keys of said keyboard, each of said oscillators being associated with a separate group of contiguous keys of said keyboard, the various groups containing more than one and less than four keys, each of said oscillators being capable of oscillating selectively at a plurality of different contiguous frequencies in the musical scale, said oscillators having oscillation control means whereby they may be caused to oscillate selectively at said plurality of different frequencies, and the keys of each group being connected to the oscillator of that group through the oscillation control means of said oscillator to control the frequency of the oscillations produced thereby to the notes represented by the said keys.

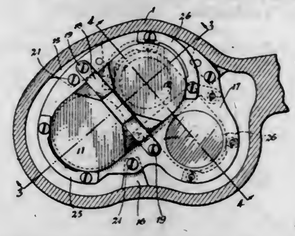
2,328,283
DISCONNECT SWITCH
Carl G. Koppitz and Arthur M. Zeth, Greensburg, Pa., assignors to Railway and Industrial Engineering Company, Greensburg, Pa., a corporation of Delaware
Application August 20, 1941, Serial No. 407,656
12 Claims. (Cl. 200—48)



1. In a single-pole disconnecting switch adapted to be ganged with similar switches for use on a multi-phase power line, a frame structure, an insulator column mounted on said structure for rotation about its axis, a stationary insulator column secured to said structure and parallel to said first column, hinge terminal means mounted on said insulator columns, a switch blade, means pivotally supporting said blade on said hinge terminal means for angular movement about an axis normal to the axis of said rotatable insulator column, and means including said rotatable insulator column for operating said blade; said operating means comprising a crank rotatable on an axis parallel to the axis of said rotatable insulator column, means connecting said blade to said crank for actuation thereby, an interrupted gear system mechanically connecting said rotatable insulator column to said crank, and an operator arm secured to said rotatable insulator column for imparting rotation thereto to actuate said blade; said interrupted gear system permitting overtravel of said rotatable insulator column at the completion of a blade-operating movement of said crank, thereby to facilitate the mechanical connection of the operating arms of associated switches for gang operation.

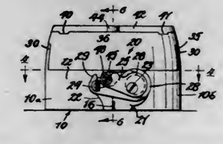
2,328,284
OPTICAL INSTRUMENT
George S. MacDonald, Buffalo, and James E. Trafton, Kenmore, N. Y., assignors to Spencer Lens Company, Buffalo, N. Y., a corporation of New York
Application August 19, 1941, Serial No. 407,424
5 Claims. (Cl. 88—33)

1. In a device of the character described, a support, means for retaining a prism on said support while allowing pivotal adjustment of said prism, adjustable members on said support adapted to engage said prism to retain the same in adjusted pivotal position, openings in said adjustable members, threaded means extending through said openings in said adjustable members and threaded into said support, the openings in said adjustable members being considerably larger than the diameter of said threaded means to allow adjustment of said adjustable members whereby said



adjustable members will engage said prism and when said threaded means are tightened, retain said prism in adjusted pivoted position.

2,328,285
DENTAL FLASK
Seymour E. MacDougall, Buffalo, N. Y.
Application September 9, 1941, Serial No. 410,157
7 Claims. (Cl. 18—33)

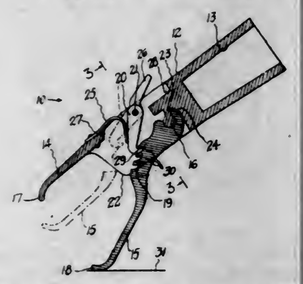


1. A dental flask of the character described, comprising a cup-shaped bottom portion having a bottom wall and a rim, an intermediate portion interfitting with the rim of said bottom portion and a cover fitting over said intermediate portion and enclosing the flask, said bottom portion being made of two side sections fitted together along a central substantially straight parting line extending through said bottom wall and the opposite sides of said rim, a hinge having a vertical pintle connecting said sections at one side of said flask and a latch connecting said sections at the other side of said flask.

2,328,286
PROCESS OF MAKING HEAVY MAGNESIUM OXIDE
Walter H. MacIntire, Knoxville, Tenn., assignor to American Zinc, Lead & Smelting Company, St. Louis, Mo., a corporation of Maine
No Drawing. Application October 23, 1939, Serial No. 300,819
9 Claims. (Cl. 23—201)

5. The process which comprises suspending dolomite, calcined selectively to a composition of substantially calcium carbonate and magnesium oxide, in an aqueous solution of a member of the group consisting of magnesium sulfate, magnesium chloride and magnesium nitrate, the concentration of magnesium salt in said solution being from 5% to 25%, introducing sufficient carbon dioxide gas under pressure of three or more atmospheres into and without heating the suspension to effect carbonation and dissolution of the magnesium oxide, separating undissolved calcium carbonate from the solution, heating the solution to boiling, separating the resulting precipitate of heavy magnesium carbonate from the solution, and then calcining the magnesium carbonate to produce heavy magnesium oxide.

2,328,287
HOLDER FOR MOPS AND OTHER ARTICLES
John W. Martin, Brooklyn, N. Y.
Application August 22, 1942, Serial No. 455,969
3 Claims. (Cl. 15—150)



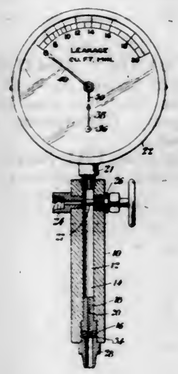
2. A device including a holding means having a jaw fixed with respect to a rearwardly extending handle, a mop-scooping jaw pivoted with respect to said first jaw and handle, said pivot being downwardly spaced from the end portion of the fixed jaw that is connected to the handle, said jaws having their free ends extending forwardly of said handle and said pivoted jaw being positioned opposite to said first jaw, means located between the jaws wholly between the pivot and the free ends of the jaws, including a forwardly, downwardly sloping toothed rack on and extending lengthwise of the movable jaw, an elongated downwardly and forwardly sloping pawl pivoted at its rear end on the fixed jaw whose pivot is spaced above and in advance of the pivot of the movable jaw, the major dimension of said pawl thus forming an acute angle with the lengthwise extent of the rack, the free end of the pawl and rack teeth being of hooked form, so that the pawl acts in tension to prevent separation of the jaws, said pawl normally swinging about its pivot downwardly toward the sloping rack for engagement with the teeth thereof.

2,328,288
CAP FOR FOUNDATION VENTS
Fred B. Merrill, Jackson, Miss.
Application November 4, 1940, Serial No. 364,273
1 Claim. (Cl. 98—29)



The combination with a vent grill of a building, a covering cap therefor having an elongated horizontally disposed slot therein at a point above a horizontal line passing through the center of the cap, a bolt having its head bearing against the inner surface of the grill and its shank extending through an opening in the grill and aforesaid slot in the cap, a washer on the shank of the bolt bearing against the outer surface of the cap, and a wing-nut threaded on the free end of the bolt shank and bearing against the washer.

2,328,289
ENGINE LEAKAGE METER
John D. Morgan, South Orange, and Percy B. Levitt, Millburn, N. J., assignors to Cities Service Oil Company, New York, N. Y., a corporation of Pennsylvania
Application October 29, 1940, Serial No. 363,256
3 Claims. (Cl. 73—51)

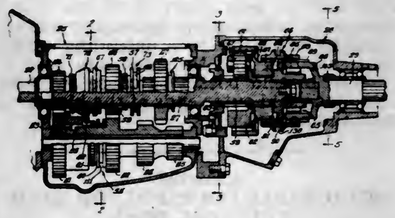


1. A fluid leakage meter comprising a tubular housing having a longitudinal cylindrical bore, a cylindrical partition member dimensioned for insertion within said bore to divide the bore into fluid inlet and outlet chambers, said member having a flow restriction orifice therein communicably connecting said chambers, a pair of oppositely disposed apertures in the wall of the inlet chamber, a pressure fluid supply tube fitted in one of said apertures, and a needle valve fitted in said other aperture in position for closing and opening a port at the discharge end of the supply tube, a pressure operated flow gauge having a tubular connection fitted in the inlet chamber end of the bore, a pressure fluid discharge nipple fitted in the discharge chamber end of the bore, and a pressure gauge having a tubular connection ported out in the discharge chamber, said gauges being mounted to incorporate a common indicating dial.

2,328,290
METHOD OF MAKING CEMENTITIOUS BUILDING UNITS
Hans Niederreither and Otto Lang, Munich, Germany; vested in the Alien Property Custodian
No Drawing. Application July 22, 1939, Serial No. 285,864. In Germany July 23, 1938
9 Claims. (Cl. 25—155)

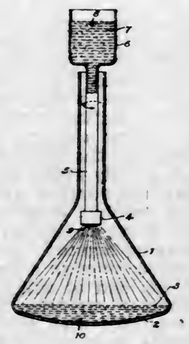
1. Method of producing pressed cementitious construction elements such as plates, pipes and the like, having a high initial strength and imperviousness prior to hydration, comprising the steps of mixing Portland cement with a diminuted filler and an organic thermoplastic material at elevated temperature to intimately combine the heated thermoplastic with the cement and filler, pressing the mixture into the shape of the desired article, whereby, due to the presence of the thermoplastic the pressed article is of relatively great strength, and thereafter hydrating the pressed article at elevated pressure and temperature, and letting the cement set.

2,328,291
AUTOMATIC TRANSMISSION
Carl W. Osborne, Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application July 19, 1941, Serial No. 403,198
13 Claims. (Cl. 74—328)



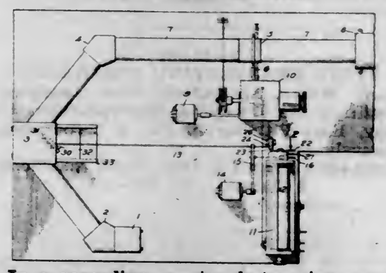
1. A variable speed transmission comprising in combination a countershaft type unit having low, second and direct drive ratios, and a planetary type unit having direct drive and overdrive ratios, automatically controlled means for effecting shifts between second and direct drive in the countershaft unit and between direct drive and overdrive in the planetary unit, said means being adapted to effect up shifts from second to direct to overdrive direct, and manually operated overcontrol means for effecting down-shifts from overdrive direct to overdrive second to second.

2,328,292
METHOD OF DEPOSITING PHOSPHOR MATERIALS
William H. Painter, Short Hills, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application December 19, 1941, Serial No. 423,643
9 Claims. (Cl. 117—34)



1. The method of making a luminescent screen comprising the steps of covering a substantially horizontal foundation with a cushioning liquid, distributing a phosphor material over the exposed surface of said cushioning liquid, maintaining said foundation and said liquid in an unagitated condition until said phosphor material settles into contact with said foundation and removing the cushioning liquid from contact with the settled phosphor material.

2,328,293
SPECTROPHOTOMETER MONOCHROMATOR DRIVE
Orrin Weston Pineo, Milo, Maine, assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
Application April 29, 1942, Serial No. 441,036
4 Claims. (Cl. 234—1.5)



1. In a recording spectrophotometer comprising a monochromator including members forming a movable slit, a photometering device, a movable recording device and a linkage operative to move said monochromator slit-forming members in response to movement of said recording device, in combination, a variable ratio driving means in said linkage permitting relative movement of the recording device and monochromator slit to be selectively controlled.

2,328,294
CONNECTOR
David M. Potter, Plainfield, N. J.
Application October 26, 1942, Serial No. 463,447
9 Claims. (Cl. 287—104)



7. A connector comprising mating terminal portions adapted to overlap and interlock, and a helical spring fastened at one end relatively to one said terminal portion, said spring, when compressed, being adapted to uncover said terminal portions to admit of lateral separation thereof, and when extended being adapted to closely embrace said terminal portions to prevent lateral separation thereof.

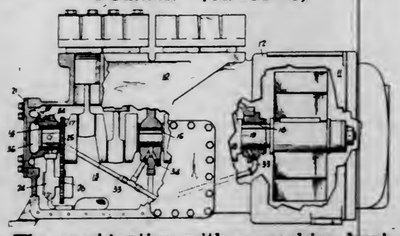
2,328,295
FISH LURE
Laurence R. Provost, Cheyenne, Wyo.
Application July 26, 1941, Serial No. 404,134
4 Claims. (Cl. 43—48)



1. A fish lure comprising a barbed hook mem-

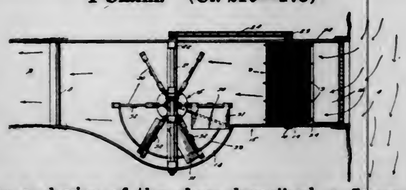
ber formed with a relatively short, straight shank, an eye on the end of the shank in a plane inclined to the shank axis, a relatively short, straight link formed with an eye at each end and hingedly engaged at one end with the eye of said shank, and complementary artificial fly components carried by said shank and link for cooperation in contortably simulating a single natural insect.

2,328,296
FLUID TRANSLATING APPARATUS
John G. Ritter, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 3, 1940, Serial No. 350,207
4 Claims. (Cl. 184—6)



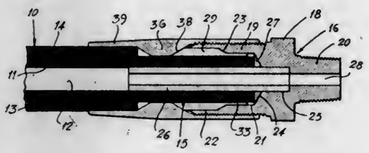
3. The combination with a machine having a horizontal rotating shaft, bearings therefor including journal bearings and a thrust bearing, an oil pump for lubrication of said bearings, and gears having helical teeth for driving said oil pump from said shaft, of means for preventing lengthwise oscillation of the shaft comprising means providing a chamber arranged so that the fluid pressure therein biases the shaft axially against said thrust bearing, means for conveying oil under pressure from said pump to said bearings, a pressure relief valve for exhausting oil from said conveying means to maintain said pressure substantially constant, means including an orifice for providing a restricted flow of oil from the conveying means to said chamber, a second pressure relief valve for exhausting oil from said chamber and maintaining the pressure therein at substantially constant value lower than the pressure in said conveying means.

2,328,297
FISH STOP
Richard Roberts, deceased, late of Cokeville, Wyo., by Floyd L. Roberts, administrator, Cokeville, Wyo., assignor to Ray B. Roberts, Kemmerer, Wyo.
Application April 17, 1941, Serial No. 389,092
1 Claim. (Cl. 210—173)



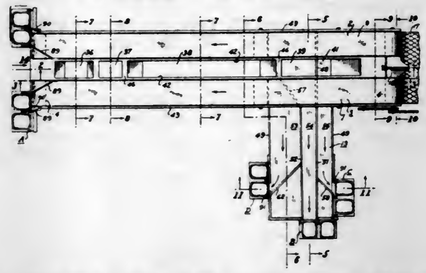
In a device of the class described, a flume for conveying water and having a side pocket therein for retarding the passage of water therethrough, a flow operative water power wheel in said flume comprising a shaft journaled in the flume in upright position, a hub forming disk splined on said shaft for vertical adjustment thereon, rods fixed at inner ends thereof on said disk to extend radially therefrom, normally pendent blades vertically swingable on said rods to feather the same and having outer ends rotatable into and out of said pocket to provide for low resistance to rotation of said wheel on one side thereof, means to adjust said hub vertically into different set positions to correspondingly adjust said blades in accordance with variations in the level of the water in said flume comprising a hub supporting member fast on said shaft above the hub and provided with hollow arms depending therefrom, and headed adjusting rods extending upwardly through said disk and threaded into said arms, and means in said pocket to cause swinging of said blades as said outer ends of the blades rotate through the pocket.

2,328,298
DETACHABLE COUPLING FOR HIGH PRESSURE HOSE
Walter F. Santhoff, Cypress, Calif., assignor to Martin-Decker Corporation, Long Beach, Calif., a corporation of Delaware
Application September 10, 1941, Serial No. 410,281
1 Claim. (Cl. 285—86)



A detachable coupling for high pressure hose, said hose having a plurality of laminae in its wall, at least the outer one of which is removed for a distance at the end thereof, a coupling body formed at one end with a threaded portion to make a pipe connection and at its opposite end with an exteriorly threaded tubular portion having an inner central bore and an outer counterbore with an intermediate annular tapered face and into which tubular portion the end of the hose of reduced diameter extends, a central tubular mandrel fixed within the coupling body and extending longitudinally of the tubular extension thereof and therebeyond, said mandrel fitting tightly within the hose, a deformable packing sleeve fitted upon the reduced end portion of the hose, said sleeve having a cylindrical extension adapted to fit between the hose and the inner bore of the coupling body and a cylindrical portion of larger diameter adapted to fit within the outer bore of the coupling body and to extend therebeyond; said sleeve having an intermediate tapered face abutting against the tapered face within the threaded tubular extension, and a threaded sleeve, one end of which engages the threads of the tubular extension and the other end of which is formed with a counterbore to embrace the outside diameter of the hose, said sleeve having an intermediate portion fitting around the reduced diameter of the hose and a tapered face abutting against the outer tapered face of the packing sleeve, whereby the hose will be confined within the threaded sleeve and will force the packing sleeve into a tightened position around the portion of the hose within the tubular mandrel, the inner bore of the coupling body terminating in a tapered end face around the tubular mandrel, and a tapered packing washer fitting against said face and against which the end of the hose rests.

2,328,299
GRADING APPARATUS
Joseph B. Schwab, Stockton, Calif.
Application August 12, 1941, Serial No. 406,508
5 Claims. (Cl. 209—125)



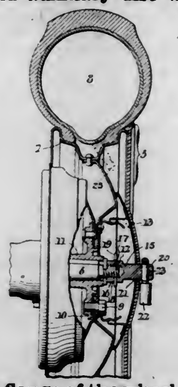
1. Grading apparatus comprising adjacent endless conveyers positioned side by side with a space therebetween and having upper and lower reaches, means in such space for receiving objects selected from the upper reaches of said conveyers, some of said receiving means being adapted to receive objects of predetermined characteristics and other of said receiving means being adapted to receive objects of other predetermined characteristics, means associated with said some receiving means for conducting said objects of predetermined characteristics to the lower reach of one of said conveyers, means associated with said other of said receiving means for conducting said objects of other predetermined characteristics to the lower reach of another of said adjacent conveyers, each of said lower reaches having an intermediate discharge turn from which selected objects are discharged, a cross conveyer below said upper reaches and positioned adjacent said intermediate discharge turns for receiving said selected objects from said lower reaches, and additional means in such space over said cross conveyer for receiving objects of predetermined characteristics and directing them to said cross conveyer.

2,328,300
PROCESS FOR PRESERVING MATERIALS OF THE POWDERY OR MEALY TYPE
Egon Herbert Schwarz, Zurich, Switzerland
No Drawing. Application September 25, 1940, Serial No. 358,787. In Switzerland October 5, 1939
1 Claim. (Cl. 99—150)

Method of preserving materials of the powdery or mealy type which comprises the steps of sterilizing the materials, suddenly lowering the temperature of the materials, applying a preliminary pressure to said materials and forming a preliminary body, thereafter subjecting the preliminary body to final pressure to produce the final shaped product, allowing air to escape from within said preliminary body during the final pressing action, fresh air being also admitted to the outside of said preliminary body to cool it during the final pressing action.

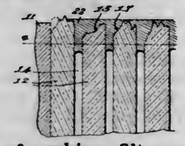
2,328,301
WHEEL THEFT PREVENTION MEANS
Ralph M. Shaw, Jr., Edgewater Park, N. J.
Application April 21, 1942, Serial No. 439,852
6 Claims. (Cl. 70—259)

3. Means for preventing theft of demountable automobile wheels of the dished discous type with an outwardly-projecting flanged felly rim through which the tire valve extends inwardly, and with a frontally-open hub cavity by way of which access may be had to the wheel securing bolts within said cavity, said means including a stud element which is securable within the hollow of the wheel hub; a cover member in the form of a solid auxiliary disc which extends to



the outer felly flange of the wheel to close the open front of said wheel and thus prevent unauthorized access to the tire valve, and which has an aperture for protrusion therethrough of the outer end of the stud element; and a lock device engageable with the protruding end of said stud element outwardly beyond the cover member.

2,328,302
METHOD OF MAKING PARALLEL FIBER FILTERS
Allen L. Simison, Newark, Ohio, assignor to Owens-Corning Fiberglas Corporation, a corporation of Delaware
Application August 30, 1940, Serial No. 354,852
8 Claims. (Cl. 183—44)

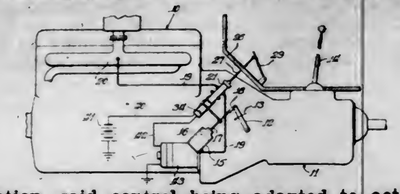


8. A method of making filter members composed of a plurality of fine glass fibers, which comprises forming a bundle of fibers in which the fibers are arranged in parallelism and in longitudinal contact with the spaces between the fibers forming filtering passages extending lengthwise of the fibers and having a rigid material disposed in the passages and filling at least the outer end portions thereof, grinding an end face of said bundle to smooth the ends of said fibers, and thereafter removing the rigid material from said passages.

2,328,303
CLUTCH CONTROL
John M. Simpson, Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application November 5, 1941, Serial No. 417,926
7 Claims. (Cl. 192—.02)

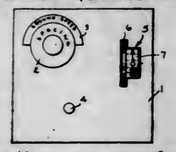
4. In an automotive vehicle, the combination of an engine for driving the vehicle, a starter for said engine, clutch mechanism for connecting the engine to its load, a motor adapted on actuation to disengage said clutch mechanism, said engine providing a power supply, and a control for con-

necting said motor with said power supply and mechanically linked with said clutch mechanism for disengaging it when the engine is not in op-



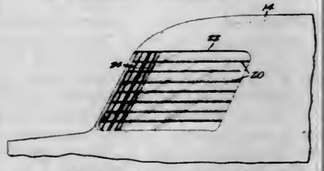
eration, said control being adapted to actuate said starter when said clutch mechanism is disengaged.

2,328,304
COUNTER
Edward M. Sorensen, Dayton, Ohio, assignor to The Soren Corporation, Dayton, Ohio, a corporation of Delaware
Application June 10, 1941, Serial No. 397,416
2 Claims. (Cl. 235—132)



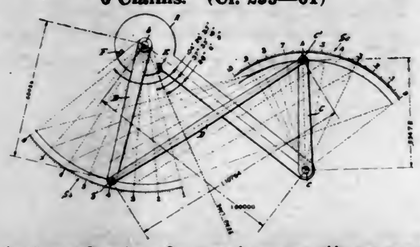
1. In combination, an impulse generator, a combined counter and control device including a movable member, an electromagnet periodically energized by said generator, mechanism actuated by said electromagnet including an armature for operating said member, means including a stud on said member for rendering the impulse generator inoperative at a predetermined point in the travel of said member, and means secured to said armature for controlling an exterior control circuit in accordance with the impulses delivered by said generator.

2,328,305
AIRCRAFT WINDSHIELD SAFETY GUARD
John De Stefano, Jackson Heights, N. Y.
Application March 16, 1942, Serial No. 434,972
2 Claims. (Cl. 160—170)



1. A guard device for a windshield comprising a pair of channels opening in the direction of each other and adapted to parallel a windshield, a housing at the upper end of the channels, a plurality of plates having their ends slidably guided in the channels adapted for positioning adjacent and edgewise to the windshield, flexible lines connecting said plates one with the other at spaced intervals, a rotary spool mounted in the housing, a cable wound on said spool and operatively connected with said plates for raising the same from spaced apart to nested relationship, said cable extending through openings in the plates and attached to the lowermost plate, a depending plate on said housing masking the plates in nested arrangement, and means on said channels and plates to restrain turning of the plates about their longitudinal axes.

2,328,306
MECHANISM FOR USE IN COMPUTING APPARATUS
Antonin Svoboda, Forest Hills, N. Y., assignor to Abax Corporation, New York, N. Y., a corporation of New York
Application June 23, 1942, Serial No. 448,135
6 Claims. (Cl. 235—61)

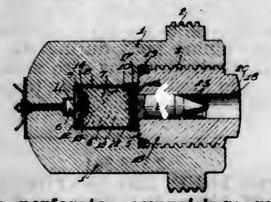


1. A mechanism for use in computing apparatus, comprising a linkage whose parts have such relative dimensions that the relative movement of two parts of the linkage closely approximate a logarithmic relationship over a substantial range of movement, and means for limiting the operation of the linkage to this range of movement.

2,328,307
MANUFACTURE OF RAYON
Gilbert I. Thurmond, Asheville, and Edward Brenner, Hendersonville, N. C., assignors to American Enka Corporation, Enka, N. C., a corporation of Delaware
No Drawing. Application April 5, 1940, Serial No. 328,146
7 Claims. (Cl. 18—54)

1. A process for the manufacture of viscose rayon having a dry tenacity greater than 3 grams/denier and an elongation at the breaking point of less than 10% which comprises spinning viscose filaments in a coagulating bath containing at least 10% ammonium sulphate, sulphuric acid in an amount less than 3% and sufficient metallic salts to retard the regenerative action of the sulphuric acid, and stretching the filaments during regeneration thereof in at least one hot bath containing only such sulphuric acid and salts as are carried over by the thread from the first bath, which bath is maintained at a temperature in a range of 75° C. to 80° C.

2,328,308
GUN PERFORATOR
George F. Turechek, Los Angeles, Calif., assignor to Lane-Wells Company, Los Angeles, Calif., a corporation of Delaware
Application May 30, 1942, Serial No. 445,171
7 Claims. (Cl. 164—0.5)



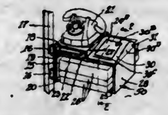
1. A gun perforator comprising: means defining a cartridge chamber and gun bore; a bullet for said gun bore exposed to the hydrostatic pressure of liquids in which the gun perforator is immersed, and adapted to be urged by said hydrostatic pressure backwardly into said cartridge chamber; an explosive cartridge in said cartridge chamber adapted to be compressed by rearward movement of said bullet; said cartridge chamber being larger than said gun bore; and a flange on the inner end of said bullet within said cartridge chamber.

2,328,309
FIRING HEAD FOR GUN PERFORATORS
George F. Turechek and Lloyd Spencer, Los Angeles, Calif., assignors to Lane-Wells Company, Los Angeles, Calif., a corporation of Delaware
Application September 19, 1942, Serial No. 459,038
8 Claims. (Cl. 164—0.5)



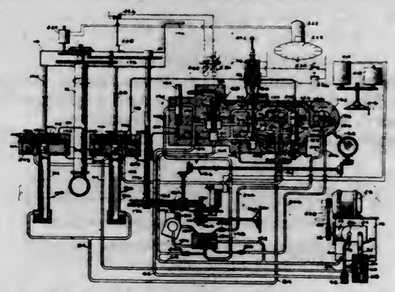
1. A firing head for explosively operated well tools, comprising: a body member; an explosive cartridge supported therein; a firing pin positioned to strike said cartridge; a stem adapted to engage said firing pin, said stem having a laterally flexible portion; and means engageable with said flexible portion to move the end of said stem adjacent said firing pin clear thereof.

2,328,310
HINGEDLY MOUNTED TELEPHONE ACCESSORY SHELF
Francis Tvrzicky, Chicago, Ill.
Application September 16, 1941, Serial No. 411,008
2 Claims. (Cl. 211—92)



1. A telephone accessory device comprising a single pivotally supported vertical side wall, a horizontal top shelf, a horizontal intermediate shelf spaced below said top shelf, a horizontal bottom shelf spaced below said intermediate shelf, said intermediate and bottom shelves being wider than said top shelf but all of said shelves being of equal length, the space between the top and intermediate shelves providing an upper compartment space, the space between the intermediate shelf and the bottom shelf providing a lower compartment space, said pivotally supported vertical side wall constituting a side closure wall for said upper and lower compartment spaces, a second vertical side wall spaced laterally from the pivotally supported side wall and extending upwardly from the top face of the intermediate shelf to said top shelf and constituting a side closure wall for said upper compartment space, a third vertical side wall spaced laterally from second vertical side wall and constituting a side closure wall for said lower compartment space, all of said shelves being fixed in stationary position relatively to said pivotally supported vertical side wall, the difference in the lengths of said top and intermediate shelves providing an elevated supporting face on said top shelf for a telephone instrument and a relatively lower supporting face on the intermediate shelf for support thereon of a housing for a roll of note paper, said housing comprising a hollow cover having an inclined top provided with a slot near the upper end thereof and a transversely disposed band near the lower end of said top, the free end of the roll of paper being extensible through said slot, over the face of said inclined top, and under said transverse band, and hinge means secured to said pivotally supported vertical side wall whereby the device is bodily movable only in a horizontal plane.

2,328,311
HYDRAULIC HOISTING AND ROTATING APPARATUS
Harry F. Vickers, Detroit, Mich., assignor to Vickers, Incorporated, Detroit, Mich., a corporation of Michigan
Application March 7, 1938, Serial No. 194,284
3 Claims. (Cl. 60—52)

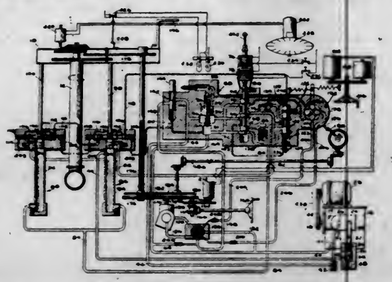


1. In a fluid power transmission system the combination with a pump forming a source of fluid under pressure, of a reciprocating fluid motor operable on fluid supplied from said source, valve means for selectively controlling the supply of fluid to said motor, pressure responsive means for regulating the displacement of the pump said means being normally biased to effect a predetermined pump displacement, and means including the motor piston operable during each stroke of the motor to control the connection between said pump regulating means and the motor for causing connection of said pump regulating means to the inactive side of the motor during the first portion of the stroke and connection to the active side during the final portion of each stroke, said piston alone being the direct controlling means for such connection.

2,328,312
HYDRAULIC HOISTING AND ROTATING APPARATUS
Harry F. Vickers, Detroit, Mich., assignor to Vickers, Incorporated, Detroit, Mich., a corporation of Michigan
Original application March 7, 1938, Serial No. 194,284. Divided and this application September 4, 1941, Serial No. 409,462
7 Claims. (Cl. 121—41)

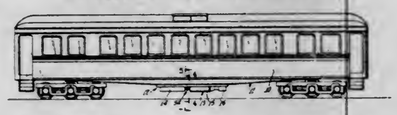
1. In a fluid power transmission system the combination with means forming a source of fluid under pressure, a reversible motor operable on fluid supplied from said source, follow-up means for controlling the supply of fluid to the motor to

effect movement thereof selectively to predetermined positions, limit stop means for interrupting the supply of fluid to the motor when the motor has moved a predetermined amount in either direction and the follow-up control means is operated to continue such movement, and



means connecting the limit stop means to the follow-up control means to cause reverse operation of the motor upon reverse operation of the follow-up control means while the limit stop means is still effective.

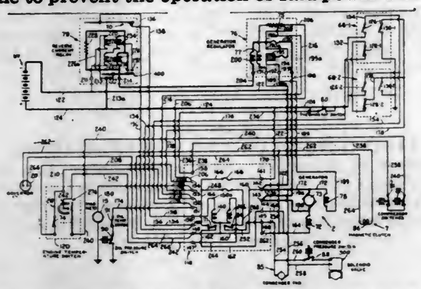
2,328,313
MOUNTING STRUCTURE
Louis H. Von Ohlsen, New Haven, Conn., assignor to The Safety Car Heating and Lighting Company, Inc., a corporation of Delaware
Application August 6, 1941, Serial No. 405,596
8 Claims. (Cl. 105—133)



1. In a vehicle construction, in combination, a frame construction comprising a pair of beam members, a plurality of inverted-L bracket members attached to said beam members with each of said bracket members presenting a downwardly extending supporting portion, a substantially rectangular frame having longitudinal members extending along and removably attached to said supporting portions, a bridge member extending across said frame and related at its ends to said longitudinal members for longitudinal and then vertical detaching movement, a motor rigidly attached to said bridge member to be supported thereby, an electric generator having a plurality of bridging support members attached at their ends to said longitudinal members, and means constituting a detachable mechanical coupling between said motor and said generator.

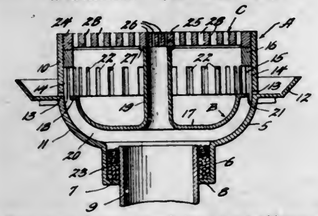
2,328,314
POWER SYSTEM AND CONTROL THEREFOR
Louis H. Von Ohlsen, New Haven, Conn., assignor to The Safety Car Heating and Lighting Company, Inc., a corporation of Delaware
Application August 6, 1941, Serial No. 405,597
12 Claims. (Cl. 290—31)

1. In a railway car power system, the combination of, an internal combustion engine, an electric generator directly connected to said engine, a power driven unit of a refrigeration system, means to connect said internal combustion engine to drive said power driven unit, and control means for the apparatus to control the operation and including safety means responsive to the condition of said internal combustion engine to prevent the operation of said power driven



unit when said internal combustion engine is incapable of assuming the load.

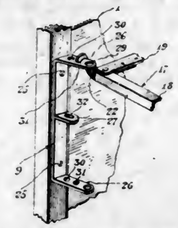
2,328,315
SURFACE DRAIN
Frederick Anton Warren, Atlanta, Ga.
Application July 15, 1941, Serial No. 402,509
2 Claims. (Cl. 182—31)



1. A floor drain comprising a casting constituting a drain body adapted to embrace the upper end of a conventional drain pipe, said body having a depending cylindrical portion extending below the upper end of said drain pipe and forming a sealing space terminating flush with the bottom of said body and the upper end of said drain pipe, a sealing means in said space, an annular series of lugs formed interiorly of the drain body, a sediment container supported on said lugs with its upper end forming an annular seat and of a dimension to form a channel space intermediate its bottom and the bottom of said drain body, said container formed with a series of openings normally in communication with said channel, an overflow tube disposed centrally of said sediment container adapted to discharge into said channel at the inlet end of said drain pipe, and a grating overlying said sediment container and disposed on said seat.

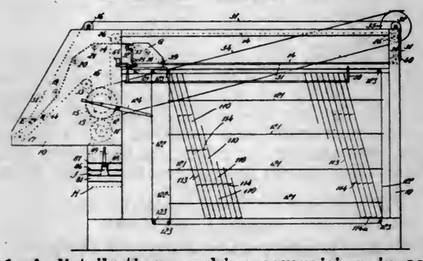
2,328,316
CRIB
Charles E. Webb, New London, Wis., assignor to Edison Wood Products, Incorporated, West Orange, N. J., a corporation of New Jersey
Application August 20, 1941, Serial No. 407,532
5 Claims. (Cl. 5—11)

1. In a crib having end sections, a movable side panel, and guide rods on the end sections for the side panel: the combination of rigidifying brackets for said guide rods provided with vertically spaced portions having holes spaced horizontally in the direction lengthwise of the crib; and a mattress frame having arms at its corners adapted to be supported by said bracket portions to hold the frame selectively at different heights and inclinations, said arms being rigid to the frame in the direction lengthwise of the crib and adapted to fit said holes to form interlocking joints with said brackets at each



adjusted position of the mattress frame whereby to rigidify the crib.

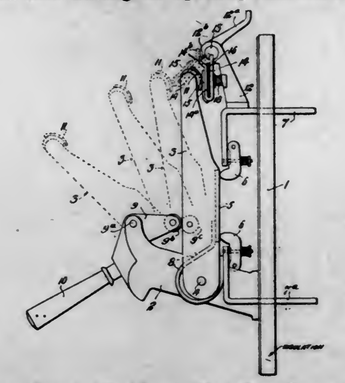
2,328,317
DISTRIBUTING AND ASSEMBLING MACHINE
Robert S. Wentworth, Mamaroneck, N. Y.
Application October 8, 1941, Serial No. 414,044
11 Claims. (Cl. 214—11)



1. A distributing machine comprising, in combination, a conveying means adapted to receive objects to be distributed, to move them from a receiving station to a plurality of points of release from said conveying means, means movable over all of said points of release for releasing said objects from said conveying means, control means, external of the articles distributed, adapted to selectively determine the points of release of the articles from the conveying means, a plurality of receptacles disposed in a plurality of nearly vertical tiers, each tier comprising a plurality of receptacles and having guided passages leading from the points of release along one side of said tiers of receptacles to each of the receptacles in the tier, means governed by said control means for selectively and successively registering said points of release from said conveying means with the entrance to the selected guided passages to such of the receptacles as have been set up in the said control means.

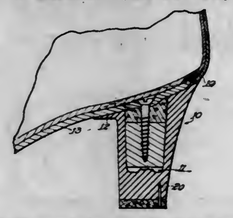
2,328,318
CIRCUIT BREAKER CONTACT
Joseph D. Wood, Bethlehem, Pa., assignor to Roller-Smith Company, a corporation of New York
Application April 3, 1942, Serial No. 437,503
3 Claims. (Cl. 200—147)

1. A circuit breaker comprising a movable conducting member, a fixed conducting member, one of said members having an arcing contact surface, a conducting element of general U form having one side portion of the U extending inwardly with reference to the breaker and pivotally mounted at its end on the other of said members and the other side portion of the U extending outwardly with reference to the breaker and having an arcing contact surface engaged by said first named arcing contact surface when the breaker is closed, the first named side portion forming a loop circuit with the member on which it is pivotally mounted for electrodynamically forcing said conducting element against said first named arcing surface when the breaker is closed and during its opening movement, and



the second named side portion forming a circuit through said engaging contact surfaces for electrodynamically forcing the arc outwardly along the contact surfaces upon the separation of said contacting surfaces.

2,328,319
HEEL
Armand Barton, Chicago, Ill., assignor of one-half to Louis Vulcan, Chicago, Ill.
Application April 21, 1941, Serial No. 389,509
2 Claims. (Cl. 36—34)

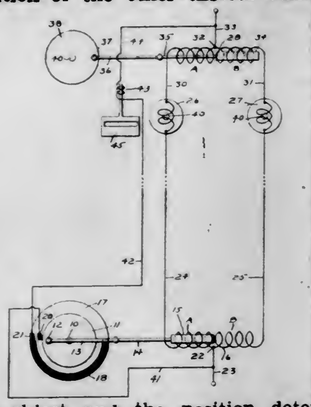


1. A heel comprising a body portion of compressed composition material, and a sectionalized core embedded in said body portion, the sections of said core being of material different from one another and different from said body portion, the top section being of resilient material.

2,328,320
REMOTE CONTROL AND INDICATOR
Sydney N. Baruch, New York, and Joseph Weinberg, Rego Park, N. Y., assignors to General Arc Lighting Company, Inc., Corona, Long Island, N. Y., a corporation of New York
Application September 17, 1942, Serial No. 458,747
9 Claims. (Cl. 172—239)

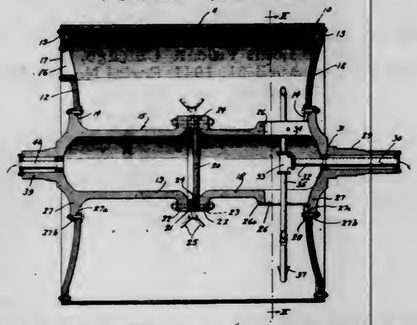
1. In a device for determining the position of a movable object, in combination, a solenoid having a movable magnetic core, means mechanically connecting said core to said movable object, a position determining means located at a point remote from said movable object, a second solenoid having a movable magnetic core, said core being connected to said position determining means for movement therewith, connections joining the windings of said solenoids to form two normally balanced parallel circuits and motor

means included in said circuits for operating one of said solenoids to a position corresponding to the position of the other thereof whereby the



movable object and the position determining means are caused always to occupy corresponding positions.

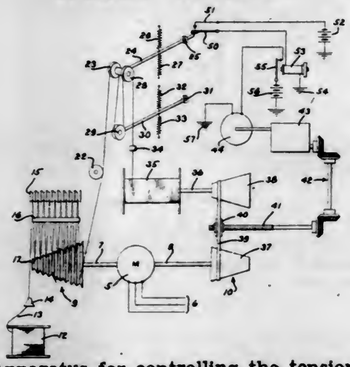
2,328,321
DRIER DRUM
Earl E. Berry, Beloit, Wis., assignor to Beloit Iron Works, Beloit, Wis., a corporation of Wisconsin
Application July 31, 1939, Serial No. 287,507
7 Claims. (Cl. 34—9)



5. A drier drum comprising a cast bronze hollow cylinder having a highly polished peripheral surface, concave cast bronze heads secured to the ends of said cylinder and having central apertures therethrough, a hollow ferrous metal trunnion extending through said cylinder and having enlarged rim portions force-fitted in said apertures, shoulders adjacent said rim portions, bolts springing said heads outwardly against said shoulders, a dividing wall in said trunnion, steam jets on one side of said dividing wall communicating with the interior of the trunnion and the cylinder, means for introducing the steam to said steam jets, steam condensate drain lines extending into said cylinder from said trunnion on the opposite side of the dividing wall whereby radial and axial stresses are relieved when steam is introduced into the drum to heat the cylinder due to the higher rate of expansion of said bronze material members over said ferrous metal trunnion.

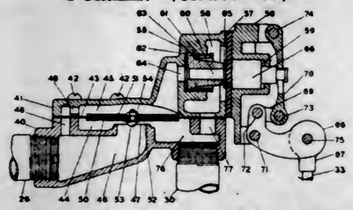
6. The method of making machine glazed paper which comprises contacting wet paper with the highly polished bronze surface of a heated, fine grained bronze drum, and vaporizing the moisture in said paper at a rapid rate without blowing the paper off said surface.

2,328,322
TENSION CONTROLLING APPARATUS
Wolf Berthold, Weehawken, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application January 13, 1942, Serial No. 426,549
13 Claims. (Cl. 242—45)



1. Apparatus for controlling the tension in a strand comprising a takeup reel, a capstan for delivering material to the takeup reel, a driving motor for driving said reel and capstan, a variable speed transmission between said reel and motor, and means for changing the speed ratio of said transmission in response to tension in the strand.

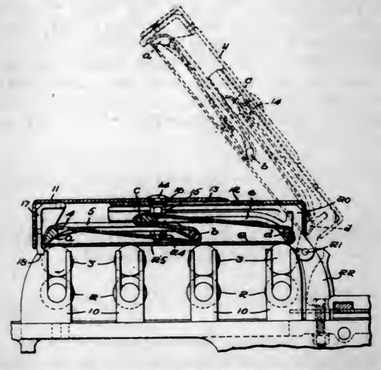
2,328,323
VALVE MECHANISM FOR WATER SOFTENERS
Herbert L. Bowers, Haworth, N. J., and Eric Pick, East Rockaway, N. Y., assignors to The Permutit Company, New York, N. Y., a corporation of Delaware
Application August 5, 1939, Serial No. 288,500
4 Claims. (Cl. 277—60)



1. A valve mechanism comprising a chamber, a continuous diaphragm dividing said chamber into two compartments, a valve having a member arranged for positive movement by the diaphragm in both directions, a float, another valve arranged for actuation by said float, a pair of pipes each selectively constructed and arranged to conduct liquid to and from the valve mechanism, means establishing free communication between one of said pipes, one of said compartments and both said valves, and other means establishing free communication between the other of said pipes, the other of said compartments and both said valves.

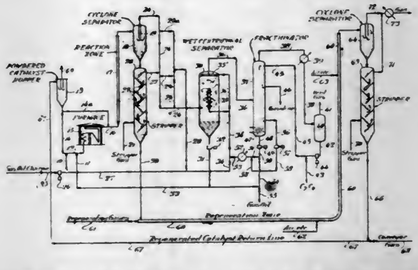
2,328,324
DRAWING FRAME CLEARER
Oscar F. Burman, Jr., Brockton, Mass., assignor to Saco-Lowell Shops, Boston, Mass., a corporation of Maine
Application February 10, 1943, Serial No. 475,353
11 Claims. (Cl. 19—139)

1. In a drawing frame, the combination with a set of drawing rolls and means supporting them for adjustment to vary the spacing of said rolls, of a clearer belt for said rolls, and supports holding said belt in its operative position, said supports being relatively adjustable to change the



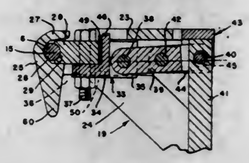
overall length of the belt span and simultaneously to let out slack in one part of it and to take it up in another whereby the clearer is maintained taut notwithstanding said adjustments to conform to different roll spacings.

2,328,325
POWDERED CATALYST RECOVERY
Robert E. Butikofer, Chicago, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application June 29, 1940, Serial No. 343,151
10 Claims. (Cl. 196—52)



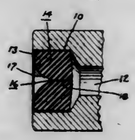
1. The method of separating powdered catalyst from hydrocarbon conversion products which comprises introducing a mixture of hot hydrocarbon conversion products and powdered catalyst into a dry separation zone, separating about 95 to 99.9% of said catalyst from said gases and vapors in said dry separation zone, injecting liquid gas oil into the gases and vapors leaving said dry separation zone, the amount and temperature of said gas oil being regulated to reduce the temperature of the hydrocarbon gases and vapors to the incipient condensation temperature of the heaviest constituents thereof whereby a mist of liquid droplets is formed in said stream for weighting the solid catalyst particles, subjecting said mist to centrifugal force in a catalyst separation zone for separating the liquid particles from the gases and vapors, withdrawing liquids together with substantially all of the solids from the base of said last-named separation zone, and introducing gases and vapors from the top of said last-named separation zone into a fractionation zone at an intermediate point therein.

2,328,326
DOOR CONSTRUCTION
Julius I. Byrne, Detroit, Mich.
Application April 14, 1941, Serial No. 388,530
3 Claims. (Cl. 268—51)



1. In a device for detachably gripping a linear member, a bracket having a grip portion engageable with the linear member, a grip member carried by and movable relative to said bracket and engageable with the linear member, said grip member being cooperable with said grip portion to grip the linear member, a link pivotally mounted on said bracket, a reach rod, and a second link pivotally connected at its opposite ends to said grip member and reach rod and intermediate its ends to said first mentioned link, the pivotal connection intermediate the ends of said second link being movable from one side to the other of the line between the pivotal mounting for said first mentioned link and the pivotal connection to said grip member.

2,328,327
LUBRICATOR DEVICE
Leland D. Cobb, Forestville, Conn., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application April 23, 1941, Serial No. 389,845
14 Claims. (Cl. 184—105)

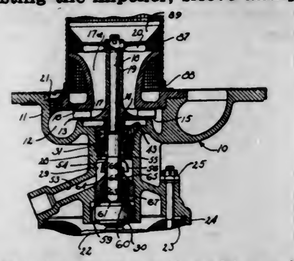


1. In a device of the character indicated, a rigid open ended tubular shell of fixed diameter and arranged to be press fitted in a lubricant passage in a housing, a frusto-conical bushing compressively mounted in unit-handling relation with said shell, said bushing being deformably resilient and having a bell-mouthed through bore provided with a narrow throat entering the larger end of the bushing, and the enlarged end of said bushing being so compressed by the shell that the bushing tends to resiliently close said throat.

2,328,328
IMPELLER AND PROPELLER CONSTRUCTION FOR BOOSTER PUMPS
Russell R. Curtis, Dayton, Ohio, assignor to Curtis Pump Company, Dayton, Ohio, a corporation of Ohio
Application April 18, 1942, Serial No. 439,514
12 Claims. (Cl. 287—52.05)

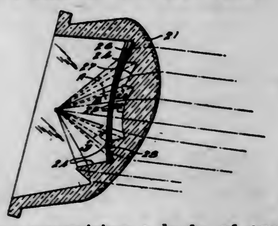
11. In a pump assembly having an inlet passageway, a drive shaft extending through said passageway, a pump impeller on said shaft, a propeller on said shaft, a spacer sleeve on said shaft between the impeller and propeller, a key slidable relative to the shaft drivingly connect-

ing said sleeve and impeller, and means for axially adjusting the impeller, sleeve and propeller



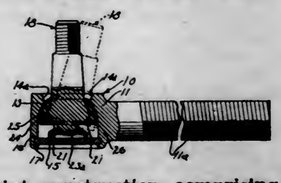
on said shaft to thereby adjustably position the impeller and propeller in said passageway.

2,328,329
LENS
John B. Dickson, Highland Park, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application June 17, 1941, Serial No. 398,439
9 Claims. (Cl. 240—106.1)



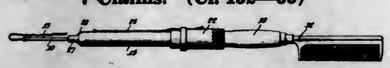
1. A lens comprising a body of asymmetrical shape with respect to its focal axis and having a substantially smooth outer surface of unalterable configuration dictated by aesthetic considerations, the inner surface of said body having a central area surrounding the focal axis of the lens and arranged in dioptric agreement with said outer surface to form therewith a collimating center, and a plurality of substantially straight, inwardly protruding ridges adjacent said collimating center, each of said ridges having an apex bowed inwardly of the lens body and a side face extending therefrom of substantially large area disposed in light receiving relation to the focal point of the lens and arranged in dioptric collimating agreement with said outer surface, whereby a substantially large portion of the lens collimates light about the focal axis of the lens.

2,328,330
RUBBER BUSHED JOINT
Jack L. Edington, Detroit, Mich., assignor to Thompson Products Incorporated, Cleveland, Ohio, a corporation of Ohio
Application December 4, 1941, Serial No. 421,555
4 Claims. (Cl. 287—85)



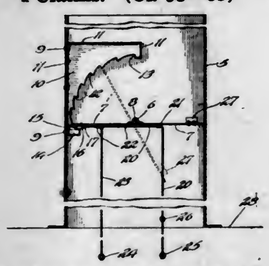
1. A joint construction comprising a socket member having an interior wall accommodating tilting and rotating movements, a stud having a ribbed head disposed in said socket, a rubber bushing carried by said stud head and held against rotation relative to the stud by said ribs, a lubricant-impregnated flexible fabric covering on said rubber bushing in bearing engagement with said socket bearing wall, means on said stud providing a bottom for said bushing, a rounded button end on said stud, a cap member in said socket receiving said button end, and a closure plate secured in said socket urging the cap against the button end for preloading the rubber bushing to maintain the fabric covering in proper bearing engagement with the socket bearing wall.

2,328,331
HAIR CURLER
Louis Eisenman, Brooklyn, N. Y.
Application May 19, 1942, Serial No. 443,615
7 Claims. (Cl. 132—33)



1. A hair curling device comprising an elongated spindle, means adapted to receive and hold a bobby pin unopened at one end including a spring on the spindle, and a rotatable mandrel on said spindle, said mandrel having an inclined end adapted to engage one arm of a bobby pin when moved on said spindle to separate the arms of the pin to permit a curl on said mandrel to be slipped off the mandrel and between the arms.

2,328,332
DAMPER
Arthur J. Filkins, Chicago, Ill., assignor to Paul Dickinson, Inc., Chicago, Ill., a corporation of Illinois
Application March 27, 1940, Serial No. 326,227
4 Claims. (Cl. 98—85)

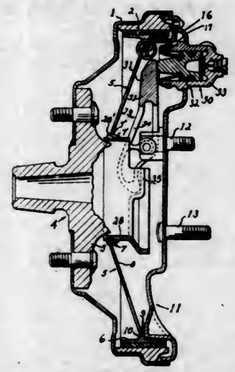


1. A pipe damper comprising a damper plate centrally pivoted in the pipe, having a spring latch projecting from one edge, a ratchet plate secured to the inside of the pipe projecting at right angles to the damper plate and overlying the central pivot with the edge of the plate in a curved path having teeth to engage the latch in its upward direction of movement and having end projections to limit the movement of the damper plate to ninety degrees, and means for withdrawing the latch from the teeth and rotating the damper plate in either direction.

2,328,333
POLYMERIZATION PROCESS
Richard D. Freeman and Gordon P. Schmeltzer, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application August 7, 1939, Serial No. 288,764
2 Claims. (Cl. 18—58)

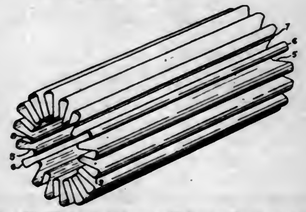
2. In a process of polymerizing a resin-forming mono-vinyl compound in a metal mold, the improvement which comprises applying to the inner surfaces of the mold, prior to the polymerization, a water-impervious film of a cellulose ether and applying over said film a film of water-soluble cellulose ether, whereby contamination of the resin-forming mono-vinyl compound and sticking of the polymerized object to the mold are prevented.

2,328,334
BRAKE
Phelps M. Freer, Detroit, Mich.
Application February 9, 1942, Serial No. 430,145
8 Claims. (Cl. 188—78)



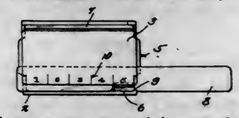
1. In a brake, relatively rotatable friction elements, one of said elements having an internal friction face and the other of said elements comprising friction members movable radially outwardly into engagement with said friction face and a resilient dished disc upon the periphery of which said friction members are mounted, springs for resiliently connecting the ends of said friction members together, common means for anchoring certain of said friction members and centering said last mentioned element relative to said first mentioned element, and means for flattening said disc.

2,328,335
FLEXIBLE WINDING SPOOL
Louis S. Fryer and Wayne J. Jokilehto, Cleveland, Ohio, assignors to Industrial Rayon Corporation, Cleveland, Ohio, a corporation of Delaware
Application June 10, 1940, Serial No. 339,666
8 Claims. (Cl. 242—121)



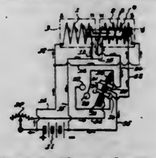
1. A radially compressible spin spool of generally tubular form comprising a plurality of axially extending alternately disposed grooves and ridges, each of said ridges being provided at the extremities thereof with a beveled edge which extends from a point in the crown of the ridge proximate to the end thereof to the corresponding end of the spool.

2,328,336
SAFETY RAZOR
Charles Fredrick Gilford, Concord, N. H.
Application July 12, 1943, Serial No. 494,385
4 Claims. (Cl. 30—77)



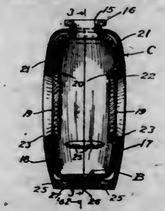
1. A safety razor comprising a frame, and a guard having a recess exposing a narrow portion of the cutting edge of a blade carried by the frame, the guard being mounted on the frame for adjustment longitudinally of the cutting edge, to expose, one after another, narrow portions of the cutting edge.

2,328,337
RECIPROCATING ELECTROMAGNETIC MOTOR
William G. Hanchock, Detroit, Mich.
Application July 16, 1941, Serial No. 402,666
11 Claims. (Cl. 172—126)



11. In a reciprocating electro-magnetic motor, a pair of solenoids each having a pole of the same polarity adjacent each other and a pole of the same polarity remote from each other, an inner coil slidable for reciprocating motion along and within the common axis of said pair of solenoids, the polarity of said inner coil being reversible upon reversing the direction of flow of current through said coil, said inner coil being simultaneously attracted by the first solenoid and repelled by the second solenoid and then alternately being simultaneously attracted by the second solenoid and repelled by the first solenoid upon reversal of flow of current through said coil, and switching means actuated by said inner coil to reverse the direction of flow of current through said inner coil said switching means being wholly confined between the solenoids to be removed from external obstructions and to be directly actuated by the inner coil.

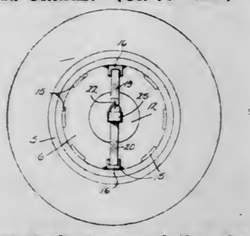
2,328,338
COLOGNE CONTAINER
Wesley R. Hauptman, Los Angeles, Calif.
Application January 21, 1942, Serial No. 427,617
5 Claims. (Cl. 215—12)



1. A container of the character described, comprising in combination, a glass bottle having sides with grooves therein, and a casing enclosing said bottle and comprising two shell-like sections having openings in the sides thereof,

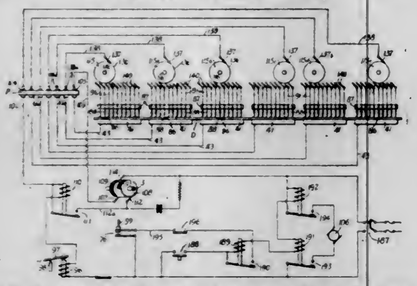
the walls of which are inturned to provide tongues extending into said grooves and means on said sections coacting to secure the latter in casing formation so that the tongues are retained within said grooves.

2,328,339
VEHICLE WHEEL LOCK
Earl L. Heath, Marinette, Wis.
Application February 18, 1942, Serial No. 431,329
12 Claims. (Cl. 70—259)



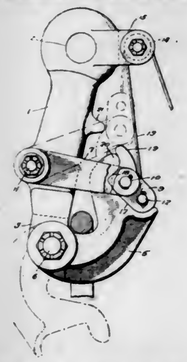
10. An anti-theft device of the character described comprising a pair of straps adapted for connection across the hub cap of a vehicle wheel to lock such hub cap in place, said straps having locking means wholly removable therefrom whereby to permit the straps to be projected from the rear through the narrow slots of a vehicle wheel, each of said straps being individually freely withdrawable from the wheel when unlocked, and each of the straps being individually provided unitarily with a head means angularly positioned to engage the rear of a vehicle wheel through which said straps project.

2,328,340
CONTROL APPARATUS
Byron R. Henderson, East Orange, N. J.
Application October 24, 1940, Serial No. 362,578
19 Claims. (Cl. 209—110)



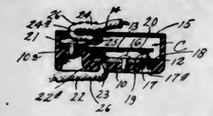
16. Apparatus for sorting record cards having columns of record indicia comprising a movable card guide, means for actuating said guide, a set of card sensing instrumentalities arranged for cooperation with said cards to sense all indicia of a column, a movable carrier, a plurality of sets of conditionable transmitting devices carried thereby and arranged and adapted for transmitting an actuating effect through said card sensing instrumentalities to said guide actuating means, each set of said transmitting devices being adapted to compare an operative setting effected by selective pre-conditioning thereof with a record pattern on a card, and each set of said transmitting devices being operatively interrelated with and adapted to establish operative controlling connection between said cards and said card sensing instrumentalities independently of any other set of transmitting devices, and means for moving said carrier to bring one set after another of said plurality of sets of transmitting devices into and out of operative relation to said sensing instrumentalities during a sensing operation for effecting said comparison. said sets of transmitting devices being so arranged that all the transmitting devices of each of said sets thereof are brought simultaneously into and simultaneously out of said operative relation to said set of card sensing instrumentalities.

2,328,341
COUPLING HOOK
Andrew Jackson Higgins and John M. Poche, New Orleans, La.
Application August 12, 1942, Serial No. 454,619
3 Claims. (Cl. 294—84)



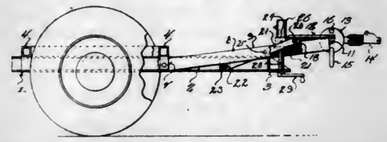
1. A coupling hook comprising, a shank, a jaw member pivotally connected at one end to the shank and having a recess in its other or free end, and latch mechanism comprising a link pivoted at one end to the shank and having a keeper pivotally connected to its other end, the said keeper fitting within the recess in the free end of the jaw to lock the jaw in weight-supporting position.

2,328,342
HEATING PAD THERMOSTAT
Lawrence M. Howard, St. Louis, Mo., assignor to Knapp-Monarch Company, St. Louis, Mo., a corporation of Missouri
Application November 10, 1941, Serial No. 418,458
7 Claims. (Cl. 200—138)



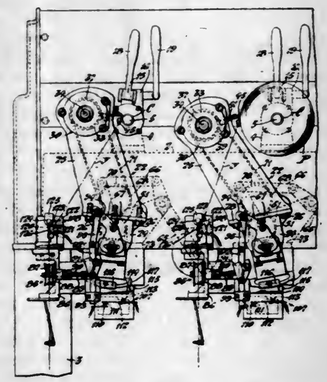
1. In a thermostat for heating pads or the like, a relatively narrow casing of insulating material having an open side, a terminal bar in said casing adjacent the opposite side thereof, a lead wire through said opposite side and connected with said terminal bar, an adjustable contact carried by said terminal bar, said opposite side of said casing having an elevated portion adjacent one end of said terminal bar, a bimetal element secured to said elevated portion and having a contact to cooperate with said first mentioned contact, a second terminal bar connected with the portion of said bimetal element on said elevated portion, a second lead wire connected therewith, said terminal bars and said bimetal elements substantially filling said casing widthwise, a cover for the open side of said casing, means for positioning said cover relative to said casing, and a single means surrounding said casing and cover and the portions of said lead wires adjacent said casing and cover to retain the cover on the casing and secure the lead wires against pulling on said terminal bars.

2,328,343
ADJUSTABLE TRAILER HITCH
Thomas H. Jacob, Wausau, Wis.
Application May 31, 1941, Serial No. 396,073
3 Claims. (Cl. 280—33.44)



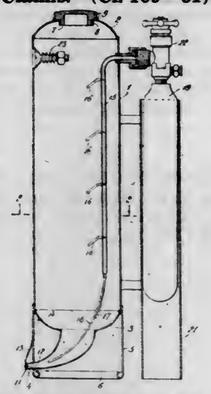
1. In a trailer including a main frame, a tongue pivotally connected to said frame, a hitch support pivotally connected to the end of said tongue having means for connection with a tractor coupling, means carried by the main frame and connected with said support for adjustment of said support relative to the main frame, and a compensating link connecting said support, tongue and main frame for maintaining said support and main frame substantially parallel and the main frame in substantially horizontal position, when the hitch support is connected to a tractor coupling regardless of the height of the tractor coupling from the ground.

2,328,344
WINDING MACHINE
Charles H. Jones, Warwick, R. I., assignor to Universal Winding Company, Boston, Mass., a corporation of Massachusetts
Application June 16, 1941, Serial No. 398,358
19 Claims. (Cl. 242—36)



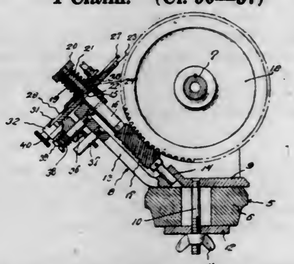
1. In a machine of the type indicated, a winding spindle, a traverse frame mounted to move toward and away from the winding spindle, a rotary cam carried by the traverse frame for movement therewith toward and away from the spindle, means for driving the winding spindle and traverse cam, and a thread-guide slidable on the traverse frame and connected to be reciprocated by the cam carried by said frame.

2,328,345
FIRE-EXTINGUISHING APPARATUS
Michael E. Keefe, Jr., Jersey City, N. J., assignor to National Powder Extinguisher Corporation, Jersey City, N. J., a corporation of Delaware
Application April 17, 1942, Serial No. 439,307
4 Claims. (Cl. 169—31)



1. Fire-extinguishing apparatus of the dry powder type comprising a cylindrical container for the powder, a discharge nozzle at the lower end of the cylindrical container, a vertical tube of uniform diameter extending from a point within the container near the top to a point near the nozzle, branch tubes of smaller diameter extending laterally from the tube at spaced intervals, the outer ends of the branch tubes following generally the curvature of the cylindrical wall of the container, other branch tubes extending downwardly from the end of the tube toward the nozzle, and means for introducing gas under pressure into the tube.

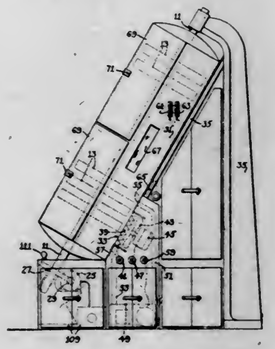
2,328,346
DIVIDING HEAD
Henry Krochmal, Elizabeth, N. J.
Application January 30, 1942, Serial No. 428,947
1 Claim. (Cl. 90—57)



In a dividing head, an arm, a plate integral with one end of the arm and arranged angularly to said arm and positioned horizontally on bed rails of a lathe locating said arm laterally of the bed rails and extending upwardly and outwardly from the rails, means releasably securing the plate on the rails and for adjustment endwise thereof, spaced aligned bearings on said arm, an operating shaft rotatably supported by said bearings and arranged thereby parallel to said arm, a dividing plate having a toothed periphery keyed on said shaft, a sleeve type nut removably mounted on the shaft and employed as a finger piece for rotating the shaft and bearing against the dividing plate, indicators overlying the dividing plate in superimposed rela-

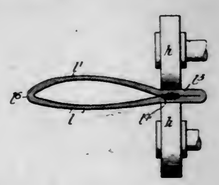
tion to each other and journaled on the sleeve type nut, a coil spring mounted on the sleeve type nut with one end bearing against said nut and the other end bearing against one of the indicators to force the other indicator to bear against one face of the dividing plate and providing a yieldable drive between the indicators and the nut, means releasably connecting the indicators, spaced pins secured to the arm, a latch means slidable on said pins, spring means on one of said pins and urging the latch means to engage the toothed periphery of the dividing plate, and drive means connecting said shaft to a spindle of the lathe.

2,328,347
PROCESS OF INCUBATION OF EGGS
Zing Yang Kuo, Boston, Mass.
Application August 12, 1939, Serial No. 289,912
10 Claims. (Cl. 119—44)



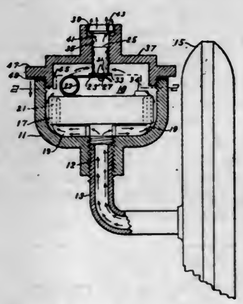
1. That step in the process of incubation of eggs which consists in imparting a series of periodic rotational movements to the egg about a longitudinal axis which is inclined to the horizontal and in a clockwise direction viewing the egg from the large end the axis of the egg extending in the same direction as the first mentioned axis, and the large end of the egg being elevated, the extent of each rotational movement being substantially less than a half revolution and such series of rotational movements being continued throughout approximately the first week of the incubation period.

2,328,348
MANUFACTURE OF PROPELLER BLADES
Glen T. Lampton, Williamsport, Pa., assignor, by mesne assignments, to The Aviation Corporation, New York, N. Y., a corporation of Delaware
Application June 12, 1939, Serial No. 278,740
4 Claims. (Cl. 29—156.8)



1. That improvement in the manufacture of hollow propeller blades from a tubular steel blank which comprises shaping one end portion of the blank to form a shank, axially bending the other portion of the blank while it is tubular so that the outer side of the bend will be curved to conform substantially to the longitudinal curvature of the leading edge desired, pressing the curved tubular portion into face-sections of cross-sectional airfoil contour with a seamless leading edge along the outer side of the bend, flattening the opposite side portion of the blank upon itself along a line conforming to the trailing edge desired to form two layers with a connecting fold between them, welding together the two layers by current flowing between electrodes and across the layers inwardly of the fold and along the line of the trailing edge desired, trimming off the layers and the fold outwardly of the weld, and shaping the margin of the welded layers to conform to the airfoil faces.

2,328,349
VALVE
John H. Laws, Detroit, Mich.
Application December 18, 1942, Serial No. 469,385
4 Claims. (Cl. 236—62)

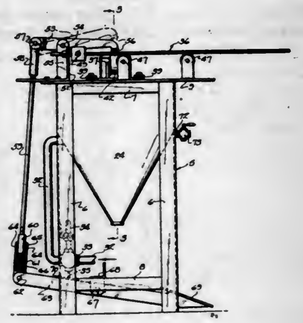


1. In combination in an outlet relief valve for steam heating systems, an open top casing enclosing a float chamber, a float in said chamber, an aperture opening through the bottom of said float chamber, rests for supporting said float spaced from the bottom of said chamber so that said aperture is open at all times, a cover secured in firm sealed engagement upon and closing the upper edge of said open top casing, an atmosphere vent opening through said cover, a valve member slidable in said vent for opening or closing the vent, a coiled bi-metallic thermally exposed member exposed to temperatures in said float chamber, said bi-metallic member having one end secured to the top side of said float in an off-center position, and the other end of said coiled bi-metallic member being extended over the center of the float to provide a movement multiplying lever arm, said arm being connected to said valve member by a pin and slot connection for closing said atmosphere vent in response to high temperature and for opening the vent in response to low temperature except when condensate enters said chamber and raises the float which closes the atmosphere vent.

2,328,350
SANDBLASTING APPARATUS
Elmer H. Lindenmeyer, Ottawa, Ill., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio
Application April 22, 1941, Serial No. 389,788
6 Claims. (Cl. 51—8)

1. In sand blasting apparatus of the character

described, means for supporting an article to be marked, said supporting means having an opening therein, a stencil covering said opening, a cylindrical distributing nozzle behind said stencil in line therewith, a cylinderical air nozzle mounted in the outer end of said distributing nozzle and having its inner wall tapering inwardly, an abrasive nozzle having connection with an abrasive supply arranged within said air nozzle concentric therewith and flaring toward its discharge end, and means for introducing air under pressure into the outer end of said air nozzle in surrounding relation to said abrasive nozzle for drawing abra-



sive through said abrasive nozzle from said abrasive supply and ejecting it through the said stencil and against the article to be marked.

2,328,351
POLYMERIZED CHLOROPRENE COMPOSITIONS
Alexander D. MacDonald, Malden, Mass., assignor to B. B. Chemical Co., Boston, Mass., a corporation of Massachusetts
No Drawing. Application January 31, 1940, Serial No. 316,513
6 Claims. (Cl. 260—32)

1. A liquid composition comprising malodorant-free plastic polymerized chloroprene dispersed in an organic solvent, said composition being characterized by resistance to thickening and gelling over a substantial period of time and by the presence therein of an alkali salt, selected from the group of sodium, potassium, and ammonium salts, of an inorganic acid containing a sulphur-oxygen group.

2,328,352
LIQUID COMPOSITION CONTAINING POLYMERIZED CHLOROPRENE
Alexander D. Macdonald, Malden, Mass., assignor to B. B. Chemical Co., Boston, Mass., a corporation of Massachusetts
No Drawing. Original application January 31, 1940, Serial No. 316,513. Divided and this application November 3, 1941, Serial No. 417,682
5 Claims. (Cl. 260—32)

1. A liquid composition comprising malodorant-free plastic polymerized chloroprene dispersed in an organic solvent, said composition being characterized by resistance to thickening and gelling over a substantial period of time and by the presence therein of a salt of the group consisting of sodium formate and sodium acetate.

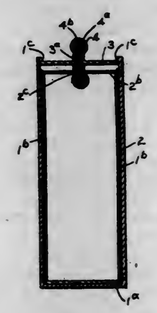
2,328,353
AZO DYESTUFF INTERMEDIATE
Neil Mitchill Mackenzie, Bound Brook, N. J., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application June 7, 1941, Serial No. 397,086
7 Claims. (Cl. 260—397.7)

1. A method for preparing compounds corresponding to the formula:

$$(CH_3COCH_2CONH)_nRX_{n'}$$

in which R is an aromatic radical, X is a member of the group consisting of SO_3H, SO_2NH_2 and their salts, n is an integer included in the group consisting of 1 and 2, and n' is an integer included in the group consisting of 1, 2, and 3, by reacting diketene with a compound included in the group consisting of the corresponding amino sulfonamides, amino sulfonic acids and their salts.

2,328,354
BABY FEEDING DEVICE
Elizabeth Montano, Palm City, Calif.
Application September 15, 1942, Serial No. 458,396
3 Claims. (Cl. 215—11)

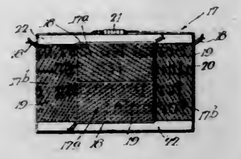


1. In a baby feeding device of the class described, the combination of a paper receptacle, a lid therefor provided with a central opening, a holder for said paper receptacle provided with a lid with a conforming central opening and a nipple extending through the opening in both lids and with its opposite ends extended.

2,328,355
ANIMAL GROWTH PROMOTING SUBSTANCE
Jerome Jordan Oleson, Pearl River, N. Y., assignor to Lederle Laboratories, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application June 20, 1941, Serial No. 398,916
15 Claims. (Cl. 99—11)

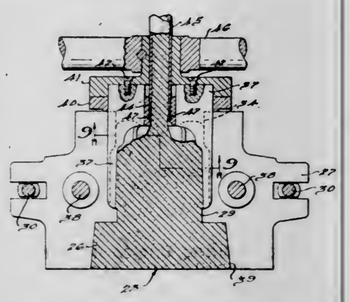
1. The process of improving the animal nutritional requirements of substances of the group consisting of food products and pharmaceuticals which comprises adding thereto a substance of the group consisting of uracil-4-carboxylic acid, uracil-5-carboxylic acid, amides, glucosides and salts of such acids.

2,328,356
STRIP METAL PACKAGE
John Ekern Ott, Lisle Township, Du Page County, Ill., assignor to Acme Steel Company, Chicago, Ill., a corporation of Illinois
Application March 25, 1939, Serial No. 264,255
6 Claims. (Cl. 206—60)



1. A bundle of flat flexible metal strips comprising a plurality of parallel sections bound together and each comprising a plurality of strips, the strips in each section being arranged parallel to each other and normal to the planes of the strips of another section with the longitudinal axes of the strips in all of said sections extending parallel to each other, said strips in all of said sections being of the same size.

2,328,357
METHOD AND APPARATUS FOR FORMING CORES
Edgar A. Petersen, Grosse Pointe, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application January 26, 1942, Serial No. 428,182
12 Claims. (Cl. 22—10)

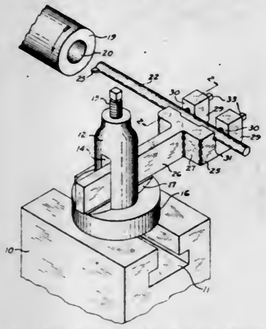


10. Apparatus for forming a sand core by sand blasting, comprising, a core box having a sand-receiving cavity and a print end, said box including parts relatively separable in a direction transverse to said cavity, cover means for the end of said box opposite said print end including a first member having slots extending therethrough and a second member movable relative to the first member, vanes carried by said second member respectively extending through the slots in said first member and projecting into said cavity, said members having an inlet opening therethrough for admitting a blast of sand axially into said cavity, said second member and said parts being relatively movable in an axial direction with respect to said cavity for withdrawing said vanes from said first member and said cavity, and a die member insertable through the opening in said first member for imprinting the adjacent end face of the core.

2,328,358
ORGANIC COMPOUND AND PROCESS FOR PREPARING THE SAME
Josef Pikl, Pitman, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application January 23, 1941, Serial No. 375,617
9 Claims. (Cl. 260—500)

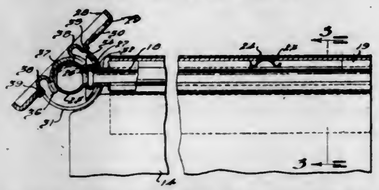
1. A compound of the group consisting of amino-methylene-phosphonic acid, its N-alkyl, N-aralkyl and N-aryl derivatives, and the normal and acid salts of any of these.

2,328,359
TOOL HOLDER
Frederick M. Ramsdell, Worcester, Mass.
Application March 6, 1942, Serial No. 433,562
5 Claims. (Cl. 77—58)



1. A tool holder comprising a supporting shank, a head integral with the shank and provided in its upper surface with an upwardly-open groove extending at substantially right angles with the shank and adapted to receive a substantially horizontal boring bar or the like, and means to clamp the boring bar within the groove while leaving the top of the bar unobstructed.

2,328,360
GLARE SHIELD MOUNTING
Ulysses C. Rigoulot, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application June 25, 1942, Serial No. 448,387
7 Claims. (Cl. 287—21)

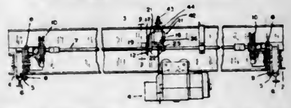


3. In a support for adjustably mounting a glare shield, a fixed member including a hollow portion provided with a bearing surface internally thereof and having an opening therein, a glare shield supporting member extending through said opening and adapted for movement relative to said fixed member whereby to dispose the shield in a plurality of relatively different positions, said supporting member having a seating portion at least partially enclosed by said fixed member, a bearing surface movable with said supporting member and engageable with said internal bearing surface to frictionally oppose movement of said supporting member, a member having a seat receiving said seating portion to accommodate movement of said supporting member as aforesaid and having a plurality of spring fingers respectively engaged in openings in said fixed member and operating to urge said seat against said seating portion and to thrust said bearing surfaces into frictional engagement.

2,328,361
METHOD OF CONDITIONING SLUDGE
Marion D. Sanders, Chicago, Ill., assignor to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware
No Drawing. Application August 23, 1939, Serial No. 291,618
25 Claims. (Cl. 210—2)

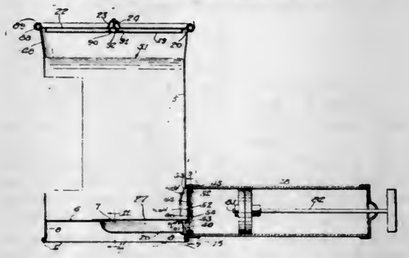
1. The method of treating packing house waste water containing protein which comprises precipitating the protein by adding an acid, flocculating the precipitated protein by adding a protein coagulant, separating the flocculated material from the effluent to form a sludge, coagulating the protein by heating, adding a water soluble salt of calcium to the coagulated protein, and recovering the coagulated protein and solids from the sludge.

2,328,362
POWER DRIVE MECHANISM
Daniel A. Schaitberger, Detroit, Mich., assignor to Northern Engineering Works, Detroit, Mich., a corporation of Michigan
Application May 18, 1942, Serial No. 443,502
4 Claims. (Cl. 212—21)



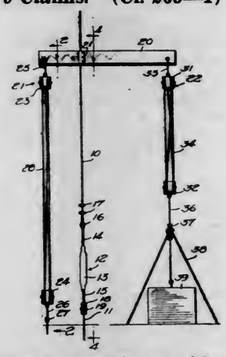
1. Power drive mechanism for attachment to a hand-propelled overhead load carrying device comprising a rotatable driven member attachably mounted on the propeller shaft of the hand propelling mechanism, an electric motor, a rotatable driving member operatively connected to said driven member and said motor, a support for said motor and said driving member attachable to and positioned by the propeller shaft to position the axis of said driving member in predetermined relation to the axis of said driven member, and means attachably secured to the load carrying device for holding said support from rotation about the propeller shaft.

2,328,363
DISPENSING DEVICE FOR FILLING GREASE GUNS AND THE LIKE
Edwin P. Sundholm, Albert City, Iowa
Application November 9, 1939, Serial No. 303,655
21 Claims. (Cl. 221—47.5)



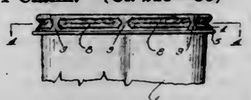
1. A fluid-dispensing device comprising a generally upright sheet-metal reservoir body, a boss carried by and extending outwardly from the side wall of said reservoir body and presenting a generally flat external surface, and a suction-receiving socket revolubly secured to said generally flat surface and openings in said flat boss-surface and in the corresponding part of said suction-receiving socket adapted to be brought into and out of registration with each other by rotary displacements of said suction-receiving socket.

2,328,364
CABLE TENSIONING MECHANISM
Frank H. Taylor, New York, N. Y., assignor to Lehigh Structural Steel Company, New York, N. Y., a corporation of Delaware
Application July 30, 1942, Serial No. 452,978
9 Claims. (Cl. 265—1)



5. In combination with a cable to be placed under tension, wherein the cable is connected at one end to a given structure and has means at its other end to be connected to an anchor, a tensioning apparatus comprising a balancing member having means for detachably connecting it to the cable in a position approximately perpendicular thereto at a point spaced from the last named end thereof, a pair of force-applying devices connected to said balancing member on opposite sides of and spaced from its point of connection with the cable and arranged to apply forces to said balancing member in lines parallel to and in a common plane with a line from said detachable connecting means to said anchor, one of said force-applying devices comprising means for indicating when the tension of the cable between said structure and said balancing member has reachced a predetermined point, and a take-up device in said cable between said balancing member and said anchor.

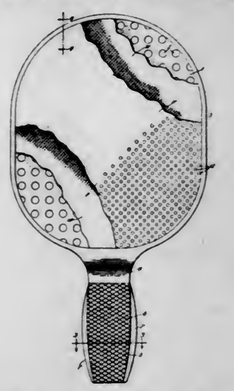
2,328,365
CLOSURE CAP
Swan N. Tevander, Maywood, Ill.
Application March 24, 1941, Serial No. 384,830
1 Claim. (Cl. 215—38)



In combination with a container having an externally beaded rim of rounded cross-section, a metallic cap comprising a top wall which includes a marginal portion having a sealing surface and dimensioned to seat on said rim, and a skirt depending from said portion and having its lower edge rolled over in a continuous circum-

ferential reinforcing bead, said skirt having inwardly projecting arcuate segments closely spaced at intervals in its periphery, said segments being V-shaped in vertical cross-section with their lower inner faces inclined downwardly and outwardly and dimensioned to cam over the beaded rim when the cap is pressed onto it, each pair of adjacent segments being joined by a single relatively narrow vertically extending rib which is outwardly convex and rounded in horizontal section serving to stiffen the skirt against collapse when it is pressed over the beaded rim but affording sufficient resiliency to allow said skirt to expand as the segments pass over the beaded rim and to contract with the upper faces of said segments engaging the rounded under surface of the bead to retain the cap on the container.

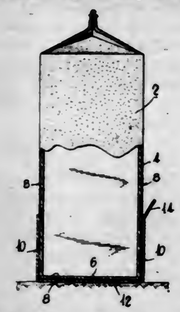
2,328,366
TABLE TENNIS BAT
Elmer J. Timmermann, Glendale, Calif.
Application July 28, 1942, Serial No. 452,596
3 Claims. (Cl. 273—76)



2. In a table tennis bat, a body comprising a relatively thin resilient blade, flanges integral with and projecting laterally beyond the margins of said blade and leaving said blade substantially resilient, a handle connecting portion of approximately the same thickness as the combined thickness of said blade and said flanges integral with and projecting longitudinally beyond said flanges and said blade at one end of the latter, and a hollow handle integral with and projecting longitudinally beyond said connecting portion; a sheet of elastic material fitted within the area bordered by each of said flanges at the respective sides of said blade and its edge adjacent the inner side of the adjacent flange and also having its outer surface approximately in the same plane with the outer surface of said adjacent flange; and a substantially inelastic section of textile material having the same area as and attached to the concealed side of each of said sheets and also adhesively attached to said blade within the area bordered by one of said flanges and having its edge adjacent to the inner side of said complementary flange.

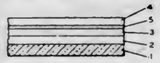
2,328,367
CONTAINER
Augustine J. Todd, Washington, D. C.
Application May 22, 1940, Serial No. 336,646
2 Claims. (Cl. 229—87)

1. In combination with a container having a coating of a thermoplastic waterproofing material on the outside thereof, means to protect the bottom of said container against dirt comprising a strip of fibrous material having a portion extending across the bottom of the container and portions extending upwardly along the side walls thereof, said upwardly extending portions



being adhesively secured to the walls of the container by said thermoplastic material, said strip leaving the other two walls of the container free, and a tab on one of said upwardly extending portions unconnected to the wall of the container to be gripped by the fingers for easy removal of the strip from the container.

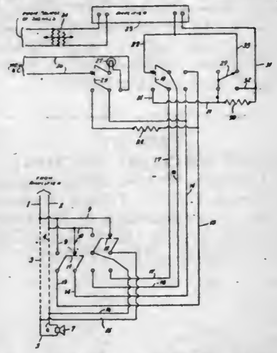
2,328,368
COLOR PHOTOGRAPHY AND CINEMATOGRAPHY
Alan Gilbert Tull, Purley, England, assignor to Latta Syndicate Limited, London, England, a British company
Application March 19, 1941, Serial No. 384,180
In Great Britain March 27, 1940
5 Claims. (Cl. 95—2)



1. A method of producing a multi-color photographic record on a material including a support and several silver halide emulsion layers coated thereon of which the layer nearest the support is diffusely dyed with a dye capable of being discharged selectively to form a color image and the other layers are substantially colorless, comprising exposing such material, developing the latent images therein to silver, producing silver ferrocyanide images in said layer, treating the material in a toning bath containing a ferric salt and a uranium salt to form a Prussian blue image in the uppermost layer and a uranium ferrocyanide image in the following layer and, at any stage where the developed silver image in the layer nearest the support remains as silver, producing a color image in said layer by the selective destruction of the dyestuff therein.

2,328,369
THEATER SOUND SYSTEM
Albert Le Roy Upton, St. Louis, Mo.
Application July 31, 1942, Serial No. 453,125
2 Claims. (Cl. 179—1)

1. In a sound system a pair of circuits each fed by an audio amplifier, a loud speaker and a circuit thereto, a double throw switch adapted to connect either amplifier circuit with the speaker circuit, a ballast resistor, and a selector switch for selectively connecting said resistor in one of the amplifier circuits and to by pass said resistor, a line being connected to the selector switch and arranged to by-pass said double



throw switch when the resistor is connected in said amplifier circuit by the selector switch.

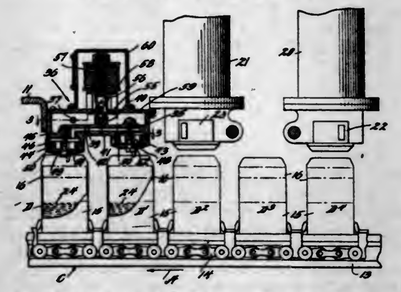
2,328,370
KETO CARBOXYLIC ACID DERIVATIVES
Georg Wiest, Ludwigshafen-on-the-Rhine, Germany; vested in the Alien Property Custodian
No Drawing. Application December 24, 1940, Serial No. 371,593. In Germany February 12, 1940
9 Claims. (Cl. 260—464)

5. Aliphatic 1.7-diketones disubstituted in the 4-position by a modified carboxylic acid group selected from the group consisting of ester, nitrile and amide groups and by an acidifying radicle.

2,328,371
LITHOGRAPHIC PLATE PREPARATION
William H. Wood, Bedford, Ohio, assignor to Harris-Seybold-Potter Company, Cleveland, Ohio, a corporation of Ohio
No Drawing. Application April 13, 1940, Serial No. 329,564
17 Claims. (Cl. 95—7)

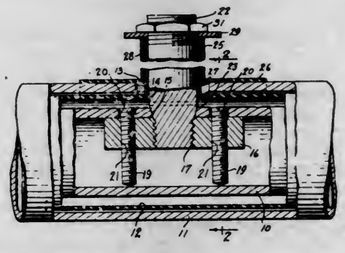
1. In a process of making lithographic plates, applying to the plate a surfacing of ammonium arabate and egg albumen in the proportions of one part of a twenty per cent solution of albumen to one to four parts of a twenty per cent solution of the arabate, and providing a light-sensitizing agent.

2,328,372
MECHANISM FOR AND METHOD OF CHARGING CONTAINERS WITH LIQUID
Julius E. Wollenweber, Detroit, Mich., assignor to The American Paper Bottle Company, Toledo, Ohio, a corporation of Ohio
Application November 25, 1938, Serial No. 242,429
4 Claims. (Cl. 226—69)



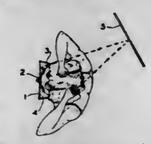
4. In the art of charging containers with liquids such as milk which foam when agitated, passing a stream of milk downwardly into a container through the open mouth thereof to partially fill the same, and immediately thereafter projecting downwardly into the container through said open mouth and into any body of foam resting upon the surface of the liquid in the container, a jet of steam to dissipate such foam, thereby making it possible to promptly close and seal the container mouth.

2,328,373
ELECTRIC DISTRIBUTION SYSTEM
Leonard R. Bogardus, Grosse Pointe Farms, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan
Application July 5, 1941, Serial No. 401,166
8 Claims. (Cl. 174—71)



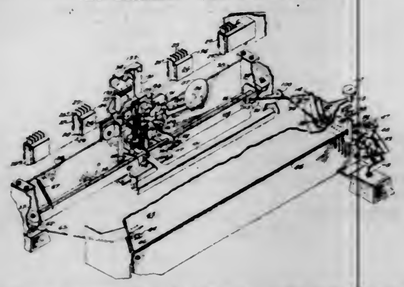
1. A current tap for an intermediate portion of a bus section composed of inner and outer metal tubes separated by a tube of insulation, comprising a floating contact nut inserted inside the inner tube, said tubes having aligned radial openings therethrough, means piloted in said inner tube and supporting said nut adjacent the opening in the inner tube, and a conductor member projecting through the aligned tube openings and having a threaded end screwed into said nut, said conductor member securing the nut tightly against the inner tube when screwed therein.

2,328,374
DEVICE FOR AIDING IN HAIRDRESSING
Emma G. Danilla, Berlin Heights, Ohio
Application April 11, 1942, Serial No. 438,619
4 Claims. (Cl. 88—101)



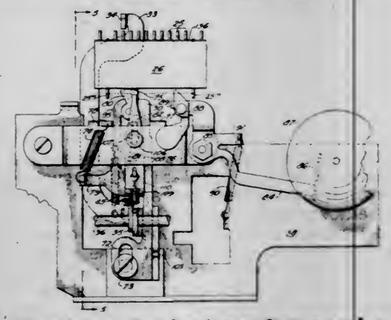
1. In a device of the character described, a pair of members having light-reflecting surfaces of substantial area, a nose piece directly connecting said members in spaced relation, and bows pivotally connected to said members for engagement with the wearer's ears, said nose piece being dimensioned to position said light reflecting surfaces directly in front of and across the line of normal forward vision of the wearer's eyes and said light reflecting surfaces being dimensioned to provide portions thereof extending laterally beyond the respective sides of the wearer's head whereby to reflect the image of the rear portion of the wearer's head from a mirror positioned in the rear of the wearer.

2,328,375
TYPEWRITING MACHINE
William A. Dobson, Wethersfield, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware
Application December 31, 1940, Serial No. 372,622
10 Claims. (Cl. 197—63)



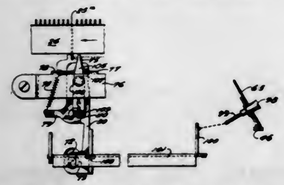
1. In a typewriter having a reciprocatory carriage movable in letter-space increments, a combined margin regulating and tabulator mechanism including a series of uniformly shaped, selectively settable stops on the carriage, arranged, slightly spaced in definite ratio to the letter-space increments, substantially throughout the carriage run, for individual settings from an ineffective position to a margin position or a tabulating position, means to individually set said stops at a stop-setting station, to either the margin or tabulating positions, a normally ineffective tabulator counterstop movable to a position to engage the tabulator set stops, a margin counterstop normally effective to engage the margin-positioned stops, and means, including the carriage, mounting said series of stops and said margin counterstop for limited movement together, after counterstop engagement by one of the margin-positioned stops, the extent of limited movement being such that the set margin stops are arrested substantially at said stop-setting station, irrespective of the direction of carriage movement.

2,328,376
TYPEWRITING MACHINE
William A. Dobson, Wethersfield, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware
Application January 27, 1941, Serial No. 376,045
10 Claims. (Cl. 197—63)



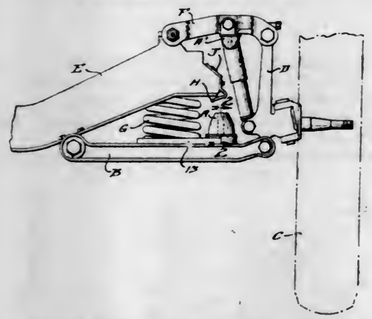
1. In a typewriter having a frame and a carriage movable in opposite directions on the frame, a series of settable stops and a counterstop mounted, one on the frame and the other on the carriage, the stops of the series being arranged for setting individually to effective position, means to individually set said stops, and means, conditioned by the setting of a stop, operable upon moving the carriage and selective according to the direction of carriage movement, to determine alternative relative positions of the set stop and the counterstop, thus to limit carriage movement in a selected direction.

2,328,377
TYPEWRITING MACHINE
William A. Dobson, Wethersfield, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware
Application January 27, 1941, Serial No. 376,046
8 Claims. (Cl. 197—63)



1. In a typewriter having a frame and a travelable carriage, in combination, a stop and a counterstop oppositely mounted on the frame and carriage for relative movement during carriage travel, said counterstop being normally urged to a position engageable with said stop, to gage a normal line end of carriage travel, means for moving the counterstop to clear the stop to permit additional carriage travel beyond the normal line end, and resilient latching means for releasably holding the counterstop so moved during said additional carriage travel, said latching means being engageable and releasable by the stop during subsequent carriage travel, to release the counterstop for restoration to effective position.

2,328,378
BUMPER
John C. Dudley, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application May 16, 1941, Serial No. 393,698
3 Claims. (Cl. 267—63)



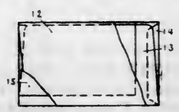
1. A bumper of the character described comprising a rubber body of approximate frusto-conical shape having an opening axially therein, a support bonded to the base of said body and extending transversely to said axis, said support projecting beyond said body from around said base to freely accommodate bulging of base portions of said body and to support such portions when said body is subjected to axial impact.

2,328,379
ARTIFICIAL TOOTH
Reiner W. Erdle, Chicago, Ill., assignor to Dental Research Corporation, Chicago, Ill., a corporation of Illinois
Application April 10, 1940, Serial No. 328,912
5 Claims. (Cl. 32—10)



2. A unitary artificial side retention denture tooth comprising a body having substantially complete labial and lingual surfaces and a generally vertically disposed rib extending between said lingual and labial surfaces and having a gingival surface sloping from the labial gingival downward to the lingual gingival, said rib decreasing in width from said lingual surface toward said labial surface and defining with the lingual and labial portions of the tooth body a pair of substantially triangular retention cavities at opposite sides of said rib open at the sides of the body, each of said cavities being provided at the labial surface thereof with retention serrations extending outward from said rib, the latter being provided at the opposite sides thereof with retention serrations.

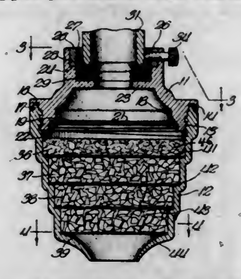
2,328,380
COMBINED BUSINESS REPLY POST CARD AND ENVELOPE
Emanuel Feder, Newark, N. J.
Application August 30, 1941, Serial No. 409,007
1 Claim. (Cl. 229—73)



A device for mailing comprising an elongated rectangular front panel, a top flap, and a lower flap integrally connected by fold lines along the longitudinal edges of the front panel substantially throughout the length thereof; said top flap having its upper border provided with an adhesive or gummed substance; means for sealing said panel and upper and lower flap to form an envelope body closed on all four sides of the front panel; card means integrally connected along a transverse edge of said envelope body and in spaced relation to the fold line of the lower flap, and provided with means to facilitate detachment from the envelope body, said integral card means being spaced from said lower fold line sufficiently to enable it to be folded along the attached transverse edge and allow the upper flap to be sealed to the lower flap, without the adhesive or gummed substance engaging the integral means; said integral means having a size and weight of material required for use as a postal card.

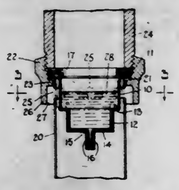
2,328,381
PIPE JOINT
Samuel R. Jaffe, Chicago, Ill.
Application August 28, 1940, Serial No. 354,570
3 Claims. (Cl. 285—161)

1. In an attachment for water faucets, a generally tubular member which is adapted to fit over a faucet, said tubular member being made of a molded plastic, a metal collar disposed on the inner periphery of said tubular member adjacent the upper portion of said tubular member,



and means to fasten said tubular member tightly on the faucet.

2,328,382
FLEXIBLE CHECK VALVE AND VACUUM BREAKER
Jesse D. Langdon, Los Angeles, Calif.
Application October 8, 1941, Serial No. 414,051
8 Claims. (Cl. 277—20)

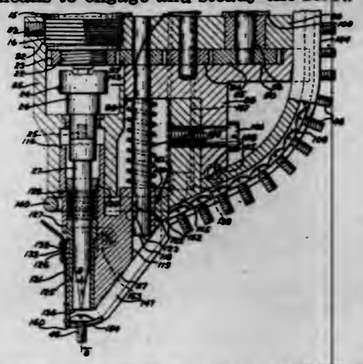


6. A check valve comprising a tubular casing having apertures through the wall thereof, a sleeve member disposed within said tubular casing, said sleeve member being formed of flexible material adapted to be circumferentially bulged into contact with the wall of said tubular casing to close said apertures, said sleeve having the property of resuming normal shape after such deformation, and a check valve member attached to said sleeve member and having a portion exposed to pressure within said tubular casing, the check valve member being of smaller diameter than the sleeve member and normally disposed exteriorly of said sleeve member, said check valve member being arranged to telescope within the sleeve member under fluid pressure exerted against said check valve member whereby said sleeve member is bulged outwardly circumferentially into engagement with the wall of the tubular casing to close said apertures.

2,328,383
ARTICLE HANDLING APPARATUS
George D. Lea, Downers Grove, and John S. Stull, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application July 8, 1941, Serial No. 401,482
5 Claims. (Cl. 144—32)

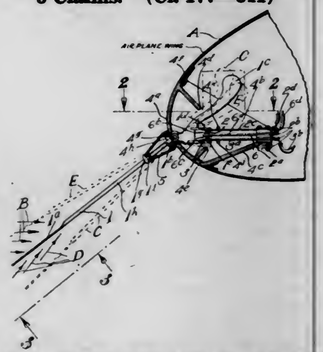
1. In an apparatus for driving screws, a driving blade, means for rotating said blade, means for supporting a screw in spaced coaxial relation with said blade, means slidable longitudinally of said blade for engaging the end of the screw engaged by said blade, resilient means effective to urge said slidable means to its screw engaging position, means for holding said slidable means in a normal retracted position against the action of said resilient means, and means for

releasing said holding means to cause said slidable means to engage and steady the screw upon



said supporting means prior to the driving thereof.

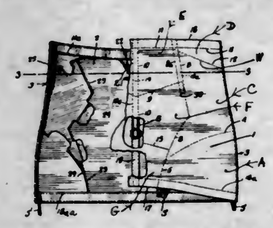
2,328,384
AIRPLANE STALL AND HIGH-SPEED INDICATING APPARATUS
Ralph D. Lacoe, San Diego, Calif.
Application March 3, 1941, Serial No. 381,454
5 Claims. (Cl. 177—311)



1. In an airplane combination stall and high speed indicating apparatus of the class described, the combination with the leading edge of an airplane wing, of a pivotally mounted combined stall and high speed indicating air vane member extending forwardly and downwardly from near the middle portion of said leading edge and provided with a vane portion on its forward end and spaced arm portions near its other end shiftable spaced electrical contacts intermediate said spaced arm portions of said air vane member positioned within the leading edge of said airplane wing and indicating means in electrical connection with said electrical contacts and arranged to be responsive to a downward motion of said air vane from normal position to a predetermined lower position for indicating a high speed condition and responsive to an upward movement of said air vane from normal position for indicating a danger stalling condition.

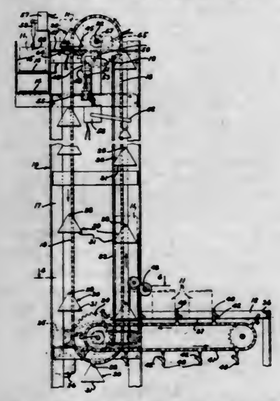
2,328,385
GIRDLE OR THE LIKE
Esther Mahler, Philadelphia, Pa.
Application February 1, 1941, Serial No. 376,946
8 Claims. (Cl. 2—43)

1. A girdle which has a front main panel and a rear main panel, said main panels being made of material which is elastic and resistant to extension in a horizontal direction and whose resistance to vertical extension exceeds its resistance to horizontal extension, said main panels having reinforcing panels which are made of said material sewed thereto at selected reinforced areas of said main panels in order to increase the resistance to horizontal extension of said selected reinforced areas, said main front panel having such a reinforced side-area at each vertical side-edge thereof, said reinforced side-area being located vertically between vertically superposed top and bottom side-areas of said front main panel, said reinforced side-area having



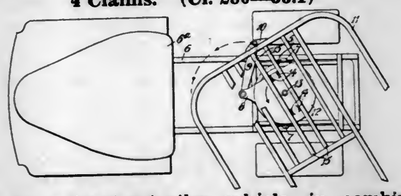
greater resistance to horizontal extension than said top side-area and said bottom side-area, said front main panel having vertically superposed median areas intermediate said side-areas, the median area which is vertically intermediate the top median area and the bottom median area being the abdominal portion of said front main panel, said vertically intermediate median area being thus reinforced and having greater resistance to horizontal extension than the top median area and the bottom median area, said vertically intermediate median area being horizontally alined with said reinforced side-areas.

2,328,386
CONVEYER SYSTEM
Paul S. McCann, La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application July 10, 1940, Serial No. 344,684
17 Claims. (Cl. 198—21)



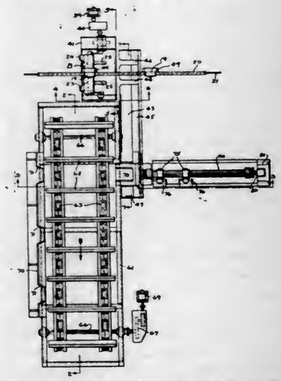
1. In a conveyer system, a main conveyer, a second conveyer for conveying articles toward said main conveyer, a transfer platform for receiving articles from the second conveyer, said platform being movable to discharge said articles onto said main conveyer, and means controlled by articles on the main conveyer for controlling the movement of said transfer platform.

2,328,387
TRAILER VEHICLE
William Henry Meats, Warwick, England, assignor to The Eagle Engineering Company Limited, Warwick, England, a British company
Application October 9, 1941, Serial No. 414,317
In Great Britain September 14, 1940
4 Claims. (Cl. 280—33.1)



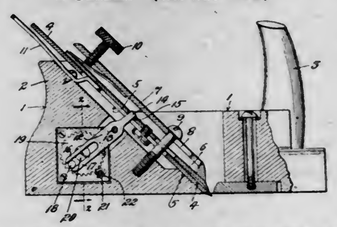
1. In a tractor-trailer vehicle, in combination, a lower member and an upper member supported thereon which are rotatable relative to one another, means for maintaining said relatively rotatable members centered with one another, a third member having associated therewith ways providing linear movement of said third member relative to one of said relatively rotatable members, the weight of the front end of the trailer being supported upon the rear end of the tractor through the engagement of said relatively rotatable members with one another, and also through the linearly movable engagement of said third member, and means actuated by relative rotation of the first and second members for producing relative linear movement of the third member to cause the tractor and trailer to move apart when they swing out of alignment with one another.

2,328,388
HANDLING OF ROD BUNDLES OR THE LIKE
Myles Morgan, Worcester, and John N. Whalen, Boylston, Mass., assignors to Morgan Construction Company, Worcester, Mass., a corporation of Massachusetts
Original application August 4, 1939, Serial No. 288,392. Divided and this application December 27, 1940, Serial No. 371,938
5 Claims. (Cl. 198—24)



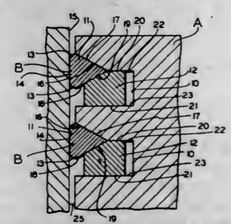
1. Apparatus for handling rod bundles or similar annuli comprising a guideway arranged to receive the bundles and inclined so that gravity will cause the bundles to roll along the same, a reciprocable tray located adjacent the lower end of the guideway and arranged to receive the bundles therefrom, a conveyor adjacent the guideway and arranged to support groups of bundles with the bundles in each group horizontally aligned, and means to reciprocate the tray and transfer the bundles from the guideway to the conveyor and form such groups of bundles thereon.

2,328,389
BLADE ADJUSTMENT FOR WOOD PLANERS
Rudolph Müller, Elizabeth, N. J.
Application May 31, 1941, Serial No. 395,898
1 Claim. (Cl. 145—11)



In a plane, a plane body the rear end of which extends upwardly to form a hand grip said body having a bit slot therein provided with an inclined surface, and an opening in the side of the plane body leading to a compartment beneath the inclined surface and adjacent thereto, a bit mounted in said slot upon said inclined surface and a break iron secured to said bit, there being a slot in said break iron; an axle secured to the inner wall of said compartment, a gear wheel rotatably mounted thereon, a laterally extending pin eccentrically secured to said wheel, a pin fixedly mounted in said body adjacent the bit and extending parallel to said axle, a line one end of which extends into and abuts the end walls of the slot in the break iron, a second link one end of which is pivotally attached to the first named link, its other end rotatably engaging said pin, a plate which closes the opening to said compartment, a rotatable shaft journaled in said plate, a pinion which engages the teeth of said gear carried by said shaft, a knurled disk on the outer end of said shaft whereby the pinion and in turn the gear may be oscillated and the position of the break iron and bit shifted to adjusted position.

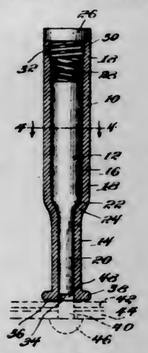
2,328,390
PISTON AND RING ASSEMBLY
Fred C. Nelson, St. Paul, Minn.
Application September 18, 1941, Serial No. 411,349
2 Claims. (Cl. 309—27)



1. A piston having a groove in the peripheral wall thereof, the upper and lower walls of said groove being parallel, the upper wall of said groove being of a lesser length than the lower wall and terminating at its forward end in an upwardly beveled face extending to the periphery of the piston, a spring compensating ring fitted in said groove with its top and bottom faces contacting the top and bottom walls of the latter and of a depth less than the depth of said groove, the top face of said ring being beveled forwardly

and downwardly from a point slightly rearward of the center toward the front face thereof, and a compression ring substantially triangular in cross section having its inclined faces contacting respectively the beveled faces of the groove and said spring compensating ring, the angularity of the beveled faces of said groove, spring compensating ring and compression ring being such as to permit the outer peripheral face of said compression ring to normally project beyond the peripheral wall of said piston, whereby only the compression ring will normally contact the wall of a cylinder and the spring compensating ring will remain wholly within said groove.

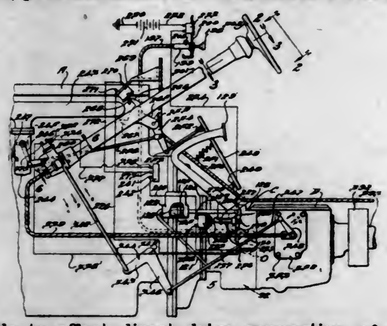
2,328,391
RIVETING TOOL
Raymond E. Nelson, Seattle, Wash.
Application December 22, 1941, Serial No. 424,040
1 Claim. (Cl. 78—53.5)



A riveting tool comprising a tube, a tubular axial neck at one end of said tube of smaller inside diameter than the tube providing a shoulder between the tube and the neck, said neck having a work engaging face circumjacent the opening in the neck to engage the work circumjacent a rivet extended through the work and into the opening, a rivet hammer inside the tube movably guided thereby and having a pin extending into said neck for end engagement with the rivet, said hammer having a shoulder engaging said first-mentioned shoulder to position the end of the pin a predetermined distance from said face, a closure for the other end of the tube, and a compression spring interposed between the hammer and said closure to yieldingly hold the pin in engagement with the rivet, said spring normally holding said second-mentioned shoulder in engagement with said first-mentioned shoulder.

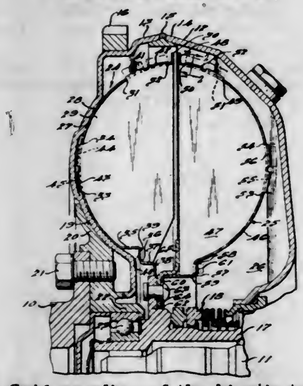
2,328,392
POWER TRANSMISSION
Carl A. Neracher, William T. Dunn, Augustin J. Syrovy, Teno Iavelli, Roy T. Bucy, and Otto W. Schotz, Detroit, Mich., assignors to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application May 13, 1938, Serial No. 207,714
86 Claims. (Cl. 74—290)

1. In a planetary gear transmission for a motor vehicle having an engine, a driving shaft adapted to be driven by the engine, a driven shaft adapted to drive the vehicle, an annulus gear directly driven from the driving shaft, a planet pinion meshing with said annulus gear, an axle mounting said planet pinion, a carrier for said axle directly inwardly from said axle for direct drive connection with the driven shaft, a sun gear meshing with said planet pinion, overrunning control means automatically operating to prevent rotation of said sun gear in the direction of rotational tendency thereof caused by drive of said internal gear to provide a reduction drive from the driving shaft to the driven shaft, pressure fluid controlled clutch means op-



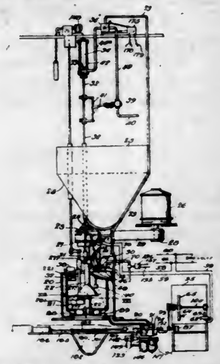
erable to effect direct drive connection of said sun gear with said driven shaft to provide a direct drive from the driving shaft to the driven shaft, and means automatically acting in response to drive of the vehicle at a predetermined speed for controlling delivery of pressure fluid to said clutch means.

2,328,393
FLUID COUPLING
Carl A. Neracher and William T. Dunn, Detroit, Mich., assignors to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application February 13, 1941, Serial No. 378,738
5 Claims. (Cl. 60—54)



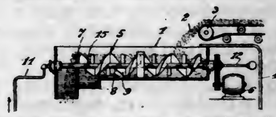
1. A fluid coupling of the kinetic type including juxtaposed impeller and runner structures, at least one of said structures including an annular sheet metal vane carrier having a dished section and a radially inner end portion including a terminal flange disposed radially with respect to the axis of rotation of the coupling, a second flange disposed parallel to said axis and a third flange disposed radially with respect to said axis and having circumferentially spaced slots therein, said carrier having a first series of circumferentially spaced pairs of slots in the radially outer portion thereof and a second series of circumferentially spaced pairs of slots intermediate said first series and said inner end portion, a plurality of circumferentially spaced radially extending fluid passage forming vanes seated in said dished section, each of said vanes having a first pair of tabs respectively extending through a pair of the slots of said first series and oppositely deflected to interlock with said carrier and a second pair of tabs respectively extending through a pair of the slots of said second series and oppositely deflected to interlock with said carrier, each of said vanes having a radial extremity abutting said second flange and having a tab extending parallel to said axis through a slot of said third flange and deflected to interlock therewith.

2,328,394
FULL AUTOMATIC CENTRIFUGAL EXTRACTOR MACHINE
Jacob J. Neuman, South Salem, N. Y.
Application December 14, 1938, Serial No. 245,790
23 Claims. (Cl. 210—72)



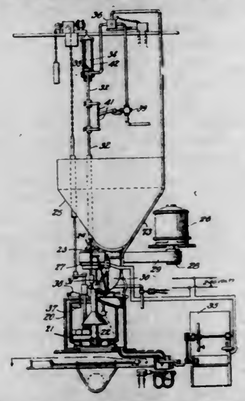
1. In a feeding device, a source of feeding liquid, a receiver for the liquid, a valve for controlling the admission of liquid from said source to said receiver, means for operating said valve, a drip pan movably mounted and biased to lie normally below the valve to prevent drippings from said valve from entering the receiver in one position of its movement and in another position of its movement being removed from below said valve to provide for unobstructed flow from said valve to said receiver, means cooperating with said valve operating means for moving said drip pan out of drip-catching position when said alve is open, means for holding said drip pan out of drip-catching position, operating means for opening and closing said valve, and time delay means operatively associated with said valve operating means and with said holding means for releasing said holding means to allow said pan to return to drip catching position a predetermined length of time after said valve has been closed by said valve operating means.

2,328,395
APPARATUS FOR PROCESSING SUGARS AND THE LIKE
Jacob J. Neuman, South Salem, N. Y.
Application March 24, 1939, Serial No. 263,974
1 Claim. (Cl. 257—80)



In material processing apparatus, in combination, a trough for receiving the material to be processeed, a tubular shaft extending longitudinally through said trough and being rotatably supported at its opposite ends, said shaft having an inlet end adapted to be connected to a source of heating fluid, the opposite end of said tubular shaft forming an outlet for the heating fluid, a hollow helical member substantially V-shaped in cross section mounted on said shaft and forming therewith a closed continuous helical conduit surrounding the periphery of said shaft and presenting in continuous heat transferring surface for the material to be processed in the trough, a plug member in said tubular shaft spaced inwardly from said inlet end, said tubular shaft having radial openings adjacent said plug member for the passage of the heating fluid from the inlet end of said shaft into one end of said helical conduit, said tubular shaft having radial openings in the outlet end thereof for the discharge of the heating fluid from the other end of said helical conduit into the outlet end of said shaft, a ring member secured to the apex of one flight section of said helical member intermediate the ends of said shaft, and a stationary channel member in said trough forming a bearing for said ring member, said ring member permitting unimpeded passage therethrough of the material conveyed by said helical member.

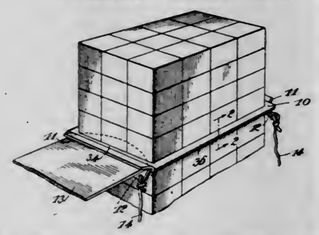
2,328,396
FULL AUTOMATIC CENTRIFUGAL EXTRACTOR MACHINE
Jacob J. Neuman, South Salem, N. Y.
Original application December 14, 1938, Serial No. 245,790. Divided and this application December 17, 1941, Serial No. 423,309
1 Claim. (Cl. 137—139)



In a device for controlling a feeding valve biased to close in an automatic charging device of centrifugal machines, the combination of a cylinder, a piston in the cylinder, an operating connection between the piston and the feeding valve, means for introducing operating fluid into an end of the cylinder to move the piston to entirely open the feeding valve, and means for stopping the flow of operating fluid to the cylinder when the valve reaches a predetermined position, said cylinder having a port near the fluid introducing end to permit gradual escape of fluid whereby the piston returns to a position where it covers said port allowing the feeding valve to close partially, so that a wide opening of the feeding valve is presented initially and the opening is thereafter restricted partially, with means comprising a valve with a small opening there-

through of less area than the port in said cylinder in said means for stopping the flow of operating fluid, whereby to compensate for fluid loss in the cylinder and to hold the piston in the region of said port to maintain the feeding valve in its restricted open position.

2,328,397
THROW-AWAY PALLET
Jacob J. Neuman, South Salem, N. Y.
Original application May 22, 1940, Serial No. 336,682. Divided and this application March 23, 1942, Serial No. 435,823
7 Claims. (Cl. 214—10.5)



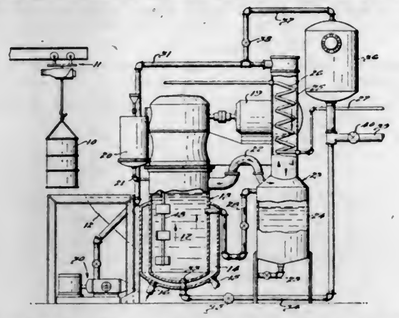
1. An improved pallet comprising upper and lower separable walls, means to flexibly connect said walls to permit the walls to separate when a lifting member is inserted between said walls.

2,328,398
COATING COMPOSITION
Stephen J. Roskosky, Flint, Mich., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 18, 1940, Serial No. 361,721
4 Claims. (Cl. 174—125)

1. A wire enamel comprising at least 25 per cent of a polyamide based on the non-volatile constituents of the enamel, said polyamide being the reaction product of a polymer-forming composition comprising reacting materials selected from at least one of the class consisting of polymerizable monoaminomonocarboxylic acids, and mixtures of diamine and dibasic carboxylic acids, the remainder being a mixture of an alkyd resin and a phenol-aldehyde resin, each of the latter two ingredients being present in substantial amount.

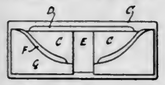
2,328,399
COATING MATERIAL RECOVERY MEDIUM AND PROCESS
Seymour G. Saunders, Bloomfield Hills, and Harry Morrison, Detroit, Mich., assignors to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application September 10, 1941, Serial No. 410,268
1 Claim. (Cl. 106—287)

The method of reconditioning recovered solids of excess sprayed coating material and separating therefrom residual water introduced during its collections which consists in dissolving in a mixing chamber said water contaminated solids in a liquid solvent having a lower boiling point than water and of the same kind as that normally used in the application of the coating material, distilling said water together with a portion of the solvent in said mixing chamber from said solution under heat and vacuum at a temperature below the boiling point of water, condensing the resulting distillate, separating the water and solvent of said condensate, returning said condensed solvent to said solution of coating material solids while the latter is undergoing water extraction in a continuous process for repetition of said vacuum distillation water removal, and periodically removing from said mixing chamber portions of the resulting solu-



tion of water-free coating material in said normally usable solvent and replenishing said chamber with water contaminated solids without interrupting said vacuum distillation water removal operation.

2,328,400
BILLFOLD OR POCKET CASE
Leopold G. Stanley, Maplewood, N. J.
Application February 5, 1941, Serial No. 377,425
8 Claims. (Cl. 150—36)

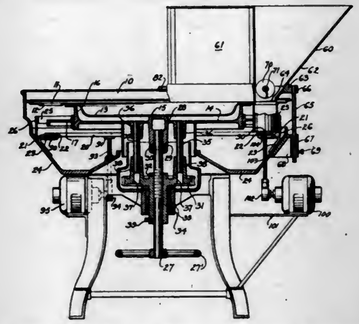


1. A billfold of leather or like material of the kind having an elongated oblong shape when opened flat but being foldable about a hinge to close it and being built up of component layers or walls, including a full-size oblong outer or first layer substantially longer and wider than the money or bills to be accommodated, a second oblong layer positioned upon but narrower than the first layer and forming therewith a secret pocket openable at the long upper edge of the billfold, a third layer comprising an upper marginal band and a symmetrical pair of flaps separated from the band by a longitudinal slit and from each other by a middle gap, said band having its upper edge attached along the upper edge of the first layer and being of width to extend downwardly over the free upper edge of the second layer to conceal the same and protect the secret pocket, an interposed layer arranged beneath the opposite flaps of said third layer and upon which said two flaps are attached to form symmetrical inside pockets, and said flaps and attached interposed layer together forming with said second layer a main bill pocket open at the long upper edge of the billfold.

2,328,401
FILLING MACHINE
Roy B. Stover, Toledo, Ohio, and Clarence A. Hoy, Hoopeston, Ill.; said Hoy assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware, and said Stover assignor to Owens-Illinois Glass Company, a corporation of Ohio
Application July 27, 1940, Serial No. 347,914
10 Claims. (Cl. 226—72)

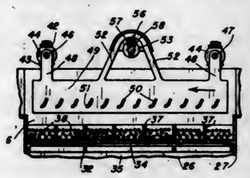
1. In a machine for filling containers, such as

cans and jars, with cut food commodities, a rotary table having filling openings around its periphery, a circular track under said table having spaced-apart concentric rails, means engaging the side walls of the containers to center the containers under said filling openings and to advance the containers along said track, said engaging means permitting vertical movement of the containers, a hopper for containing a supply of the material having an outlet disposed



above said table, an arcuate strip disposed between said rails, straps secured to the under side of said rails to support said strip, one of said straps having an aperture therein, a rod having its upper end projecting into said aperture, and means to move said rod vertically to cause the upper end thereof to strike the under side of said strip intermittent blows.

2,328,402
MINERAL JIG
Leslie E. Tuthill, Seattle, Wash., assignor to L. E. Tuthill, Inc., Seattle, Wash.
Application December 18, 1940, Serial No. 370,571
4 Claims. (Cl. 209—455)



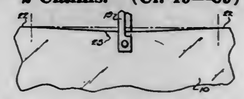
1. In a mineral jig wherein a pulsating current is employed in a jig hutch to periodically increase and decrease the permeability of a jig bed under a flow of feed material, reciprocal means for imparting an intermittent current to the fluid in said jig hutch, means for intermittently introducing fluid to said jig with force, said introduction of fluid being timed to occur during the retracting stroke of said reciprocal current imparting means, a rotatable shaft having means thereon for reciprocating said reciprocal means, a plurality of vibrator mounts on said hutch adjacent said jig bed, each vibrator mount supporting an upper and a lower segmental seat, a resilient vibrator ball positioned in the seats of each vibrator mount, an open bottom riffle box positioned over the jig bed and having a plurality of trunnions, each trunnion associated with a vibrator ball, an unbalanced shaft associated with said riffle-box to agitate the same, means associating said unbalanced shaft with said rotatable shaft for rotation therewith, and means for rotating said rotatable shaft.

2,328,403
METHOD OF PHOTOGRAPHY AND MEANS THEREFOR
Robert B. Wheelan, Great Neck, N. Y., and Alexander Balaban, Hollywood, Calif.
Application October 5, 1940, Serial No. 359,866
11 Claims. (Cl. 95—5)



1. A process of making photoprints from negatives which photoprints are relatively free from deleterious blemishes in selected areas comprising, exposing the negative in the camera with the sensitized surface of the negative away from the lens, developing the negative, forming a diffusion mask directly on the surface of the negative opposite to the sensitized surface, exposing a sensitized photoprint member by passing light through the negative and mask to the sensitized surface of said member in such a direction that the light passes through the diffusion mask after it passes through the image bearing surface, and then developing the photoprint.

2,328,404
GLASS TEMPERING
Gerald White, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio
Application April 28, 1941, Serial No. 390,700
2 Claims. (Cl. 49—89)

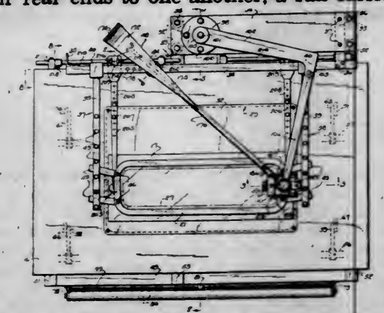


1. In the tempering of glass sheets, wherein the sheet is suspended in a vertical position from a plurality of tongs or the like engaging the same near its upper edge and first heated and then suddenly cooled, the method of preventing the formation of protuberances in the upper edge of the sheet at those points which are engaged by said tongs comprising forming depressions of predetermined depth in the upper edge of the sheet directly above the points of attachment of the tongs with said sheet, heating the sheet to approximately the point of softening of the glass to cause a vertical stretching of said sheet at the said points of support to bring the depressed portions into substantial alignment with the upper edge of said sheet, and then cooling the said sheet.

2,328,405
CUTTING MACHINE
Carl B. Williams, Jr., and Melvin C. Koester, Toledo, Ohio, assignors to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio
Application July 17, 1941, Serial No. 402,860
15 Claims. (Cl. 33—27)

1. In a machine for cutting sheet glass and the like, a table for supporting the sheet to be cut, templates mounted horizontally above and beneath said table in vertical alignment with one another, a cutting unit mounted to travel along each template and including a cutting tool for scoring the respective surface of the sheet, means tying said cutting units together so that they move in unison along said templates comprising upper and lower horizontal members arranged

transversely above and beneath said table, said upper and lower horizontal members being connected at their forward ends to the upper and lower cutting units respectively and secured at their rear ends to one another, a rail carried by



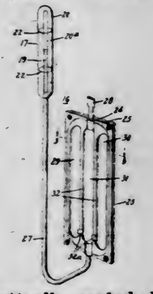
the upper horizontal member, and supporting means for said horizontal members freely rotatable about a vertical axis and including a roller freely rotatable about a horizontal axis and along which said rail is movable.

2,328,406

PRESSURE RELIEF EXPANSIBLE RESERVOIR FOR CONDITION RESPONSIVE INDICATING DEVICES

Leonard W. Atchison, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application September 12, 1941, Serial No. 410,538
10 Claims. (Cl. 73—369)



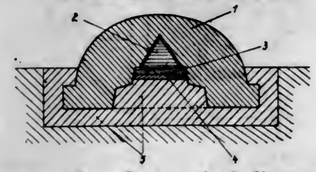
1. In a hermetically sealed device adapted to be subjected normally to temperature, pressure or the like in a predetermined operating range, and having separated vertically spaced apart portions, each including a fluid chamber and means interconnecting said chambers for conducting a fluid therebetween, said device being charged with a condition responsive fluid, the lower of said portions being adapted to be subjected to the temperature, pressure or the like condition being measured, the upper portion having means for indicating the limits of said normal operating range, the top of the lower chamber being disposed no higher than the lower limit of said normal operating range of the fluid in the upper chamber, said device being charged with sufficient fluid to fill the lower chamber and said interconnecting means and to extend into the upper chamber sufficiently to provide an indication within said normal operating range when said device is subjected to conditions within said range, said lower portion being expansible and having a pair of sheet metal walls formed of relatively resilient metal, said walls being arranged in fluid-tight relationship along the marginal edges thereof and being provided with opposed spaced apart indentations to form a plurality of chambers including said lower chamber, the portions of the walls between the indentations lying closely adjacent in the normal or unstressed condition of said lower portion, said walls being constructed and arranged to be normally immovable but being capable of flexing apart to increase the volume of the lower portion when subjected to excessive pressures and thereby relieve the device of further undue increased pressure.

2,328,407

GROUND REFLECTOR

Arthur Becker, Berlin-Niederschoneweide, Germany; vested in the Alien Property Custodian

Application June 14, 1939, Serial No. 279,227
In Germany August 10, 1938
2 Claims. (Cl. 88—79)



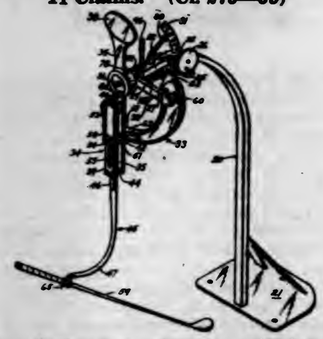
1. A ground reflector including a calotte formed with a light-admission recess opening through one wall thereof, a reflector arranged at the bottom of the recess in the horizontal plane of the calotte, and a triangular prism having one face resting upon the reflector and another face bridging the light entrance to the recess in the calotte, said recess extending through the bottom of the calotte and supporting material inserted in the recess in contact with the reflector whereby to support the reflector, the edge of the entrance opening in the recess in the side of the calotte overlying and bearing upon the inserted prism to maintain the prism in position.

2,328,408

GOLF STROKE TEACHING MACHINE

William E. Bell and Floyd Farley, Oklahoma City, Okla.

Application September 2, 1941, Serial No. 409,168
11 Claims. (Cl. 273—35)



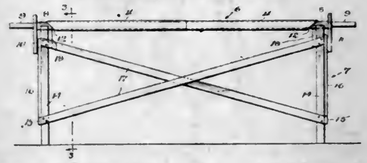
1. In a device for guiding a golf club through a predetermined path during its swing by a player, a guide track; a club guiding mechanism one end of which is rotatably mounted to move in a plane parallel to and immediately adjacent the plane in which said guide track lies, and another part of which is movable radially with relation to the rotational axis of the first mentioned end; and a roller rotatably mounted on the radially movable portion of said club guiding mechanism and adapted to roll on said guide track as the entire mechanism rotates about its axis, the contour of the guide track being adapted to predetermine the path in which the free end of said club guiding mechanism travels during at least a portion of the rotational movement of said mechanism.

2,328,409

STRETCHER

Charles B. Belt and David H. Hallock, Southampton, N. Y.

Application April 3, 1942, Serial No. 437,514
2 Claims. (Cl. 5—82)



1. The combination of a stretcher, and a separate understructure for removably supporting said stretcher, said stretcher consisting of bearer poles, a fabric webbing engaged with said poles and extending between them, head and foot boards disposed at the opposite ends respectively of the stretcher, and each board having the adjacent ends of the poles tightly projecting through holes therein respectively, said understructure including notched supports on the ends respectively, and the ends of the poles being received in notches respectively in the supports, and said boards being disposed contiguous said supports respectively.

2,328,410

CERAMIC INSULATING MATERIAL AND PROCESS FOR PRODUCING THE SAME

Godshalk Berge, Chicago, Ill., assignor to Johnson Laboratories, Inc., Chicago, Ill., a corporation of Illinois

No Drawing. Application October 15, 1937, Serial No. 169,231
26 Claims. (Cl. 106—39)

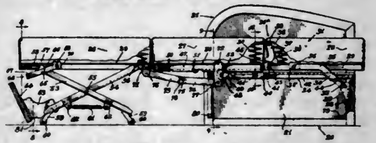
1. The process of producing ceramic insulating material, including mixing powdered magnesium-beryllium titanate, titanium dioxide and beryl in substantially the proportions of respectively 30 to 35 per cent, 65 to 60 per cent and 5 per cent, finely grinding the mixture, molding the mixture under pressure with an intermixed binder, and firing the molded mixture.

2,328,411

CONVERTIBLE COUCH STRUCTURE

Victor John Bergstrom, Chicago, Ill., assignor to Superior Felt & Bedding Co., Chicago, Ill., a corporation of Delaware

Application August 2, 1940, Serial No. 349,935
5 Claims. (Cl. 5—48)



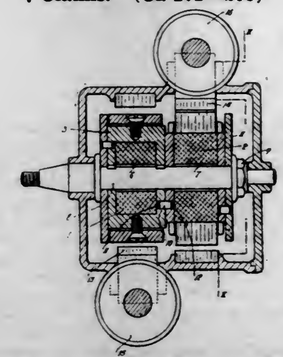
1. In a convertible couch structure, the combination having an upright frame, a back section, means supporting said back section on said frame for movement between an upright position and a horizontal position, a seat section, means supporting said seat section on said frame for horizontal movement from an advanced bed-forming position to a retracted chair-forming position conjointly with movement of said back section from horizontal to upright positions, means releasably holding said sections in their chair-forming and bed-forming positions and in an intermediate chaise longue-forming position, a third section, vertical adjustable supporting means carrying said third section in lowered condition for movement between a position within said upright frame below said seat section and a position outside said frame and in front of said seat section, said supporting means being operative to raise said third section in the forward position thereof to the height of said seat section and in horizontal alinement therewith, and means interconnecting said seat and third sections for guiding said third section with respect to said seat section during movement of said third section as aforesaid, the interconnecting means providing for conjoint movement of said third and seat sectons to effect converting movements of said seat and back sections as an incident to horizontal movement imparted manually to said third section.

2,328,412

MULTIPLE FIELD MAGNET IGNITION MAGNETO

Jean Bernard, Paris, France; vested in the Alien Property Custodian

Application June 29, 1940, Serial No. 343,284
In France July 4, 1939
7 Claims. (Cl. 171—209)



2. In an ignition magneto for internal combustion engine, a rotating shaft, at least two inductors supported by said shaft, and spaced both along said shaft and angularly around said shaft, a magnet included in each inductor, at least one armature associated with each inductor whereby forming at least two ignition current generators, said generators producing spark trains separated angularly and timely.

2,328,413

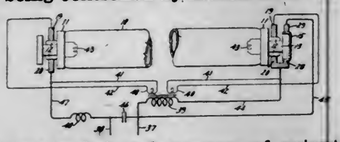
OPERATING MEANS FOR FLUORESCENT LAMPS

John Bertram, Rugby, England, assignor to General Electric Company, a corporation of New York

Application May 7, 1941, Serial No. 392,386
In Great Britain May 21, 1940
10 Claims. (Cl. 315—98)

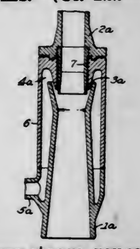
4. In combination with a double-ended dis-

charge lamp having a cathode at each end connected to spaced contact prongs, a socket at each end of the lamp, each socket being provided with a recess in a face extending to an edge thereof and spaced contact members in said recess, switch mechanism separate from said contact members carried by one of said sockets, said switch mechanism being controlled by movement of the lamp



in said one socket and a source of potential including a resonant circuit connected to said contact members for energizing said cathodes, said resonant circuit including said switch mechanism, said resonant circuit being broken by opening of said switch mechanism upon movement of the lamp in said one socket.

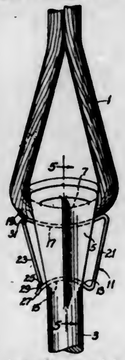
2,328,414
HIGH-PRESSURE STEAM GENERATOR
Wilhelm Beyer, Berlin-Frohnau, Germany; vested in the Alien Property Custodian
Application September 28, 1938, Serial No. 232,062
In Germany September 30, 1937
3 Claims. (Cl. 122—31)



1. A high pressure steam generator comprising a boiler drum having a steam and a water space, a steam supply main in said boiler drum, an injector for blowing superheated steam into the said water space, means connecting the said steam main and the injector, the latter including an injector steam inlet section and a lower steam conducting section, said sections meeting in the plane of their smallest diameter and expanding from said plane in an upward and in a downward direction, means to position the said steam inlet section above the boiler water level and the lower section extending into the boiler water, a tubular insert connected to the steam main and extending into the said upper steam inlet section, a casing carried by the said steam main surrounding said injector and connected with a source of water supply, the lower edge of the casing being situated at a higher level than the lower edge of the injector tube and an annular slot between said insert and said upper steam inlet section for the supply of water from said casing to the inner surface of the said injector tube.

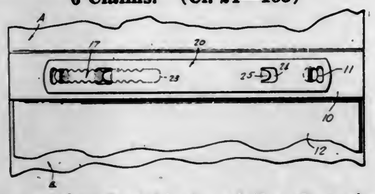
2,328,415
ELECTRICAL CONTACT CLIP
Theodore Birkenmaier, St. Louis, Mo., assignor to W. N. Matthews Corporation, St. Louis, Mo., a corporation of Missouri
Application February 18, 1942, Serial No. 431,362
4 Claims. (Cl. 24—123)

1. A grounding clip for eyes containing guy wires or the like, comprising a relatively flat strip of spring metal having a generally quadrilateral endwise shape, said shape consisting in oppositely located and directed concave portions, said concave portions being joined on one side of the quadrilateral by a relatively straight portion of the strip which is held at both ends to said concave portions, a fourth relatively straight side of the quadrilateral shape being joined to one of said concave portions and having its other end normally free, the adjacent end of the other saddle-shaped portion being also normally free, and



latch means for joining said free ends after the clip is in position within an eye, said latch means comprising a struck-up wedge-shaped lug on said other saddle-shaped portion cooperating with the end of said relatively straight fourth side, the length of said fourth side being such that, when cooperating with said lug, both of said straight portions are placed in compression whereby the concave portions are biased apart and make engagement in a wire-containing eye.

2,328,416
LOOSE-LEAF BINDER
John W. F. Blizard, Rydal, and Charles G. Peters, Philadelphia, Pa., assignors to National Fiberstok Envelope Co., Philadelphia, Pa., a corporation of Pennsylvania
Application July 28, 1942, Serial No. 452,586
6 Claims. (Cl. 24—153)

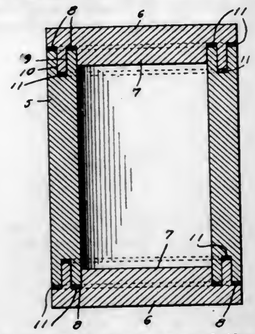


1. In a loose-leaf binder of the character described, the combination of a flexible fiber binder strip and an anchoring strip, said anchoring strip having a slot formed with an enlargement while said binder strip is formed with notches adapted to receive the side edges of said slot, said binder strip passing through said enlargement while said notches receive the side edges of said slot.

2,328,417
INGOT MOLD
Vincent A. Brennan, Lynn, Mass.
Application September 28, 1942, Serial No. 459,984
4 Claims. (Cl. 22—67)

2. In an ingot mold, a mold body, a removable closure for each end thereof, each closure having a block projection entering the mold body

with the outer edge thereof in intimate contact with the inner face of the mold body, the end closures overlying the ends of the mold body outwardly of the block projections and a tongue and groove connection between the overlying



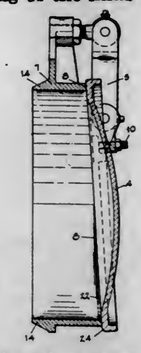
portions of the end closures and the ends of the body portion, including a tongue projecting from the overlying portions of the end closures midway the side edges thereof and a groove in the end portions of the mold body.

2,328,418
PROCESS FOR COLOR CINEMATOGRAPHY
Percy D. Brewster, Holmdel, N. J.
No Drawing. Application October 17, 1940, Serial No. 361,619
5 Claims. (Cl. 95—5)

1. A process for determining the development of motion picture negative film, comprising exposing a test strip of film in the camera under conditions identically the same as the scene for which the development is being determined, immersing succeeding portions of the test strip in developer for varying times to produce a series of steps on the film of varying densities, printing a positive film from this developed test film in a printer for a predetermined standard positive printing time, developing this positive film to a pre-determined standard positive gamma, selecting a step in the positive test film by inspection and developing the negative of the actual scene in accordance with the development of the negative from which was made the selected step on the positive test film.

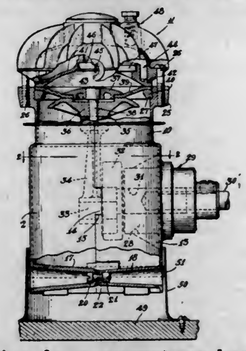
2,328,419
FLAP GATE
Chalmers S. Brown, Lima, Ohio, assignor to Brown and Brown, Incorporated, Lima, Ohio, a corporation of Ohio
Application July 1, 1941, Serial No. 400,678
3 Claims. (Cl. 251—123)

1. In a flap-gate for a discharge pipe; a movable circular gate member having a valve face; a circular gate supporting frame for connection to the end of the discharge pipe and having a valve seat coacting with the valve face for closing the said valve seat; a pair of links having one pair of ends connected to the frame at a point well above the top of the gate member and the other pair of ends pivotally connected to the edge of the gate member well below the top of the gate member for pivotally and swingingly supporting the gate member to permit free inward and outward movement of the lower edge of the gate member with respect to the valve seat; the lower semi-circular inner edge of the valve seat and the lower semi-circular outer edge of the valve face formed convexedly curved to produce relatively free sliding movement of one edge on the other upon raising of the movable gate member by outward swinging of the links caused by the loca-



tion of the center of pressure of the liquid of the interior surface of the gate member above that of the center of pressure of the liquid on the exterior surface of the gate member.

2,328,420
COMPRESSOR
William R. Brown, Chicago, and Nigel J. Collings, Elmhurst, Ill., assignors to W. R. Brown Corporation, Chicago, Ill., a corporation of Illinois
Application July 29, 1940, Serial No. 348,263
4 Claims. (Cl. 230—234)

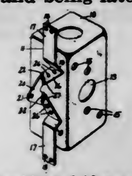


1. A casing for a compressor having, in combination, semi-cylindrical, die-cast casing sections, means for securing said sections together including a member on each section extending radially toward the axis thereof, said members being arranged for end-to-end registration, and means for connecting said members together.

2,328,421
BOX SUPPORTING DEVICE
George Carlson, Trumbull, and Edward B. Clark, Milford, Conn., assignors to General Electric Company, a corporation of New York
Application August 26, 1941, Serial No. 408,310
3 Claims. (Cl. 248—300)

2. Means for supporting an electric wiring fixture having a box with a side wall, said means comprising a bracket made from a single strip of metal by a punching and forming operation and comprising a V-shaped strip portion with the tip portion of the V substantially perpendicular to the legs of the V and the legs of the V adapted to be secured to the side wall of the

box, and two arms each forming a continuation of a leg of the V and being laterally offset there-



from, the tip of the V and the arms being adapted to be secured to a building structure.

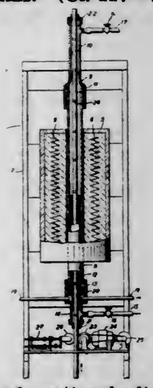
2,328,422

METHOD FOR COATING BODIES WITH CARBON

Carl J. Christensen, Flushing, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Original application February 8, 1940, Serial No. 317,834. Divided and this application October 9, 1940, Serial No. 360,419

5 Claims. (Cl. 117—46)



1. The method of coating bodies with a layer of hard carbon by deposition from a hydrocarbon gas which consists in conveying said bodies into a furnace, causing unheated flow of the hydrocarbon gas uniformly over the entire outer surfaces of said bodies as they enter said furnace, maintaining the temperature of the oven such as to cause thermal decomposition of the hydrocarbon gas and removing the carbon-coated bodies from the hot zone and out of the furnace while maintaining the bodies at a distinctly higher temperature than the contiguous gas so that an appreciable temperature gradient exists in the gas between the entire outer surfaces of said body and the furnace wall.

2,328,423

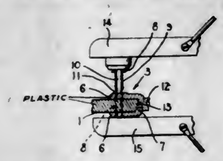
OPHTHALMIC MOUNTING

Roland T. Cook, Irvington, N. J., and Wilfrid A. Bonin, Southbridge, Mass., assignors to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts

Original application June 29, 1938, Serial No. 216,526. Divided and this application July 5, 1940, Serial No. 344,034

3 Claims. (Cl. 88—47)

1. The method of forming an ophthalmic mounting comprising forming a lens of plastic resinous material having opposed optical surfaces and the contour desired, forming lens holding means with a portion shaped to overlie the edge of the lens and with a portion of plastic resinous material shaped to overlie a side surface of a lens, said portion overlying the side surface of the lens and said lens being normally imperforate, softening said portion overlying the side surface of the lens and said lens in the locality in which they are to be connected and forcing an anchor member through said softened portion



overlying the side surface of the lens and into the body of the lens and permitting said lens and the portion of the lens holding means overlying the side surface of the lens to cool and harden adjacent the anchor member to secure the parts together.

2,328,424

UREA-TRIAZINE RESIN

Gaetano F. D'Alelio, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

No Drawing. Application December 23, 1940, Serial No. 371,393

17 Claims. (Cl. 260—42)

1. A composition of matter comprising the product of reaction of (1) a chlorinated acetamide and (2) a partial condensation product of ingredients comprising essentially (*a*) an amidogentriazine wherein the number of hydrogen atoms attached directly to amidogen nitrogen is at least two and (*b*) a preformed compound consisting of a urea containing at least two methylol groups attached directly to the nitrogen of the urea.

2,328,425

UREA-TRIAZINE RESIN

Gaetano F. D'Alelio, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

No Drawing. Application December 23, 1940, Serial No. 371,394

17 Claims. (Cl. 260—42)

1. A composition of matter comprising the product of reaction of (1) a chlorinated acetamide and (2) a partial condensation product of ingredients comprising essentially (*a*) a preformed methylol amidogentriazine in which the methylol group is attached directly to the nitrogen of the amidogen group and (*b*) a preformed compound consisting of a urea containing at least two methylol groups attached directly to the nitrogen of the urea.

2,328,426

DRILLING FLUID

Friedrich Konrad Daniel, Kew Gardens, N. Y., assignor to Hornkem Corporation, New York, N. Y., a corporation of New York

No Drawing. Application August 26, 1938, Serial No. 226,888

6 Claims. (Cl. 252—8.5)

1. A method of treating a colloidal drilling fluid which comprises adding thereto a composition of pH between 8.0 and 9.5 and substantially consisting of tetrasodium pyrophosphate ($Na_4P_2O_7$), an acid pyrophosphate ($Na_2H_2P_2O_7$), borax and boric acid.

2,328,427

FRUIT AND VEGETABLE BASKET AND COVER

Robert W. Davis and Elof R. Leonard, Bethesda, Md.

Application April 1, 1942, Serial No. 437,248

9 Claims. (Cl. 217—124)



1. In combination with a basket, a cover for said basket, means for supporting said basket cover spaced upwardly from the upper end of the basket, means for securing said cover to the basket, said basket being formed from staves, spaced staves extending above the upper end of the basket, said means for supporting the cover spaced from the upper end of the basket comprising spacer members carried by the inner sides of the staves and of less height than the portions of the staves above the upper end of the basket, said staves overlying the periphery of the cover.

2,328,428

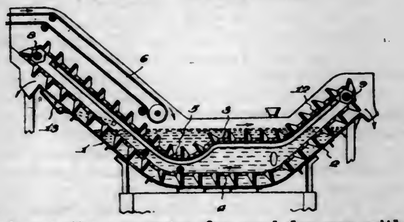
GRAVITY SEPARATOR FOR COAL

Jacob de Koning, Treebeek, Limburg, Netherlands; vested in the Alien Property Custodian

Application October 4, 1941, Serial No. 413,700

In the Netherlands March 1, 1939

2 Claims. (Cl. 209—173)



1. A gravity separator for coal for use with a liquid suspension maintained substantially constant by agitation, comprising a trough with oppositely sloping end walls, a liquid suspension in said trough of a specific gravity intermediate the specific gravities of the materials to be separated, an endless chain scraper, the lower run of said scraper extending along and closely adjacent to the bottom and end walls of said trough for the removal of the heavy material, the upper run of said scraper extending substantially near the level of the liquid suspension, the two runs being spaced from each other not more than five times the height of the chain scraper, means for supplying the mixture to be separated at the side of the trough opposite from the point of discharge of the floating material and a depression formed in the upper run of said chain below said supplying means approximately as deep as the height of the scrapers for preventing the supplied mixture from being crushed by said chain scraper.

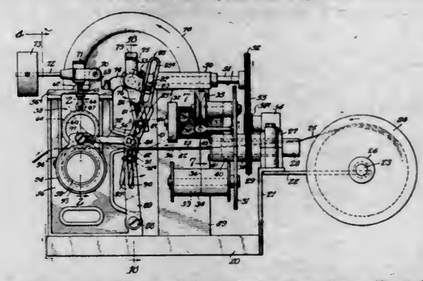
2,328,429

MACHINE FOR FORMING WIRE REINFORCED TAPE

Herbert Dent, Chicago, Ill.

Application November 10, 1941, Serial No. 418,524

6 Claims. (Cl. 57—3)



1. In a machine of the character described including a forming member on which a cloth tape rests, a plurality of rollers intermittently operated for intermittently advancing said tape, a member carrying a flexible wire, said member rotatable about said forming member and tape and adapted to continuously loop said wire about said tape as said tape is intermittently advanced, said rollers additionally compressing said wire about said tape to cause said wire to be imbedded in the edges of the cloth tape.

2,328,430

PRODUCTION OF VINYL CHLORIDE

Ralph W. Dornte, Alplaus, N. Y., assignor to General Electric Company, a corporation of New York

No Drawing. Application February 16, 1942, Serial No. 431,132

3 Claims. (Cl. 260—656)

1. The process of producing vinyl chloride from generator gas produced by subjecting a hydrocarbon oil to the action of electric arcs, which comprises scrubbing said generator gas, drying the gas, conducting the gas over an activated carbon to remove condensible catalytic poisons, mixing the purified gas with anhydrous hydrogen chloride, passing this gas mixture over heated metallic mercury and finally over a catalyst comprising an activated carbon saturated with mercury and containing mercurous and mercuric chlorides formed in situ on the surface of the activated carbon.

2,328,431

PROCESS FOR RENDERING TEXTILE MATERIALS WATER REPELLENT

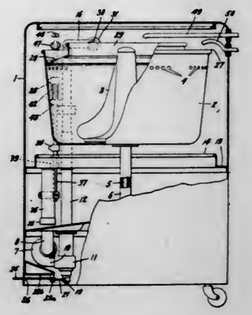
Arnold Doser, Cologne, and Otto Bayer and Karl Hintzman, Leverkusen I. G.-Werk, Germany, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application May 16, 1939, Serial No. 274,025. In Germany May 17, 1938

3 Claims. (Cl. 117—167)

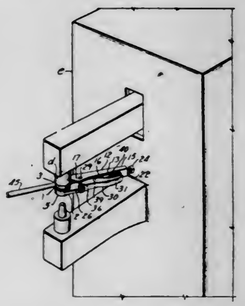
1. Process for rendering textile material water repellent which comprises impregnating the material with an emulsion containing paraffin, wax, a small quantity of a fatty acid, zirconium oxychloride and a condensation product of oleyl alcohol and of several molecular quantities of ethylene oxide serving as emulsifying agent, thereupon rinsing the material with hot water, whereby the hydrophilic substances are removed therefrom as far possible, and finally drying the material at elevated temperature.

2,328,432
WASHING MACHINE
George W. Dunham, Westport, Conn., assignor to General Electric Company, a corporation of New York
Application September 19, 1940, Serial No. 357,425
9 Claims. (Cl. 68—23)



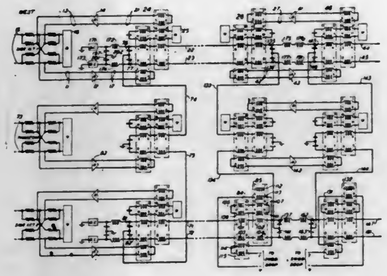
1. In a washing machine, a casing, a clothes receptacle in the casing, a conduit leading to a drain having an open end presented to the interior of the casing, a pump having its inlet connected to the casing and having a discharge nozzle, and means mounting the nozzle for movement through a series of positions during which the nozzle at all times discharges within the casing, the nozzle in one of said positions discharging into the receptacle and in another of said positions discharging into the open end of the drain conduit.

2,328,433
TOOL FOR REMOVING ELECTRODE TIPS
Rex H. Dyer, Kansas City, Mo., assignor of one-half to Harry Allshouse
Application March 15, 1941, Serial No. 383,581
6 Claims. (Cl. 29—86.1)



1. A tool for removing the tip from the holder of a welding machine including, jaws having gripping faces arranged to circumferentially engage the tip, a lever arm extending from one of the jaws and laterally with respect to the axis of the tip when gripped by said jaws, an arm extending from the other jaw alongside the lever arm, connecting means hinging said arms on an axis parallel with respect to the axis of said tip, jack means fixed to one of the jaws substantially coaxial with the gripping face of said jaw and in a position to engage the holder when the tool is moved axially over the end of said tip, and means for actuating the jack means for exerting an axial pressure bettwen the jaws and the holder to effect withdrawal of the tip from the holder.

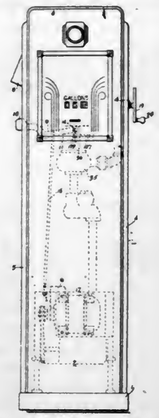
2,328,434
SPEECH TRANSMISSION SYSTEM
Paul G. Edwards, Verona, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application February 28, 1942, Serial No. 432,811
6 Claims. (Cl. 179—15)



1. In a speech transmission system, a first side circuit including a terminal section and an intermediate repeater section, a first two-wire line connecting said sections, a second side circuit including a terminal section and an intermediate non-repeatered section, a second two-wire line connecting said two last-mentioned sections, a two-way repeater for voice frequency currents at said intermediate repeater section, a repeating coil hybrid connecting said first two-wire line to two sides of said repeater in mutually conjugate relationship, means for deriving a phantom circuit from said two side circuits, an intermediate phantom repeater section, means at said intermediate sections of said two side circuits for picking off phantom currents for application to said intermediate phantom repeater section; and a pair of repeating coils connecting said second two-wire line to equipment of said intermediate non-repeatered section; the arrangement and interconnection of said pair of repeating coils being such as to prevent any appreciable unbalance of the intermediate phantom repeater section due to the unsymmetrical relationship of the repeatered and non-repeatered intermediate sections of the two side circuits.

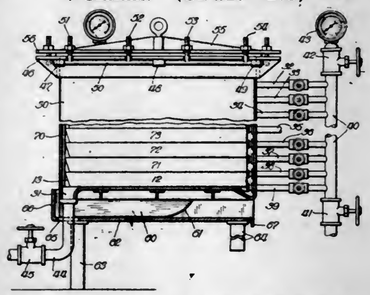
2,328,435
TICKET ISSUING FUEL DISPENSING APPARATUS
Earl E. Eickmeyer and Anthony G. Horvath, Dayton, Ohio, assignors to The Dayton Pump & Manufacturing Company, Dayton, Ohio, a corporation of Ohio
Application February 16, 1938, Serial No. 190,772
7 Claims. (Cl. 221—95)

1. In a motor driven fluid dispensing pump having a drive motor, fluid delivery indicator means, and a hose supporting hook movable for starting and stopping said motor; printing type means synchronously driven by said indicator means, means to support and feed a printable member adjacent said printing type means, means including a platen member reciprocable for cooperation with said printing type means to print indicator readings on said printable member, and means for causing reciprocation of said platen member including a reciprocable cam bar



operatively connected to said hose supporting hook and operated through movement thereof.

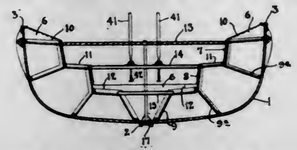
2,328,436
FILTER APPARATUS
Henry Eickemeyer, Chicago, Ill., assignor to George Auer, Chicago, Ill.
Application December 28, 1939, Serial No. 311,290
7 Claims. (Cl. 210—178)



1. A filter comprising a normally upright tank, normally substantially horizontally extending vertically superposed filter beds disposed in said tank, means for admitting liquid to be filtered into said tank and thence to said filter beds, outlet means for normally removing filtered liquid from said filter beds while they are in their normal substantially horizontal position throughout the normal filtering procedure and mounting means for said tank including a base and rocking bars interposed between said base and the tank bottom for tipping said tank to dispose the filter beds therein at an angle so as to drain residual liquid through said outlet means from said filter beds which liquid would otherwise tend to remain therein at the conclusion of the normal filtering procedure.

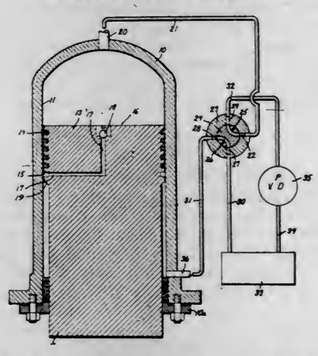
2,328,437
LIFEBOAT
William E. Elling, Long Island City, N. Y.
Application April 10, 1940, Serial No. 328,801
5 Claims. (Cl. 9—3)

5. In a lifeboat a sheet metal outer hull having curved ends, two identical sheet metal inner hull sections symmetrically positioned on the opposite sides of the inside of said outer hull, each of said sections comprising a plurality of flat straight sheet metal risers and flat straight sheet metal seat plates extending longitudinally of the said outer hull parallel to the keel and terminating where they meet the curved ends of said outer hull, the adjacent edges of said risers and seat plates being connected together to form a series of ascending steps from a line adjacent to but spaced from a keel at which the lowest edge of the lowest riser is attached to the outer hull to a point adjacent the gunwale at which the back edge of the uppermost seat plate is attached to



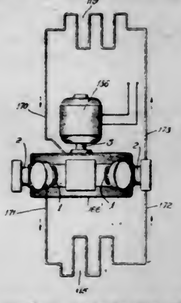
the outer hull, all of said points of junction of said plates to each other and to the outer hull being airtight, the air-tank thus formed by said risers, seat plates and outer hull being divided into a plurality of air-tanks by spaced, flat, sheet metal, transverse bulk heads extending from said risers and said seat plates to said outer hull and hermetically attached thereto, each of said risers and seat plates being intersectible by an imaginary line drawn from keel to gunwale at right-angles to the length of the boat.

2,328,438
PRESS RAM
Walter Ernst, Mount Gilead, Ohio, assignor to The Hydraulic Development Corp. Inc., Wilmington, Del., a corporation of Delaware
Application May 14, 1940, Serial No. 335,091
8 Claims. (Cl. 121—38)



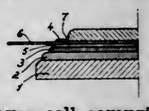
1. A fluid operable motor comprising a cylinder, a piston reciprocable in said cylinder and having a first effective area for moving said piston in one direction, and a second effective area for moving said piston in the opposite direction, means for admitting pressure fluid selectively to said first or second effective area, sealing means arranged at the periphery of said piston and engaging adjacent wall portions of said cylinder for substantially preventing hydraulic communication between said first and second areas, a passageway in said piston and directly communicating with a groove at the periphery of said piston, and means associated with said passageway and responsive to fluid pressure on said sealing means, while pressure fluid is acting on said second effective area for effecting direct fluid connection between said passageway and said first effective area.

2,328,439
HEAT TRANSFER APPARATUS
Robert Esnault-Pelterie, Boulogne-Billancourt, France; vested in the Alien Property Custodian
Application December 7, 1940, Serial No. 369,033
In Great Britain December 21, 1939
9 Claims. (Cl 62—136)



1. In heat transfer apparatus which includes a motor-pump unit, a source of added power therefor, and a non-condensing gas circuit having a high pressure part into which the pump discharges and from which the motor is fed and a low pressure part into which the motor discharges and from which the pump is supplied, the combination of a pump cylinder having a displaceable head member adapted to vary the volume of the dead space in the cylinder, a cam-actuated valve for controlling the admission of gas from a high-pressure line to a motor cylinder, a second cam-actuated valve for controlling the escape of expanded gas from said last-named cylinder to a low-pressure line, and spring-head pressure-equalizing valves cooperating with each of said cam-actuated valves respectively for permitting escape of gas from said motor cylinder to the high-pressure line and from the low-pressure line to the said cylinder when the pressures within said cylinder respectively exceed or fall below the desired working range.

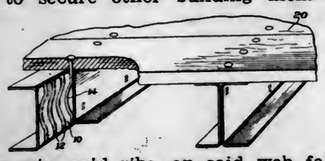
2,328,440
BLOCKING LAYER CELL
Ludovicus Augustinus Lambertus Esseling and Willem Christiaan van Geel, Eindhoven, Netherlands; vested in the Alien Property Custodian
Application July 2, 1941, Serial No. 400,852
In the Netherlands July 3, 1940
4 Claims. (Cl. 175—366)



1. A blocking-layer cell comprising anode and cathode electrodes, a non-genetic blocking-layer interposed between said electrodes, and a grid electrode interposed between said electrodes and embedded in said blocking-layer, said blocking-layer comprising a plurality of superposed films of different insulating materials.

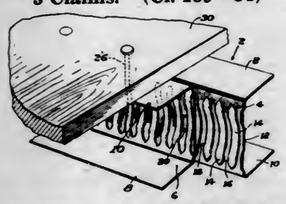
2,328,441
STRUCTURAL MEMBER
Herbert C. Fischer, Wellesley Hills, and Allan H. W. Higgins, Boston, Mass.
Application October 9, 1942, Serial No. 461,412
3 Claims. (Cl. 189—34)

3. A load-bearing structural member including in combination a structural element having a web and a flange disposed along at least one margin of the web, said web being formed of a sheet material of uniform thickness transversely bent to provide upstanding hollow ribs and alternating grooves in a surface of the web extending transversely thereof, and a second structural element having an opposing face secured to said web to form with said grooves passages into which fasteners may be driven in said grooves to secure other building members to



said elements, said ribs, on said web face opposed to said second structural element, presenting convexly curved tapering ends merging smoothly into the face of said web providing outwardly flaring unobstructed entrances to said passages whereby fasteners driven in at any point lengthwise between said elements are directly and smoothly guided into said grooves and are firmly held therein by said opposing face.

2,328,442
LOAD-BEARING MEMBER
Herbert C. Fischer, Wellesley Hills, and Allan H. W. Higgins, Boston, Mass.
Application December 3, 1942, Serial No. 467,696
3 Claims. (Cl. 189—34)



1. A load-bearing structural member including in combination a pair of structural elements each having a web and a flange disposed along at least one margin of its web, said webs being each formed of sheet material of uniform thickness bent to provide upstanding hollow ribs and alternating grooves in a surface of the web extending transversely thereof, the said elements having their webs secured together with their ribs abutting and their opposed complementary grooves defining passages into which fasteners may be driven between said elements to secure other building members thereto, said ribs, on said opposed web faces, presenting convexly curved tapering ends merging smoothly into the face of said web providing outwardly flaring unobstructed entrances to said passages whereby fasteners driven in at any point lengthwise between said elements are directly and smoothly guided into said grooves and firmly held therein by the opposing faces thereof.

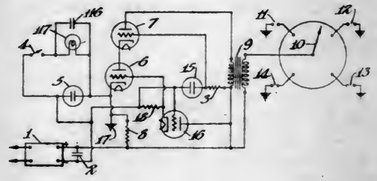
2,328,443
MULTILAYER ELECTRICAL WINDING AND METHOD AND APPARATUS FOR MAKING SAME
Levin W. Foster, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application February 18, 1941, Serial No. 379,533
18 Claims. (Cl. 242—10)

1. Apparatus for making an electrical winding comprising means for rotatably supporting a winding form, means for holding a longitudinal web of insulating material in a position for wrap-



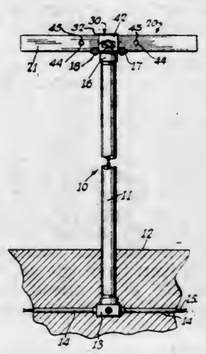
ping onto said form, and means for cutting diagonally across a section of said web as a portion of said section is wound onto said form.

2,328,444
IGNITION SYSTEM
Oliver T. Francis, Renville, Minn.
Application November 17, 1941, Serial No. 419,400
11 Claims. (Cl. 123—148)



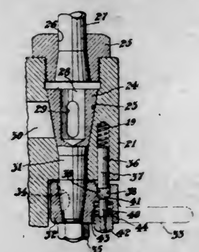
1. An ignition system, comprising: an ignition coil having a primary and secondary winding, a vacuum tube having an input and an output circuit, a source of current, and said primary winding connected in said output circuit, an interrupter connected in said input and said output circuit, a spark gap connected across said secondary winding, and means for rendering said interrupter nonconductive, to produce a spark at said spark gap.

2,328,445
BLACKOUT LIGHT
Raymond Arthur Francis, Zanesville, Ohio
Application May 4, 1942, Serial No. 441,609
1 Claim. (Cl. 240—25)



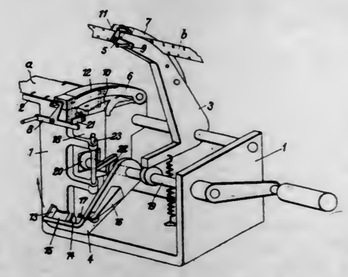
A blackout light comprising a central tubular post, a casing mounted on the post and having radial tubular portions, a lamp at the upper end of the post and in the center of said casing, the center of the top of the casing being formed with an opening, and a box removably mounted within the casing and having light transmitting colored panels aligned with said tubular portions.

2,328,446
LOCKING DEVICE FOR THROTTLE VALVES
George H. Fuehrer, Phillipsburg, N. J., assignor to Ingersoll-Rand Company, New York, N. Y., a corporation of New Jersey
Application August 5, 1941, Serial No. 405,483
1 Claim. (Cl. 74—528)



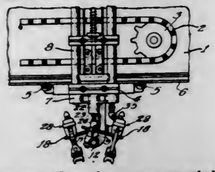
A locking device, comprising a casing having a chamber, a rotary member therein, a lever for the rotary member having an aperture, a spring-pressed cylindrical pin slidable and rotatable in the casing having a cylindrical portion to extend into the aperture for holding the rotary member against rotary movement, a spring-pressed plunger slidable in the aperture and having a head of larger diameter than the pin for moving the pin out of the aperture to release the rotary member, and cooperating means on the lever and the plunger for retaining the plunger in the lever.

2,328,447
FILM SPLICING DEVICE
Walter Geyer, Berlin, Germany; vested in the Alien Property Custodian
Application May 15, 1940, Serial No. 335,306
In Germany February 28, 1938
3 Claims. (Cl. 154—42)



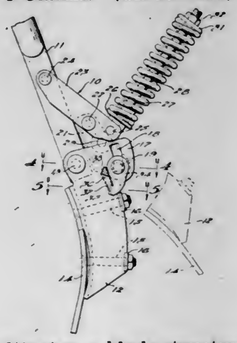
1. In a film splicing device the combination of a table, of means for attaching one film end to supporting faces of the table, the said faces being cylindrically arched, a swivel arm adapted to be moved past the table, a planing blade secured to the said swivel arm adapted to plane off the emulsion of the film end attached to the table when said arm is moved past said table, a slide way disposed on the said arm and in front of the film end on the table when said arm is moved past said table, a space being provided between the planing blade and the slide way adapted to act as a passage for the shavings, the curves of the arched supporting faces of the table and of the swinging movement of the said arm having the same axis, and means for driving the swivel arm.

2,328,448
UNIVERSALLY ADJUSTABLE AUTOMATIC SPRAYING DEVICE
Eric Gustafsson and John W. Baur, Chicago, Ill., assignors to Binks Manufacturing Company, Chicago, Ill., a corporation of Delaware
Application July 20, 1942, Serial No. 451,534
16 Claims. (Cl. 91—45)



9. A spraying mechanism comprising a reciprocable carrier having a supporting member, a main supporting bar angularly and linearly adjustable relative to said supporting member, means for securing said main supporting bar in adjusted position to said supporting member, a spray gun supporting bar angularly and linearly adjustable relative to said main supporting bar, means for securing said spray gun supporting bar in adjusted position to said main supporting bar, a spray gun angularly and linearly adjustable relative to said spray gun supporting bar, and means for securing said spray gun in adjusted position to said spray gun supporting bar.

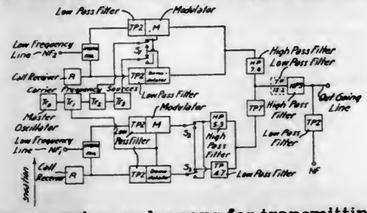
2,328,449
CULTIVATOR
Alfred H. Haberstump, Detroit, Mich., assignor to The Murray Corporation of America
Application December 30, 1940, Serial No. 372,231
5 Claims. (Cl. 97—184)



1. In a cultivator, a blade structure, a supporting member on which the blade structure is pivoted, a spring operated mechanism for holding the blade in a desired position, a bolt projecting through a slot in the blade structure and pivoted to the spring mechanism, elements supported by said bolt having projecting fingers, said blade structure having a notched slot disposed at an angle to the first said slot for receiving said fingers to thereby angularly position said blade structure on said supporting member.

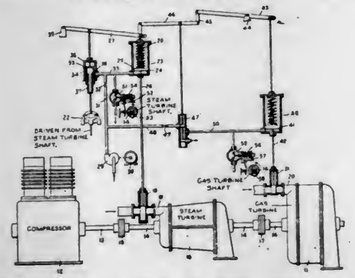
2,328,450
CARRIER FREQUENCY SYSTEM
Wolfgang Hagen, Berlin, Germany; vested in the Alien Property Custodian
Application October 10, 1941, Serial No. 414,415
In Germany March 28, 1940
3 Claims. (Cl. 179—15)

1. A carrier frequency system comprising means to produce three different carriers, a transmission line, means to produce from each carrier a lower side-band and an upper side-band, means for transmitting one direction of a conversation over said line through the lower side-band of one of said carriers while transmitting the other direction thereof over said line by the upper side-band of



the same carrier, and means for transmitting one direction of another conversation over said line through the upper side-band of a second carrier while transmitting the other direction thereof over said line by at least the lower side-band of the third carrier.

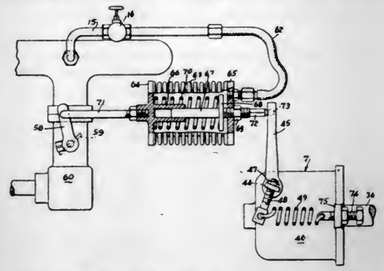
2,328,451
ELASTIC FLUID TURBINE ARRANGEMENT
Sverker N. Hedman, Stoneham, Mass., assignor to General Electric Company, a corporation of New York
Application July 3, 1941, Serial No. 400,904
4 Claims. (Cl. 60—6)



1. The combination of a compressor having a shaft, a steam turbine having an inlet valve and a shaft coupled at one end to the compressor shaft, a gas turbine having an inlet valve and a shaft coupled to the other end of the steam turbine shaft, a hydraulic governing mechanism including a single speed governor driven from the steam turbine shaft for operating both valves and arranged to cause opening of the steam turbine valve only after the gas turbine valve is fully open and closing of the gas turbine valve after the steam turbine valve is shut, an emergency speed governing mechanism including an emergency speed governor driven from the steam turbine, and another emergency speed governor driven from the gas turbine shaft and set to operate at a speed below that of the first mentioned emergency speed governing mechanism.

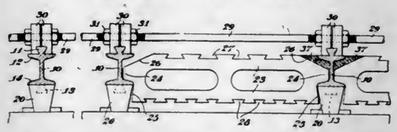
2,328,452
SPEED REGULATOR FOR ENGINES
Edward A. Hobart, Troy, Ohio, assignor to The Hobart Bros. Company, Troy, Ohio, a corporation of Ohio
Application August 30, 1941, Serial No. 409,031
1 Claim. (Cl. 123—103)

In combination, an internal combustion engine subject to variable loads, a governor, a valve in the intake of said engine, a lever connected to said valve and a second lever connected to and operated by said governor, linkage means connecting said levers, and a bellows the operation of which is controlled by the pressure of the intake manifold on the engine side of the valve, said bellows having opposite end plates and being mounted on and supported by said linkage means to cause said linkage means to be lengthened or shortened



according to the engine fuel pressure, said bellows being located between said valve and said governor whereby the engine speed is maintained constant notwithstanding changes in the engine load, said linkage means consisting of a pair of rods whose one end is connected to each lever respectively and whose opposite end is connected to each end respectively of the said opposite end plates of said bellows.

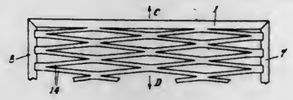
2,328,453
FLOOR CONSTRUCTION
Robert Hopewell, Luton, England
Application July 14, 1942, Serial No. 450,899
In Great Britain March 19, 1941
5 Claims. (Cl. 72—66)



1. In a building construction, the combination with the walls of the building, beam cradles provided with sockets mounted on the tops of said walls, beams of substantially I-shaped cross section each having ribs projecting from the top and bottom sides thereof, said ribs at the bottoms of the beams having their ends fitting in the sockets of the cradles, pre-formed fireproof slabs having laterally projecting ledges adapted to rest on the lower flanges of the beams and to span the space therebetween, the tops of said slabs lying substantially in the plane of the top flanges of the beams and the bottoms of said slabs lying in a plane below the bottom flanges of the beam, and a settable plastic material covering the top and bottom of said beams and slabs to bond the same together and completely encase the same.

2,328,454
LATTICELIKE STIFFENING RIBBING FOR STRUCTURAL PLATES
Josef Horváth, Budapest, Hungary; vested in the Alien Property Custodian
Application March 11, 1942, Serial No. 434,300
In Hungary March 12, 1941
1 Claim. (Cl. 20—91)

In a ply wood panel, a lattice-work core having two side bars provided with recesses, an end bar provided with projections to seat on said side bars, a series of interconnected ribs having their ends seated in the recesses of said side bars, the end bar and ribs being integral and formed from



a single plate of wood, partially severed by slits, and expanded to form a lattice work, the recesses in the side bars retaining the ribs in their expanded position.

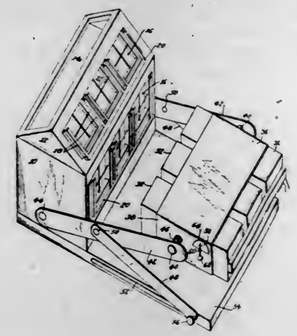
2,328,455
N^1-ALKALI METAL-N^1,N^4-DIHALOGEN ACYLSULPHANILAMIDES
Martin Everett Hultquist, Plainfield, and Moses L. Crossley, Bound Brook, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application July 2, 1942, Serial No. 449,476
9 Claims. (Cl. 260—397.7)

1. N^1-alkali metal - N^1,N^4 - dihalogen-N^4-acylsulphanilamide having the following probable formula:



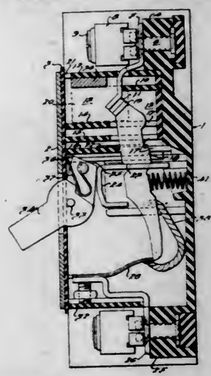
in which R is a hydrocarbon radical, Hal is a member of the group consisting of chlorine and bromine, and Me is an alkali metal.

2,328,456
APPARATUS FOR STUDYING ILLUMINATION
Ellis Humphreys, St. Louis, Mo., assignor to Mississippi Glass Company, St. Louis, Mo., a corporation of New York
Application November 13, 1942, Serial No. 465,432
7 Claims. (Cl. 35—19)



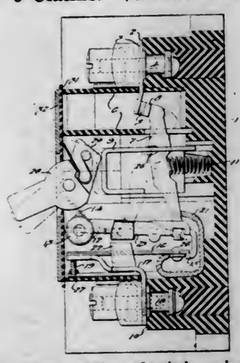
1. Apparatus for studying the daylight illumination of the interior of a proposed building through its windows, comprising means for supporting a model of the building with openings for said windows, in combination with means for directing parallel rays of light through said openings into said model, said model having an observation opening in the rear thereof.

2,328,457
CIRCUIT BREAKER
John G. Jackson, Detroit, Mich., assignor to Square D Company, Detroit, Mich., a corporation of Michigan
Application November 20, 1940, Serial No. 366,362
7 Claims. (Cl. 200—116)



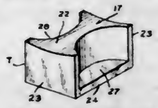
1. In a circuit controlling device, a stationary contact, a movable contact, means carrying said movable contact into and out of engagement with the stationary contact, actuating means for effecting operation of said movable contact carrying means, an insulating barrier disposed between said contacts and said actuating means and having a slot therein through which said movable contact carrying means extends and closely receiving said contact carrying means, and an insulating member mounted on said movable contact carrying means so as to be movable therewith to be positioned in front of the slot in said insulating barrier, said insulating member being movable relative to said movable contact carrying means and toward said insulating barrier by the pressure of arc formed gases to close said slot when said movable contact carrying member is in contacts separated position.

2,328,458
CIRCUIT BREAKER
John G. Jackson and Olav Maseng, Detroit, Mich., assignors to Square D Company, Detroit, Mich., a corporation of Michigan
Application November 7, 1940, Serial No. 364,630
9 Claims. (Cl. 200—88)



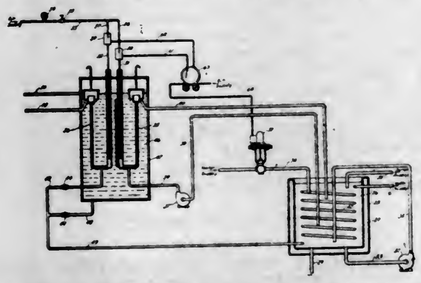
1. In an automatic electric circuit breaker, cooperating contacts controlling the circuit through the breaker, means releasable to effect separation of said contacts to open the circuit, means for latching said releasable means, means biasing said latching means into latching position, an armature element having a lost motion connection with said latching means, a stationary magnetic circuit energized in response to current flow through the breaker and adapted to attract said armature element to effect movement of the latching means to unlatching position, and means biasing said armature element with respect to the latching means into a position remote from the magnetic circuit whereby attraction of the armature element is initially effected without moving the latching means so that the armature element engages the latching means with a hammer blow to initiate its movement to unlatching position.

2,328,459
FINISHING STONE
Frederick H. Kemp, Peoria, Ill., assignor to Mid-West Abrasive Company, Detroit, Mich., a corporation of Delaware
Application September 29, 1941, Serial No. 412,860
3 Claims. (Cl. 51—204)



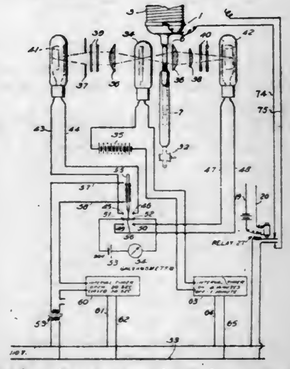
1. A one piece finishing stone of the class described comprising a solid block of abrasive material provided at the top and bottom, respectively, thereof with a transversely curved working surface and a substantially flat back, said block being provided in opposite sides thereof with longitudinally extending laterally opening concave recesses having opposite ends thereof terminating short of and spaced from opposite ends of the block, said recesses also opening upwardly through the transversely curved working surface at the top of the block but terminating short of said flat back at the bottom of the block whereby portions of the back form bottoms for the recesses and constitute webs for attachment to a holder for the block.

2,328,460
DENSITY MEASURING APPARATUS
Wilmot H. Kidd, Sharon, Mass., assignor to The Foxboro Company, Foxboro, Mass., a corporation of Massachusetts
Application November 25, 1940, Serial No. 367,070
10 Claims. (Cl. 265—44)



8. In apparatus for measuring the density of a hydraulic fluid, the combination of a first compartment adapted to receive a continuous flow of said fluid and having a cross-sectional area which is small enough with respect to the rate at which said fluid is introduced into said compartment to cause the density of the fluid in said compartment to rapidly assume the density of the incoming fluid, means for effectively introducing fluid near the bottom of said first compartment, means for maintaining a column of said fluid of constant height in said first compartment, a second compartment containing a second column of fluid physically separated from but communicating with said first column of fluid, means for supplying gas to said second compartment near the bottom of said compartment and under a pressure sufficient to balance the weight of said second column of fluid, and means responsive to said gas pressure for indicating the density of said fluid.

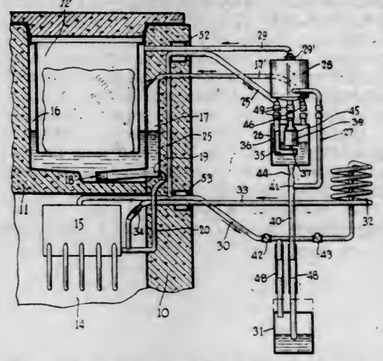
2,328,461
CONTINUOUS RECORDER FOR COLOR CHANGES
Roy Herman Kienle, Bound Brook, Robert H. Park, Bridgewater Township, Somerset County, Charles H. Benbrook, North Plainfield, and Everett F. Grieb, Plainfield, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
Original application August 29, 1940, Serial No. 354,702. Divided and this application August 14, 1941, Serial No. 407,412
3 Claims. (Cl. 234—1.5)



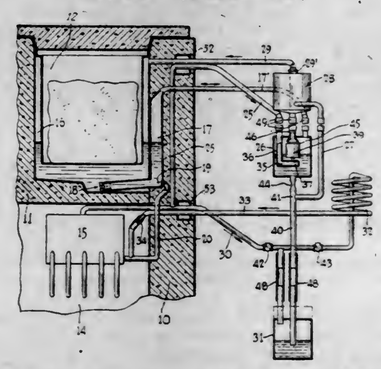
1. A device for measuring changes of absorption of optical radiation in a reaction which comprises in combination a transparent cell, means for continuously circulating a small portion of liquid through said cell, a source of light, means for producing two beams from said source of light, radiation detecting means in each of said beams capable of transforming radiant energy received into electric energy, means for causing radiant energy of predetermined frequency range only to strike the two detecting means, the frequency range being the same for each beam, said transparent cell being located in one of said beams, a recording galvanometer and means for alternating recording by the galvanometer current from the radiation detecting means from each beam.

2,328,462
REFRIGERATING SYSTEM
David H. Killeffer. Crestwood, N. Y.
Application September 28, 1939, Serial No. 296,874
12 Claims. (Cl. 62—91.5)

1. In heat exchange apparatus of the refrigeration type the combination with a refrigeration chamber to be cooled of a receptacle adapted to contain a low temperature refrigerant, a condenser for a low boiling point refrigerant in heat exchange relation with said low temperature refrigerant receptacle, an evaporator to evaporate said low boiling point refrigerant by absorption of heat from said chamber, a circuit through which said low boiling point refrigerant can flow from the condenser to the evaporator and back to the condenser, means actuated by the expanding low boiling point refrigerant as it absorbs heat from the refrigerating chamber to cause intermittent flow of the vapor of the low boiling point refrigerant from the evaporator to the condenser, said means including a chamber and a working liquid movable to and from said chamber and acting as a piston therein.



2,328,463
PRIME MOVER
David H. Killeffer, Crestwood, N. Y.
Original application September 28, 1939, Serial No. 296,874. Divided and this application June 16, 1942, Serial No. 447,235
7 Claims. (Cl. 121—149)

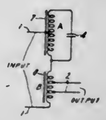


1. A prime mover comprising, in combination, a power chamber having an inlet port and an exhaust port, a work chamber, a working liquid in said chambers movable from one chamber to the other, a valve operated in response to flow of working liquid into the power chamber to close the exhaust port and open the inlet port of the power chamber.

2,328,464
REGULATING CIRCUIT
Ordean Kiltie, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York
Application November 30, 1939, Serial No. 306,918
18 Claims. (Cl. 171—119)

1. Apparatus for converting a variable supply

voltage to a constant output voltage which is substantially independent of output current comprising, in combination, a pair of transformers having their primary windings serially connected in a circuit across which said supply voltage is to be applied, one of said transformers having a capacitor connected across its secondary winding and the other transformer having a secondary winding for supplying said output voltage, both of said transformers having cores built up of identical laminations which are provided with restricted sections whereby their magnetizing characteristics have a first bend where the restricted sections saturate and a second bend where the main cores saturate, said characteristics being substantially a straight line between said bends and a substantially straight line beyond said second bend, the turns of the primary winding of the transformer across whose secondary winding said capacitor



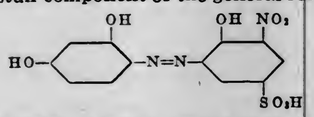
is connected being of such a number that over the range of supply voltage variations its ampere turns magnetize its core in the straight line range between said two bends, said capacitor having a volt-ampere characteristic which is parallel to the portion of the magnetization characteristic of the core of the transformer across whose secondary winding it is connected which is between the two bends of said magnetization characteristic when the coordinates of said magnetization characteristic are the voltage across and the current through the primary winding of said transformer, the turns of the other primary winding being of such number that over the range of the output current of the secondary winding associated therewith the core magnetized thereby is operated beyond the second bend of its magnetization curve.

2,328,465
METALLIFEROUS SUBSTANTIVE DYESTUFFS
Georges Kopp, Paris, France; vested in the Alien Property Custodian
No Drawing. Application March 6, 1940, Serial No. 322,623. In Great Britain March 28, 1939
6 Claims. (Cl. 8—42)

3. Process for obtaining purplish brown shades which consists in metallising on the fibre dyestuffs of the general formula



where D is a disazotized diphenyl base of the benzidine type, X is a coupling component having a carboxylic group ortho to a hydroxy-group and being a member of the benzene series, and Y is the dyestuff component of the general formula:



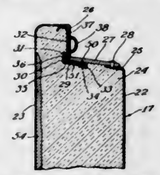
the diphenyl base being coupled at the resorcinol group of said Y component.

2,328,466
MECHANISM FOR CONTROLLING MOVEMENTS
Walter Erich Herbert Krzenciessa, Kurt Gustav Scheibel, and Arthur Albrecht Bohmann, Dresden, Germany; vested in the Alien Property Custodian
Application July 28, 1939, Serial No. 287,162
In Germany September 3, 1936
5 Claims. (Cl. 74—40)



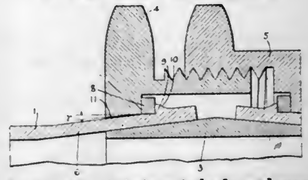
1. A mechanism for transmitting controlled drive movements comprising two toggle levers arranged in series forming a drive connection at their common pivot, said toggle levers being so arranged that when one of them is in extended position the other is in broken position, a common drive for said toggle levers comprising a rod mechanism consisting of rigid link members controlling said toggle levers, and means for actuating said common drive including a pivot traveling along a curve for positively guiding said rod mechanism.

2,328,467
REFRIGERATOR
William J. La Casse, Duluth, Minn., assignor to The Coolerator Company, Duluth, Minn., a corporation of Minnesota
Application November 6, 1939, Serial No. 302,999
1 Claim. (Cl. 20—35)



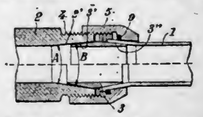
A refrigerator door including spaced parallel inner and outer metal walls, and a breaker strip which outlines a substantial portion of the marginal edges of the door, and a flexible sealing strip, said inner wall having an inwardly directed substantially right angle flange to which the breaker strip is permanently secured thereby forming a unitary inner wall and breaker strip, the latter thus having a free edge, said outer wall having a flange which is substantially at a right angle to the first mentioned flange and which flange is directed inwardly toward and spaced from the extreme free edge of the breaker strip, a one-piece supporting member, said supporting member being of substantially right angle construction and having a portion thereof engaging and paralleling the inner side of the second mentioned flange and continuing inwardly in the same plane and thus with the said inwardly directed flange portion of the outer wall forming a shouldered sealing strip seat and the said supporting member further continuing to its juncture whereat an inset channel is formed, and another portion of the said supporting member extending beneath the free edge portion of the breaker strip, the sealing strip consisting of a web portion and an enlarged sealing bead portion, the latter portion being co-extensive with and shaped to snugly engage the said shouldered seat and having a portion of the web thereof positioned in the channel of the supporting member and extending therefrom intermediate the portion of the supporting member beneath the breaker strip and the underside free edge portion of the breaker strip and in contact and co-extensive with both the said portion of the breaker strip and the last said portion of the supporting member, the extreme free edge portion of the breaker strip being positioned in the channel construction and contacting that portion of the sealing strip therein, and removable means for detachably securing the free end portion of the breaker strip, the said sealing strip and the supporting member together, whereby the inner wall with its permanently secured breaker strip is removable, thereby permitting ready replacement of a worn sealing strip.

2,328,468
COUPLING DEVICE FOR THE ASSEMBLY OF TUBULAR ELEMENTS
Edmond Gabriel Laffly, Paris, France; vested in the Alien Property Custodian
Application July 24, 1941, Serial No. 403,856
In France December 7, 1940
5 Claims. (Cl. 285—126)



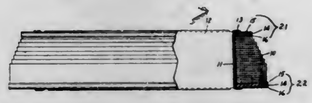
1. A device for joining tubular elements which comprises a bi-conical support, tubular elements having flared portions adapted to fit over said support, interlocking means disposed about the ends of said tubular elements for effecting the joinder of said tubular elements, and gripping means within said interlocking means for transmitting the thrust exerted upon the interlocking of said joining means and directly engaging under pressure the material of said tubular elements, said gripping means comprising a ring encircling the flared end of one of the tubular elements, said ring being larger in internal diameter than the unflared portion of the tubular element and than the smaller end of the flared portion but smaller in inside diameter than the larger end of the flared portion of the tubular element whereby said ring is free to rotate and slide along the tubular element as far as the larger end portion of the tubular element and said ring being smaller in external diameter than the interior of said interlocking means, whereby upon exertion of the thrust of the interlocking means said ring can move freely along the flared end of the tubular element without deformation to reach and grip the said larger end of the tubular element.

2,328,469
COUPLING DEVICE
Edmond Gabriel Laffly, Paris, France; vested in the Alien Property Custodian
Application February 3, 1942, Serial No. 429,428
In France September 4, 1941
3 Claims. (Cl. 285—86)



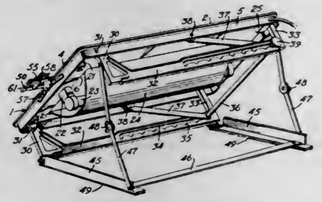
1. A coupling device for assembling a pipe with a tubular part which comprises, in combination, the end portion of said tubular part, said end portion forming a flaring bore, a ring having two exterior contact surfaces, one of frusto-conical shape adapted to engage in said bore said frusto-conical portion of said ring having a greater angle of divergence than said second exterior contact surface with respect to the longitudinal axis of said tubular part, the second contact surface being adapted to engage in a fluidtight manner against the end of said pipe, means for forcing said tubular part and said pipe toward each other so as to keep said ring tightly held between them, said frusto-conical surface engaging said bore in a fluid-tight manner and over a narrow zone thereof.

2,328,470
DYNAMOELECTRIC MACHINE COIL SUPPORT
Carl W. Lange and John K. Wentz, Erie, Pa., assignors to General Electric Company, a corporation of New York
Application October 20, 1942, Serial No. 462,702
8 Claims. (Cl. 171—252)



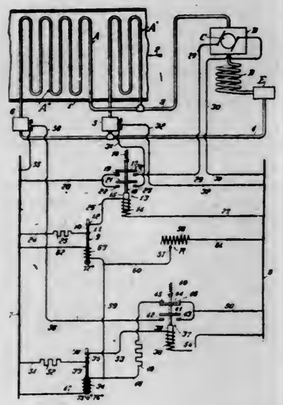
2. A coil spool including a central insulated arbor, and means including a collar adjacent one end of said spool for supporting said coil on said spool, said collar being formed of relatively rigid asbestos board with a layer of glass cloth bonded to the outer surfaces of said asbestos board.

2,328,471
DRAWING FIXTURE
James D. Leffel, Bridgeport, Conn., assignor to Remington Rand Inc., Buffalo, N. Y., a corporation of Delaware
Application July 22, 1941, Serial No. 403,522
7 Claims. (Cl. 45—131.1)



1. A drawing fixture comprising a frame having a sheet supporting plate mounted thereon, means on said frame for retaining sheets in position on said supporting plate, and a two part supporting stand for said frame, one part having one end pivotally connected to one end of said frame and one side hingedly connected to one side of the second part, means connecting the opposite side of both parts for supporting the first part and said frame in tilted position on the second part, and means connecting the free end of the frame and first part at a point remote from the pivots for supporting the frame in tilted position relative to the first part, whereby said frame may be tilted upwardly from one side or one end of said supporting stand as desired.

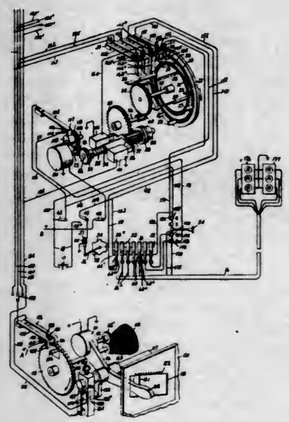
2,328,472
SPLIT EVAPORATOR FOR COOLING SYSTEMS
Timothy J. Lehane and Everett H. Burgess, Chicago, Ill., assignors to Vapor Car Heating Company, Inc., Chicago, Ill., a corporation of New York
Application January 19, 1942, Serial No. 427,258
6 Claims. (Cl. 62—8)



1. In a cooling system, means for supplying and circulating a refrigerant comprising a compressor interposed in the refrigerant circuit, a motor for driving the compressor, an evaporator comprising a plurality of separate sections arranged in parallel in the refrigerant circuit, a pair of thermostatically controlled means responsive to temperature changes in the space cooled by the system, one of these means directing the continuous flow of refrigerant to one of the sections as long as the temperature is at or above a predetermined temperature and the other means also causing at least an intermittent flow of the refrigerant to a second section while the temperature is above another higher temperature, this flow to the second section becoming continuous at or above this predetermined maximum temperature.

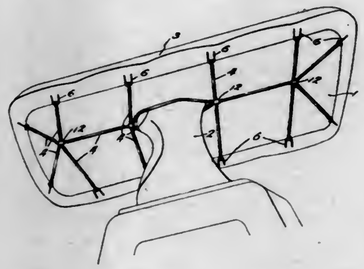
2,328,473
ELECTRICAL SYSTEM
Vincent W. Leonard, Saugus, Mass., assignor to General Electric Company, a corporation of New York
Application October 1, 1940, Serial No. 359,262
17 Claims. (Cl. 177—337)

1. In a traffic signaling system, the combination of a circuit closer for controlling signal circuits, a plurality of circuit closer actuators, members on which the circuit closer and the circuit closer actuators are respectively mounted, a motor, means including a clutch which connects the motor to one of said members for rotating it relatively to the other member to effect actuation of the circuit closer by the circuit closer actuators, said clutch being normally closed, and means for intermittently opening the clutch at uniformly spaced time intervals for a uniform selected time period during each revolution of said rotating member thereby intermittently to stop said rotating member to lengthen the period of time required for one revolution of such member beyond that at which the motor tends to operate such member with the clutch continuously closed and to distribute



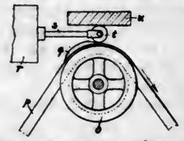
uniformly throughout the rotation of said dial the increments of said additional time period.

2,328,474
STRETCHING DEVICE
John Lewis, Ardsley, N. Y.
Application June 7, 1941, Serial No. 397,131
1 Claim. (Cl. 24—87)



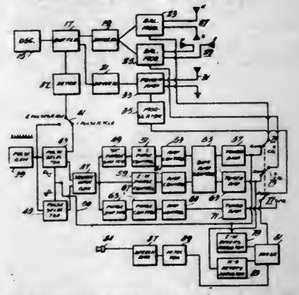
Stretching device for an ironing board cover comprising an elongated member adapted to extend longitudinally in a median position beneath an ironing board, a group of coil springs at each end of said elongated member, each spring freely linked at one end to said member, said springs of each group adapted to be divergently positioned beneath the ironing board and stretched away from said longitudinal member, other springs freely linked at one end in opposed relation to said longitudinal member at one or more intermediate points in the length thereof adapted to be stretched away from said longitudinal member, and gripper members connected to the free ends of said springs, each gripper member comprising a ring adjacent the spring to which it is attached, of a size to admit the finger tip, parallel arms tangent to said ring on opposite sides, adapted to extend in a direction away from the spring to which said gripper member is attached when in operative position, the ends of said arms being bent back toward said ring at an acute angle to said arms in planes perpendicular to the plane embracing the circumference of said ring and terminating in sharpened points.

2,328,475
ENDLESS BELT
Hans Walter Löckmann, Bielefeld, and Heinrich Wana, Berlin, Germany; vested in the Alien Property Custodian
Application August 23, 1939, Serial No. 291,596
In Germany August 25, 1938
1 Claim. (Cl. 74—567)



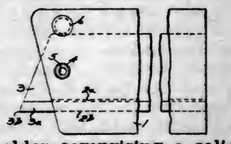
A device of the character described, including in combination a pull rod for movement in a predetermined path having a roller at the outer end thereof, a resilient guide member above the roller, an endless belt adjacent to the roller, projections arranged on the outer surface of the said belt to contact said roller and effect a lateral displacement of the pull rod in its predetermined path along the guide member in the direction of rotation of the belt.

2,328,476
OMNIDIRECTIONAL RANGE
David G. C. Luck, Haddon Heights, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application October 29, 1940, Serial No. 363,249
16 Claims. (Cl. 250—11)



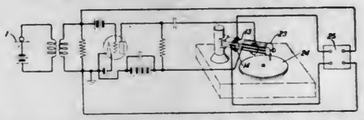
13. In a radio transmitter having means for producing an omnidirectional radiation field and a pair of directional fields which combine to produce a resultant field, the combination of means for deriving two voltages which are in relative phase quadrature, means for utilizing said derived voltages to produce variations in the amplitudes of said directional fields, respectively, and means for controlling the angular rotation of said resultant field by adjusting the amplitudes of said derived voltages.

2,328,477
TOOLHOLDER
John M. Luers, Mount Clemens, Mich., assignor to John Milton Luers Patents Incorporated, Detroit, Mich., a corporation of Michigan
Application January 12, 1942, Serial No. 426,415
3 Claims. (Cl. 29—96)



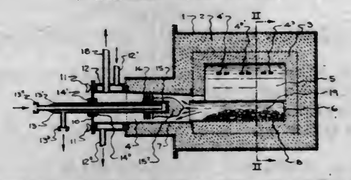
1. A toolholder comprising a solid block having an open-ended slot formed longitudinally therethrough intermediately of its width, said slot admitting a blade for sliding movement therethrough, one side wall of the slot being recessed for a short distance from the slot base to permit the passage of a head of increased width formed along one side of the blade, a support carried by the block extending across the slot permitting sliding movement of the blade between it and the base of the slot, the block being provided with a threaded transverse aperture formed through the side wall of the slot opposite the recessed wall, said aperture opening into the slot between its recessed portion and said support, and a screw in threaded engagement with said aperture to bear against one side of the blade and force the said blade into intimate contact with the opposite wall of the slot.

2,328,478
PIEZOELECTRIC TRANSDUCER
Warren P. Mason, West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application March 30, 1940, Serial No. 327,045
5 Claims. (Cl. 179—100.4)



1. An amplifier having an input circuit and an output circuit, a piezoelectric element, means including a pair of electrically conducting electrode surfaces electrically connected to the output circuit of the amplifier mounted adjacent the piezoelectric element to impress an electric field thereon whereby the amplifier output circuit impresses an electric field upon the piezoelectric element and means including a second pair of electrically conducting electrode surfaces electrically connected to the amplifier input circuit and mounted adjacent the piezoelectric element to be subjected to the varying electric stress engendered by displacement of the piezoelectric element for feeding back to the input circuit an electromotive force derived from the piezoelectric element of such phase as to oppose the electromotive force originally impressed upon the input circuit in order to counteract non-linearities in the positional response of the piezoelectric element to its impressed electric field.

2,328,479
ELECTRIC OVEN FOR HIGH TEMPERATURES WORKING UNDER VACUUM OR UNDER NEUTRAL GAS
Francois Mathieu, Moissac, France; vested in the Alien Property Custodian
Application November 22, 1941, Serial No. 420,120
7 Claims. (Cl. 13—8)



1. A furnace of the character described comprising a heating chamber, a passage having one end communicating with said chamber, said passage having a removable door on the other end

thereof, said passage being substantially uniformly outwardly diverging, a condensing member disposed in said passage and supported by said door, and deflecting means within said chamber to direct matter to be condensed from said chamber into contiguity with said condensing member, said passage being relatively small in transverse cross-section with respect to the size of said condenser.

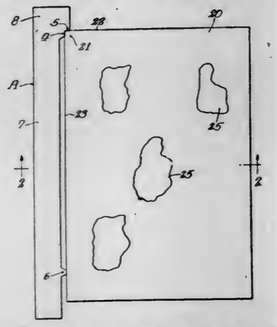
2,328,480

REGISTER RAIL FOR DOUBLE PRINTING

Clement A. Mawicke, Wilmette, and Harold W. Olsen, Chicago, Ill.; said Olsen assignor to said Mawicke

Application March 9, 1942, Serial No. 433,910

9 Claims. (Cl. 95—5)



1. The method of effecting a predetermined registering relation of a series of photographic negative plates during make-up operations and reproducing the same relation during successive exposures of each negative plate to a sensitized surface which comprises placing corresponding corners of the negative plates while in superimposed relation during make-up operations against adjoining surfaces of predetermined angularity, abutting corresponding edges of these negative plates against a contact point disposed in aligning relation to one of said adjoining surfaces, then reversing the negative plates for successive exposures to a sensitized surface to photographically reproduce during said successive exposures the images of said plates in the same relation as they had with respect to each other while in superimposed relation which includes placing the same corresponding corners of each plate against a second set of adjoining surfaces having the same predetermined angularity as the first mentioned adjoining surfaces, and abutting the same corresponding edges of said plates against a second contact point also in the same aligning relation to one of said second set of adjoining surfaces as said first contact point with respect to the corresponding surface of said first set of adjoining surfaces.

2,328,481

BITUMINOUS EMULSION AND METHOD OF PRODUCING

Evart E. Mayfield, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application July 31, 1941, Serial No. 404,846

4 Claims. (Cl. 252—311.5)

1. The process of preparing a bituminous emulsion of high stability which comprises emulsifying a bitumen in water containing a sulfonation product of a substantially petroleum hydrocarbon-insoluble pine wood resin as emulsifying and stabilizing agent, the amount of said sulfonation product being not in excess of about 3 percent by weight of the emulsion.

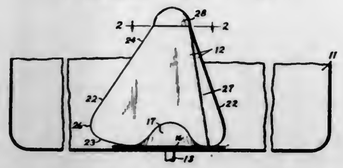
2,328,482

AGITATOR FOR WASHING MACHINES

Jabez Curry Nelson, Syracuse, N. Y., assignor to Easy Washing Machine Corporation, Syracuse, N. Y., a corporation of Delaware

Original application March 13, 1937, Serial No. 130,785. Divided and this application July 16, 1940, Serial No. 345,784

5 Claims. (Cl. 68—134)



1. An agitator for a washing machine comprising three vertically extending blades arranged and joined to form a triangular central portion, said blades having substantially plane surfaces, portions of said blades projecting laterally beyond said triangular central portion, the adjacent surfaces of said blades cooperating to provide laterally opening pockets.

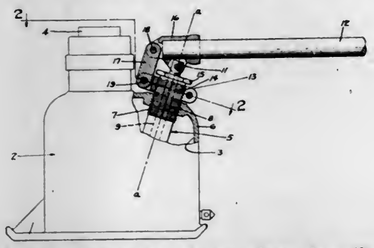
2,328,483

LIFTING APPARATUS

Harold Nilson, Wayzata, Minn., assignor to George H. Ische, Milwaukee, Wis.

Application June 7, 1941, Serial No. 397,027

2 Claims. (Cl. 60—52)



1. In an apparatus of the class described, a body having a ram mounted for reciprocal movement therein, a pump comprising an externally threaded cylinder mounted in said body, said pump controlling the circulation of a pressure fluid to and from the ram, an operating handle for the pump, and a split collar received in threaded engagement with the cylinder adapted to support said handle, the threaded connection between the collar and cylinder permitting rotary adjustment of the handle about the axis of the pump, and also permitting axial adjustment of the collar on the pump cylinder, thereby to vary the working stroke of the handle with respect to the ground.

2,328,484

PROCESS FOR THE PREPARATION OF NITROGEN CHLORIDE

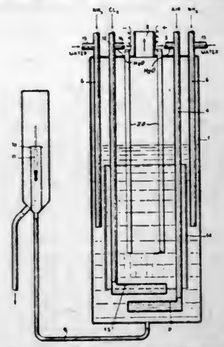
Albert Gerrit Oosterhuis, Amsterdam, Netherlands; vested in the Alien Property Custodian

Application December 16, 1938, Serial No. 246,198

In the Netherlands December 28, 1937

6 Claims. (Cl. 204—101)

1. In the manufacture of nitrogen chloride and chloramines, the process which comprises passing gaseous chlorine in a finely divided state into a body of an aqueous solution containing ammonium chloride, simultaneously passing a large volume of an inert gas into said body of solution in quantity sufficient to remove the resulting



gaseous products of reaction as they are formed and passing an electric current through said solution between electrodes immersed therein, the current supplied being substantially 12 faradays per 3 gram molecules of chlorine introduced.

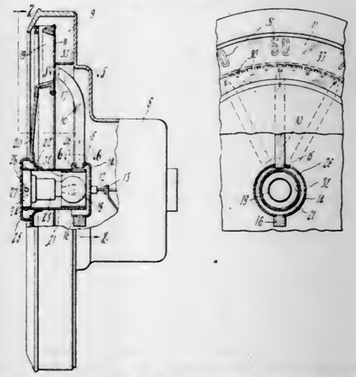
2,328,485

INDICATING INSTRUMENT

Harry G. Ott, Waltham, Mass., assignor to Waltham Watch Company, Waltham, Mass., a corporation of Massachusetts

Application March 9, 1939, Serial No. 260,771

11 Claims. (Cl. 116—129)



1. A speedometer for a motor vehicle including an opaque front member having an aperture therein of a size at least sufficient to permit the ready introduction and withdrawal therethrough of a relatively small light bulb, an arcuate non-opaque scale graduated in speed units arranged concentric with said aperture, said scale being visible from in front of said speedometer, an elongated accurately balanced radially-extending pointer, made of a light-transmitting material capable of conducting light rays around a bend supported behind said opaque front member for rotational movement about an axis passing through said aperture, the pointer having its radially outermost end portion bent towards said non-opaque scale and terminating in a radially-extending narrow zone, and having its radially innermost end portion extending towards and terminating short of said axis of rotation, a relatively small light bulb insertable through the front of said aperture into a position in operative juxtaposition with the radially innermost end of said pointer, and bulb positioning and holding means having no physical connection with the pointer for guiding said light bulb into and thereafter securely fixedly holding said bulb in such position, whereby light rays emitted by the stationary bulb will be conducted through the body of said movable pointer and cast forwardly through the non-opaque scale thereby clearly to indicate the position of said pointer from in front of said scale.

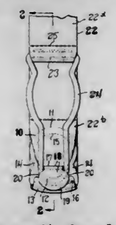
2,328,486

STUD-PLATE UNIT FOR HOSE SUPPORTERS AND THE LIKE

Walter S. Painter, Middlebury, Conn., assignor to Waterbury Buckle Company, Waterbury, Conn., a corporation of Connecticut

Application October 27, 1942, Serial No. 463,467

2 Claims. (Cl. 24—245)



1. A stud-plate unit for hose-supporters and the like, comprising: a stud-plate having a transverse lower bar, a transverse upper bar and a transverse intermediate bar, the said stud-plate having a lower web-receiving slot located between the said transverse lower bar and the said transverse intermediate bar and having a relatively small dimension in a vertical direction, the said stud-plate also having an upper web-receiving slot located between the said transverse intermediate bar and the said transverse upper bar and having a relatively large dimension in a vertical direction; and a stud-projection formed integral with the upper edge of the said transverse intermediate bar of the said stud-plate and formed from material displaced from the said relatively large upper web-receiving slot, the said stud-projection extending outwardly and downwardly from one face of the said intermediate bar toward the said lower bar and into position for entry into the loop of a hose-supporter or the like.

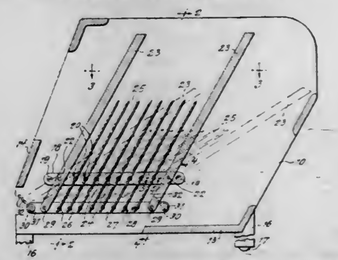
2,328,487

POTATO SLICER

John Perrone, New York, N. Y.

Application December 26, 1942, Serial No. 470,197

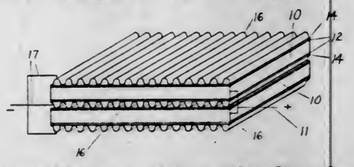
1 Claim. (Cl. 146—162)



A device of the class described comprising a

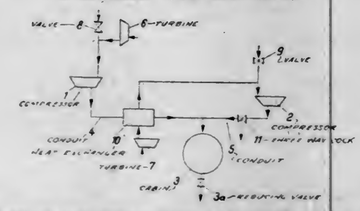
frame having a plurality of spaced substantially rectangular members pivotally mounted therein, means for positioning and maintaining said members in parallel relationship with each other, said means being movable to vary the distances between said members, means for releasably locking said movable means in any of a plurality of positions, the outermost of said plurality of members being longer than the others thereof, said others of said members having their forward edges sharpened to provide blades, said outermost members serving as guide walls to guide toward said blades a potato or the like which is adapted to be forced between said guide walls.

2,328,488
RECTIFIER
Carl E. Peters, St. Louis, Mo., assignor to B-L Electric Manufacturing Company, St. Louis, Mo., a corporation of Missouri
Application February 9, 1942, Serial No. 429,965
3 Claims. (Cl. 175—366)



1. A rectifier comprising a plurality of rectifying units, a corrugated metallic member, and means to maintain the units and the member in assembled relation, each of said rectifying units comprising a base plate, at least one layer of semi-conducting material having one of its surfaces in direct contact with said base plate and at least one electrode of relatively low melting point metal in direct contact with the other surface of said semi-conducting material, said corrugated member being of resilient metal and having a plurality of smoothly rounded corrugations, said units and said member being assembled so the electrodes of said units face each other and directly contact the smoothly rounded corrugations of said corrugated member whereby said corrugated member electrically connects said electrodes while it resiliently spaces them apart to permit air to directly contact the major portion of the surface of the electrodes and to directly contact the corrugated member.

2,328,489
DEVICES FOR CONTROLLING THE PRESSURE AND TEMPERATURE IN ALTITUDE CABINS, PARTICULARLY FOR AIRPLANES
Hans Pfau, Berlin-Adlershof, Germany; vested in the Alien Property Custodian
Application May 21, 1940, Serial No. 336,484
In Germany May 25, 1939
5 Claims. (Cl. 128—204)

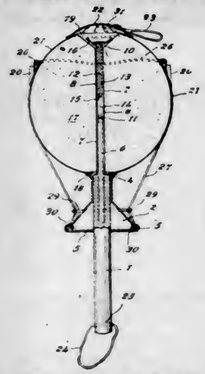


1. Device for controlling the pressure and temperature in altitude cabins, particularly in airplanes, comprising in combination, a cabin, compressors, turbines arranged ahead of said compressors, a heat exchanging device, valves, and means for utilizing the air, which leaves the turbine arranged ahead of one compressor, for cooling the compressor air of another compressor in said heat exchanging device, while the air heated through the heat exchanging device is caused to flow into the open air by actuating said valves.

2,328,490
DIPHENYLSULPHONE DERIVATIVE
Paul Pöhls, Wuppertal-Elberfeld, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York
No Drawing. Application September 13, 1940, Serial No. 356,654. In Germany September 4, 1939
6 Claims. (Cl. 260—397.6)

6. A diphenylsulphone compound, the 4-position of which is substituted by a member of the group consisting of nitro, amino and carboxylic acylamino groups, and the 4' position of which contains an urea group which is substituted by a member of the group consisting of carboxy alkyl, carboxy aryl, sulphonic alkyl, sulphonic aryl, sulphinic alkyl and sulphinic aryl, and its salts.

2,328,491
BOMB COMPRISING A COMPRESSED MASS OF FIRE EXTINGUISHING POWDER
Erwin Puchner, Rome, Italy; vested in the Alien Property Custodian
Application July 18, 1939, Serial No. 285,146
In Italy July 29, 1938
5 Claims. (Cl. 169—28)

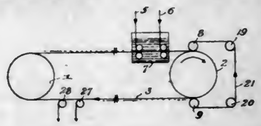


1. A fire extinguishing bomb comprising a caseless moulded mass of the extinguishing powder, an explosive charge located in said mass and a firing match for said charge having communication with the exterior of said bomb.

2,328,492
CINEMATOGRAPHIC REGISTERING APPARATUS
Gerald F. Rackett, Los Angeles, Calif., assignor to Technicolor Motion Picture Corporation, Hollywood, Calif., a corporation of Maine
Application February 7, 1942, Serial No. 429,884
4 Claims. (Cl. 101—130)

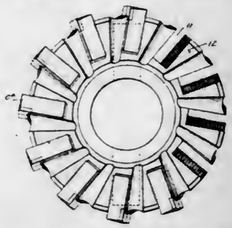
1. Apparatus for registering one film with another film comprising a register belt having teeth for engagement in the sprocket holes of the films, means for guiding the belt along an orbital path including a curved part and a portion leading to the curved part, a seating belt having sprocket

holes to receive said teeth, means for feeding the films and the seating belt to said register belt in said portion and thence around the curved part, the pitch of said teeth being approximately a multiple of the pitch of the sprocket holes in the seating belt so that, in said curved part, the seat-



ing belt is drawn toward the register belt by the fanwise movement of the teeth relatively to each other as the register belt is curved, whereby the films are compressed into intimate contact between the two belts.

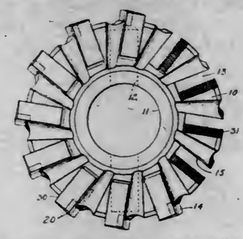
2,328,493
METHOD OF SHAVE-MILLING STEEL
Ernest Reaney, Stratford, Conn., assignor to The O. K. Tool Company, Inc., New York, N. Y., a corporation of New York
Application April 25 1942, Serial No. 440,497
4 Claims. (Cl. 90—11)



1. The method of face milling steel workpieces which comprises rotating a carbide tipped cutting blade about an axis substantially perpendicular to the plane of the surface to be machined and simultaneously maintaining the general plane of said blade forwardly slanted at an advancing angle relative to the axis of turning and to a plane radial thereof so that the chip engaging front face of the blade in an axial direction leans forward over the chip and also in a radial direction slants circumferentially rearwardly from a point ahead of the axis of rotation so that the outer corner formed by the intersection of the peripheral and end cutting edges of the blade is circumferentially behind other portions of said blade whereby said outer corner is brought into engagement with the workpiece last in order of time with respect to the time of engagement of other points along said edges more inwardly located both radially and axially, and moving said compoundly inclined rotating blade bodily laterally into the steel workpiece to effect the removal of a layer of stock therefrom.

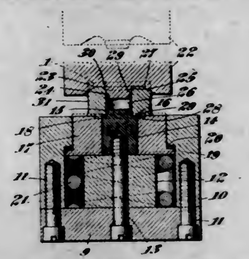
2,328,494
MILLING CUTTER
Ernest Reaney, Stratford, Conn., assignor to The O. K. Tool Company, Inc., New York, N. Y., a corporation of New York
Application May 7, 1942, Serial No. 442,059
10 Claims. (Cl. 29—105)

1. A rotatable face milling cutter comprising a body member having a plurality of cutting edges about its periphery, each of said peripheral cutting edges extending generally longitudinally of the axis of rotation of the cutter and at helical angle relative to said axis which progresses from the face end of said cutter partially about the



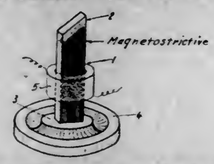
cutter body in a direction opposite to the hand of the milling cutter.

2,328,495
METHOD AND APPARATUS FOR NUT MANUFACTURE
Claude D. Reed, Lebanon, Pa., assignor to Bethlehem Steel Company, a corporation of Pennsylvania
Application March 28, 1941, Serial No. 385,643
16 Claims. (Cl. 10—85)



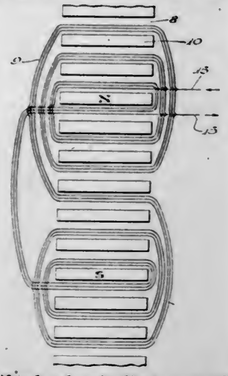
8. A device for cold forging nut blanks having an axial perforation comprising a countersinking die provided with means for centering the blank thereon, a facing die surrounding the countesinking die having an annular recess in its upper face, and a crowning die coacting with the facing die to form a crown on one end of the blank and a washer face on the opposite end of said blank.

2,328,496
MAGNETOSTRICTIVE MICROPHONE
Yves Rocard, Paris, France; vested in the Alien Property Custodian
Application February 24, 1940, Serial No. 320,608
In France March 22, 1939
4 Claims. (Cl. 177—386)



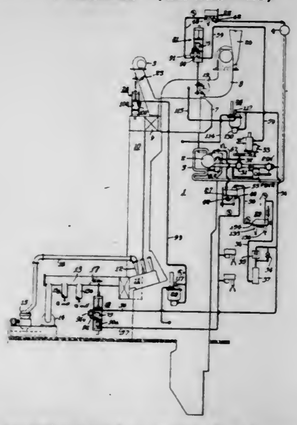
4. In a magneto-striction apparatus such as a magneto-striction microphone having a diaphragm, the combination of a vibrating bar fixed to the said diaphragm at one of the extremities thereof so as to project longitudinally from the same along the axis thereof, the other extremity terminating in an oblique section, the said bar being subdivided into strips of progressively increased length in the direction of the length thereof and extended at the free end by an undivided mass of material to finish off said end.

2,328,497
WINDING
Lawrence F. Romine, Detroit, Mich.
Application April 29, 1940, Serial No. 332,196
2 Claims. (Cl. 171—206)



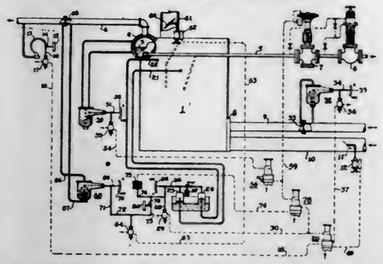
1. The method of winding a multipolar distributed winding of the class described, formed with a skein consisting of a plurality of turns between terminal leads, comprising the steps of introducing a length of skein into a central pole slot, winding the skein spirally into successive adjacent slots to an outer slot, running a length of the skein from one of said slots to the corresponding slot of an adjacent pole, and winding the skein spirally through the remaining slots of said adjacent pole.

2,328,498
COMBUSTION CONTROL SYSTEM
George W. Saathoff, South Orange, N. J.
Application April 3, 1941, Serial No. 386,663
7 Claims. (Cl. 236—14)



1. In a control system for boiler furnaces delivering steam to a distribution header, each furnace being provided with a superheater, and controllable supplies of combustion air, fuel and feed water, said system comprising means responsive to steam pressure in a distribution header for so adjusting the draft that the rate of flow of air through the boiler furnace varies inversely with variations in steam pressure in said header, means responsive to air flow through the boiler for developing a control force for varying the rate of fuel delivery to the boiler directly in accordance with the air flow rate, and means responsive to the control force developed by said air-flow-responsive means and to steam pressure in the boiler for so modifying the rate of delivery of fuel that the steam pressure in the boiler will, at loads above stand-by load, vary directly in proportion to the pressure drop through the superheater.

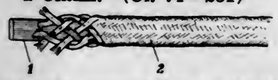
2,328,499
CONTROL SYSTEM FOR VAPOR GENERATORS
George W. Saathoff, South Orange, N. J.
Original application September 7, 1938, Serial No. 228,818. Divided and this application July 8, 1941, Serial No. 402,061
9 Claims. (Cl. 236—14)



1. A relation indicator for a vapor generator having liquid, fuel, and air supply means; comprising in combination, a meter of the total air and gases of combustion, means modifying the manifestations of said meter in accordance with the difference between the rate of liquid supply and the rate of flow of the total air and gases of combustion, a meter of the rate of vapor outflow, means for continuously indicating the ratio between said modified air flow and vapor outflow rate, and means for controlling the air supply to maintain said ratio at a predetermined value.

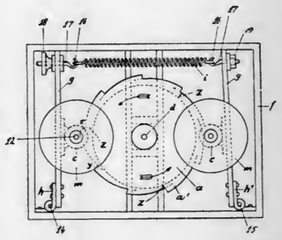
9. A control system for a vapor generator having liquid, fuel, and air supply means; comprising in combination, a meter of the total air and gases of combustion, means responsive to liquid flow for modifying the manifestation of said meter, a meter of the rate of vapor outflow, means for continuously indicating the relation between said air flow and vapor outflow rate, means for controlling the air supply to maintain said relation at a predetermined value, means responsive to the rate of air flow for causing the rate of delivery of fuel to the furnace to be in proportion to and to vary with the rate of air flow, and means responsive to changes in vapor pressure for so modifying the rate of delivery of fuel to the furnace that for any given relation of vapor flow to air flow the rate of delivery of fuel is increased when the vapor pressure tends to decrease and decreases the rate of fuel delivery when the vapor pressure tends to increase.

2,328,500
ENDLESS FLAT ELASTIC BELT
Emile Saisas, Spa, Belgium; vested in the Alien Property Custodian
Application December 14, 1939, Serial No. 309,265
In Belgium January 14, 1939
1 Claim. (Cl. 74—231)



An endless belt, comprising an elastic core of rectangular section of materially greater width than thickness, and an envelope united with the core, the envelope having a comparatively limited free stretch corresponding to a desired stretch or extension of the core for frictional driving grip of the belt, the cover being inherently prevented from any stretch beyond that permitting the defined stretch of the core to thereby maintain the belt as a whole against further stretch in use, the limit stretch of the cover holding the cover and core as an unstretchable unit under any stress beyond the defined stretch of the core, whereby such cover when in its limit-stretch position serves in the use of the belt to prevent such use exerting any compressive strain on the core.

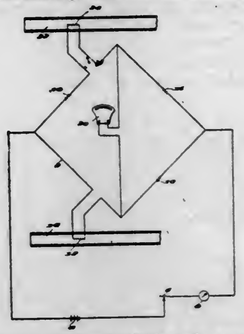
2,328,501
MACHINE
Felix Schanzer, Berlin, Germany; vested in the Alien Property Custodian
Application December 9, 1939, Serial No. 308,410
In Germany December 29, 1936
1 Claim. (Cl. 74—393)



A machine, comprising a rotary body, means connected with said body and rotatable therewith and constituting at least one annular runway comprising a plurality of pairs of ribs, a groove being formed between said ribs, an end of each rib being situated intermediate the ends of a rib belonging to another pair of ribs, said pairs of ribs diverging and being upwardly inclined in relation to the periphery of said groove; a plurality of rolling bodies adapted to be in rolling engagement with said runway, whereby said rolling bodies contact only a portion of each pair of ribs in the course of their rolling, a separate axle carrying each of said rolling bodies, a plurality of supports carrying said axles, a plurality of plates carrying said supports, means pivotally supporting some of the ends of said plates, and springs interconnecting other ends of said plates and causing said rolling bodies to press against said runway.

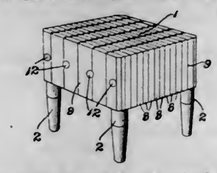
2,328,502
MEASURING AIR-FUEL RATIO
Karl Scheffler, Berlin, Germany; vested in the Alien Property Custodian
Application November 26, 1940, Serial No. 367,281
In Germany May 24, 1939
2 Claims. (Cl. 73—51)

1. The process of measuring the air-fuel ratio of the fuel mixture supplied to an internal combustion engine comprising determining by a change of the resistance in a Wheatstone bridge the variation in the heat conductivity of the exhaust gases, and offsetting in said change in resistance such changes induced through changes



in the moisture content of the air supplied to the fuel mixture.

2,328,503
BUTCHER BLOCK
Frederick Jacob Schmitt, Jr., Petoskey, Mich., assignor to Michigan Maple Block Company, Petoskey, Mich., a partnership
Application April 15, 1942, Serial No. 439,053
2 Claims. (Cl. 146—215)

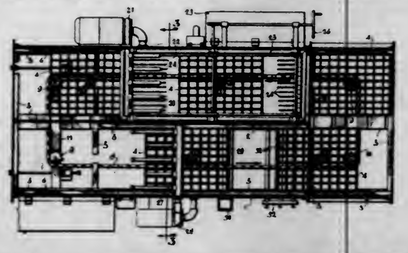


2. In a butcher's block adapted to be supported at its corners by depending legs, a plurality of vertical sheets of wood each made up of a plurality of vertical strips glued together in vertical edge to edge contact, all upper ends of the strips making up the sheets of the block lying in substantially the same horizontal plane, with intermediate strips of intermediate sheets of the block having parts at their lower end portions cut away, the lower ends of the outer strips of said intermediate sheets and the lower ends of the outer sheets lying substantially in the same horizontal plane and surrounding a recess of substantially rectangular form in the lower side of the block adapted to receive and house the supporting legs for the block, as specified.

2,328,504
CONVEYER FOR INDUSTRIAL WASHING AND DRYING MACHINES
Donald P. Smith, Norwood, Ohio, assignor to The Alvey-Ferguson Company, Cincinnati, Ohio, a corporation of Ohio
Application November 22, 1940, Serial No. 366,561
2 Claims. (Cl. 198—19)

1. In a machine of the nature disclosed, a continuously traversing endless conveyer moving in a rectangular circuit to provide for alternate direction of travel within a casing and with one end thereof accessibly exposed at one end of the casing, wheels cooperating with the conveyer at the corners of the circuit, a plurality of foraminous trays of rectangular outline transportably sustained and in a spaced consecutive order translated by said conveyer, the spacing permitting each tray to dwell at the corners of the circuit and move laterally from the end of one division of the circuit and into a second division to clear

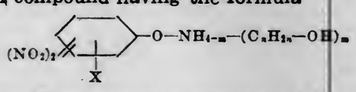
and avoid interference to the continued movement of a succeeding tray, track means for transportably sustaining the trays and limiting their travel at the end of each division of the circuit, and a link for each tray fixed to the conveyer and pivotally connected to the tray, the link having a radius equal to that of the wheels cooperating



with the conveyer with its pivotal connection with the tray coaxial therewith when the advancing movement of the tray is limited by the track at the end of a circuit division for providing an idle arc of link travel and non-translating dwell for the tray, prior to its lateral advance from one circuit division onto a second.

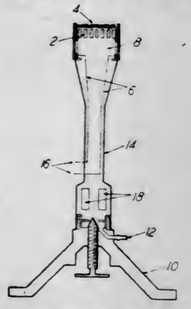
2,328,505
ALKANOL AMINE SALTS OF DINITRO-PHENOLS
Frank B. Smith and John N. Hansen, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application March 14, 1941, Serial No. 383,348
8 Claims. (Cl. 260—584)

1. A compound having the formula



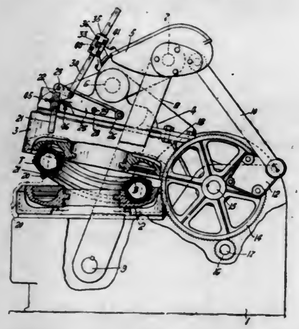
wherein X represents a member of the group consisting of the methyl radical and hydrogen, *n* is an integer greater than 1, and *m* is an integer from 1 to 3, inclusive.

2,328,506
HEATER
Walter O. Snelling, Allentown, Pa.
Application May 21, 1942, Serial No. 443,987
1 Claim. (Cl. 219—39)



A heater of the general shape of a Bunsen burner comprising an exposed electric heating element, a base, and a tubular connecting member secured at its lower end to the base, and at its upper end supporting the heating element, the distance between the base and the exposed portion of the heating element being greater than the diameter of the base and being more than three times the diameter of the electric heating element.

2,328,507
TIRE STRIPPING VULCANIZING PRESS
Leslie E. Soderquist, Akron, Ohio, assignor to The McNeil Machine & Engineering Company, Akron, Ohio, a corporation of Ohio
Application March 2, 1939, Serial No. 259,353
14 Claims. (Cl. 18—17)



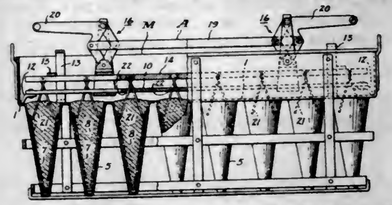
1. The combination with a press of the type comprising separable upper and lower mold sections movable away from each other to open the press until an article within the mold is only partially retained in both mold sections, of a gripping device cooperating with the upper mold section to grip said article between the upper mold section and said gripping device and located outside the mold cavity when the press is closed, and yielding means carried by the press to move the gripping device from a position outside the mold cavity to a position between the mold sections and beneath the portion of the article retained in the upper mold section.

14. A vulcanizer press for pneumatic tires comprising a stationary mold element and a movable mold element, means for relatively moving said mold elements apart by a lateral shifting and separating movement to compress the tire diametrically between diagonally opposite areas on the tread surface and grip the tire at such areas respectively by said respective mold elements, and a stripper arm carried by said movable element movable into engagement with the ungripped area of said tire adjacent the area gripped by said movable element for effecting an additional stripping action of the tire from said stationary element.

2,328,508
APPARATUS FOR FORMING COATED FROZEN CONFECTIONS
Frank Sportolari, Pittsburgh, Pa.
Original application May 6, 1941, Serial No. 392,083. Divided and this application May 8, 1942, Serial No. 442,161
5 Claims. (Cl. 294—87)

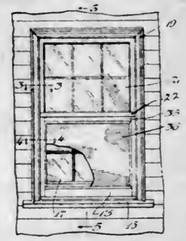
1. Apparatus for handling confections which comprises a relatively flat member, means disposed above said member for carrying a plurality of impalers in spaced relation, activating means including a toggle mechanism carried by said member to cause movement of said carrying means toward and from said member, a plurality of impalers mounted on said carrying means, and guide means carried by said member

to receive the impalers and upon movement of the activating means in one direction to cause divergence of the impalers to grippingly engage



confections, and upon movement of said activating means in the opposite direction to release the confections.

2,328,509
WINDOW STRUCTURE
Earl C. Swanson, Bayport, Minn., assignor to Andersen Corporation, Bayport, Minn., a corporation of Minnesota
Application June 20, 1941, Serial No. 398,927
1 Claim. (Cl. 160—90)

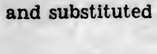


A window structure comprising a frame, upper and lower sashes slidable in said frame, said frame having head and side jambs provided with blind stops, a storm sash secured between said blind stops in the upper half of the frame and being of substantially the same dimension as the upper slidable sash, means sealing the space between said storm sash and said upper slidable sash, a screen mounted between said blind stops in the lower half of said frame and extending in the same plane as said storm sash, means connecting the top rail of said screen to the bottom rail of said storm sash, and an auxiliary pane secured to the inner face of the lower sash.

2,328,510
DIHALO-ETHYLENE COPOLYMERIZATION PRODUCT
Charles Allen Thomas, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application July 19, 1940, Serial No. 346,321
24 Claims. (Cl. 260—86)

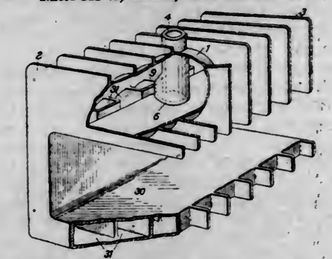
2. A polymerization product obtained by copolymerizing 1-chloro-1-fluoro-ethylene and a substance containing a radical selected from the group consisting of vinyl

and substituted vinyl



radicals.

2,328,511
REFRIGERANT EVAPORATOR
Gustav Thomas, Dresden-Loschwitz, Germany; vested in the Alien Property Custodian
Application July 27, 1938, Serial No. 221,493
In Germany June 21, 1935
7 Claims. (Cl. 62—126)
(Granted under the provisions of sec. 14, act of March 2, 1927; 357 O. G. 5)



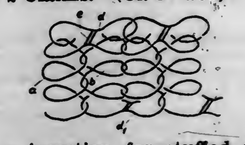
1. A refrigerant evaporator for a refrigerator cabinet, consisting of a refrigerant header integral with an ice tray carrier of U-design forming a chamber open on three sides, having continuous longitudinal surfaces, located below the header and having a plurality of tubular passages each of which is at both ends in direct communication with the interior of the header and which are traversed by the refrigerant, the header and ice tray carrier being cast integrally from a corrosion-proof and acid-resisting metal alloy, preferably of light metal.

2,328,512
RIBBED DOME HOLLOW HEAD VALVE
Theodore R. Thoren and Paul P. Johnson, Cleveland, Ohio, assignors to Thompson Products Incorporated, Cleveland, Ohio, a corporation of Ohio
Application August 30, 1940, Serial No. 354,778
5 Claims. (Cl. 123—188)



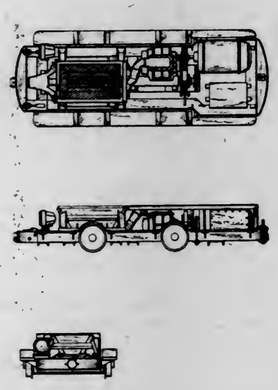
1. In a poppet valve having a hollow dome-shaped head the improvement which comprises an integral localized reinforcing rib depending inwardly from the head and diminishing in depth from the central portion of the head to the outer portion thereof.

2,328,513
INSERTION FOR CUSHIONS OR THE LIKE
George Török, Budapest, Hungary; vested in the Alien Property Custodian
Application January 12, 1939, Serial No. 250,505
In Hungary January 28, 1938
2 Claims. (Cl. 5—268)



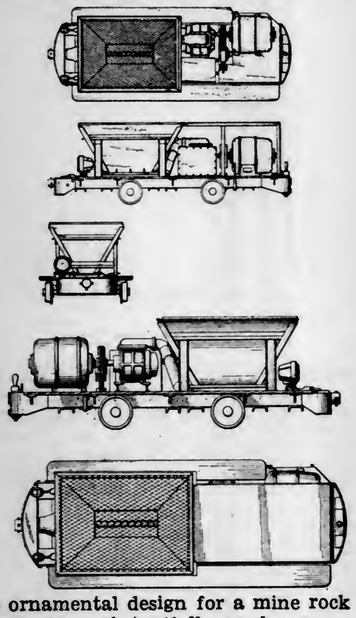
2. A spring insertion for stuffed seats, mattresses, cushions and like supports for human bodies, comprising more than one row of more than two upholstery springs arranged side by

136,297
DESIGN FOR A MINE ROCK DUSTING APPARATUS
Benjamin H. Van Vactor, Verona, Pa., assignor to Mine Safety Appliances Company, Pittsburgh, Pa.
Application August 20, 1941, Serial No. 102,960
Term of patent 14 years



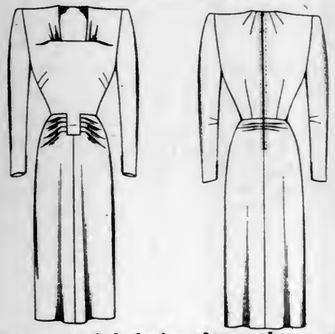
The ornamental design for a mine rock dusting apparatus, substantially as shown.

136,298
DESIGN FOR A MINE ROCK DUSTING APPARATUS
Benjamin H. Van Vactor, Verona, Pa., assignor to Mine Safety Appliances Company, Pittsburgh, Pa.
Application August 20, 1941, Serial No. 102,961
Term of patent 14 years



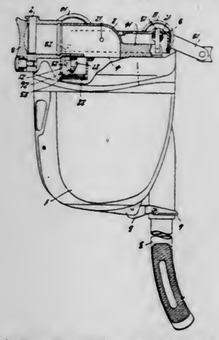
The ornamental design for a mine rock dusting apparatus, substantially as shown.

136,299
DESIGN FOR A DRESS
Samuel Zahn, New York, N. Y.
Application August 7, 1943, Serial No. 110,863
Term of patent 3½ years



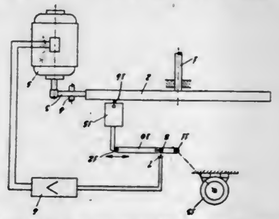
The ornamental design for a dress, substantially as shown.

1. In a vacuum cleaner adapted to be moved over a surface to be cleaned, an under-carriage having wheels, a suction assembly mounted to swing on said carriage about an axis transverse thereof and adapted to be adjusted with respect to said surface, a pin mounted on said suction assembly, a rotatable shaft mounted on said under-carriage and having an opening therein for receiving said pin and means normally urging said shaft in a direction to clamp said pin in said opening.



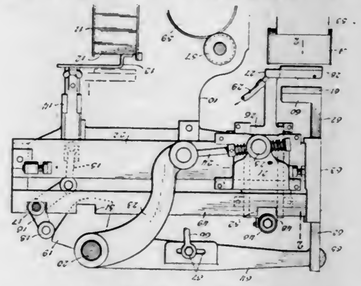
2,328,515
PHONOGRAPH TURNTABLE DRIVING DEVICE
Marinus Leonard van Overeem, Hilversum, Netherlands; vested in the Alien Property Custodian
Application April 24, 1941, Serial No. 390,176
In the Netherlands November 1, 1939
7 Claims. (Cl. 274—9)

4. In a device for controlling the speed of a motor for driving the turntable of a phonograph with a constant velocity of the record sound groove, a recording or reproducing member, a light source, a photoelectric cell responsive to light from said source for supplying electrical impulses for controlling the current supplied to the motor, a perforated traveling elastic band controlling the supply of light from said source to said photoelectric cell, pulleys supporting said band, means operating one of said pulleys to operate said band at a uniform rate of speed and means supporting another of said pulleys from said recording or reproducing member for varying the length of said band by movement of said member.



2,328,516
LABELING MACHINE
George W. von Hofe, Bound Brook, N. J., assignor to New Jersey Machine Corporation, Hoboken, N. J., a corporation of New Jersey
Application November 27, 1941, Serial No. 420,609
8 Claims. (Cl. 216—55)

1. In a labeling machine, the combination of a holder for a supply of labels, a support for articles to be labeled, transporting means for removing labels from said supply and depositing said labels upon and in contact with said articles, means for clamping said deposited labels on said articles, and means independent of said clamping means for effecting the release of said labels from said transporting means subsequent to the clamping of said deposited labels on said articles to permit the application of said labels to said articles to be completed.



2,328,517
MOVABLE POSITION FINDING DEVICES, PARTICULARLY COURSE PROTRACTORS
Fritz von Opel, New York, N. Y.; vested in the Alien Property Custodian
5 Claims. (Cl. 33—67)

5. In a movable device for finding positions, particularly a course protractor device for navigation purposes, substantially comprised of a protractor disc, a number of arms, two as a minimum, rotatably and removably connected with the center of said disc, a visible center line directed toward the center of said disc and sight vanes registering with said center line on each of said arms, a base plate rotatably and removably connected with said disc, a zero mark on said base

2,328,514
ELECTRIC VACUUM CLEANER HAVING A SUCTION SET WHICH IS MOVABLE OVER THE SURFACE TO BE CLEANED
Jan van der Heem, The Hague, Netherlands; vested in the Alien Property Custodian
Application May 19, 1941, Serial No. 394,218
In the Netherlands November 4, 1940
3 Claims. (Cl. 15—16)

slide and substantially parallel to each other, the springs of each row being formed from a single continuous length of wire, the helices of said springs running alternately clockwise and anti-clockwise when viewed from one side of the plane normal to the axes of the springs, adjacent springs touching each other at adjacent coil portions ascending in the same direction, each pair of said touching coil portions being so positioned that the wire of one coil first passes under the wire of the other coil, then ascends substantially in the same plane with the other touching coil portion, and finally repasses over the other wire, whereby the said two coils are intertwined, portions of said wire connecting subsequent springs of the same row and situated at opposite sides of two adjacent rows, and connecting elements longer than the distance between the axes of the springs of said adjacent rows, each of said elements being secured to two opposite connecting wire portions of said two rows, whereby the spaces formed on the surface of the insertion between the springs are bridged over.

side and substantially parallel to each other, the springs of each row being formed from a single continuous length of wire, the helices of said springs running alternately clockwise and anti-clockwise when viewed from one side of the plane normal to the axes of the springs, adjacent springs touching each other at adjacent coil portions ascending in the same direction, each pair of said touching coil portions being so positioned that the wire of one coil first passes under the wire of the other coil, then ascends substantially in the same plane with the other touching coil portion, and finally repasses over the other wire, whereby the said two coils are intertwined, portions of said wire connecting subsequent springs of the same row and situated at opposite sides of two adjacent rows, and connecting elements longer than the distance between the axes of the springs of said adjacent rows, each of said elements being secured to two opposite connecting wire portions of said two rows, whereby the spaces formed on the surface of the insertion between the springs are bridged over.

2,328,514

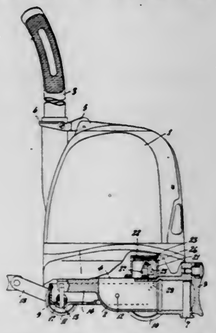
ELECTRIC VACUUM CLEANER HAVING A SUCTION SET WHICH IS MOVABLE OVER THE SURFACE TO BE CLEANED

Jan van der Heem, The Hague, Netherlands; vested in the Alien Property Custodian

Application May 19, 1941, Serial No. 394,218

In the Netherlands November 4, 1940

3 Claims. (Cl. 15—16)



1. In a vacuum cleaner adapted to be moved over a surface to be cleaned, an under-carriage having wheels, a suction assembly mounted to swing on said carriage about an axis transverse thereof and adapted to be adjusted with respect to said surface, a pin mounted on said suction assembly, a rotatable shaft mounted on said under-carriage and having an opening therein for receiving said pin and means normally urging said shaft in a direction to clamp said pin in said opening.

2,328,515

PHONOGRAPH TURNTABLE DRIVING DEVICE

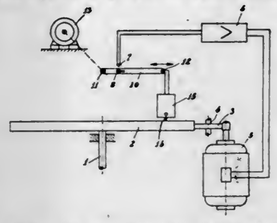
Marius Leonard van Overeem, Hilversum, Netherlands; vested in the Alien Property Custodian

Application April 24, 1941, Serial No. 390,176

In the Netherlands November 1, 1939

7 Claims. (Cl. 274—9)

4. In a device for controlling the speed of a motor for driving the turntable of a phonograph with a constant velocity of the record sound groove, a recording or reproducing member, a light source, a photoelectric cell responsive to light from said source for supplying electrical impulses for controlling the current supplied to the motor, a perforated traveling elastic band controlling the supply of light from said source to said photoelectric cell, pulleys supporting said band, means operating one of said pulleys to operate said band at a uniform rate of speed and means supporting another of said pulleys from said recording or reproducing member for varying the length of said band by movement of said member.



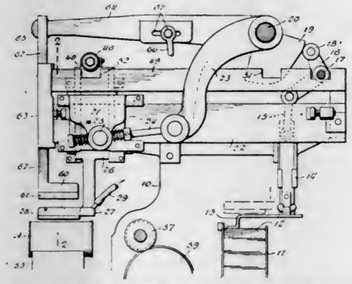
2,328,516

LABELING MACHINE

George W. von Hofe, Bound Brook, N. J., assignor to New Jersey Machine Corporation, Hoboken, N. J., a corporation of New Jersey

Application November 27, 1941, Serial No. 420,609

8 Claims. (Cl. 216—55)



1. In a labeling machine, the combination of a holder for a supply of labels, a support for articles to be labeled, transporting means for removing labels from said supply and depositing said labels upon and in contact with said articles, means for clamping said deposited labels on said articles, and means independent of said clamping means for effecting the release of said labels from said transporting means subsequent to the clamping of said deposited labels on said articles to permit the application of said labels to said articles to be completed.

2,328,517

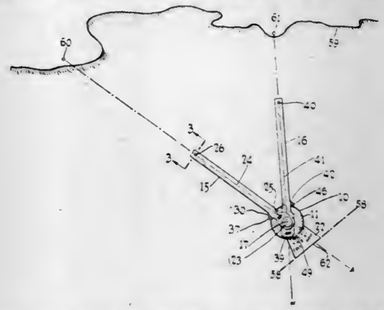
MOVABLE POSITION FINDING DEVICES, PARTICULARLY COURSE PROTRACTORS

Fritz von Opel, New York, N. Y.; vested in the Alien Property Custodian

Application January 17, 1942, Serial No. 427,088

5 Claims. (Cl. 33—67)

5. In a movable device for finding positions, particularly a course protractor device for navigation purposes, substantially comprised of a protractor disc, a number of arms, two as a minimum, rotatably and removably connected with the center of said disc, a visible center line directed toward the center of said disc and sight vanes registering with said center line on each of said arms, a base plate rotatably and removably connected with said disc, a zero mark on said base plate, and an edge of said base plate outside the area of said disc arranged to be held against an object in predetermined position: the novel arrangement of adjustable means for individually and temporarily immobilizing said base plate and each of said arms, respectively, relative to said disc.



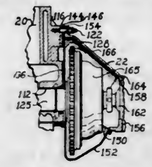
2,328,518

CLUTCH HOUSING INSULATOR

Nils Erik Wahlberg, Chicago, Ill., and Wallace S. Berry, Kenosha, Wis., assignors to Nash-Kelvinator Corporation, Kenosha, Wis., a corporation of Maryland

Application December 27, 1941, Serial No. 424,622

8 Claims. (Cl. 180—64)



1. In combination with a motor block having a crankshaft therein, parallel faces formed on said block normal to said crankshaft and offset longitudinally from each other, a plate supported from said faces, rigid pads positioned along a line transverse to said crankshaft and spacing said plate from one of said faces, a flexible pad spacing said plate from the other of said faces, gasket means positioned between said plate and said one face and extending around the end of said crankshaft, a generally bell-shaped clutch housing having a flange around the rim thereof and positioned against the opposite side of said plate from said block, means clamping said flange to said block along the line of said rigid pads, and other means clamping said flange to said block adjacent to said flexible pad.

2,328,519

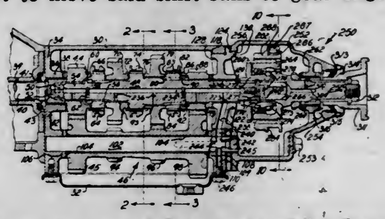
TRANSMISSION

Nils Erik Wahlberg and Harry F. Wood, Kenosha, Wis., assignors to Nash-Kelvinator Corporation, Kenosha, Wis., a corporation of Maryland

Application February 12, 1941, Serial No. 378,537

11 Claims. (Cl. 192—.01)

2. In combination with an automotive transmission having a plurality of selectively engageable gear trains therein, a motor for driving said transmission, means for accelerating said motor, a plurality of shift rails arranged to selectively engage said gear trains, notches formed in said shift rails, a rock shaft having an arm mounted thereon, means for reciprocating said rock shaft to engage said arm in either of said notches, means for oscillating said rock shaft to cause said arm to reciprocate said shift rails, an overrunning clutch unit arranged to be driven by said transmission, means for locking said overrunning clutch unit, a cam having a splined connection with said rock shaft, a push rod connected to said locking means and arranged to be reciprocated by said cam, a first neutral surface formed on said cam arranged to position said push rod to unlock said overrunning clutch unit, said neutral surface being arranged to engage said push rod when said rock shaft and shift rails are in neutral position, lockup surfaces formed on said cam on each side of said neutral surface, said lockup surfaces being angularly displaced from said neutral surface by an angle not less than the angle of rotation of said shaft required to cause said arm on said rock shaft to move said shift rails to gear engaging position, said arm being arranged to clear said notches in said shift rails while said lockup surfaces on said cam are rotating across said push rod, detents formed on said cam on the opposite sides of said lockup surfaces from said neutral surface, a second neutral surface formed on said cam, a follower arranged to engage said second neutral surface when said push rod is engaged by said first neutral surface, means connecting said follower to said means for accelerating said motor, and speedup surfaces formed on said cam on each side of said second neutral surface and angularly displaced therefrom by an angle slightly less than the angular displacement of said lockup surfaces from said first neutral surface.



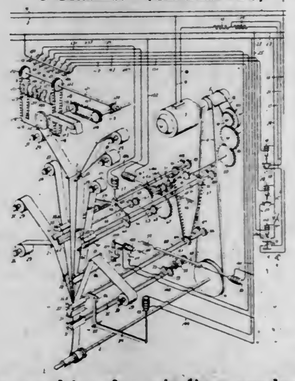
2,328,520

CONDENSER WINDING MACHINE

Clifford S. West, Adams, Mass., assignor to General Electric Company, a corporation of New York

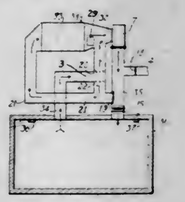
Application May 28, 1940, Serial No. 337,615

8 Claims. (Cl. 242—56)



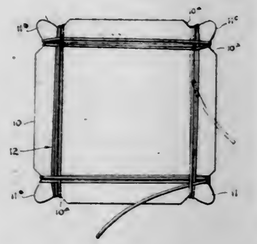
3. In a machine for winding condensers having provisions for feeding strips of material along spaced paths to winding means, a tap strap ejector arranged between adjacent paths for holding a tap strap in a position such that the length of the tap strap is transverse to said paths, and means for ejecting the tap strap transverse to its length.

2,328,521
UNIT AIR CONDITIONING SYSTEM
Robert A. Wittman, Chicago, Ill., assignor to Chicago By-Products Corporation, a corporation of Illinois
Application December 9, 1939, Serial No. 308,355
9 Claims. (Cl. 183—4.1)



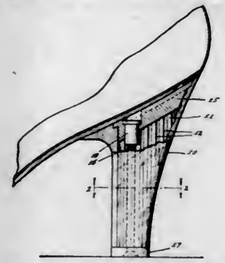
1. In combination, a body of adsorbent for dehumidification of a room, fluid impelling means adapted to be continuously driven, a duct leading from the room to said body and through said impelling means, a bypass duct around said body, a delivery duct from the impelling means to the room, a room humidistat and means controlled thereby for controlling the bypass to regulate the rate of dehumidification effected by the body, a valved bypass from the delivery duct of the impelling means to the intake side of the body, control means responsive to the loaded condition of the body for causing operation of the valve of the bypass to provide a substantially closed fluid circuit which includes said impelling means, said body and said valved bypass, and heating means disposed in said closed circuit and governed by said control means to heat the fluid in said substantially closed circuit.

2,328,522
RUBBER BAND DISPENSER
Paul A. Yocum, Barberton, Ohio
Application November 18, 1941, Serial No. 419,555
6 Claims. (Cl. 206—46)



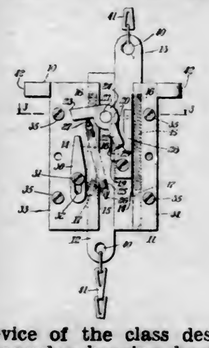
1. A rubber band dispenser, comprising a body having a peripheral edge defining a closed figure and having three or more peripheral protuberances extending outwardly of said edge, and rubber bands stretched over adjacent pairs of said protuberances in a progressive series around the periphery of said body adjacent protuberances being spaced so that the bands are held stretched over the same, each rubber band of said series between the first and the last having one end thereof engaging through the next preceding band of the series and over its respective protuberance, the last band in said series also engaging through the next preceding band of the series but having its other end out of engagement with a protuberance.

2,328,523
SHOE HEEL
Charles A. Bauer, Newburg, Ind., assignor to The Cardinal Corporation, Evansville, Ind., a corporation of Indiana
Application July 24, 1940, Serial No. 347,103
6 Claims. (Cl. 36—34)



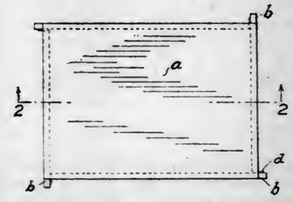
1. In a shoe-heel, a hollow body portion having an open upper end adapted for attachment to a shoe and an open lower end adapted for attachment to a lift, said body portion being formed of molded transparent plastic with its interior conforming generally to the shape of the exterior whereby the walls of the body portion will be of approximately uniform thickness throughout substantially the entire height thereof, the inner surface of said body portion being provided with design-forming recesses and a coating of opaque material applied to the inner surface of the body portion and visible through the walls thereof.

2,328,524
SAFETY DEVICE
Rudolph Becker, North Plainfield, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application March 25, 1942, Serial No. 436,088
1 Claim. (Cl. 192—129)



A safety device of the class described, comprising a rectangular housing having a single bearing channel disposed longitudinally thereof, a pair of parallel reciprocatory members mounted in sliding contact with each other within said bearing channel, each of said reciprocatory members projecting beyond an end portion of said housing and being provided with a recess within the side of the member opposite to that side which is in contact with the other member, a pair of parallel coil springs each mounted within the recess of and engaging one of said reciprocatory members, a latching means having two extending fingers and being pivotally mounted on one of said reciprocatory members, a latch spring engaging said latching means to force the same about its pivotal point, an abutment member in the form of a curved shoulder mounted on the other of said reciprocatory members and being adapted to be engaged by one of said extending fingers so that said reciprocating members may be moved in unison during a portion of their reciprocatory movements in opposition to the action of said springs, a trip-member having an elongated aperture formed lohgitudinally therein, a screw received within said aperture and threaded into said housing to adjustably secure said trip-member thereto, said trip-member being adapted for engaging said latch means at a predetermined point thereby to disengage the same from said abutment member, and a cover-plate removably secured to said housing and disposed so as to confine said reciprocatory members within said channel and said coil springs within the respective recesses.

2,328,525
METHOD OF PREPARING SHEETS
Charles B. Egolf, Philadelphia, Pa., assignor to Röhm & Haas Company, Philadelphia, Pa.
Application August 23, 1941, Serial No. 408,035
3 Claims. (Cl. 18—58)



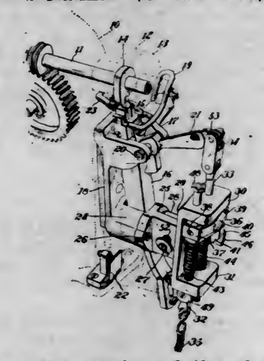
1. The process of manufacturing sheets of polymeric material which comprises forming a cell of two sheets of rigid material spaced from each other about their perimeters by spacers held in fluid-tight engagement between said two sheets, filling the space between the two sheets with polymerizable material capable of forming a rigid polymer, causing polymerization of said material to take place until a thick viscous liquid to gel-like mass is formed, removing the spacers from between the sheets forming the cell walls and continuing polymerization until a rigid sheet of polymer is formed, cooling the cell and removing the polymerized sheet therefrom.

2,328,526
JUICE EXTRACTOR
Don E. Grove, West Los Angeles, and Jackson D. Comstock, Los Angeles, Calif., assignors to Hollywood Liquefier Corporation, Los Angeles, Calif., a corporation of California
Application April 1, 1941, Serial No. 386,238
4 Claims. (Cl. 146—124)



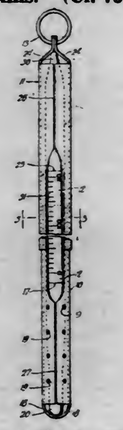
1. In cutter construction for juice extractors having a container, a cutter positioned within the container, and a motor for driving said cutter; said cutter comprising radial blades arranged in four diametric pairs, each blade having a sharp sweep-back cutting edge, all blades being tapered in form to a point at the tip thereof, and each diametric pair of blades differing in length from the other pairs of blades.

2,328,527
SAFETY DEVICE FOR SEWING MACHINES
Michael McCann, Ozone Park, N. Y., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application March 31, 1942, Serial No. 436,971
2 Claims. (Cl. 192—139)



1. In a safety device of the class described, comprising, a bracket, a first and a second rod disposed in parallelism with each other and mounted for endwise movement in said bracket, a pair of coil springs disposed within said bracket, each of said coil springs surrounding a portion of and engaging a respective one of said first and second rods to spring bias said rods in the same direction, an abutment member mounted upon said second rod, a trip-member carried by said bracket, and a latch-supporting block rigidly mounted upon said first rod; the improvement which consists in the provision of a bifurcated latch member pivotally engaging said first rod in spaced positions and surrounding said latch-supporting means, said member being shiftable about the longitudinal axis of said first rod, and a leaf spring having one end secured upon said member and the other end thereof engaging said latch-supporting block to spring bias said member against said second rod and in engagement with said abutment member.

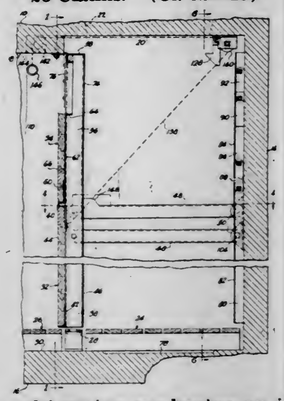
2,328,528
THERMOMETER ARMOR
John Loba McConnell, Evanston, Ill., assignor to Central Scientific Co., a corporation of Illinois
Application November 28, 1941, Serial No. 420,753
11 Claims. (Cl. 73—374)



6. For use with a thermometer, thermometer

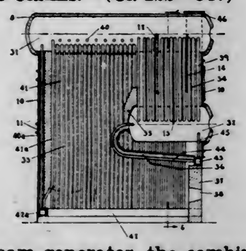
armor adjustable in length and comprising inner and outer telescoping tubes, each tube being open at one end and at least partially closed at the other end to prevent the removal of a thermometer therefrom except through the open end, the inner tube having a longitudinal slot extending to its open end, and the outer tube having a longitudinal slot with lips along its edges projecting into the slot in the inner tube to prevent rotation of the tubes relative to each other, the slots in the two tubes cooperating to render visible all of the graduations on the thermometer, the combined lengths of the slots being adjustable in proportion to the adjustability of the telescoping tubes.

2,328,529
CONVERTIBLE ICE BUNKER FOR REFRIGERATOR CARS
Arthur F. O'Connor, Chicago, Ill., assignor to Union Asbestos & Rubber Company, Chicago, Ill., a corporation of Illinois
Application November 14, 1942, Serial No. 465,552
23 Claims. (Cl. 62—19)



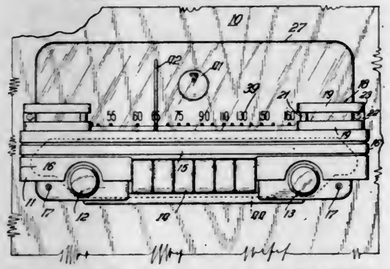
1. In a refrigerator car having an ice bunker at an end thereof separated from an adjacent compartment by a bulkhead including an upper section swingable to a stored position adjacent the car top wall and a lower section movable to a stored position adjacent the car end wall; said upper section and said lower section having wall portions in substantial coplanar vertical alignment forming an end wall for said compartment.

2,328,530
STEAM GENERATOR
Nils Gustave Sandstrom, Erie, Pa., assignor to Erie City Iron Works, Erie, Pa., a corporation of Pennsylvania
Application December 19, 1939, Serial No. 309,996
8 Claims. (Cl. 122—347)
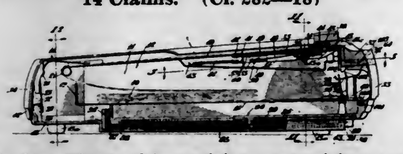


1. In a steam generator, the combination of a furnace having side walls; an upper steam and water drum extending longitudinally and horizontally along the top of the furnace; a lower water drum shorter than the upper drum providing furnace space under the upper drum and at the end of the lower drum; circulating tubes connecting the drums; and headers along the sides of the furnace wall, each side having an inner and outer set of circulating tubes connecting the headers and the water space of the upper drum, the inner tubes cooling the walls, the outer set of circulating tubes being embedded in the wall.

2,328,531
INDICATING MEANS
Harold C. Mattes and Louis J. Wronke, Chicago, Ill., assignors to Belmont Radio Corporation, Chicago, Ill., a corporation of Illinois
Application July 24, 1941, Serial No. 403,892
6 Claims. (Cl. 116—124.1)



1. In radio receiving apparatus having a cabinet with a control panel, an escutcheon plate mounted on said panel longitudinally thereof, a vertically extending transparent member positioned longitudinally of said control panel and supported at the bottom thereof on said escutcheon plate, said member having a dial portion extending upwardly from said plate in a spaced relation with said panel and free of said panel at the marginal edges thereof, said dial portion having band wave indicia arranged longitudinally thereof, an indicator for said dial portion spaced therefrom, means carried on the back of said escutcheon plate and within the peripheral confines thereof for supporting said indicator for movement between said dial member and panel and longitudinally of said dial face, with said panel constituting the sole background for said dial portion and indicator, and being visible through said dial portion and outwardly from the marginal edges thereof.

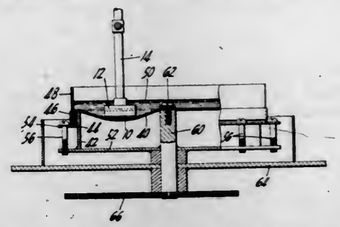
2,328,532
AUTOGRAPHIC REGISTER
Harry J. Waechter, Mount Healthy, Ohio, assignor to Paul Benninghofen and Eleanor C. Diesbach, Hamilton, Ohio, as trustees
Application March 3, 1942, Serial No. 433,200
14 Claims. (Cl. 282—18)



2. An autographic register, comprising a casing including a base section and a cover section, an operating unit for feeding paper mounted within said casing and fixed to the base section thereof, said base section including longitudinally disposed upwardly extended ribs, said operating unit fastened upon said ribs, whereby its bottom constitutes the top of a chamber formed between the ribs of the base section, a drawer slidably mounted within said chamber formed by said operating unit and extending to the front end of the cover section for movement into and out of the front end of the cover section, a longitudinal depression formed in the base of the base section, a spring contained in this longitudinal depression and having one end fastened to the drawer and the other end fastened to the forward end of the base section for normally urging the drawer outwardly, paper feeding and registering mechanism mounted in the operating unit, and a trip mechanism operated by said last-named mechanism for releasing the drawer when the last-named mechanism is operated for feeding the paper.

2,328,533
GLASS ARTICLE AND METHOD OF MANUFACTURE THEREOF
Victor Walker, Fort Erie, Ontario, Canada, assignor to AlnCin, Inc., Buffalo, N. Y.
Application December 26, 1941, Serial No. 424,382
11 Claims. (Cl. 41—42)

1. An apparatus for processing curved surface portions of glass articles, comprising elastic diaphragm means and work piece carrying spindle means arranged to mount a work piece and to press the latter into slide bearing contact relation against said diaphragm so as to elastically deform the latter into uniform bearing contact relation against all adjacent surface portions of said work piece, and means for simultaneously rotating said spindle and oscillating the latter so



as to slidably move said work piece relative to said diaphragm, and means for supplying the work piece contacting surface portion of said diaphragm with a glass-reactive acid solution.

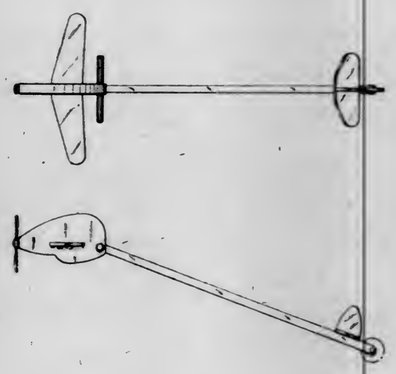
2,328,534
RUBBER DERIVATIVE PRODUCT
Clarence M. Carson, Cuyahoga Falls, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware
No Drawing. Application December 30, 1939, Serial No. 311,945
2 Claims. (Cl. 260—34)

1. A packaging material coated with a composition comprising a cyclized rubber plasticized with para benzyl amino phenol.

DESIGNS

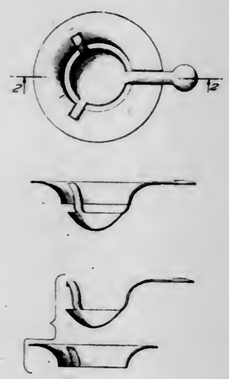
AUGUST 31, 1943

136,250
DESIGN FOR A RIDING STICK TOY
Ermon C. Bartholomew, St. Louis, Mo.
Application June 24, 1943, Serial No. 110,513
Term of patent 3½ years



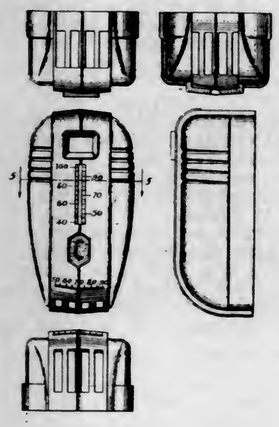
The ornamental design for a riding stick toy, as shown.

136,251
DESIGN FOR AN EGG SEPARATOR
Joanne Clark, Los Angeles, Calif.
Application May 29, 1943, Serial No. 110,322
Term of patent 7 years



The ornamental design for an egg separator, substantially as shown.

136,252
DESIGN FOR A THERMOSTAT CASING
George W. Crise, Columbus, Ohio, assignor to Crise Electric Manufacturing Company, Columbus, Ohio
Application March 26, 1943, Serial No. 109,819
Term of patent 14 years



The ornamental design for a thermostat casing, as shown.

136,253
DESIGN FOR AN EMBOSSED LEATHER
Leonard I Friedman, New York, N. Y.
Application July 10, 1943, Serial No. 110,643
Term of patent 7 years



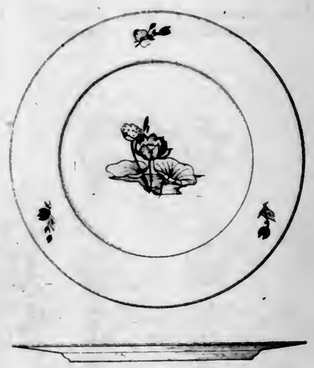
The ornamental design for an embossed leather, substantially as shown.

136,254
DESIGN FOR AN EMBOSSED LEATHER
Leonard I Friedman, New York, N. Y.
Application July 10, 1943, Serial No. 110,644
Term of patent 7 years



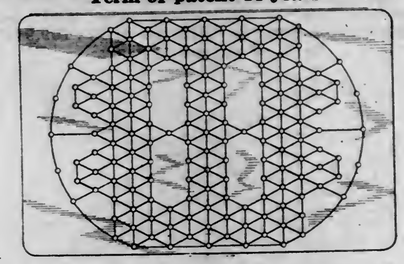
The ornamental design of an embossed leather, substantially as shown.

136,255
DESIGN FOR A PLATE OR THE LIKE
Marcelline Gougler, Chicago, Ill., assignor to Castleton China Incorporated, New York, N. Y., a corporation of New York
Application July 7, 1943, Serial No. 110,621
Term of patent 14 years



The ornamental design for a plate or the like, as shown.

136,256
DESIGN FOR A GAME BOARD
John R. Huckelbridge, Chualar, Calif.
Application June 1, 1943, Serial No. 110,339
Term of patent 14 years



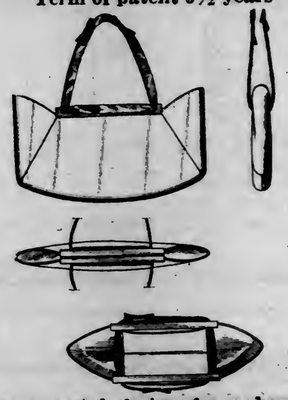
The ornamental design for a game board, as shown.

136,257
DESIGN FOR A SERVING STAND
Harry Lachman, Beverly Hills, Calif.
Application May 22, 1943, Serial No. 110,264
Term of patent 7 years



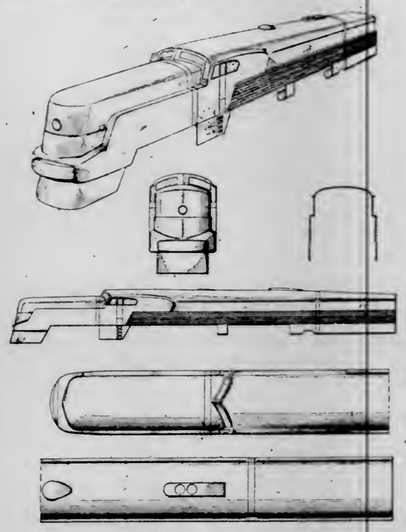
The ornamental design for a serving stand, as shown.

136,258
DESIGN FOR A HANDBAG
Joseph A. Lichter, Norwalk, Conn.
Application June 25, 1943, Serial No. 110,527
Term of patent 3½ years



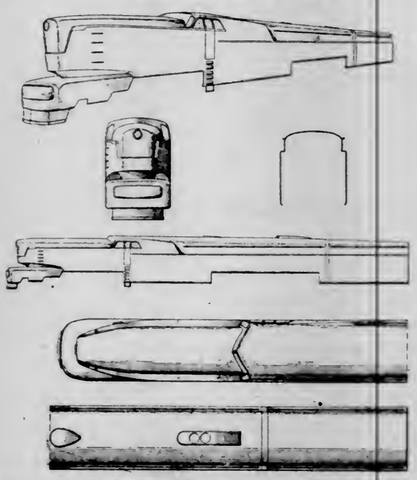
The ornamental design for a handbag, substantially as shown, and described.

136,259
DESIGN FOR A LOCOMOTIVE BODY
Raymond G. F. Loewy, Sands Point, N. Y., assignor to The Pennsylvania Railroad Company, Philadelphia, Pa., a corporation of Pennsylvania
Application April 10, 1943, Serial No. 109,947
Term of patent 14 years



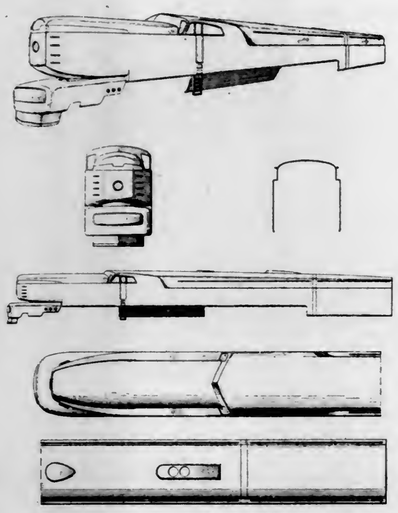
The ornamental design for a locomotive body, as shown and described.

136,260
DESIGN FOR A LOCOMOTIVE BODY
Raymond G. F. Loewy, Sands Point, N. Y., assignor to The Pennsylvania Railroad Company, Philadelphia, Pa., a corporation of Pennsylvania
Application April 10, 1943, Serial No. 109,948
Term of patent 14 years



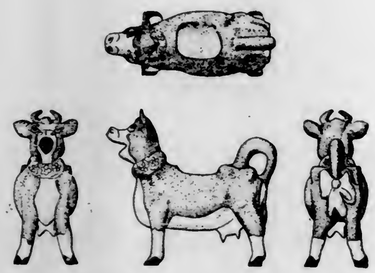
The ornamental design for a locomotive body, as shown and described.

136,261
DESIGN FOR A LOCOMOTIVE BODY
Raymond G. F. Loewy, Sands Point, N. Y., assignor to The Pennsylvania Railroad Company, Philadelphia, Pa., a corporation of Pennsylvania
Application April 10, 1943, Serial No. 109,949
Term of patent 14 years



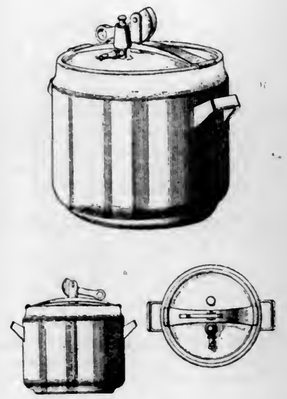
The ornamental design for a locomotive body, as shown and described.

136,262
DESIGN FOR A PITCHER OR SIMILAR ARTICLE
Walter Oehrle, Pelham, N. Y., assignor to The Borden Company, New York, N. Y., a corporation of New Jersey
Application January 7, 1943, Serial No. 109,218
Term of patent 14 years



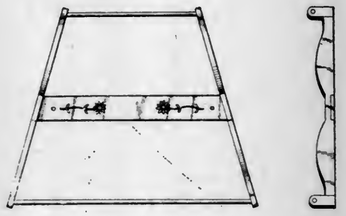
The ornamental design for a pitcher or similar article, as shown.

136,263
DESIGN FOR A PRESSURE COOKER
Alfred Vischer, Jr., Park Ridge, Ill., assignor to Vischer Products Company, Chicago, Ill., a corporation of Illinois
Application July 5, 1943, Serial No. 110,608
Term of patent 14 years



The ornamental design for a pressure cooker, as shown.

136,264
DESIGN FOR A COMBINED TOWEL AND WASH CLOTH RACK OR SIMILAR ARTICLE
Tennie L. Williams, Epworth, Ga.
Application May 27, 1943, Serial No. 110,306
Term of patent 7 years



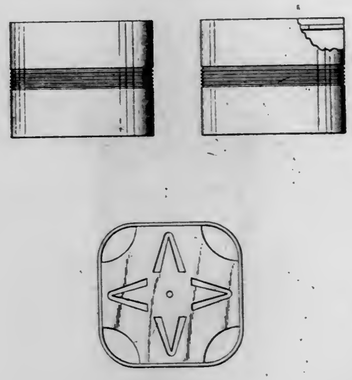
The ornamental design for a combined towel and wash cloth rack or similar article, as shown.

136,265
DESIGN FOR A BADGE OR THE LIKE
William L. Greene, Takoma Park, Md., assignor to Engineering and Research Corporation, Riverdale, Md., a corporation of Maryland
Application December 22, 1942, Serial No. 109,106
Term of patent 14 years



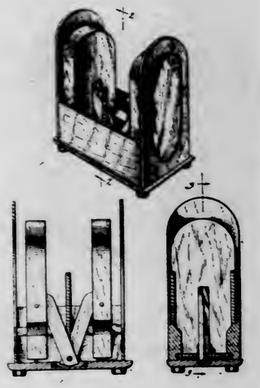
The ornamental design for a badge or the like, as shown.

136,266
DESIGN FOR A LAMP SHADE
William Hansen, Chicago, Ill.
Application May 15, 1942, Serial No. 106,912
Term of patent 3½ years



The ornamental design for a lamp shade, substantially as shown and described.

136,267
DESIGN FOR A DISPENSER FOR PAPER NAPKINS
Byron T. Hoffmaster, Menasha, Wis., assignor to Marathon Paper Mills Company, Rothschild, Wis., a corporation of Wisconsin
Application July 2, 1943, Serial No. 110,583
Term of patent 14 years



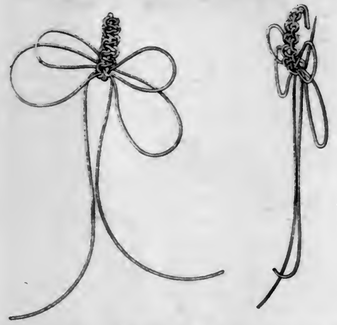
The ornamental design for a dispenser for paper napkins, as shown.

136,268
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Elsa Maria Kafka, New York, N. Y.
Original application December 9, 1941, Serial No. 104,550. Divided and this application January 21, 1943, Serial No. 109,322
Term of patent 7 years



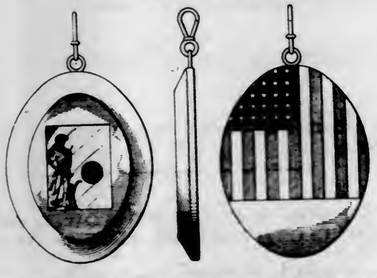
The ornamental design for a brooch or similar article, as shown.

136,269
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Elsa Maria Kafka, New York, N. Y.
Application December 9, 1941, Serial No. 104,550
Term of patent 7 years



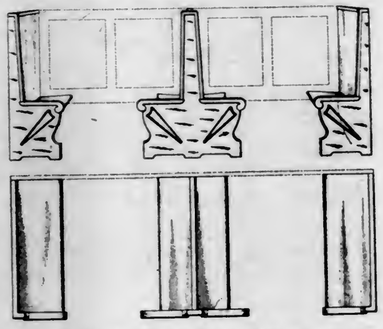
The ornamental design for a brooch or similar article, as shown.

136,270
DESIGN FOR A LOCKET
Thomas H. Massey, Smithfield, Va.
Application January 19, 1942, Serial No. 105,312
Term of patent 3½ years



The ornamental design for a locket, as shown.

136,271
DESIGN FOR A DINING BOOTH UNIT
Frank Mastrangelo, Fitchburg, Mass.
Application January 26, 1942, Serial No. 105,430
Term of patent 7 years



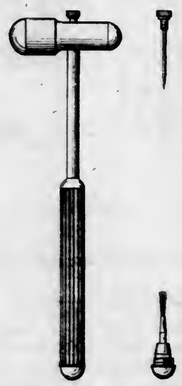
The ornamental design for a dining booth unit, as shown and described.

136,272
DESIGN FOR A PRAYER CROSS
John A. Pryor, Bradley Beach, N. J.
Application June 29, 1943, Serial No. 110,564
Term of patent 14 years



The ornamental design for a prayer cross, as shown.

136,273
DESIGN FOR A COMBINED NEUROLOGICAL HAMMER, BRUSH, AND NEEDLE
Julius Brandenburg, New York, N. Y.
Application June 9, 1943, Serial No. 110,419
Term of patent 7 years



The ornamental design for a combined neurological hammer, brush, and needle, substantially as shown.

136,274
DESIGN FOR A DRESS
Bonnie Cashin, New York, N. Y.
Application August 7, 1943, Serial No. 110,865
Term of patent 3½ years



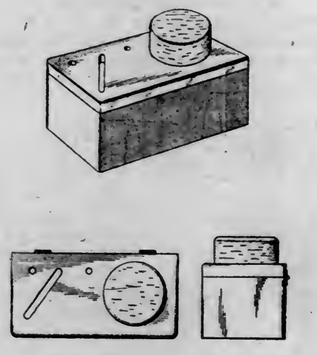
The ornamental design for a dress, substantially as shown.

136,275
DESIGN FOR A DRESS
Bonnie Cashin, New York, N. Y.
Application August 7, 1943, Serial No. 110,867
Term of patent 3½ years



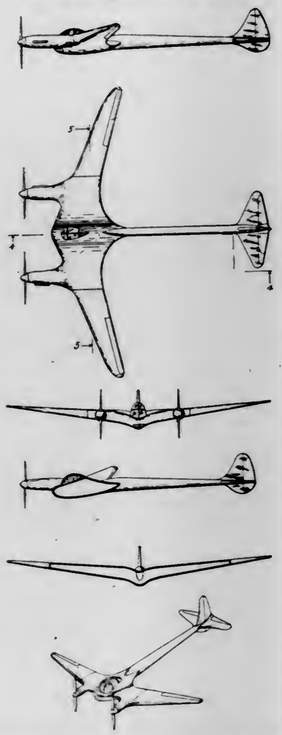
The ornamental design for a dress, substantially as shown.

136,276
DESIGN FOR A NEEDLE WORKER'S UTILITY HOLDER
Minnie Federman Corder, New York, N. Y.
Application March 18, 1943, Serial No. 109,777
Term of patent 14 years



The ornamental design for a needle worker's utility holder, as shown.

136,277
DESIGN FOR AN AIRPLANE
Donald B. Dailey, Santa Clara County, Calif., and Robert Farrington, Auburn, N. Y.
Application November 28, 1942, Serial No. 108,904
Term of patent 3½ years



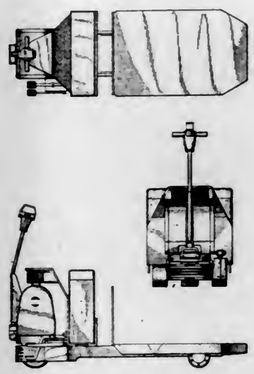
The ornamental design for an airplane, as shown.

136,278
DESIGN FOR A DRESS
Fred Greenberg, New York, N. Y.
Application August 7, 1943, Serial No. 110,861
Term of patent 3½ years



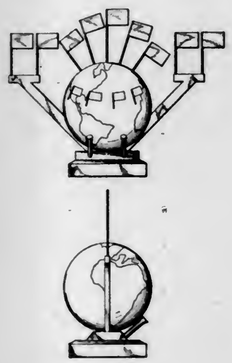
The ornamental design for a dress, substantially as shown.

136,279
DESIGN FOR AN INDUSTRIAL TRUCK
Glen Holland, Bronxville, N. Y., and Herbert J. Framhein, Chicago, Ill., assignors to The Yale & Towne Manufacturing Company, Stamford, Conn., a corporation of Connecticut
Application April 18, 1942, Serial No. 106,622
Term of patent 14 years



The ornamental design for an industrial truck, as shown.

136,280
DESIGN FOR A PEN HOLDING STAND
William Tate Holland, Marietta, Ga.
Application November 28, 1942, Serial No. 108,899
Term of patent 3½ years



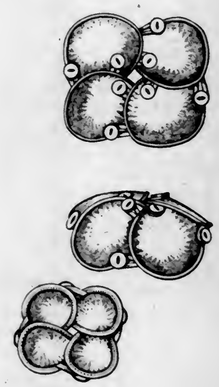
The ornamental design for a pen holding stand, as shown.

136,281
DESIGN FOR A DRESS
Nathan Kaback, New York, N. Y.
Application August 7, 1943, Serial No. 110,862
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

136,282
DESIGN FOR A HAT
Samuel Lish, Woodmere, N. Y.
Application June 3, 1943, Serial No. 110,351
Term of patent 3½ years



The ornamental design for a hat, substantially as shown.

136,283
DESIGN FOR A CAP
Samuel Lish, Woodmere, N. Y.
Application June 3, 1943, Serial No. 110,353
Term of patent 3½ years



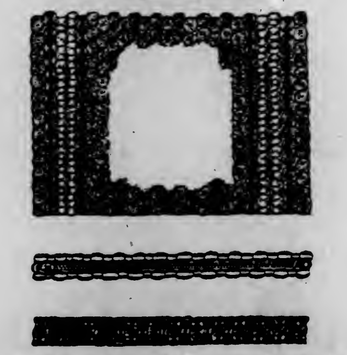
The ornamental design for a cap, substantially as shown.

136,284
DESIGN FOR A HAT
Samuel Lish, Woodmere, N. Y.
Application June 3, 1943, Serial No. 110,354
Term of patent 3½ years



The ornamental design for a hat, substantially as shown.

136,285
DESIGN FOR A HANDBAG
Ariston Matias, Honolulu, Territory of Hawaii
Application June 28, 1943, Serial No. 110,546
Term of patent 14 years



The ornamental design for a handbag, as shown and described.

136,286
DESIGN FOR A DRESS
Marion McCoy, St. Louis, Mo.
Application August 4, 1943, Serial No. 110,826
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

136,287
DESIGN FOR A DRESS
Marion McCoy, St. Louis, Mo.
Application August 4, 1943, Serial No. 110,827
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

136,288
DESIGN FOR A DRESS
Marion McCoy, St. Louis, Mo.
Application August 4, 1943, Serial No. 110,828
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

136,289
DESIGN FOR A DRESS
Marion McCoy, St. Louis, Mo.
Application August 4, 1943, Serial No. 110,829
Term of patent 3½ years



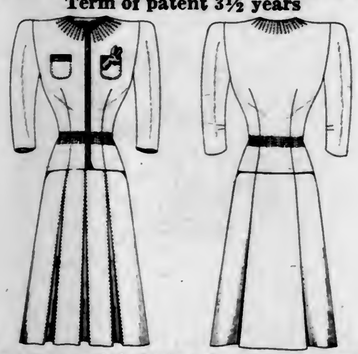
The ornamental design for a dress, substantially as shown.

136,290
DESIGN FOR A DRESS
Marion McCoy, St. Louis, Mo.
Application August 4, 1943, Serial No. 110,830
Term of patent 3½ years



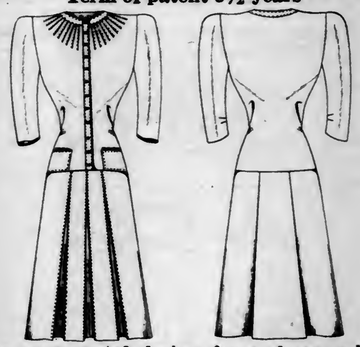
The ornamental design for a dress, substantially as shown.

136,291
DESIGN FOR A DRESS
Marion McCoy, St. Louis, Mo.
Application August 4, 1943, Serial No. 110,831
Term of patent 3½ years



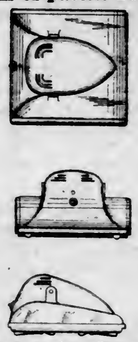
The ornamental design for a dress, substantially as shown.

136,292
DESIGN FOR A DRESS
Marion McCoy, St. Louis, Mo.
Application August 4, 1943, Serial No. 110,832
Term of patent 3½ years



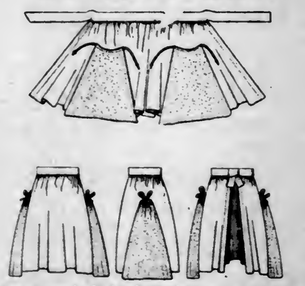
The ornamental design for a dress, substantially as shown.

136,293
DESIGN FOR A CASING FOR A CARPET SWEEPER OR SIMILAR ARTICLE
Ira June Owen, Laguna Beach, Calif., assignor of one-third to Julius H. Kiel and one-third to Robert B. Kiel, both of Wilmette, Ill.
Application April 21, 1942, Serial No. 106,956
Term of patent 14 years



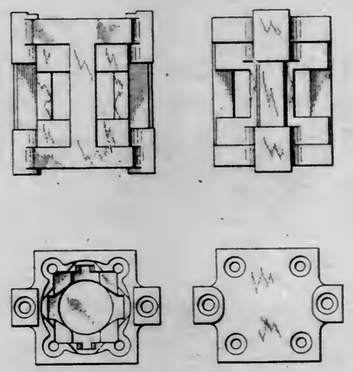
The ornamental design for a casing for a carpet sweeper or similar article, as shown.

136,294
DESIGN FOR AN APRON
Helene Pons, New York, N. Y.
Application June 9, 1943, Serial No. 110,412
Term of patent 3½ years



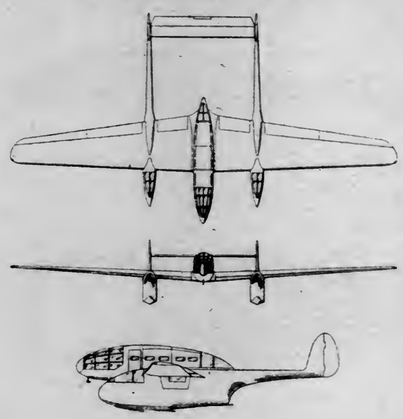
The ornamental design for an apron, substantially as shown.

136,295
DESIGN FOR A ONE-PIECE MOLDED INSULATION SWITCH BASE
Clyde F. Robbins, Milwaukee, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application November 21, 1942, Serial No. 108,831
Term of patent 14 years



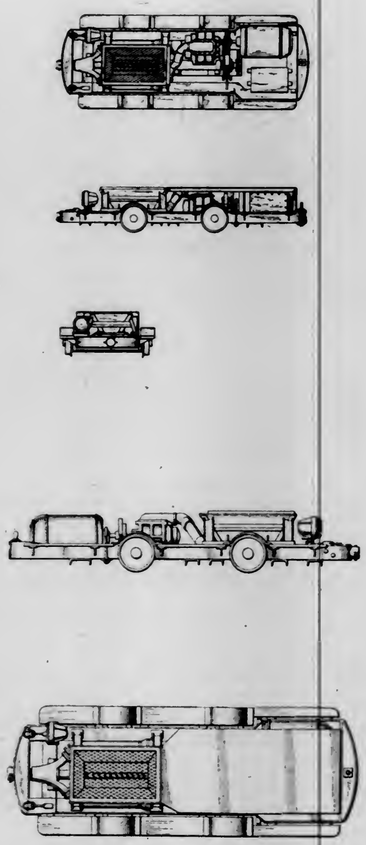
The ornamental design for a one-piece molded insulation switch base, as shown.

136,296
DESIGN FOR AN AIRPLANE GLIDER
Bernard Sznycer, Gwynnedd Valley, Pa.
Application October 3, 1941, Serial No. 103,627
Term of patent 7 years



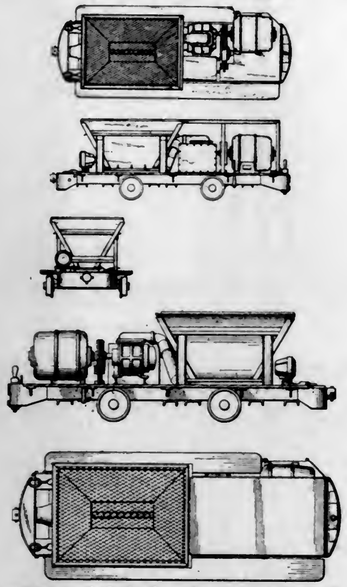
The ornamental design for an airplane glider, substantially as shown.

136,297
DESIGN FOR A MINE ROCK DUSTING APPARATUS
Benjamin H. Van Vactor, Verona, Pa., assignor to Mine Safety Appliances Company, Pittsburgh, Pa.
Application August 20, 1941, Serial No. 102,960
Term of patent 14 years



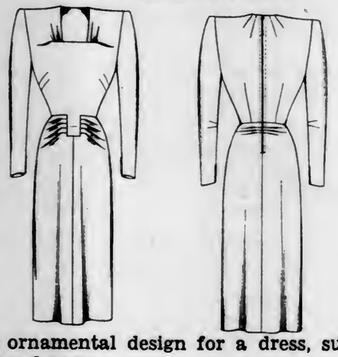
The ornamental design for a mine rock dusting apparatus, substantially as shown.

136,298
DESIGN FOR A MINE ROCK DUSTING APPARATUS
Benjamin H. Van Vactor, Verona, Pa., assignor to Mine Safety Appliances Company, Pittsburgh, Pa.
Application August 20, 1941, Serial No. 102,961
Term of patent 14 years



The ornamental design for a mine rock dusting apparatus, substantially as shown.

136,299
DESIGN FOR A DRESS
Samuel Zahn, New York, N. Y.
Application August 7, 1943, Serial No. 110,863
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Allen-Crowl Co. (See Crowl, Denton C.)
Aluminum Forgings, Inc., Erie, Pa. Forgings made of aluminum and other metals and alloys thereof. Serial No. 461,477; Aug. 31. Class 14.
Apollo Knitting Mills, New York, N. Y. Ladies' and misses' sweaters, knitted suits, knitted jackets, etc. Serial No. 461,356; Aug. 31. Class 39.
Artag Engineering Works. (See Weis, Arthur.)
Artcraft Sportwear Company, New York, N. Y. Shoulder straps, ribbons bows, and rosettes. Serial No. 455,551; Aug. 31. Class 40.
Baker Perkins Inc., Saginaw, Mich. Flour handling machinery, dough handling machinery, etc. Serial No. 461,454; Aug. 31. Class 23.
Bay State Milling Co., Winona, Minn. Wheat flour. Serial No. 459,158; Aug. 31. Class 46.
Beautykote Corporation, Newark, N. J. Ready-mixed paints, paint enamels, and varnishes. Serial No. 459,560; Aug. 31. Class 16.
Beir, Arthur & Co., Inc., New York, N. Y. Cotton piece goods. Serial No. 461,645; Aug. 31. Class 42.
Bessire & Company, Inc., Indianapolis, Ind., Louisville, Ky., Columbus, Ohio, Atlanta, Ga., Memphis, Tenn., and Richmond, Va. Dairy, bakery, and confectioners' machinery and goods. Serial No. 454,393; Aug. 31. Class 21.
Bessire & Company, Inc., Indianapolis, Ind., Louisville, Ky., Columbus, Ohio, Memphis, Tenn., Atlanta, Ga., and Richmond, Va. Dairy, bakery, and confectioners' machinery and goods. Serial No. 454,395; Aug. 31. Class 23.
Bessire & Company, Inc., Indianapolis, Ind., Louisville, Ky., Columbus, Ohio, Atlanta, Ga., Memphis, Tenn., and Richmond, Va. Dry and sulphuric and muriatic acids, ammonia, corrosive sublimate tablets, etc. Serial No. 454,398; Aug. 31. Class 6.
Betmar Hats, Inc., New York, N. Y. Ladies' and children's hats. Serial No. 461,087; Aug. 31. Class 39.
Billings, E. G., doing business as The Magic Food Products Co., St. Louis, Mo. Wheat product. Serial No. 461,646; Aug. 31. Class 46.
Blackhawk Hotels Company, Davenport, Iowa. Whiskies. Serial No. 461,753; Aug. 31. Class 49.
Botany Worsted Mills, Passaic, N. J. Hand knitting yarns. Serial No. 461,584; Aug. 31. Class 43.
Brace-Mueller-Huntley, Incorporated, Buffalo, N. Y. Steel. Serial No. 461,159; Aug. 31. Class 14.
Busby Company, The, Cleveland, Ohio. Cheese cakes. Serial No. 443,834; Aug. 31. Class 46.
Buster, D. H., Chemical Company, Kansas City, Mo. Liquid cleanser. Serial No. 453,610; Aug. 31. Class 4.
California Wine Sales, Inc., Lodi, Calif. Wine. Serial No. 461,171; Aug. 31. Class 47.
Carborundum Company, The, Niagara Falls, N. Y. Sheet material coated with and/or including abrasive grains. Serial No. 461,160; Aug. 31. Class 4.
Ceapana Chemical Co. (See Lakaiser, Harry R.)
Certi-Vite Company, The, Los Angeles, Calif. Concentrated vitamins. Serial No. 459,147; Aug. 31. Class 6.
Chemical Center Corporation, New York, N. Y. Soaps. Serial No. 461,865; Aug. 31. Class 4.
Cheney, William W., Pittsfield, Mass. Engravers' wax. Serial No. 461,587; Aug. 31. Class 15.
Chipman Lacrosse Hosiery Mills Company, East Flat Rock, N. C. Ladies', misses' and children's anklets. Serial No. 460,565; Aug. 31. Class 39.
Cinderella Foods, Dawson, Ga. Peanut butter. Serial No. 461,944; Aug. 31. Class 46.
Citro-Nesia Company, Inc., The, Chicago, Ill. Aperient medicinal preparations. Serial No. 460,596; Aug. 31. Class 6.
Crowl, Denton C., doing business as Allen-Crowl Co., Toledo, Ohio. Pharmaceutical preparations. Serial No. 461,191; Aug. 31. Class 6.
Custom Undergarment Corporation, New York, N. Y. Underwear for women and girls. Serial No. 458,832; Aug. 31. Class 39.
Decoursey, Florence J., doing business as Fyre-Lite Products, Detroit, Mich. Chemical preparations for use in coloring flames in fireplaces. Serial No. 460,174; Aug. 31. Class 6.
De Pinna, A., Co., Inc., New York, N. Y. Officers' uniforms and hats for men and women. Serial No. 457,638; Aug. 31. Class 39.
Diebold Safef & Lock Company, Canton, Ohio. Filing safes, skeleton safes, fireproof safes, etc. Serial No. 459,652; Aug. 31. Class 25.
Diebold Safe & Lock Company, Canton, Ohio. Filing safes, fireproof safes, and vault doors. Serial No. 459,653; Aug. 31. Class 25.
Dodson, Doris, Garment Company. (See Forest City Manufacturing Company.)
Douglas Aircraft Company, Inc., Santa Monica, Calif. Books, pamphlets, booklets, etc. Serial No. 449,547; Aug. 31. Class 38.
Energen Foods Co., Limited, London, England. Cereal food. Serial No. 461,483; Aug. 31. Class 46.
Eutectic Welding Alloys Company. (See Wasserman Rene.)
Fleischer, R. T., Nogales, Ariz. Fresh vegetables. Serial Nos. 459,808–9; Aug. 31. Class 46.
Forest City Manufacturing Company, doing business as Doris Dodson Garment Company, St. Louis, Mo. Maternity dresses. Serial No. 455,652; Aug. 31. Class 39.
Fyre-Lite Products. (See Decoursey, Florence J.)
G. M. P. Corporation, Milwaukee, Wis. Polishing wool. Serial No. 460,598; Aug. 31. Class 4.
General Dyestuff Corporation, New York, N. Y. Dyestuffs and industrial chemicals. Serial No. 460,424; Aug. 30. Class 6.
Glascote Products, Inc., Cleveland, Ohio. Industrial autoclaves, mechanical reactors, agitation apparatus, etc. Serial No. 456,598; Aug. 31. Class 23.
Gourland, Michel, doing business as Migou Cosmetics, New York, N. Y. Cosmetic skin lotion. Serial No. 461,112; Aug. 31. Class 6.
Hantover, Phil, Inc., Kansas City, Mo. Seasonings for sausages. Serial No. 452,165; Aug. 31. Class 46.
Heublein, G. F., & Bro., Hartford, Conn. Whiskey. Serial No. 455,158; Aug. 31. Class 49.
Iowa Canning Company, Vinton, Iowa. Canned vegetables. Serial No. 461,818; Aug. 31. Class 46.
Kalner, Sam, doing business as Well Made Doll & Toy Co., New York, N. Y. Toys. Serial No. 460,185; Aug. 31. Class 22.
Kemper Fabrics Co., Inc., New York, N. Y. Textile fabrics. Serial No. 461,660; Aug. 31. Class 42.
Keuffel & Esser Company, Hoboken, N. J. Light-sensitive reproduction papers and cloths. Serial No. 458,939; Aug. 31. Class 26.
Lander Co. Inc., The, New York, N. Y. Perfume. Serial Nos. 461,634–5; Aug. 31. Class 6.
Lukaiser, Harry R., doing business as Ceapana Chemical Co., New York, N. Y. Liquid preparation for use as a freshener. Serial No. 459,546; Aug. 31. Class 6.
Magic Food Products Co., The. (See Billings, E. G.)
Mallinson Fabrics Corporation, New York, N. Y. Piece goods. Serial No. 461,117; Aug. 31. Class 42.
McDonnell Aircraft Corporation, St. Louis, Mo. Composition material. Serial No. 461,257; Aug. 31. Class 50.
McKesson & Robbins, Incorporated, New York, N. Y. Monthly merchandising medium magazine. Serial No. 460,004; Aug. 31. Class 38.
Migou Cosmetics. (See Gourland, Michel.)
Minnesota Mining & Manufacturing Company, St. Paul, Minn. Coated abrasives. Serial No. 461,030; Aug. 31. Class 4.
Monarch Garment Co., The, New York, N. Y. Ladies' coats and suits. Serial No. 461,492; Aug. 31. Class 39.
Moore, John Hudson, Inc., New York, N. Y. Shaving soap contained in a container. Serial No. 460,706; Aug. 31. Class 4.
Morse, George H., Arlington, Va. Slide rule. Serial No. 460,603; Aug. 31. Class 26.
Munsingwear, Inc., Minneapolis, Minn. Women's night gowns and pajamas. Serial No. 460,157; Aug. 31. Class 39.
Palol Perfumed Products, Inc., Bloomfield, N. J. Sachet blocks. Serial No. 443,577; Aug. 31. Class 6.
Papazian Delmor Co. (See Papazian, Garabed S.)
Papazian, Garabed S., doing business as Papazian Delmor Co., West New Brighton, Staten Island, N. Y. Syrup. Serial No. 461,226; Aug. 31. Class 45.
Parke, Davis & Company, Detroit, Mich. Mineral-vitamin preparation. Serial No. 460,553; Aug. 31. Class 6.
Penn Worsted Company, Philadelphia, Pa. Yarns. Serial Nos. 461,567–8; Aug. 31. Class 43.
Pennsylvania Salt Manufacturing Company, The, Philadelphia, Pa. Lye. Serial No. 461,416; Aug. 31. Class 6.
Physicians & Hospitals Supply Company, Inc., doing business as Ulmer Pharmacal Company, Minneapolis, Minn. Medical preparation. Serial No. 458,573; Aug. 31. Class 6.
Plymouth Wholesale Dry Goods Corporation, New York, N. Y. Marquisette curtains. Serial No. 461,772; Aug. 31. Class 42.
Rebold, Rudolph, New York, N. Y. Hydrolysation product of proteins (amino acids). Serial No. 460,160; Aug. 31. Class 6.
Rogers Radio Tubes, Limited, Toronto, Ontario, Canada. Thermionic tubes. Serial No. 460,197; Aug. 31. Class 21.
Rohm & Haas Company, Philadelphia, Pa. Electrical insulating material. Serial No. 461,026; Aug. 31. Class 21.

S. M. A. Corporation, Chicago, Ill. Medicinal vitamin preparations. Serial No. 461,667; Aug. 31. Class 6.
Schering & Glatz, Inc., New York, N. Y. Hexamethylenetetramine or hexamethyleneamine (U. S. P.), etc. Serial No. 461,229; Aug. 31. Class 6.
Schneierson I., & Sons, Inc., New York, N. Y. Ladies' chemise, pajamas, dresses, etc. Serial No. 449,438; Aug. 31. Class 39.
Schuster, Murray L., doing business as United Sanitary Chemicals Company, Baltimore, Md. Cleaner. Serial No. 460,946; Aug. 31. Class 4.
Seggerman Nixon Corporation, New York, N. Y. Rum and gin. Serial No. 461,351; Aug. 31. Class 49.
Select Sportswear, Inc., New York, N. Y. Ladies' and misses' sweaters, jackets. Serial No. 461,391; Aug. 31. Class 39.
Shapiro, C. R., Los Angeles, Calif. Outer shirts. Serial No. 460,715; Aug. 31. Class 39.
Smith Tool and Engineering Co., Bucyrus, Ohio. Precision measuring equipment. Serial No. 460,585; Aug. 31. Class 26.
Spinnerin Yarn Co., Inc., New York, N. Y. Yarn. Serial No. 461,502; Aug. 31. Class 43.
Taylor, Charles H., Springfield, Mass. Game. Serial No. 461,724; Aug. 31. Class 22.
Tilton, Helen, Woodridge, N. J. Newspaper column. Serial No. 461,396; Aug. 31. Class 38.
Ulmer Pharmacal Company. (See Physicians & Hospitals Supply Company, Inc.)
United Gilsonite Laboratories, Scranton, Pa. Cleaning compound. Serial No. 459,449; Aug. 31. Class 4.
United Sanitary Chemicals Company. (See Schuster, Murray L.)
Victory Produce Co., Los Angeles, Calif. Fresh vegetables and fresh deciduous fruits. Serial No. 462,037; Aug. 31. Class 46.
Von Tuerk, Elvira, Greenwood Lake, N. Y. Chocolate coated candy. Serial No. 452,515; Aug. 31. Class 46.
Wachsberg Pickle Works, Bayonne & Hoboken, N. J. Dill pickles, sweet mixed pickles, sweet pickle rings, etc. Serial No. 461,581; Aug. 31. Class 46.
Wasserman, Rene, doing business as Eutectic Welding Alloys Company, New York, N. Y. Metallic welding, brazing, and soldering alloys, non-tacky cementing material, etc. Serial No. 459,956; Aug. 31. Class 14.
Weis, Arthur, doing business as Artag Engineering Works, Chicago, Ill. Dies, jigs, tool fixtures, etc. Serial No. 461,212; Aug. 31. Class 23.
Well Made Doll & Toy Co. (See Kalner, Sam.)
Westinghouse Air Brake Company, The, Borough of Wilmerding, Pa. Electrical apparatus, etc. Serial No. 457,666; Aug. 31. Class 21.
Wisconsin Foundry & Machine Company, Madison, Wis. Iron and semi-steel castings. Serial No. 460,642; Aug. 31. Class 14.
Wolf & Barse, Inc., New York, N. Y. Ladies' and misses' coats and suits. Serial No. 461,676; Aug. 31. Class 39.
York Street Flax Spinning Co. Limited, Belfast, Ireland. Linen piece goods. Serial No. 461,476; Aug. 31. Class 42.

LIST OF REGISTRANTS OF TRADE-MARKS

Aero Supply Mfg. Co. Inc., Corry, Pa. Steel washers, tube clamps, conduit clamps, etc. 403,049; Aug. 31; Serial No. 459,187; published June 1, 1943. Class 13.
Agricola Furnace Company, Inc., Gadsden, Ala. Coal burning stoves. 403,106; Aug. 31. Class 34.
Aktivin Corporation, The, New York, N. Y. Humectants. 403,062; Aug. 31; Serial No. 459,682; published June 22, 1943. Class 6.
Allied Chemical & Dye Corporation, New York, N. Y. Trade organ. 403,046; Aug. 31; Serial No. 459,157; published June 22, 1943. Class 38.
Allied Mills, Inc., Chicago, Ill. Poultry feed. 403,093; Aug. 31; Serial No. 460,206; published June 22, 1943. Class 46.
Alva Tape Mills. (See Michie, Andrew Y., & Sons Company.)
American Art Service, also doing business as Spector-Goodman Advertising, Chicago, Ill. Stationery. 403,045; Aug. 31; Serial No. 459,100; published June 22, 1943. Class 37.
American Platinum Works, to The American Platinum Works, Newark, N. J. Gold, platinum, palladium, etc. 170,197; renewed July 10, 1943.
American Radiator Company, East Orange, N. J., and Chicago, Ill., assignor to American Radiator & Standard Sanitary Corporation, Pittsburgh, Pa. Combined boiler and heater other than electrically operated. 170,704; renewed July 24, 1943.
American Safety Razor Corporation, Brooklyn, N. Y. Razor sets. 176,673; renewed Nov. 27, 1943.
American Safety Razor Corporation, Brooklyn, N. Y. Razors, razor blades, safety razors, etc. 177,377; renewed Dec. 18, 1943.
Amaconda Copper Mining Company, New York, N. Y. Metals and alloys and products thereof. 176,956; renewed Dec. 11, 1943.
Ansehl, Benjamin, Co., The, St. Louis, Mo. Leg make-up foundation. 403,063; Aug. 31; Serial No. 459,775; published June 22, 1943. Class 6.
Arata, John B., Jr., Inc., assignor to John B. Arata, Jr., Philadelphia, Pa. Candies. 177,352; renewed Dec. 18, 1943.
Associated Fruit Distributors of California. (See Crane, Ray M.)
B. B. & R. Knight, Inc., Providence, R. I., and New York, N. Y., assignor, by mense assignments, to Fruit of The Loom, Inc., Providence, R. I. Wearing apparel. 174,998; renewed Oct. 30, 1943.
B. B. & R. Knight, Inc., Providence, R. I., and New York, N. Y., assignor, by mesn assignments, to Fruit of The Loom, Inc., Providence, R. I. Sheets and pillow cases. 175,314; renewed Nov. 6, 1943.
Baker & Co., Inc., Newark, N. J. Dental metal. 173,278; renewed Sept. 18, 1943.
Baker & Co., Inc., Newark, N. J. Dental band material. 173,459–60; renewed Sept. 25, 1943.
Barden, Clifford A., Oberlin and Wakeman, to Clifford A. Barden, Oberlin, Ohio. Seed corn. 177,859; renewed Jan. 1, 1944.
Bay West Paper Company, Green Bay, Wis. Wooden dispensing cabinets. 403,031; Aug. 31; Serial No. 456,266; published June 22, 1943. Class 2.
Bear, John D., Company. (See O'Rear, Robert E.)
Bear, Lily B. (See O'Rear, Robert E.)
Belding Heminway Company. (See Corticelli Silk Company, assignor.)
Berger, Harry, doing business as Harry Berger Shirt Company, to Kaylon Incorporated, New York, N. Y., successor. Men's and boys' shirts. 174,844; renewed Oct. 23, 1943.
Berger, Harry, Shirt Company. (See Berger, Harry.)
Berger, Harry, doing business as Harry Berger Shirt Company, to Kaylon Incorporated, New York, N. Y., successor. Men's and boys' collars, pyjamas and shirts. 175,146; renewed Oct. 30, 1943.
Bias, Cyrus D., doing business as Tobacco States Chemical Company, Cave City, Ky. Chemical preparation for fumigating tobacco. 403,064; Aug. 31; Serial No. 459,801; published June 22, 1943. Class 6.
Boncilla Laboratories, Incorporated, Indianapolis, Ind. Face pack cosmetic, white face pack cosmetic, cold cream, etc. 403,035; Aug. 31; Serial No. 458,060; published June 22, 1943. Class 6.
Bowman Bros. Seed Co., assignor to The Bowman Seed Company, Concordia, Kans. Hen food, egg mash, chick food, and chick mash. 170,835; renewed July 24, 1943.
Bowman Seed Company, The. (See Bowman Bros. Seed Co., assignor.)
Breitbart Bros., Inc. (See Candy Sales Corporation.)
Bumstead, Dale, Phoenix, Ariz. Fresh citrus fruits. 403,034; Aug. 31; Serial No. 457,539; published June 22, 1943. Class 46.
Busch, Vern W., doing business as V. W. Busch Manufacturing Company, Rushton, South Lyons, Mich. Lunch boxes. 403,078; Aug. 31; Serial No. 459,977; published June 22, 1943. Class 2.
Bush, W. J., & Co., Inc., to W. J. Bush & Co. Inc., New York, N. Y. Toilet water. 170,718–9; renewed July 24, 1943.
Candy Sales Corporation, assignor to Breitbart Bros., Inc., Brooklyn, N. Y. Confectionery. 177,908; renewed Jan. 1, 1944.
Catz American Co., Inc., New York, N. Y. Yerba mate or South American tea. 403,103; Aug. 31. Class 46.
Certain-teed Products Corporation, Chicago, Ill. Bottle crown discs. 403,053; Aug. 31; Serial No. 459,358; published June 22, 1943. Class 50.
Chapman & Rodgers, Inc., Philadelphia, Pa. Insecticide. 403,017; Aug. 31; Serial No. 424,464; published Jan. 30, 1940. Class 6.
Childhood Interests, Inc., Roselle, N. J. Exercisers for babies. 403,047; Aug. 31; Serial No. 459,164; published June 22, 1943. Class 22.
Cleveland Co-Operative Stove Company, The, Cleveland, Ohio. Gas cooking ranges. 403,021; Aug. 31; Serial No. 451,031; published May 12, 1942. Class 34.
Cohen, Joseph H., & Sons, assignor to Joseph H. Cohen & Sons Vanity Clothes, Inc., New York, N. Y. Clothing for men. 177,974; renewed Jan. 1, 1944.
Cohen, Joseph H., & Sons Vanity Clothes, Inc. (See Cohen, Joseph H., & Sons.)
Cohn, Leon, doing business as Les Parfums Forest, Paris, France, to Leon Cohn, Hopewell, N. J., successor. Perfume, toilet water, face powder, etc. 177,208; renewed Dec. 11, 1943.
Coleman and Company Limited, to Coleman & Co. Limited, Norwich, England. Liquor or liquid preparation containing malt. 169,877; renewed July 3, 1943.
Colonial Works, Inc., Brooklyn, N. Y. Wall-paper size. 178,010; renewed Jan. 1, 1944.
Corn Products Refining Company, New York, N. Y. Edible oil. 178,006; renewed Jan. 1, 1944.

Corticelli Silk Company, The, Florence, Northampton, Mass., assignor to Belding Heminway Company, New York, N. Y. Hosiery. 177,924; renewed Jan. 1, 1944.
Crane, Ray M., doing business as Associated Fruit Distributors of California, Los Angeles, Calif. Fresh citrus fruits. 403,039; Aug. 31; Serial No. 458,679; published June 22, 1943. Class 46.
Cross, Mark, Company, New York, N. Y. Handbags. 403,094; Aug. 31; Serial No. 460,212; published June 22, 1943. Class 3.
Cullander Machinery Co., assignor to Cullander Machinery Company, Inc., Belonzi, Miss. Cotton trampers. 177,624; renewed Dec. 25, 1943.
De Lite Manufacturing Co., Inc., New York, N. Y. Porcelain vases. 403,110; Aug. 31. Class 30.
Dixon, Joseph, Crucible Company, Jersey City, N. J. Pencils. 177,642; renewed Dec. 25, 1943.
Dixon, Joseph, Crucible Company, Jersey City, N. J. Graphite lubricants. 403,033; Aug. 31; Serial No. 457,273; published June 22, 1943. Class 15.
Dow Chemical Company, The, Midland, Mich. Aromatic chemical. 403,072–3; Aug. 31; Serial Nos. 459,922–3; published June 22, 1943. Class 6.
Durez Company, Inc. (See Industrial Molded Materials Company, assignor.)
Durez Plastics & Chemicals, Inc. (See Industrial Molded Materials Company.)
Eastern Specialty Company, The, Philadelphia, Pa. Electrical instruments, radio receiving sets and parts thereof. 177,725; renewed Dec. 25, 1943.
Eclipse Sleep Products, Inc., Brooklyn, N. Y. Mattresses. 403,067; Aug. 31; Serial No. 459,859; published June 22, 1943. Class 32.
Fair, The, Chicago, Ill. Pipes. 403,112; Aug. 31. Class 8.
Fair, The, Chicago, Ill. Cigars and smoking tobacco. 403,113; Aug. 31. Class 17.
Filmite Oil Corporation, Milwaukee, Wis. Cutting lubricants. 403,055; Aug. 31; Serial No. 459,464; published May 25, 1943. Class 15.
Firestone Tire & Rubber Company, The, Akron, Ohio. Pyrophoric cigarette lighters. 403,059; Aug. 31; Serial No. 459,623; published June 22, 1943. Class 34.
France Manufacturing Company, The, Cleveland, Ohio. Gaseous tube lighting units. 403,041; Aug. 31; Serial No. 458,780; published June 22, 1943. Class 21.
French, R. T., Company, The. (See Reckitts (U. S. A.), Ltd., assignor.)
Fruit of The Loom, Inc. (See B. B. & R. Knight, Inc., assignor.)
Forsyth, George H., Evanston, Ill. Table ball game. 403,056; Aug. 31; Serial No. 459,541; published June 22, 1943. Class 22.
Fougera, E., & Co., Incorporated, New York, N. Y. Ferruginous tonic used as a stimulant to the appetite and nutritional anemia. 403,095; Aug. 31; Serial No. 460,293; published June 22, 1943. Class 6.
G and N Engineering Company, Boston, Mass. Switch gear including cubicles and switchboards. 403,025; Aug. 31; Serial No. 451,816; published June 22, 1943 Class 21.
Garis, Howard R. (See Wish, Fred A., Incorporated, assignor.)
General Electric Company, Schenectady, N. Y. Quartz crystal electric oscillator. 403,020; Aug. 31; Serial No. 449,734; published June 22, 1943. Class 21.
Goodyear Tire & Rubber Company, The, Akron, Ohio. Cushions, pillows, mattresses, etc. 403,052; Aug. 31; Serial No. 459,340; published June 22, 1943. Class 32.
Granite Cordage Company, Granite Falls and Hickory, to Granite Cordage Company, Hickory, N. C. Cords, twines, ropes, etc. 177,986; renewed Jan. 1, 1944.
Gray Line, Inc., The, Chicago, Ill. Automobiles. 403,108; Aug. 31. Class 19.
Grimes, James C., Opp, Ala. Laxative powder. 403,099; Aug. 31; Serial No. 460,427; published June 22, 1943. Class 6.
Gyro-Balance Corporation, Greenwich, Conn. Machine for balancing masses, determining and correcting unbalance in masses, etc. 403,038; Aug. 31; Serial No. 458,393; published June 22, 1943. Class 26.
Hamilton, L. R., Reedley, Calif. Fresh grapes. 177,686; renewed Dec. 25, 1943.
Hampshire Paper Company, South Hadley Falls, to Hampshire Paper Company, Holyoke, Mass. Printing and writing paper. 171,321; renewed Aug. 7, 1943.
Harrington & Waring, to Harrington & Waring, New York, N. Y., successor. Hosiery. 177,976; renewed Jan. 1, 1944.
Harrison, Monroe, Chicago, Ill. Non-alcoholic maltless fruit juices and fruit concentrates. 403,079; Aug. 31; Serial No. 459,995; published June 22, 1943. Class 45.
Hecker-Jones-Jewell Milling Company, assignor to Standard Milling Company, New York, N. Y. Wheat flour. 172,756; renewed Sept. 11, 1943.
Hecker-Jones-Jewell Milling Company, assignor to Standard Milling Company, New York, N. Y. Wheat flour. 177,530; renewed Dec. 18, 1943.
Hecker-Jones-Jewell Milling Company, assignor to Standard Milling Company, New York, N. Y. Wheat flour. 177,722; renewed Dec. 25, 1943.
Hess & Clark, Dr., Inc., Ashland, Ohio. Preparation used in the prevention and treatment of coccidiosis. 403,076; Aug. 31; Serial No. 459,957; published June 22, 1943. Class 6.
Hickman, Alfred M. (See Victory Bag Company, assignor.)
Hooven & Allison Company, The, Xenia, Ohio. Java hemp-fiber rope. 177,897; renewed Jan. 1, 1944.
Hoover Company, The, North Canton, Ohio. Electric suction sweepers. 172,014; renewed Aug. 21, 1943.
Hopp Press Inc., New York, N. Y. Plastic price tickets moldings and holders. 403,051; Aug. 31; Serial No. 459,307; published June 22, 1943. Class 13.
Hudnut, Richard, New York, N. Y. Ointments and creams. 403,065–6; Aug. 31; Serial Nos. 459,837–8; published June 22, 1943. Class 6.
Hunter Drug Company, The, Lima, Ohio. Vitamin preparations. 403,068; Aug. 31; Serial No. 459,877; published June 22, 1943. Class 6.
Identag, Inc., New York, N. Y. Identification bracelets and tags. 403,060; Aug. 31; Serial No. 459,669; published June 22, 1943. Class 28.
Industrial Molded Materials Company, assignor to Durez Company, Inc., to Durez Plastics & Chemicals, Inc., North Tonawanda, N. Y. Molding compositions. 175,374; renewed Nov. 6, 1943.
Ioline Company, Newark, N. J. Iodine compositions. 403,032; Aug. 31; Serial No. 456,491; published June 22, 1943. Class 6.
Javatone Manufacturing Company, doing business as Javatone Company, Los Angeles, Calif. Coffee substitute and diluent. 403,090; Aug. 31; Serial No. 460,184; published June 22, 1943. Class 46.
Johns-Manville Incorporated, assignor, by mesne assignments, to Johns-Manville Corporation, New York, N. Y. Fireproof non-heat-conducting materials. 172,918; renewed Sept. 11, 1943.
Johnson-Appleby Company, Boston, to Johnson-Appleby Company, Cambridge, Mass. Foods and food products. 171,380; renewed Aug. 7, 1943.
Johnson-March Corporation, The, New York, N. Y. Wetting agent. 403,069; Aug. 31; Serial No. 459,878; published June 22, 1943. Class 6.
Jolles, Ida, doing business as J. Jolles Studios, New York, N. Y. Ladies' handbags. 403,085; Aug. 31; Serial No. 460,111; published June 22, 1943. Class 3.
Jolles, J. Studios. (See Jolles, Ida.)
Kasco Mills, Inc., Toledo, Ohio. Card game. 403,080; Aug. 31; Serial No. 459,999; published June 22, 1943. Class 22.
Kaylon Incorporated. (See Berger, Harry.)
Kearns Coal Company, The, Cincinnati, Ohio. Coal. 177,857; renewed Jan. 1, 1944.
Keet & Rountree Dry Goods Co., assignor to Springfield Garment Mfg. Company, Springfield, Mo. Overalls, work-shirts, jumpers, etc. 177,965; renewed Jan 1, 1944.
Kennedy, John T., Sales Company, Kansas City, Mo. Skin lotion. 403,089; Aug. 31; Serial No. 460,155; published June 22, 1943. Class 6.
Keystone Macaroni Manufacturing Company, Lebanon, Pa. Macaroni products. 177,996; renewed Jan. 1, 1944.
Keystone Macaroni Manufacturing Company, Lebanon, Pa. Macaroni products. 177,999; renewed Jan. 1, 1944.
Keystone Macaroni Manufacturing Company, Lebanon, Pa. Macaroni products. 178,001; renewed Jan. 1, 1944.
Lanman & Kemp, Inc., New York, N. Y., by change of name Lanman & Kemp-Barclay & Co. Incorporated. Medicinal seed. 173,665; renewed Oct. 2, 1943.
Lanman & Kemp-Barclay & Co. Incorporated. (See Lanman & Kemp, Inc.)
Lamont-Corliss and Company, to Lamont, Corliss & Company, New York, N. Y. Chocolate. 171,295; renewed Aug. 7, 1943.
Lamont, Corliss & Company. (See Siren Mills Corporation, assignor.)
Leichter, Emil, New York, N. Y. Watches. 403,081; Aug. 31; Serial No. 460,058; published June 22, 1943. Class 27.
Les Parfums Forest. (See Cohn, Leon.)
Lifol Company. (See Wiggins, Myrtle Evans.)
Lilly, Eli, and Company, The, now by change of name Eli Lilly & Company, Indianapolis, Ind., by change of name to Eli Lilly and Company. Soap. 173,605; renewed Oct. 2, 1942.
Manhattan Rubber Mfg. Co., The, assignor to Raybestos-Manhattan, Inc., Passaic, N. J. Brake lining. 175,998; renewed Nov. 13, 1943.
Marks, Samuel I., Chicago, Ill. Toilet preparations. 403,100; Aug. 31; Serial No. 460,428; published June 22, 1943. Class 6.
Marshall-Wells Company, Duluth, Minn. Laundry washing machines and wringers. 171,087; renewed July 31, 1943.
Master Surgical Instrument Corporation, Irvington, N. J. Haemostatic forceps, holders for surgical needles, tissue forceps, etc. 403,077; Aug. 31; Serial No. 459,959; published June 22, 1943. Class 44.
McCormick, J. S., Company, The, Pittsburgh, Pa. Core binder. 177,871; renewed Jan. 1, 1944.
Medalist Co., Inc., Passaic, N. J. Cigars. 403,043; Aug. 31; Serial No. 459,012; published June 22, 1943. Class 17.

Michie, Andrew Y., & Sons Company, doing business as Alva Tape Mills, Philadelphia, Pa. Tapes, bindings, braids, etc. 403,107; Aug. 31. Class 40.
Minnesota Valley Canning Company, Le Suer, Minn. Canned vegetables. 177,997; renewed Jan. 1, 1944.
Mitchell-Bradford Chemical Company, Bridgeport, Conn. Salts. 403,057; Aug. 31; Serial No. 459,572; published June 22, 1943. Class 6.
Modern Maid Food Products, Brooklyn, N. Y. Prepared flours. 403,109; Aug. 31. Class 46.
Mohawk Chemical Products Co., assignor to Mohawk Chemical Products, Inc., Philadelphia, Pa. Liquid preparation for cleaning, preserving, and reenwing typewriters. 403,030; Aug. 31; Serial No. 456,219; June 22, 1943. Class 4.
Morgan, Neil E., assignor, by mesne assignments, to St. Lawrence Chemical Company, Inc., Ogdensburg, N. Y. Insecticide and mosquito repellent. 170,060; renewed July 10, 1943.
Multibestos Company, Walpole, Mass., assignor, by mesne assignments, to Raybestos-Manhattan, Inc., Passaic, N. J. Brake lining. 175,141; renewed Oct. 30, 1943.
National Glass Distributors Association, Chicago, Ill. Flat glass. 403,024; Aug. 31; Serial No. 451,649; published June 22, 1943. Class 33.
Noma Electric Corporation, New York, N. Y. Pull toys. 403,086; Aug. 31; Serial No. 460,122; published June 22, 1943. Class 22.
Nurre Companies, Inc., The, Bloomington, Ind. Glass mirrors. 403,104; Aug. 31. Class 32.
O'Rear, Robert E., doing business as John D. Bear Company, Clearbrook, Va., to Lily B. Bear, Washington, D. C., successor. Emulsion of petroleum combined with hypophosphites. 170,426; renewed July 17, 1943.
Owens Staple-Tied Brush Company, The, Toledo, Ohio. Hair brushes. 403,102; Aug. 31. Class 29.
Pabst Brewing Company. (See Pabst Corporation, assignor.)
Pabst Corporation, Milwaukee, Wis., assignor to Pabst Brewing Company, Peoria Heights, Ill. Table water, root beer, and soft drainks. 177,340; renewed Dec. 18, 1943.
Packard Food Products Co. (See Polin, Jack.)
Palmer, Roy P., Minneapolis, Minn. Printed advertising material. 403,040; Aug. 31; Serial No. 458,739; published June 22, 1943. Class 38.
Parfums Charbert, Inc., New York, N. Y. Gentlemen's toiletries. 403,091; Aug. 31; Serial No. 460,194; published June 22, 1943. Class 6.
Peerless Album Co., Inc., New York, N. Y. Albums. 403,026; Aug. 31; Serial No. 452,537; published June 22, 1943. Class 36.
Pelican Bay Lumber Company, Klamath Falls, Oreg. Box shooks. 177,928–9; renewed Jan. 1, 1944.
Pepsin Syrup Co., Monticello, Ill., assignor to Sterling Drug Inc., Wilmington, Del. Preparation for the treatment of digestive disorders. 177,631; renewed Dec. 25, 1943.
Perkins Marine Lamp Corporation, New York and Brooklyn, by change of name to Perkins Marine Lamp & Hardware Corporation, Brooklyn, N. Y. Lamps and lanterns and boat funnels. 171,487; renewed Aug. 7, 1943.
Perkins Marine Lamp & Hardware Corporation. (See Perkins Marine Lamp Corporation.)
Pfyffer, Siegfried, to Siegfried Pfyffer von Altischofen, Zurich, Switzerland. Metallic soldering alloys. 170,416; renewed July 17, 1943.
Phillips Petroleum Company, Bartlesville, Okla. Gasoline. 403,042; Aug. 31; Serial No. 458,972; published May 25, 1943. Class 15.
Pillsbury Flour Mills Company, assignor to Pillsbury Flour Mills Company, Minneapolis, Minn. Flour 176,729; renewed Nov. 27, 1943.
Pittsburgh Chemical Laboratory, Pittsburgh, Pa. Washing powder. 403,098; Aug. 31; Serial No. 460,391; published June 22, 1943. Class 4.
Pleasant Grove Canning Co. to Pleasant Grove Canning Company, Pleasant Grove, Utah. Fresh deciduous and citrous fruits, etc. 171,186; renewed July 31, 1943.
Polin, Jack, doing business as Packard Food Products Co., Brooklyn, N. Y. Chocolate malted milk preparation in powder and liquid form. 403,022; Aug. 31; Serial No. 451,241; published June 22, 1943. Class 46.
Portable Elevator Mfg. Co., Bloomington, Ill. Refrigerators and coolers. 403,087; Aug. 31; Serial No. 460,124; published June 22, 1943. Class 31.
Prina, Frank R., Corporation, The, New York, N. Y. Wheat flour. 172,648; renewed Sept. 11, 1943.
Printing Arts Research Laboratories, Inc., Santa Barbara, Calif. Chemical preparations. 403,023; Aug. 31; Serial No. 451,611; published June 22, 1943. Class 6.
Pure Oil Company, The, Chicago, Ill. Lubricating oil. 403,101; Aug. 31. Class 15.
Quaker Oats Company, The, Chicago, Ill. Rolled oats. 176,850; renewed Dec. 4, 1943.
Quaker Oats Company, The, Chicago, Ill. Wheat flour, rolled oats, corn meal, etc. 176,851; renewed Dec. 4, 1943.
Quaker Oats Company, The, Chicago, Ill. Rolled oats, corn meal, wheat flour, etc. 176,874; renewed Dec. 4, 1943.
Quaker Oats Company, The, Chicago, Ill. Stock feeds. 177,065; renewed Dec. 11, 1943. Class 46.
Quaker Oats Company, The, Chicago, Ill. Farinaceous stock feeds. 177,066; renewed Dec. 11, 1943.
Quaker Oats Company, The, Chicago, Ill. Rolled wheat and wheat and bran flour. 177,100; renewed Dec. 11, 1943.
Quaker Oats Company, The, Chicago, Ill. Rolled wheat and wheat and bran flour. 177,103; renewed Dec. 11, 1943.
Quaker Oats Company, The, Chicago, Ill. Wheat flour. 177,562; renewed Dec. 18, 1943.
Quaker Oats Company, The, Chicago, Ill. Wheat flour. 177,573; renewed Dec. 18, 1943.
Raybestos-Manhattan, Inc. (See Manhattan Rubber Mfg. Co., assignor.)
Raybestos-Manhattan, Inc. (See Multibestos Company, assignor.)
Raymond Laboratories, Inc., St. Paul, Minn. Chemical solution. 403,074; Aug. 31; Serial No. 459,946; published June 22, 1943. Class 6.
Reckitts (U. S. A.), Ltd., New York, N. Y., and New Brunswick, N. J., assignor, by mesne assignments, to The R. T. French Company, Rochester, N. Y. Laundry blue. 177,423; renewed Dec. 18, 1943.
Red Rose Chemical Co., Newark, N. J. Bottled sodium hypochlorite solution. 403,058; Aug. 31; Serial No. 459,603; published June 22, 1943. Class 6.
Reid, Murdoch & Co., Chicago, Ill. Canned fish. 177,264; renewed Dec. 11, 1943.
Reid, Murdoch & Co., Chicago, Ill. Tea. 177,776; renewed Dec. 25, 1943.
Reid, Murdoch & Co., Chicago, Ill. Tea. 177,779–80; renewed Dec. 25, 1943.
Revlon Products Corporation, New York, N. Y. Face powder, rouge and make-up base. 403,082; Aug. 31; Serial No. 460,071; published June 22, 1943. Class 6.
Roe, William G., Winter Haven, Fla. Fresh citrous fruits. 177,883; renewed Jan. 1, 1944.
Rombro Brothers, Baltimore, Md. Work shirts. 177,903; renewed Jan. 1, 1944.
Rugby Milling Company, The, Rugby, to The Rugby Milling Company, Rugby, N. Dak., and Minneapolis, Minn. Wheat flour. 170,842; renewed July 24, 1943.
Ruppert, Jacob, New York, N. Y. Ale. 403,105; Aug. 31. Class 48.
St. Lawrence Chemical Company, Inc. (See Morgan, Neil E., assignor.)
Sclafani, Gus, Stamford, Conn. Canned compound of cottonseed, peanut and imported olive oil. 403,018; Aug. 31; Serial No. 445,751; published June 22, 1943. Class 46.
Selig Company, The, Atlanta, Ga. Insecticide. 403,096; Aug. 31; Serial No. 460,311; published June 22, 1943. Class 6.
Sharp & Dohme, Baltimore, Md., assignor to Sharp & Dohme, Incorporated, Philadelphia, Pa. Suppurative medicinal powder. 170,247; renewed July 10, 1943.
Shotwell, The, Mfg. Co., Chicago, Ill. Candy bars. 403,071; Aug. 31; Serial No. 459,913; published June 22, 1943. Class 46.
Siren Mills Corporation, Chicago, Ill., assignor to Lamont, Corliss & Company, New York, N. Y. Powder used in making chocolate sauces or sirups. 174,521; renewed Oct. 16, 1943.
Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Emulsified wall finishing paint. 403,050; Aug. 31; Serial No. 459,231; published June 22, 1943. Class 16.
Southwestern Milling Company Inc., The, assignor to Standard Milling Company, New York, N. Y. Wheat flour. 176,617; renewed Nov. 27, 1943.
Spector-Goodman Advertising. (See American Art Service.)
Springfield Garment Mfg. Company. (See Keet & Rountree Dry Goods Co.)
Squibb, E. R., & Sons, New York, N. Y. Antiseptic and analgesic preparations. 403,097; Aug. 31; Serial No. 460,355; published June 22, 1943. Class 6.
Staley, A. E., Manufacturing Company, Decatur, Ill. Soy flour. 403,092; Aug. 31; Serial No. 460,202; published June 22, 1943. Class 46.
Standard Milling Company. (See Hecker-Jones-Jewell Milling Company, assignor.)
Standard Milling Company. (See Southwestern Milling Company Inc., The, assignor.)
Standard Oil Company of New Jersey, Wilmington, Del. Lubricating oils and greases. 403,083; Aug. 31; Serial No. 460,099; published June 22, 1943. Class 15.
Standard Oil Company of New Jersey, Wilmington, Del. Lubricating oils and greases. 403,084; Aug. 31; Serial No. 460,100; published June 22, 1943. Class 15.
Sterling Drug Inc. (See Pepsin Syrup Co.)
Stomar Products Company, assignor, by mesne assignments, to Stomar Products Co., Kansas City, Mo. Preparation used as a corn and callous remover. 403,019; Aug. 31; Serial No. 447,409; published June 22, 1943. Class 6.
Stokes, Francis C., Company, Vincentown, N. J. Tomato seeds. 403,075; Aug. 31; Serial No. 459,951; published June 22, 1943. Class 1.
Sulfor-Ex Company, Inc., New York, N. Y. Preparation for external application. 403,114; Aug. 31. Class 6.
Sun Flame Appliances Limited, Ridgefield, N. J. Glass table and cooking ware. 403,044; Aug. 31; Serial No. 459,017; published June 22, 1943. Class 33.

Surgitube Products Corp., New York, N. Y. Tubular gauze bandages. 403,088; Aug. 31; Serial No. 460,128; published June 22, 1943. Class 44.
Tingue, Brown & Co., New York, N. Y. Woven cotton feed ribbons. 177,677; renewed Dec. 25, 1943.
Tobacco States Chemical Company. (See Bias, Cyrus D.)
Trailer Company of America, The, Cincinnati, Ohio. Unitary axle assembly. 403,036; Aug. 31; Serial No. 458,295; published June 22, 1943. Class 19.
Ullman, Sigmund, Company, assignor to General Printing Ink Corporation, New York, N. Y. Inks and blacks, and tints and fugitive tints, etc. 174,734; renewed Oct. 23, 1943.
Union Hardware Company, Torrington, Conn., and New York, N. Y., to Union Hardware Company, Torrington, Conn. Ice and roller skates. 23,727; re-renewed Oct. 17, 1943.
United Aircraft Corporation, East Hartford, Conn. Aircraft propellers, parts, and attachments therefor. 403,037; Aug. 31; Serial No. 458,360; published June 22, 1943. Class 19.
United Gilsonite Laboratories, Scranton, Pa. Spachtling compound. 403,054; Aug. 31; Serial No. 459,445; published June 22, 1943. Class 12.
United States Envelope Company, Springfield, Mass. Paper drinking cups. 403,048; Aug. 31; Serial No. 459,180; published June 22, 1943. Class 2.
Vandewart, Mark, Company, Inc., New York, N. Y. Flavoring. 403,111; Aug. 31. Class 46.
Victory Bag Company, assignor to A. M. Hickman, doing business as Victory Bag Company, Paterson, N. J. Utility bags. 403,027; Aug. 31; Serial No. 453,132; published June 22, 1943. Class 3.
Von Altischofen, Siegfried Pfyffer. (See Pfyffer, Siegfried.)
Warner, William R., & Co., Inc., Wilmington, Del., and New York, N. Y. Vehicle for use in compounding prescriptions. 403,061; Aug. 31; Serial No. 459,680; published June 22, 1943. Class 6.
Wells, Edgar R., Prosser, Wash. Eggs and live poultry. 170,925; renewed July 24, 1943.
White, S. S., Dental Manufacturing Company, The, Philadelphia, Pa. Lubricating grease. 403,029; Aug. 31; Serial No. 455,110; published June 22, 1943. Class 15.
Wiggins, Myrtle E., doing business as The Lifol Company, Tulsa, Okla. Permanent hair waving solution. 403,028; Aug. 31; Serial No. 453,502; published Mar. 2, 1943. Class 6.
Winarick, Arthur, New York, N. Y. Toilet preparations. 174,052; renewed Oct. 2, 1943.
Wish, Fred A., Incorporated, New York, N. Y., assignor to H. R. Garis, East Orange, N. J. Handkerchiefs and cotton goods in the piece. 177,615; renewed Dec. 25, 1943.
Wonder-Knit Mills, Union Hill, to Wonder-Knit Mills, Union City, N. J. Sweaters, bathing suits, mufflers, etc. 177,259; renewed Dec. 11, 1943.
Woodward-Wanger Company, Philadelphia, Pa. Nonmetallic faucet washers. 403,070; Aug. 31; Serial No. 459,894; published June 22, 1943. Class 35.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Coal. Kearns Coal Company. 177,857; renewed Jan. 1, 1944.
Core binder. J. S. McCormick Company. 177,871; renewed Jan. 1, 1944.
Molding compositions containing resinous ingredients. Industrial Molded Materials Company. 175,374; renewed Nov. 6, 1943.
Seed corn. C. A. Barden. 177,859; renewed Jan. 1, 1944.
Seeds, Tomato. F. C. Stokes Company. 403,075; Aug. 31; Serial No. 459,951; published June 22, 1943.

CLASS 2

Box shooks. Pelican Bay Lumber Company. 177,928–9; renewed Jan. 1, 1944.
Boxes, Lunch. V. W. Busch. 403,078; Aug. 31; Serial No. 459,977; published June 22, 1943.
Cabinets, Wooden dispensing. Bay West Paper Company. 403,031; Aug. 31; Serial No. 456,266; published June 22, 1943.
Cups, Paper drinking. United States Envelope Company. 403,048; Aug. 31; Serial No. 459,180; published June 22, 1943.

CLASS 3

Bags, Utility. Victory Bag Company. 403,027; Aug. 31; Serial No. 453,132; published June 22, 1943.
Handbags, Ladies'. I. Jolles. 403,085; Aug. 31; Serial No. 460,111; published June 22, 1943.

CLASS 4

Powder, Washing. Pittsburgh Chemical Laboratory. 403,098; Aug. 31; Serial No. 460,391; published June 22, 1943.
Preparation for cleaning, preserving, and renewing typewriters, Liquid. Mohawk Chemical Products Co. 403,030; Aug. 31; Serial No. 456,219; published June 22, 1943.
Soap. Eli Lilly and Company. 173,605; renewed Oct. 2, 1943.

CLASS 5

Wall-paper size. Colonial Works, Inc. 178,010; renewed Jan. 1, 1943.

CLASS 6

Antiseptic and analgesic preparations. E. R. Squibb & Sons. 403,097; Aug. 31; Serial No. 460,355; published June 22, 1943.
Aromatic chemical. Dow Chemical Company. 403,072–3; Aug. 31; Serial Nos. 459,922–3; published June 22, 1943.
Chemical preparation for fumigating tobacco. C. D. Bias. 403,064; Aug. 31; Serial No. 459,801; published June 22, 1943.
Chemical preparations. Printing Arts Research Laboratories, Inc. 403,023; Aug. 31; Serial No. 451,611; published June 22, 1943.
Chemical solution. Raymond Laboratories, Inc. 403,074; Aug. 31; Serial No. 459,946; published June 22, 1943.
Cosmetic, white face pack cosmetic, cold cream, etc., Face pack. Boncilla Laboratories, Incorporated. 403,035; Aug. 31; Serial No. 458,060; published June 22, 1943.
Emulsion of petroleum combined with hypophosphites. R. E. O'Rear. 170,426; renewed July 17, 1943.
Face powder, rouge and make-up base. Revlon Products Corporation. 403,082; Aug. 31; Serial No. 460,071; published June 22, 1943.
Hair waving solution, Permanent. M. E. Wiggins. 403,028; Aug. 31; Serial No. 453,502; published Mar. 2, 1943.
Handbags. M. Cross Company. 403,094; Aug. 31; Serial No. 460,212; published June 22, 1943.
Humectants. Aktivin Corporation. 403,062; Aug. 31; Serial No. 459,682; published June 22, 1943.
Insecticide. Chapman & Rodgers, Inc. 403,017; Aug. 31; Serial No. 424,464; published Jan. 30, 1940.
Insecticide. Selig Company. 403,096; Aug. 31; Serial No. 460,311; published June 22, 1943.
Insecticide and mosquito repellant. N. E. Morgan. 170,060; renewed July 10, 1943.
Iodine compositions. Ioline Company. 403,032; Aug. 31; Serial No. 456,491; published June 22, 1943.
Laundry blue. Reckitts (U. S. A.), Ltd. 177,423; renewed Dec. 18, 1943.
Laxative powder. J. C. Grimes. 403,099; Aug. 31; Serial No. 460,427; published June 22, 1943.
Lotion, Skin. J. T. Kennedy Sales Company. 403,089; Aug. 31; Serial No. 460,155; published June 22, 1943.
Make-up foundation, Leg. B. Ansehl Co. 403,063; Aug. 31; Serial No. 459,775; published June 22, 1943.
Medicinal powder, Suppurative. Sharp & Dohme. 170,247; renewed July 10, 1943.
Medicinal seed. Lanman & Kemp, Inc. 173,665; renewed Oct. 2, 1943.
Ointments and creams. R. Hudnut. 403,065–6; Aug. 31; Serial Nos. 459,837–8; published June 22, 1943.
Perfume, toilet water, face powder, etc. L. Cohn. 177,208; renewed Dec. 11, 1943.
Preparation for external application. Sulfor-Ex Company. 403,114; Aug. 31.
Preparation for the treatment of digestive disorders. Pepsin Syrup Co. 177,631; renewed Dec. 25, 1943.
Preparation used as a corn and callous remover. Stomar Products Company. 403,019; Aug. 31; Serial No. 447,409; published June 22, 1943.
Preparation used in the prevention and treatment of coccidiosis. Dr. Hess & Clark, Inc. 403,076; Aug. 31; Serial No. 459,957; published June 22, 1943.
Salts. Mitchell-Bradford Chemical Company. 403,057; Aug. 31; Serial No. 459,572; published June 22, 1943.
Sodium hypochlorite solution, Bottled. Red Rose Chemical Co. 403,058; Aug. 31; Serial No. 459,603; published June 22, 1943.
Toilet preparations. A. Winarick. 174,052; renewed Oct. 2, 1943.
Toilet preparations. S. I. Marks. 403,100; Aug. 31; Serial No. 460,428; published June 22, 1943.
Toilet water. W. J. Bush & Co. 170,718–19; renewed July 24, 1943.
Toiletries, Gentlemen's. Parfums Charbert, Inc. 403,091; Aug. 31; Serial No. 460,194; published June 22, 1943.
Tonic used as a stimulant to the appetite and nutritional anemia, Ferruginous. E. Fougera & Co. 403,095; Aug. 31; Serial No. 460,293; published June 22, 1943.

Vehicle for use in compounding prescriptions. W. R. Warner & Co. 403,061; Aug. 31; Serial No. 459,680; published June 22, 1943.
Vitamin preparations. Hunter Drug Company. 403,068; Aug. 31; Serial No. 459,877; published June 22, 1943.
Wetting agent. Johnson-March Corporation. 403,069; Aug. 31; Serial No. 459,878; published June 22, 1943.

CLASS 7

Cords, twines, ropes, etc. Granite Cordage Company. 177,986; renewed Jan. 1, 1944.
Rope, Java hemp-fiber. Hooven & Allison Company. 177,897; renewed Jan. 1, 1944.

CLASS 8

Pipes. The Fair. 403,112; Aug. 31.

CLASS 11

Inks and blacks, and tints and fugitive tints, etc. Sigmund Ullman Company. 174,734; renewed Oct. 23, 1943.

CLASS 12

Materials, Fireproof non-heat-conducting. Johns-Manville Incorporated. 172,918; renewed Sept. 11, 1943.
Spachtling compound. United Gilsonite Laboratories. 403,054; Aug. 31; Serial No. 459,445; published June 22, 1943.

CLASS 13

Tickets moldings and holders, Plastic price. Hopp Press Inc. 403,051; Aug. 31; Serial No. 459,307; published June 22, 1943.
Washers, tube clamps, conduit clamps, etc., Steel. Aero Supply Mfg. Co. Inc. 403,049; Aug. 31; Serial No. 459,187; published June 1, 1943.

CLASS 14

Alloys, Metallic soldering. S. Pfyffer. 170,416; renewed July 17, 1943.
Gold, platinum, palladium, etc. American Platinum Works. 170,197; renewed July 10, 1943.
Metals and alloys and products thereof. Anaconda Copper Mining Company. 176,956; renewed Dec. 11, 1943.

CLASS 15

Gasoline. Phillips Petroleum Company. 403,042; Aug. 31; Serial No. 458,972; published May 25, 1943.
Grease, Lubricating. S. S. White Dental Manufacturing Company. 403,029; Aug. 31; Serial No. 455,110; published June 22, 1943.
Oils, Lubricating. Pure Oil Company. 403,101; Aug. 31.
Oils and greases, Lubricating. Standard Oil Company of New Jersey. 403,084; Aug. 31; Serial No. 460,100; published June 22, 1943.
Oils and greases, Lubricating. Standard Oil Company of New Jersey. 403,083; Aug. 31; Serial No. 460,099; published June 22, 1943.
Lubricants, cutting. Filmite Oil Corporation. 403,055; Aug. 31; Serial No. 459,464; published May 25, 1943.
Lubricants, Graphite. J. Dixon Crucible Company. 403,033; Aug. 31; Serial No. 457,273; published June 22, 1943.

CLASS 16

Paint, Emulsified wall finishing. Socony-Vacuum Oil Company, Inc. 403,050; Aug. 31; Serial No. 459,231; published June 22, 1943.

CLASS 17

Cigars. Medalist Co. 403,043; Aug. 31; Serial No. 459,612; published June 22, 1943.
Cigars and smoking tobacco. The Fair. 403,113; Aug. 31.

CLASS 19

Aircraft propellers, parts, and attachments therefor. United Aircraft Corporation. 403,037; Aug. 31; Serial No. 458,360; published June 22, 1943.
Automobiles, Gray Line, Inc. 403,108; Aug. 31.
Axle assembly, Unitary. Trailer Company of America. 403,036; Aug. 3; Serial No. 458,295; published June 22, 1943.

CLASS 21

Electric oscillator, Quartz crystal. General Electric Company. 403,020; Aug. 31; Serial No. 449,734; published June 22, 1943.
Electrical instruments, radio receiving sets and parts thereof. Eastern Specialty Company. 177,725; renewed Dec. 27, 1943.
Sweepers, Electric suction. The Hoover Company. 172,014; renewed Aug. 21, 1943.
Switch gear including cubicles and switchboards. G and N Engineering Company. 403,025; Aug. 31; Serial No. 451,816; published June 22, 1943.
Tube lighting units, Gaseous. France Manufacturing Company. 403,041; Aug. 31; Serial No. 458,780; published June 22, 1943.

CLASS 22

Exercisers for babies. Childhood Interests, Inc. 403,047; Aug. 31; Serial No. 459,164; published June 22, 1943.
Game, Card. Kasco Mills, Inc. 403,060; Aug. 31; Serial No. 459,999; published June 22, 1943.
Game, Table ball. G. H. Forsyth. 403,056; Aug. 31; Serial No. 459,541; published June 22, 1943.
Skates, Ice and roller. Union Hardware Company. 23,727; re-renewed Oct. 17, 1943.
Toys, Pull. Noma Electric Corporation. 403,086; Aug. 31; Serial No. 460,122; published June 22, 1943.

CLASS 23

Razor sets. American Safety Razor Corporation. 176,673; renewed Nov. 27, 1943.
Razors, razor blades, safety razors, etc. American Safety Razor Corporation. 177,377; renewed Dec. 18, 1943.
Trampers, Cotton. Cullander Machinery Co. 177,624; renewed Dec. 25, 1943.

CLASS 24

Washing machines and wringers, Laundry. Marshall-Wells Company. 171,087; renewed July 31, 1943.

CLASS 26

Machine for balancing masses, determining and correcting unbalance in masses, etc. Gyro-Balance Corporation. 403,038; Aug. 31; Serial No. 458,393; published June 22, 1943.

CLASS 27

Watches. E. Leichter. 403,081; Aug. 31; Serial No. 460,058; published June 22, 1943.

CLASS 28

Bracelets and tags, Identification. Identag, Inc. 403,060; Aug. 31; Serial No. 459,667; published June 22, 1943.

CLASS 29

Brushes, Hair. Owens Staple-Tied Brush Company. 403,102; Aug. 31.

CLASS 30

Vases, Porcelain. De Lite Manufacturing Co. 403,110; Aug. 31.

CLASS 31

Refrigerators and coolers. Portable Elevator Mfg. Co. 403,087; Aug. 31; Serial No. 460,124; published June 22, 1943.

CLASS 32

Cushions, pillows, mattresses, etc. Goodyear Tire & Rubber Company. 403,052; Aug. 31; Serial No. 459,340; published June 22, 1943.
Mattresses. Eclipse Sleep Products, Inc. 403,067; Aug. 31; Serial No. 459,859; published June 22, 1943.
Mirrors, Glass. Nurre Companies, Inc. 403,104; Aug. 31.

CLASS 33

Glass, Flat. National Glass Distributors Association. 403,024; Aug. 31; Serial No. 451,649; published June 22, 1943.
Glass table and cooking ware. Sun Flame Appliances Limited. 403,044; Aug. 31; Serial No. 459,017; published June 22, 1943.

CLASS 34

Boiler and heater other than electrically operated, Combined. American Radiator Company. 170,704; renewed July 24, 1943.
Cigarette lighters, Pyrophoric. Firestone Tire & Rubber Company. 403,059; Aug. 31; Serial No. 459,623; published June 22, 1943.
Lamps and lanterns and boat funnels. Perkins Marine Lamp Corporation. 171,487; renewed Aug. 7, 1943.
Ranges, Gas cooking. Cleveland Co-Operative Stove Company. 403,021; Aug. 31; Serial No. 451,031; published May 12, 1942.
Stoves, Coal burning. Agricola Furnace Company. 403,106; Aug. 31.

CLASS 35

Brake lining. Multibestos Company. 175,141; renewed Oct. 30, 1943.
Brake lining. Manhattan Rubber Mfg. Co. 175,998; renewed Nov. 13, 1943.
Washers, Nonmetallic faucet. Woodward-Wanger Company. 403,070; Aug. 31; Serial No. 459,894; published June 22, 1943.

CLASS 36

Albums. Peerless Album Co. 403,026; Aug. 31; Serial No. 452,537; published June 22, 1943.

CLASS 37

Paper, Printing and writing. Hampshire Paper Company. 171,321; renewed Aug. 7, 1943.
Pencils. Joseph Dixon Crucible Company. 177,642; renewed Dec. 25, 1943.
Stationery. American Art Service. 403,045; Aug. 31; Serial No. 459,100; published June 22, 1943.

CLASS 38

Advertising material, Printed. R. P. Palmer. 403,040; Aug. 31; Serial No. 458,739; published June 22, 1943.
Trade organ. Allied Chemical & Dye Corporation. 403,046; Aug. 31; Serial No. 459,157; published June 22, 1943.

CLASS 39

Clothing for men. Joseph H. Cohen & Sons. 177,974; renewed Jan. 1, 1944.
Collars, pyjamas, and shirts, Men's and boys'. H. Berger. 175,146; renewed Oct. 30, 1943.
Handkerchiefs and cotton goods in the piece. Fred A. Wish Incorporated. 177,615; renewed Dec. 25, 1943.
Hosiery. Corticelli Silk Company. 177,924; renewed Jan. 1, 1943.
Hosiery. Harrington & Waring. 177,976; renewed Jan. 1, 1944.
Overalls, work-shirts, jumpers, etc. Keet & Rountree Dry Goods Co. 177,965; renewed Jan. 1, 1944.
Shirts, Men's and boys'. H. Berger. 174,844; renewed Oct. 23, 1943.
Shirts, Work. Rombro Brothers. 177,903; renewed Jan. 1, 1943.
Sweaters, bathing suits, mufflers, etc. Wonder-Knit Mills. 177,259; renewed Dec. 11, 1943.
Wearing apparel. B. B. & R. Knight, Inc. 174,998; renewed Oct. 30, 1943.

CLASS 40

Tapes, bindings, braids, etc. Andrew Y. Michie & Sons Company. 403,107; Aug. 31.

CLASS 42

Handkerchiefs and cotton goods in the piece. Fred A. Wish Incorporated. 177,615; renewed Dec. 25, 1943.
Ribbons, Woven cotton feed. Tingue, Brown & Co. 177,677; renewed Dec. 25, 1943.
Sheets and pillow cases. B. B. & R. Knight, Inc. 175,314; renewed Nov. 6, 1943.

CLASS 44

Bandages, Tubular gauze. Surgitube Products Corp. 403,088; Aug. 31; Serial No. 460,128; published June 22, 1943.
Dental band material. Baker & Co. 173,459–60; renewed Sept. 25, 1943.
Forceps, holders for surgical needles, tissue forceps, etc., Haemostatic. Master Surgical Instrument Corporation. 403,077; Aug. 31; Serial No. 459,959; published June 22, 1943.
Metal, Dental. Baker & Co. 173,278; renewed Sept. 18, 1943.

CLASS 45

Juices, and fruit concentrates, Non-alcoholic maltless fruit. M. Harrison. 403,079; Aug. 31; Serial No. 459,995; published June 22, 1943.
Table water, root beer, and soft drinks. Pabst Corporation. 177,340; renewed Dec. 18, 1943.

CLASS 46

Candies. John B. Arata, Jr., Inc. 177,352; renewed Dec. 18, 1943.
Candy bars. Shotwell Mfg. Co. 403,071; Aug. 31; Serial No. 459,913; published June 22, 1943.
Canned compound of cottonseed, peanut and imported olive oil. G. Sclafani. 403,018; Aug. 31; Serial No. 445,751; published June 22, 1943.
Canned fish. Redi, Murdoch & Co. 177,264; renewed Dec. 11, 1943.
Chocolate. Lamont-Corliss and Company. 171,295; renewed Aug. 7, 1943.
Coffee substitute and dilutent. Javatone Manufacturing Company. 403,090; Aug. 31; Serial No. 460,184; published June 22, 1943.
Confectionery. Candy Sales Corporation. 177,908; renewed Jan. 1, 1944.
Eggs and live poultry. E. R. Wells. 170,925; renewed July 24, 1943.
Feed, Poultry. Allied Mills, Inc. 403,093; Aug. 31; Serial No. 460,206; published June 22, 1943.
Feeds, Farinaceous stock. Quaker Oats Company. 177,066; renewed Dec. 11, 1943.
Feeds, Stock. Quaker Oats Company. 177,065; renewed Dec. 11, 1943.
Food, egg mash, chick food, and chick mash, Hen. Bowman Bros. Seed Co. 170,835; renewed July 24, 1943.
Foods and food products. Johnson-Appleby Company. 171,380; renewed Aug. 7, 1943.
Flavoring. Mark Vandewart Company. 403,111; Aug. 31.
Flour. Pillsbury Flour Mills Company. 176,729; renewed Nov. 27, 1943.
Flour, rolled oats, corn meal, etc., Wheat. Quaker Oats Company. 176,851; renewed Dec. 4, 1943.
Flour, Soy. A. E. Staley Manufacturing Company. 403,092; Aug. 31; Serial No. 460,202; published June 22, 1943.
Flour, Wheat. Hecker-Jones-Jewell Milling Company. 172,756; renewed Sept. 11, 1943.
Flour, Wheat. Hecker-Jones-Jewell Milling Company. 177,530; renewed Dec. 18, 1943.
Flour, Wheat. Hecker-Jones-Jewell Milling Company. 177,722; renewed Dec. 25, 1943.
Flour, Wheat. Frank R. Prina Corporation. 172,648; renewed Sept. 11, 1943.
Flour, Wheat. Quaker Oats Company. 177,562; renewed Dec. 18, 1943.
Flour, Wheat. Rugby Milling Company. 170,842; renewed July 24, 1943.
Flour, Wheat. Southwestern Milling Company. 176,617; renewed Nov. 27, 1943.
Fruits, Fresh citrous. W. G. Roe. 177,883; renewed Jan. 1, 1943.
Fruits, Fresh citrus. D. Bumstead. 403,034; Aug. 31; Serial No. 457,539; published June 22, 1943.
Flours, Prepared. Modern Maid Food Products. 403,109; Aug. 31.
Fruits, Fresh citrus. R. M. Crane. 403,039; Aug. 31; Serial No. 458,679; published June 22, 1943.
Fruits, fresh vegetables, canned fruits, etc., Fresh deciduous. Pleasant Grove Canning Co. 171,186; renewed July 31, 1943.
Grapes, Fresh. L. R. Hamilton. 177,686; renewed Dec. 25, 1943.
Macaroni products. Keystone Macaroni Manufacturing Company. 177,996; renewed Jan. 1, 1944.
Macaroni products. Keystone Macaroni Manufacturing Company. 177,999; renewed Jan. 1, 1944.
Macaroni products. Keystone Macaroni Manufacturing Company. 178,001; renewed Jan. 1, 1944.
Milk preparation in powder and liquid form, Chocolate malted. J. Polin. 403,022; Aug. 31; Serial No. 451,241; published June 22, 1943.
Oats, corn meal, wheat flour, etc., Rolled. Quaker Oats Company. 176,874; renewed Dec. 4, 1943.
Oats, Rolled. Quaker Oats Company. 176,850; renewed Dec. 4, 1943.
Oil, Edible. Corn Products Refining Company. 178,006; renewed Jan. 1, 1944.
Powder used in making chocolate sauces or syrups. Siren Mills Corporation. 174,521; renewed Oct. 16, 1943.
Tea. Reid, Murdoch & Co. 177,776; renewed Dec. 25, 1943.
Tea. Reid, Murdoch & Co. 177,779–80; renewed Dec. 25, 1943.
Vegetables, Canned. Minnesota Valley Canning Company. 177,997; renewed Jan. 1, 1944.
Wheat and wheat and bran flour, Rolled. Quaker Oats Company. 177,100; renewed Dec. 11, 1943.
Wheat and wheat and bran flour, Rolled. Quaker Oats Company. 177,103; renewed Dec. 11, 1943.
Yerba mate or South American tea. Catz American Co. 403,103; Aug. 31.

CLASS 48

Ale. J. Ruppert. 403,105; Aug. 31.
Liquor or liquid preparation containing malt. Coleman and Company Limited. 169,877; renewed July 3, 1943.

CLASS 50

Bottle crown discs. Certain-teed Products Corporation. 403,053; Aug. 31; Serial No. 459,358; published June 22, 1943.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 31ST DAY OF AUGUST, 1943

NOTE.--Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Akron Standard Mold Company, The. (See Bostwick, Henry C., assignor.)

Bostwick, Henry C., assignor to The Akron Standard Mold Company, Akron, Ohio. Collapsible form. Re. 22,369; Aug. 31.

LIST OF DESIGN PATENTEES

Bartholomew, Ermon C., St. Louis, Mo. Riding stick toy. 136,250; Aug. 31.

Borden Company, The. (See Oehrle, Walter, assignor.)

Brandenburg, Julius, New York, N. Y. Combined neurological hammer, brush, and needle. 136,273; Aug. 31.

Cashin, Bonnie, New York, N. Y. Dress. 136,274; Aug. 31.

Cashin, Bonnie, New York, N. Y. Dress. 136,275; Aug. 31.

Castleton China Incorporated. (See Goughler, Marcelline, assignor.)

Crise Electric Manufacturing Company. (See Crise, George W., assignor.)

Crise, George W., assignor to Crise Electric Manufacturing Company, Columbus, Ohio. Thermostat casing. 136,252; Aug. 31.

Clark, Joanne, Los Angeles, Calif. Egg separator. 136,251; Aug. 31.

Corder, Minnie F., New York, N. Y. Needle worker's utility holder. 136,276; Aug. 31.

Cutler-Hammer, Inc. (See Robbins, Clyde F., assignor.)

Dailey, Donald B., Santa Clara County, Calif., and Robert Farrington, Auburn, N. Y. Airplane. 136,277; Aug. 31.

Engineering and Research Corporation. (See Greene, William L., assignor.)

Farrington, Robert. (See Dailey, D. B., and Farrington.)

Framhein, Herbert J. (See Holland, G., and Framhein.)

Friedman, Leonard I, New York, N. Y. Embossed leather. 136,253; Aug. 31.

Friedman, Leonard I, New York, N. Y. Embossed leather. 136,254; Aug. 31.

Gougler, Marcelline, Chicago, Ill., assignor to Castleton China Incorporated, New York, N. Y. Plate or the like. 136,255; Aug. 31.

Greenberg, Fred, New York, N. Y. Dress. 136,278; Aug. 31.

Greene, William L., Takoma Park, assignor to Engineering and Research Corporation, Riverdale, Md. Badge or the like. 136,265; Aug. 31.

Hansen, William, Chicago, Ill. Lamp shade. 136,266; Aug. 31.

Hoffmaster, Byron T., Menasha, assignor to Marathon Paper Mills Company, Rothschild, Wis. Dispenser for paper napkins. 136,267; Aug. 31.

Holland, William T., Marietta, Ga. Pen holding stand. 136,280; Aug. 31.

Holland, Glen, Bronxville, N. Y., and H. J. Framhein, Chicago, Ill., assignors to The Yale & Towne Manufacturing Company, Stamford, Conn. Industrial truck. 136,279; Aug. 31.

Huckelbridge, John R., Chualar, Calif. Game board. 136,256; Aug. 31.

Kaback, Nathan, New York, N. Y. Dress. 136,281; Aug. 31.

Kafka, Elsa M., New York, N. Y. Brooch or similar article. 136,268; Aug. 31.

Kafka, Elsa M., New York, N. Y. Brooch or similar article. 136,269; Aug. 31.

Kiel, Robert B., et al. (See Owen, Ira J., assignor.)

Kiel, Julius H., et al. (See Owen, Ira J., assignor.)

Lachman, Harry, Beverly Hills, Calif. Serving stand. 136,257; Aug. 31.

Lichter, Joseph A., Norwalk, Conn. Handbag. 136,258; Aug. 31.

Lish, Samuel, Woodmere, N. Y. Hat. 136,282; Aug. 31.

Lish, Samuel, Woodmere, N. Y. Cap. 136,283; Aug. 31.

Lish, Samuel, Woodmere, N. Y. Hat. 136,284; Aug. 31.

Loewy, Raymond G. F., Sands Point, N. Y., assignor to The Pennsylvania Railroad Company, Philadelphia, Pa. Locomotive body. 136,259; Aug. 31.

Loewy, Raymond G. F., Sands Point, N. Y., assignor to The Pennsylvania Railroad Company, Philadelphia, Pa. Locomotive body. 136,260; Aug. 31.

Loewy, Raymond G. F., Sands Point, N. Y., assignor to The Pennsylvania Railroad Company, Philadelphia, Pa. Locomotive body. 136,261; Aug. 31.

Marathon Paper Mills Company. (See Hoffmaster, Byron T., assignor.)

Massey, Thomas H., Smithfield, Va. Locket. 136,270; Aug. 31.

Mastrangelo, Frank, Fitchburg, Mass. Dining booth unit. 136,271; Aug. 31.

Matias, Ariston, Honolulu, Hawaii. Handbag. 136,285; Aug. 31.

McCoy, Marion, St. Louis, Mo. Dress. 136,286; Aug. 31.

McCoy, Marion, St. Louis, Mo. Dress. 136,287; Aug. 31.

McCoy, Marion, St. Louis, Mo. Dress. 136,288; Aug. 31.

McCoy, Marion, St. Louis, Mo. Dress. 136,289; Aug. 31.

McCoy, Marion, St. Louis, Mo. Dress. 136,290; Aug. 31.

McCoy, Marion, St. Louis, Mo. Dress. 136,291; Aug. 31.

McCoy, Marion, St. Louis, Mo. Dress. 136,292; Aug. 31.

Mine Safety Appliances Company. (See Van Vactor, Benjamin H., assignor.)

Oehrle, Walter, Pelham, assignor to The Borden Company, New York, N. Y. Pitcher or similar article. 136,262; Aug. 31.

Owen, Ira J., Laguna Beach, Calif., assignor of one-third to J. H. Kiel and one-third to R. B. Kiel, Wilmette, Ill. Casing for a carpet sweeper or similar article. 136,293; Aug. 31.

Pennsylvania Railroad Company, The. (See Loewy, Raymond G. F., assignor.)

Pons, Helene, New York, N. Y. Apron. 136,294; Aug. 31.

Pryor, John A., Bradley Beach, N. J. Prayer cross. 136,272; Aug. 31.

Robbins, Clyde F., assignor to Cutler-Hammer, Inc., Milwaukee, Wis. One-piece molded insulation switch base. 136,295; Aug. 31.

Sznycer, Bernard, Gwynnedd Valley, Pa. Airplane glider. 136,296; Aug. 31.

Van Vactor, Benjamin H., Verona, assignor to Mine Safety Appliances Company, Pittsburgh, Pa. Mine rock dusting apparatus. 136,297; Aug. 31.

Van Vactor, Benjamin H., Verona, assignor to Mine Safety Appliances Company, Pittsburgh, Pa. Mine rock dusting apparatus. 136,298; Aug. 31.

Vischer, Alfred, Jr., Park Ridge, assignor to Vischer Products Company, Chicago, Ill. Pressure cooker. 136,263; Aug. 31.

Vischer Products Company. (See Vischer, Alfred, Jr., assignor.)

Williams, Tennie L., Epworth, Ga. Combined towel and wash cloth rack or similar article. 136,264; Aug. 31.

Yale & Towne Manufacturing Company, The. (See Holland, G., and Framhein, assignors.)

Zahn, Samuel, New York, N. Y. Dress. 136,299; Aug. 31.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 31ST DAY OF AUGUST, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abax Corporation. (See Svoboda, Antonin, assignor.)
Acme Steel Company. (See Ott, John E., assignor.)
Ahlport, Brodie E., Los Angeles, Calif. Preventing reverse flow from branch lines to supply mains. 2,328,118; Aug. 31.
Air Reduction Company. (See Forgett, Valmore, assignor.)
Albion, Henry R., Atlanta, Ga. Condiment holder. 2,328,246; Aug. 31.
Alderman, Van V., Arden, and D. D. Coffman, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Acyl isothiocyanate and polymer thereof. 2,327,985; Aug. 31.
Alexander, Ford I., Whittier, assignor to Lane-Wells Company, Los Angeles, Calif. Casing gun. 2,328,247; Aug. 31.
Alien Property Custodian. (See Andrieu, Robert.)
Alien Property Custodian. (See Becker, Arthur.)
Alien Property Custodian. (See Bernard, Jean.)
Alien Property Custodian. (See Beyer, Wilhelm.)
Alien Property Custodian. (See Blumenfeld, Joseph.)
Alien Property Custodian. (See de Koning, Jacob.)
Alien Property Custodian. (See Esnault-Pelterie, Robert.)
Alien Property Custodian. (See Esseling, L. A. L., and van Geel.)
Alien Property Custodian. (See Gack, Karl.)
Alien Property Custodian. (See Gaebel, Alfred.)
Alien Property Custodian. (See Geyer, Walter.)
Alien Property Custodian. (See Hagen, Wolfgang.)
Alien Property Custodian. (See Haspel, Wilhelm.)
Alien Property Custodian. (See Horváth, Josef.)
Alien Property Custodian. (See Kniepen, Peter.)
Alien Property Custodian. (See Kopp, Georges.)
Alien Property Custodian. (See Krzenciessa, W. E. H., Scheibel, and Bohmann.)
Alien Property Custodian. (See Laffly, Edmond G.)
Alien Property Custodian. (See Löckmann, H. W., and Wana.)
Alien Property Custodian. (See Mathieu, Francois.)
Alien Property Custodian. (See Niederreither, H., and Lang.)
Alien Property Custodian. (See Oosterhuis, Albert G.)
Alien Property Custodian. (See Pfau, Hans.)
Alien Property Custodian. (See Polgár, A., and Halmos.)
Alien Property Custodian. (See Puchner, Erwin.)
Alien Property Custodian. (See Rocard, Yves.)
Alien Property Custodian. (See Salsas, Emile.)
Alien Property Custodian. (See Schanzer, Felix.)
Alien Property Custodian. (See Scheffler, Karl.)
Alien Property Custodian. (See Sonnenschein, Wilhelm.)
Alien Property Custodian. (See Thomas, Gustav.)
Alien Property Custodian. (See Török, George.)
Alien Property Custodian. (See van der Heem, Jan.)
Alien Property Custodian. (See van Overeem, Marius L.)
Alien Property Custodian. (See von Opel, Fritz.)
Alien Property Custodian. (See Weist, Georg.)
Allen, Paul E., Niles Center, Ill. Display container. 2,328,119; Aug. 31.
Allshouse, Harry. (See Dyer, Rex H., assignor.)
AlnCin, Inc. (See Walker, Victor, assignor.)
Alvey-Ferguson Company, The. (See Smith, Donald P., assignor.)
American Can Company. (See Bach, Neils P., assignor.)
American Cyanamid Company. (See Hultquist, M. E., and Crossley, assignors.)
American Cyanamid Company. (See Kienle, R. H., Park, Benbrook, and Grieb, assignors.)
American Cyanamid Company. (See Mackenzie, Neil M., assignor.)
American Cyanamid Company. (See Pineo, Orrin W., assignor.)
American Cyanamid Company. (See West, Herbert J., assignor.)
American Electrical Heater Company. (See Kuhn, F., and Thomas, assignors.)
American Enka Corporation. (See Thurmond, G. I., and Brenner, assignors.)
American Laundry Machinery Company, The. (See Hanney, Angus F., assignor.)
American Optical Company. (See Cook, R. T., and Boinin, assignors.)
American Paper Bottle Company, The. (See Wollenweber, Julius E., assignor.)
American Smelting and Refining Company. (See Gall, C., and Di Santo, assignors.)
American Steel and Wire Company. (See Perkins, G. H., and Stoeckel, assignors.)
American Zinc, Lead & Smelting Company. (See MacIntire, Walter H., assignor.)

AMP Corporation. (See Thompson, P. H., and Peat, assignors.)
Andersen Corporation. (See Swanson, Earl C., assignor.)
Anderson, Harry T., New Philadelphia, and E. C. Davis, Dover, Ohio. Stretcher. 2,328,047; Aug. 31.
Andrieu, Robert, Berlin, Germany; vested in the Alien Property Custodian. Saw-tooth wave generator. 2,328,248; Aug. 31.
Art Metal Construction Company. (See Jones, James R., assignor.)
Atchison, Leonard W., Schenectady, N. Y., assignor to General Electric Company. Pressure relief expansible reservoir for condition responsive indicating devices. 2,328,406; Aug. 31.
Atwater, Leon W., Williamston, Mich. Pile raising structure. 2,328,120; Aug. 31.
Auer, George. (See Eickemeyer, Henry, assignor.)
Autographic Register Company. (See Johnson, Arthur A., assignor.)
Aviation Corporation, The. (See Lampton, Glen T., assignor.)
B. B. Chemical Company. (See MacDonald, Alexander D., assignor.)
B-L Electric Manufacturing Company. (See Peters, Carl E., assignor.)
Babcock & Wilcox Company. (See Toomey, T. C., and Brandt, assignors.)
Bach, Neils P., Geneva, assignor to American Can Company, New York, N. Y. Can cleaning device. 2,327,986; Aug. 31.
Badger Carton Company. (See Hanauer, Henry J., assignor.)
Bailey, Perkins H., New York, N. Y., assignor to Talon, Inc. Lined garment. 2,327,979; Aug. 31.
Bailey, Perkins H., New York, N. Y., assignor to Talon, Inc. Garment construction. 2,328,181; Aug. 31.
Bailie, James C. (See Seen, M. J., and Bailie.)
Bair, Julian H., Seattle, Wash. Fountain implement. 2,328,084; Aug. 31.
Baker & Company. (See Rosenblatt, Edgar F., assignor.)
Balaban, Alexander. (See Wheelan, R. B., and Balaban.)
Balassa, Ladislaus, Flint, Mich., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Coating composition. 2,328,249; Aug. 31.
Balassa, Ladislaus, Flint, Mich., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Barium sulphate pigments and preparing them. 2,328,250; Aug. 31.
Baldwin Company, The. (See Kock, Winston B., assignor.)
Bales, James E., assignor to Lyon Metal Products, Incorporated, Aurora, Ill. Arc welding table. 2,328,182; Aug. 31.
Balsach, Juan, assignor of one-half to Sedalana Sociedad Anónima, Buenos Aires, Argentina. Circular weaving loom. 2,327,987; Aug. 31.
Balsiger, Harold E., assignor to Landis Tool Company, Waynesboro, Pa. Index mechanism. 2,328,251; Aug. 31.
Barker, Frederick W., Pound Ridge, N. Y. Plate holder. 2,328,252; Aug. 31.
Barrett, William, International Falls, assignor to Minnesota and Ontario Paper Company, Minneapolis, Minn. Coating apparatus. 2,328,183; Aug. 31.
Bartek, Michael, assignor to Deere & Company, Moline, Ill. Tooth mounting. 2,328,121; Aug. 31.
Barton, Armand, assignor of one-half to L. Vulcan, Chicago, Ill. Heel. 2,328,319; Aug. 31.
Baruch, Sydney N., New York, and J. Weinberg, Rego Park, assignors to General Arc Lighting Company, Inc., Corona, Long Island, N. Y. Remote control and indicator. 2,328,320; Aug. 31.
Bassett, Ethel N., Lincoln, Nebr. Pie pan. 2,327,988; Aug. 31.
Baur, John W. (See Gustafsson, E., and Baur.)
Bauer, Charles A., Newburg, assignor to The Cardinal Corporation, Evansville, Ind. Shoe heel. 2,328,523; Aug. 31.
Bayer, Otto. (See Doser, A., Bayer, and Hintzmann.)
Becker, Albert W., assignor to Becker Permanent Plate Company, Hartford, Conn. License plate. 2,328,253; Aug. 31.
Becker, Arthur, Berlin-Niederschoneweide, Germany; vested in the Alien Property Custodian. Ground reflector. 2,328,407; Aug. 31.
Becker, Bernard C., deceased, Canton, Ohio, by Bernice E. Becker, executrix, York, Pa., assignor to The Hoover Company, North Canton, Ohio. Suction cleaner. 2,328,184; Aug. 31.
Becker, Bernice E., executrix. (See Becker, Bernard C.)

Becker, Leonard. (See Buchsbaum, H., and Becker.)
Becker Permanent Plate Company. (See Becker, Albert W., assignor.)
Becker, Rudolph, North Plainfield, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Safety device. 2,328,524; Aug. 31.
Bell, William E., and F. Farley, Oklahoma City, Okla. Golf stroke teaching machine. 2,328,408; Aug. 31.
Bell, Joseph D., San Francisco, Calif. Chair bed. 2,328,254; Aug. 31.
Bell, Joseph D., San Francisco, Calif. Chair bed. Chair bed. 2,328,255; Aug. 31.
Bell Telephone Laboratories, Incorporated. (See Christensen, Carl J., assignor.)
Bell Telephone Laboratories, Incorporated. (See Edwards, Paul G., assignor.)
Bell Telephone Laboratories, Incorporated. (See Mason, Warren P., assignor.)
Belmont Radio Corporation. (See Mattes, H. C., and Wronke, assignors.)
Beloit Iron Works. (See Berry, Earl E., assignor.)
Belt, Charles B., and D. H. Hallock, Southampton, N. Y. Stretcher. 2,328,409; Aug. 31.
Benbrook, Charles H. (See Kienle, R. H., Park, Benbrook, and Grieb.)
Bendix Aviation Corporation. (See Chappell, R. R., Colt, and Streb, assignors.)
Bendix Aviation Corporation. (See Holmes, Bradford B., assignor.)
Benninghofen, Paul, trustee. (See Waechter, Harry J., assignor.)
Benson, Edward B., assignor to The Benson Manufacturing Company, Kansas City, Mo. Spinner. 2,328,185; Aug. 31.
Benson, George O., Niagara Falls, N. Y. Adjustable mast. 2,327,990; Aug. 31.
Benson Manufacturing Company, The. (See Benson, Edward B., assignor.
Berge, Godshalk, assignor to Johnson Laboratories, Inc., Chicago, Ill. Ceramic insulating material and producing the same. 2,328,410; Aug. 31.
Bergstein, David, trustee, et al. (See Bergstein, Samuel, assignor.)
Bergstein, Robert M., trustee, et al. (See Bergstein, Samuel, assignor.)
Bergstein, Samuel, Cincinnati, Ohio, assignor to R. M. and F. D. Bergstein, trustees. Auomatic box. 2,328,186; Aug. 31.
Bergstrom, Victor J., assignor to Superior Felt & Bedding Co., Chicago, Ill. Convertible couch structure. 2,328,411; Aug. 31.
Bernard, Jean, Paris, France; vested in the Alien Property Custodian. Multiple field magnet ignition magneto. 2,328,412; Aug. 31.
Berry, Earl E., assignor to Beloit Iron Works, Beloit, Wis. Drier drum. 2,328,321; Aug. 31.
Berry, Wallace S. (See Wahlberg, N. E., and Berry.)
Berthold, Wolf, Weehawken, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y Tension controlling apparatus. 2,328,322; Aug. 31.
Bertirotti, Joseph, New Orleans, La. Tackle block. 2,328,122; Aug. 31.
Bertram, John, Rugby, England, assignor to General Electric Company. Operating means for fluorescent lamps. 2,328,413; Aug. 31.
Bethlehem Steel Company. (See Reed, Claude D., assignor.)
Better Packages Incorporated. (See Krueger, Theodore H., assignor.)
Betts, Gilbert A., Buffalo, N. Y. Cigar and cigarette. 2,327,991; Aug. 31.
Beyer, Wilhelm, Berlin-Frohnau, Germany; vested in the Alien Property Custodian. High-pressure steam generator. 2,328,414; Aug. 31.
Binks Manufacturing Company. (See Gustafsson, E., and Baur, assignors.)
Birkenmaier, Theodore, assignor to W. N. Matthews Corporation, St. Louis, Mo. Electrical contact clip. 2,328,415; Aug. 31.
Birkenstein, Lillian R. (See Mulligan, John J., assignor.)
Black and Decker Manufacturing Company, The. (See Decker, Alonzo G., Jr., assignor.)
Blakeslee, G. S., & Co. (See Kapp, Edward J., assignor.)
Bliss, E. W., Company. (See Cannon, Earl, assignor.)
Bliss, E. W., Company. (See Durbin, Stanley H., assignor.)
Blizard, John W. F., Rydal, and C. G. Peters, assignors to National Fiberstok Envelope Co., Philadelphia, Pa. Loose-leaf binder. 2,328,416; Aug. 31.
Blumenfeld, Joseph, New York, N. Y.; vested in the Alien Property Custodian. Preparation of compounds of cerium. 2,327,992; Aug. 31.
Bocjl Corporation. (See Lang, Joseph C., assignor.)
Bogardus, Leonard R., Grosse Pointe Farms, assignor to Packard Motor Car Company, Detroit, Mich. Electric distribution system. 2,328,373; Aug. 31.
Bohmann, Arthur A. (See Krzenciessa, W. E. H., Scheibel, and Bohmann.)
Bonin, Wilfred A. (See Cook, R. T., and Bonin.)
Borberg, Willy, Astoria, Long Island, assignor to International Projector Corporation, New York, N. Y. Adjusting mechanism for gears. 2,328,123; Aug. 31.
Borden, George R., Jr., Blaine, Wash. Repair of broken lighting filaments. 2,328,187; Aug. 31.

Borg-Warner Corporation. (See Cravener, Donald H., Jr., assignor.)
Borg-Warner Corporation. (See Flinn, George E., assignor.)
Borg-Warner Corporation. (See Nutt, H., and Reed, assignors.)
Borg-Warner Corporation. (See Nutt, H., and Smirl, assignors.)
Borg-Warner Corporation. (See Orr, Palmer, assignor.)
Borg-Warner Corporation. (See Osborne, Carl W., assignor.)
Borg-Warner Corporation. (See Simpson, John M., assignor.)
Borg-Warner Corporation. (See Smirl, Richard L., assignor.)
Borkey, Andrew V., Collegeville, Pa. Dairy animal restraining arm. 2,328,188; Aug. 31.
Bowers, Herbert L., Haworth, N. J., and E. Pick, East Rockaway, assignors to The Permutit Company, New York, N. Y. Valve mechanism for water softeners. 2,328,323; Aug. 31.
Bowman, Arthur E., St. Louis, Mo. Shoe construction. 2,328,049; Aug. 31.
Brace, George A., Winnetka, and A. G. Gross, Wilmette, Ill., assignors to The Hoover Company, North Canton, Ohio. Refrigeration. 2,328,189; Aug. 31.
Bragg, Leslie B., Scotch Plains, N. J., assignor to Foster Wheeler Corporation, New York, N. Y. Vapor and liquid contact apparatus. 2,327,993; Aug. 31.
Brandt, Joseph G. (See Toomey, T. C., and Brandt.)
Brandwein, A., & Company. (See Kelly, Dwight N., assignor.)
Breckenridge, Frank, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Laundry apparatus. 2,328,256; Aug. 31.
Bremer, Harry E., Milwaukee, Wis. Steam generating electric iron. 2,328,124; Aug. 31.
Brennan, Vincent A., Lynn, Mass. Ingot mold. 2,328,417; Aug. 31.
Brenner, Edward. (See Thurmond, G. I., and Brenner.)
Brewster, Percy D., Holmdel, N. J. Color cinematography. 2,328,418; Aug. 31.
Briggs, Henry C., Brooklyn, N. Y. Mechanism for improving the dirigibility of ships, submarines, and aircraft. 2,327,994; Aug. 31.
Brown and Brown, Incorporated. (See Brown, Chalmers S., assignor.)
Brown, Chalmers S., assignor to Brown and Brown, Incorporated, Lima, Ohio. Flap gate. 2,328,419; Aug. 31.
Brown Instrument Company, The. (See Moore, Coleman B., assignor.)
Brown, W. R., Corporation. (See Brown, W. R., and Collings, assignors.)
Brown, William R., Chicago, and N. J. Collings, Elmhurst, assignors to W. R. Brown Corporation, Chicago, Ill. Compressor. 2,328,420; Aug. 31.
Bryant, Corwin W., Downers Grove, assignor to Crane Co., Chicago, Ill. Automatic declutching means. 2,327,980; Aug. 31.
Buchsbaum, Herbert, and L. Becker, assignors to S. Buchsbaum & Company, Chicago, Ill. Making filaments. 2,328,125; Aug. 31.
Buchsbaum, S., & Company. (See Buchsbaum, H., and Becker, assignors.)
Buckeye Traction Ditcher Company, The. (See Magee, Robert B., assignor.)
Bucy, Roy T. (See Neracher, C. A., Dunn, Syrovy, Iavelli, Bucy, and Schotz.)
Budd, Edward G., Manufacturing Company. (See Weightman, William A., assignor.)
Buena Vista Iron Company. (See Worthen, Eugene P., assignor.)
Bulbulian, Arthur H., Rochester, Minn. Mask adapted for use at high altitudes. 2,327,995; Aug. 31.
Bull, Alvah S., Minneapolis, Minn., assignor, by mesne assignments, to Minnesota and Ontario Paper Company. Wall construction. 2,328,051; Aug. 31.
Bullard Company, The. (See Bullard, Edward P., III, assignor.)
Bullard, Edward P., III, Fairfield, Conn., assignor to The Bullard Company. Conveyer. 2,328,050; Aug. 31.
Burgess, Everett H. (See Lehane, T. J., and Burgess.)
Burk, Robert E., and E. C. Hughes, Cleveland Heights, assignors to The Standard Oil Company, Cleveland, Ohio. Stabilizing hydrocarbon products. 2,328,190; Aug. 31.
Burman, Oscar F., Jr., Brockton, assignor to Saco-Lowell Shops, Boston, Mass. Drawing frame clearer. 2,328,324; Aug. 31.
Burnam, Thompson W., Inglewood, Calif. Dehydrating mineral oil emulsions. 2,327,996; Aug. 31.
Butikofer, Robert E., assignor to Standard Oil Company, Chicago, Ill. Powdered catalyst recovery. 2,328,325; Aug. 31.
Butler, Vaughn, Harriman, Tenn. Automatic record changer. 2,328,052; Aug. 31.
Butts, Richard R., Miamisburg, Ohio, assignor of one-half to T. B. Zumstein, Fort Thomas, Ky., and one-half to G. F. Miller, Cincinnati, Ohio. Ventilating blackout roller shade. 2,328,257; Aug. 31.

Buxton, Loran O., Belleville, assignor to National Oil Products Company, Harrison, N. J. Refining vitamin-bearing materials. 2,328,053; Aug. 31.

Byrne, Julius I., Detroit, Mich. Door construction. 2,328,326; Aug. 31.

Cannon, Earl, Rockville Centre, assignor to E. W. Bliss Company, New York, N. Y. Apparatus for controlling the slide movement in long-bed hydraulic presses. 2,328,258; Aug. 31.

Cantor, Sidney M., Riverside, Ill., assignor to Corn Products Refining Company, New York, N. Y. Starch conversion process. 2,328,191; Aug. 31.

Cape Cod Instrument Company. (See Limb, Marcus G., assignor.)

Cardinal Corporation, The. (See Bauer, Charles A., assignor.)

Carey, Philip, Manufacturing Company, The. (See Crabbs, Roscoe B., assignor.)

Carlson, George, Trumbull, and E. B. Clark, Milford, Conn., assignors to General Electric Company. Box supporting device. 2,328,421; Aug. 31.

Carlson, Warner W. (See Stahly, G. L., and Carlson.)

Carmody, Edmund O., and C. A. West, U. S. Navy. Torque device for coordinator trainers. 2,327,997; Aug. 31.

Carr, Charles R., Dallas, Tex., and D. D. Day, Memphis, Tenn. Pneumatic mote control. 2,328,126; Aug. 31.

Carson, Clarence M., assignor to Wingfoot Corporation, Akron, Ohio. Rubber derivative product. 2,328,534; Aug. 31.

Casleri, Anthony, Chicago, Ill. Hairdressing. 2,328,192; Aug. 31.

Celanese Corporation of America. (See Dodge, Frederick G., assignor.)

Celanese Corporation of America. (See Dreyfus, Henry, assignor.)

Central Scientific Co. (See McConnell, John L., assignor.)

Chaikley, Lyman, Brick Township, Ocean County, N. J. Vegetative propagation of plants. 2,328,193; Aug. 31.

Chappell, Ralph R., Richmond, Va., R. B. Colt, and R. J. Streb, Baltimore, Mo., assignors to Bendix Aviation Corporation, Bendix, N. J. Recorder. 2,328,054; Aug. 31.

Chicago By-Products Corporation. (See Wittmann, Robert A., assignor.)

Christaldi, Peter S., Wood-Ridge, and S. J. Koch, Clifton, assignor to Allen B. Du Mont Laboratories, Inc., Passaic, N. J. Polar coordinate cathode-ray tube. 2,328,259; Aug. 31.

Christensen, Carl J., Flushing, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Coating bodies wtih carbon. 2,328,422; Aug. 31.

Chrysler Corporation. (See Dickson, John B., assignor.)

Chrysler Corporation. (See Dudley, John C., assignor.)

Chrysler Corporation. (See Neracher, C. A., Dunn, Syrovy, Iavelli, Bucy, and Schotz, assignors.)

Chrysler Corporation. (See Neracher, C. A., and Dunn, assignors.)

Chrysler Corporation. (See Petersen, Edgar A., assignor.)

Chrysler Corporation. (See Rigoulot, Ulysses C., assignor.)

Chrysler Corporation. (See Saunders, S. G., and Morrison, assignors.)

Cities Service Oil Company. (See Morgan, J. D., and Levitt, assignors.)

Clark, Edward B. (See Carlson, G., and Clark.)

Clark, John, Walkerton, Ind. Railway track liner. 2,328,194; Aug. 31.

Clausen, De Witt, Akron, Ohio. Wringer. 2,327,998; Aug. 31.

Clayton Manufacturing Company. (See Griswold, Donald G., assignor.)

Cleason, Harry, et al. (See Heiner, Everette J., assignor.)

Clough, Jerome L., Milwaukee, Wis. Record selecting mechanism. 2,328,055; Aug. 31.

Cobb, Leland D., Forestville, Conn., assignor to General Motors Corporation, Detroit, Mich. Lubricator device. 2,328,327; Aug. 31.

Coffman, Donald D. (See Alderman, V. V., and Coffman.)

Cohen, Harry, Chicago, Ill. Match book holder. 2,327,999; Aug. 31.

Collins, Nigel J. (See Brown, W. R., and Collings.)

Colt, Rutger B. (See Chappell, R. R., Colt, and Streb.)

Commonwealth Engineering Company of Ohio, The. (See Stahly, G. L., and Carlson, assignors.)

Comstock, Jackson D. (See Grove, D. E., and Comstock.)

Cook, Roland T., Irvington, N. J., and W. A. Bonin, assignors to American Optical Company, Southbridge, Mass. Ophthalmic mounting. 2,328,423; Aug. 31.

Coolerator Company, The. (See La Casse, William J., assignor.)

Cooley, Austin G., Hudson View Gardens, assignor, by mesne assignments, to Times Telephoto Equipment Inc., New York, N. Y. Keying arrangement for electric signaling systems. 2,328,056; Aug. 31.

Cooney, Thomas F., New Haven, Conn. Convertible davenport and bed. 2,328,260; Aug. 31.

Coons, Curtis C., assignor to The Hoover Company, North Canton, Ohio. Refrigeration. 2,328,195; Aug. 31.

Coons, Curtis C., North Canton, and W. H. Kitto, Canton, assignors to The Hoover Company, North Canton, Ohio. Refrigeration. 2,328,196; Aug. 31.

Corn Products Refining Company. (See Cantor, Sidney M., assignor.)

Cory, Anthony, New York, N. Y. Mechanical movement. 2,328,261; Aug. 31.

Coulter, Robert I., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Pressure-sensitive adhesive sheet. 2,328,057; Aug. 31.

Cowin and Company. (See Cowin, James, assignor.)

Cowin, James, assignor to Cowin and Company, Minneapolis, Minn. Building structure. 2,328,197; Aug. 31.

Cox, Floyd A. (See Green, J. R., and Cox.)

Crabbs, Roscoe B., Morristown, N. J., assignor to The Philip Carey Manufacturing Company. Manufacture of hydraulic cement products. 2,328,058; Aug. 31.

Craig, Wallace A., assignor to Richfield Oil Corporation, Los Angeles, Calif. Manufacture of ethers. 2,328,059; Aug. 31.

Crane Co. (See Bryant, Corwin W., assignor.)

Crane, Hubert R., and W. D. Osborn, Los Angeles, Calif. Sewer sand washer or desander. 2,328,060; Aug. 31.

Crane, Hubert R. (See Osborn, William D., and Crane.)

Cravener, Donald H., Jr., assignor to Borg-Warner Corporation, Chicago, Ill. Control for clamps. 2,328,262; Aug. 31.

Crickmer, Charles S., Dallas, Tex. Sucker rod stripper. 2,328,127; Aug. 31.

Crossley, Moses L. (See Hultquist, M. E., and Crossley.)

Curtis, Frank W., assignor to Van Norman Machine Tool Company, Springfield, Mass. Hydraulic vise. 2,328,061; Aug. 31.

Curtis Pump Company. (See Curtis, Russell R., assignor.)

Curtis, Russell R., assignor to Curtis Pump Company, Dayton, Ohio. Impeller and propeller construction for booster pumps. 2,328,328; Aug. 31.

D'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Urea-triazine resin. 2,328,424; Aug. 31.

D'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Urea-triazine resin. 2,328,425; Aug. 31.

Daniel, Friedrich K., Kew Gardens, assignor to Hornkem Corporation, New York, N. Y. Drilling fluid. 2,328,426; Aug. 31.

Danilla, Emma G., Berlin Heights, Ohio. Device for aiding in hairdressing. 2,328,374; Aug. 31.

Davenport, Franklyn E., D. C. Knowlton, and R. W. McCormick, Watertown, N. Y., assignors to Knowlton Bros. Low electrical resistance paper and making same. 2,328,198; Aug. 31.

Davies, Clarence J., assignor to National Automotive Fibres, Inc., Detroit, Mich. Sewing mechanism. 2,328,128; Aug. 31.

Davis, Edgar C. (See Anderson, H. T., and Davis.)

Davis, Robert W., and E. R. Leonard, Bethesda, Md. Fruit and vegetable basket and cover. 2,328,427; Aug. 31.

Day, Dewey D. (See Carr, C. R., and Day.)

Day, Harry S., North Benton, Ohio. Embalming apparatus. 2,328,199; Aug. 31.

Dayton Pump & Manufacturing Company, The. (See Eickmeyer, E. E., and Horvath, assignor.)

Deakins, Grover C., Orange, Calif. Tool construction. 2,328,200; Aug. 31.

Decker, Alonzo G., Jr., Baltimore, Md., assignor to The Black and Decker Manufacturing Company. Bit control for percussive tools. 2,328,201; Aug. 31.

Deere & Company. (See Bartek, Michael, assignor.)

Deere & Company. (See Silver, Walter H., assignor.)

De Groote, Melvin, University City, and B. Keiser, Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del. Certain water-soluble high molal oxyalkylated esters and making same. 2,328,062; Aug. 31.

De Koning, Jacob, Treebeek, Limburg, Netherlands; vested in the Alien Property Custodian. Gravity separator for coal. 2,328,428; Aug. 31.

Dent, Herbert, Chicago, Ill. Machine for forming wire reinforced tape. 2,328,429; Aug. 31.

Dental Research Corporation. (See Erdle, Reiner W., assignor.)

Diesbach, Eleanor C., trustee. (See Waechter, Harry J., assignor.)

De Stefano, John, Jackson Heights, N. Y. Windshield safety guard. 2,328,263; Aug. 31.

De Stefano, John, Jackson Heights, N. Y. Aircraft windshield safety guard. 2,328,305; Aug. 31.

Dickinson, Paul, Inc. (See Filkins, Arthur J., assignor.)

Dickson, John B., assignor to Chrysler Corporation, Highland Park, Mich. Lens. 2,328,329; Aug. 31.

Di Santo, Bartel J. (See Gall, C., and Di Santo.)

Dobson, William A., Wethersfield, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 2,328,375; Aug. 31.

Dobson, William A., Wethersfield, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 2,328,376; Aug. 31.

Dobson, William A., Wethersfield, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 2,328,377; Aug. 31.

Dodge, Frederick G., Long, Md., assignor to Celanese Corporation of America. Cutting fabric. 2,328,063; Aug. 31.

Doerner, Henry A., Pullman, Wash. Producing magnesium metal. 2,328,202; Aug. 31.

Doran, James A., Providence, R. I. Method and apparatus for rectifying alternating currents. 2,328,264; Aug. 31.

Dornte, Ralph W., Alplaus, N. Y., assignor to General Electric Company. Production of vinyl chloride. 2,328,430; Aug. 31.

Doser, Arnold, Cologne, O. Bayer, and K. Hintzmann, Leverkusen I. G.-Werk, Germany, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y. Rendering textile materials water repellent. 2,328,431; Aug. 31.

Doty, Cecil G., Crown Point, Ind. Steering release mechanism. 2,328,064; Aug. 31.

Dow Chemical Company, The. (See Freeman, R. D., and Schmelter, assignors.)

Dow Chemical Company, The. (See Smith, F. B., and Hansen, assignors.)

Dresser Manufacturing Company. (See Risley, Roger E., assignor.)

Drew, Richard G., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Coating hydrophilic cellulosic films. 2,328,066; Aug. 31.

Dreyfus, Henry, London, England, assignor to Celanese Corporation of America. Treatment of sheets and similar materials. 2,328,065; Aug. 31.

Ducker, Louis F., and G. A. Little, Orlando, Fla., assignors to C. H. C. Van Pelt, Amberley Village, Hamilton County, Ohio. Treating fruit. 2,328,265; Aug. 31.

Dudley, John C., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Bumper. 2,328,378; Aug. 31.

Duggan, James E., Detroit, Mich. Paint mask structure. 2,328,203; Aug. 31.

Du Mont, Alien B., Laboratories, Inc. (See Christaldi, P. S., and Koch, assignor.)

Dunham, George W., Westport, Conn., assignor to General Electric Company. Washing machine. 2,328,432; Aug. 31.

Dunn, William T. (See Neracher, C. A., and Dunn.)

Dunn, William T. (See Neracher, C. A., and Syrovy, Iavelli, Bucy, and Schotz.)

Du Pont, E. I., de Nemours & Company. (See Alderman, V. V., and Coffman, assignors.)

Du Pont, E. I., de Nemours & Company. (See Balassa, Ladislaus, assignor.)

Du Pont, E. I., de Nemours & Company. (See Hunter, Archibald S., assignor.)

Du Pont, E. I., de Nemours & Company. (See Pikl, Josef, assignor.)

Du Pont, E. I., de Nemours & Company. (See Roskosky, Stephen J., assignor.)

Du Pont, E. I., de Nemours & Company. (See Sease, V. B., and Murray, assignors.)

Durbin, Stanley H., assignor to E. W. Bliss Company, Brooklyn, N. Y. Operating mechanism for switches. 2,328,266; Aug. 31.

Dyer, Rex H., Kansas City, Mo., assignor of one-half to H. Allshouse. Tool for removing electrode tips. 2,328,433; Aug. 31.

Eagle Engineering Company, Limited, The. (See Meats, William H., assignor.)

Eagle Pencil Company. (See Hanle, Benjamin W., assignor.)

Earle, Genevieve M. (See Earle, Guyon L. C., assignor.)

Earle, Guyon L. C., assignor to G. M. Earle, Forest Hills, N. Y. Drier arrangement. 2,328,129; Aug. 31.

Earle, Guyon L. C., assignor to G. M. Earle, Forest Hills, N. Y. Assembling mechanical refrigerators. 2,328,130; Aug. 31.

Eastman Kodak Company. (See Wengel, Raymond W., assignor.)

Easy Washing Machine Company. (See Nelson, Jabez C., assignor.)

Ebling, Carl R. (See Moore, A. T., and Ebling.)

Edington, Jack L., Detroit, Mich., assignor to Thompson Products Incorporated, Cleveland, Ohio. Rubber bushed joint. 2,328,330; Aug. 31.

Edison Wood Products, Incorporated. (See Webb, Charles E., assignor.)

Edwards, Paul G., Verona, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Speech transmission system. 2,328,434; Aug. 31.

Egolf, Charles B., assignor to Röhm & Haas Company, Philadelphia, Pa. Preparing sheets. 2,328,525; Aug. 31.

Eickmeyer, Earl E., and A. G. Horvath, asignors to The Dayton Pump & Manufacturing Company, Dayton, Ohio. Ticket issuing fuel dispensing apparatus. 2,328,435; Aug. 31.

Eickemeyer, Henry, assignor to G. Auer, Chicago, Ill. Filter apparatus. 2,328,436; Aug. 31.

Eisenman, Louis, Brooklyn, N. Y. Hair curler. 2,328,331; Aug. 31.

Eisler, Henry G., Wilmette, Ill. Oil filter. 2,328,131; Aug. 31.

Elling, William E., Long Island City, N. Y. Lifeboat. 2,328,437; Aug. 31.

Emulsol Corporation, The. (See Katzman, M., and Epstein, assignors.)

Epstein, Albert K. (See Katzman, M., and Epstein.)

Erdle, Reiner W., assignor to Dental Research Corporation, Chicago, Ill. Artificial tooth. 2,328,379; Aug. 31.

Erie City Iron Works. (See Sandstrom, Nils G., assignor.)

Ernst, Walter, Mount Gilead, Ohio, assignor to The Hydraulic Development Corporation, Inc., Wilmington, Del. Relief valve. 2,328,132; Aug. 31.

Ernst, Walter, Mount Gilead, Ohio, assignor to The Hydraulic Development Corporation, Inc., Wilmington, Del. Press ram. 2,328,438; Aug. 31.

Esnault-Pelterie, Robert, Boulogne-Billancourt, France; vested in the Alien Property Custodian. Heat transfer apparatus. 2,328,439; Aug. 31.

Esseling, Ludovicus A. L., and W. C. van Geel, Eindhoven, Netherlands; vested in the Alien Property Custodian. Blocking layer cell. 2,328,440; Aug. 31.

Eureka Vacuum Cleaner Company. (See Gardes, Alfred W., assignor.)

Ewald, Fred J. (See Tuttle, W. R., and Ewald.)

Farley, Floyd. (See Bell, W. E., and Farley.)

Feder, Emanuel, Newark, N. J. Combined business reply post card and envelope. 2,328,380; Aug. 31.

Ferris, William D., assignor to Frantz Manufacturing Co., Sterling, Ill. Garage door. 2,328,204; Aug. 31.

Ferro Stamping & Manufacturing Company. (See Joachim, Joseph G., assignor.)

Filkins, Arthur J., assignor to Paul Dickinson, Inc., Chicago, Ill. Damper. 2,328,332; Aug. 31.

Finkelstein, Jacob, New York, N. Y., assignor to Merck & Co., Inc., Rahway, N. J. Racemic-α-hydroxy-β,β-dimethyl-gamma-butyro lactone, esters and salts thereof. 2,328,000; Aug. 31.

Fischer, Herbert C., Wellesley Hills, and A. H. W. Higgins, Boston, Mass. Structural member. 2,328,441; Aug. 31.

Fischer, Herbert C., Wellesley Hills, and A. H. W. Higgins, Boston, Mass. Load-bearing member. 2,328,442; Aug. 31.

Fisher & Porter Company. (See Porter, George K., assignor.)

Flinn, George E., Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill. Clutch. 2,328,205; Aug. 31.

Food Machinery Corporation. (See Stover, R. B., and (Hoy, assignor).)

Forgett, Valmore, Teaneck, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y. Electrode holder. 2,328,067; Aug. 31.

Foster, Levin W., Pittsfield, Mass., assignor to General Electric Company. Multilayer electrical winding and method and apparatus for making same. 2,328,443; Aug. 31.

Foster, Walter W., Wichita Falls, Tex. Pull line drum and mounting. 2,328,133; Aug. 31.

Foster Wheeler Corporation. (See Bragg, Leslie B., assignor.)

Fowler, Clarence D., Glastonbury, Conn. Identification badge holder. 2,328,206; Aug. 31.

Foxboro Company, The. (See Kidd, Wilmot H., assignor.)

Francis, Oliver T., Renville, Minn. Ignition system. 2,328,444; Aug. 31.

Francis, Raymond A., Zanesville, Ohio. Blackout light. 2,328,445; Aug. 31.

Frantz Manufacturing Co. (See Ferris, William D., assignor.)

Freeman, Annie R., Jamaica, N. Y. Hair drying hood. 2,328,207; Aug. 31.

Freeman, Henry G., Granite City, Ill. Ladle. 2,328,267; Aug. 31.

Freeman, Richard D., and G. P. Schmelter, assignors to The Dow Chemical Company, Midland, Mich. Polymerization process. 2,328,333; Aug. 31.

Freer, Phelps M., Detroit, Mich. Brake. 2,328,334; Aug. 31.

Friden Calculating Machine Co. (See Friden, Carl M. F., assignor.)

Friden, Carl M. F., Oakland, Calif., assignor to Friden Calculating Machine Co., Inc. Calculating machine. 2,327,981; Aug. 31.

Friedman, Emery G., Tampico, Mexico. Indicator. 2,328,208; Aug. 31.

Fryer, Louis S., and W. J. Jokilehto, assignors to Industrial Rayon Corporation, Cleveland, Ohio. Flexible winding spool. 2,328,335; Aug. 31.

Fuehrer, George H., Phillipsburg, N. J., assignor to Ingersoll-Rand Company, New York, N. Y. Locking device for throttle valves. 2,328,446; Aug. 31.

Fulke, Frank L., Terre Haute, Ind. Mining machine chain bit and holder therefor. 2,328,134; Aug. 31.

Furse, Dean H., Arlington, and L. J. Neuman, Houston, Tex. Means and method of bringing oil wells into production. 2,328,001; Aug. 31.

Gack, Karl, Erlangen, Germany; vested in the Alien Property Custodian. Supporting means for drawing boards. 2,328,135; Aug. 31.

Gaebel, Alfred, Berlin, Germany; vested in the Alien Property Custodian. Electron tube. 2,328,136; Aug. 31.

Gall, Carl, and B. J. Di Santo, Woodbridge, N. J., assignors to American Smelting and Refining Company, New York, N. Y. Metalworking machine. 2,328,002; Aug. 31.

Gardes, Alfred W., Evanston, Ill., assignor to Eureka Vacuum Cleaner Company, Detroit, Mich. Vacuum cleaner coupling construction. 2,328,003; Aug. 31.
Garrison, Charles L. (See Schwager, A. C., and Garrison.)
Geigy, J. R., A. G. (See Martin, H., Zaeslin, Hirt, and Staub, assignors.)
Gelfand, Alex, Bronx, assignor to Peerless Key-Imperial Mfg. Co., New York, N. Y. Paper fastener. 2,328,268; Aug. 31.
General Aniline & Film Corporation. (See Doser, A., Bayer, and Hintzmann, assignors.)
General Arc Lighting Company. (See Baruch, S. N., and Weinberg, assignors.)
General Electric Company. (See Atchison, Leonard W., assignor.)
General Electric Company. (See Bertram, John, assignor.)
General Electric Company. (See Carlson, G., and Clark, assignors.)
General Electric Company. (See D'Alello, Gaetano F., assignor.)
General Electric Company. (See Dornte, Ralph W., assignor.)
General Electric Company. (See Dunham, George W., assignor.)
General Electric Company. (See Foster, Levin W., assignor.)
General Electric Company. (See Hedman, Sverker N., assignor.)
General Electric Company. (See Kiltie, Ordean, assignor.)
General Electric Company. (See Lange, C. W., and Wentz, assignors.)
General Electric Company. (See Leonard, Vincent W., assignor.)
General Electric Company. (See Summers, Claude M., assignor.)
General Electric Company. (See West, Clifford S., assignor.)
General Motors Corporation. (See Cobb, Leland D., assignor.)
General Motors Corporation. (See Kucher, Andrew A., assignor.)
General Motors Corporation. (See Marvin, John T., assignor.)
General Railway Signal Company. (See Wight, Sedgwick N., assignor.)
Geyer, Walter, Berlin, Germany; vested in the Alien Property Custodian. Film splicing device. 2,328,447; Aug. 31.
Giguere, Frederick H., Joliet, Ill. Poultry housing. 2,328,209; Aug. 31.
Gilford, Charles F., Concord, Mass. Safety razor. 2,328,336; Aug. 31.
Gloor, Walter E., Milltown, N. J., assignor to Hercules Powder Company, Wilmington, Del. Molding material. 2,328,269; Aug. 31.
Goldberg, Leon, New York, N. Y. Sleeve shortener. 2,328,137; Aug. 31.
Goodman, Jack, Chicago, Ill. Means for preventing ice formation on aircraft wings. 2,328,079; Aug. 31.
Gosser, Frank L., Miami, Fla. Collapsible trailer. 2,328,138; Aug. 31.
Green, Emmet M., Los Angeles, Calif. Engine lubricator. 2,328,005; Aug. 31.
Green, Emmet M., Los Angeles, Calif. Engine lubricator. 2,328,006; Aug. 31.
Green, Emmet M., Los Angeles, Calif., assignor to Lincoln Engineering Company, St. Louis, Mo. Lubricator. 2,328,004; Aug. 31.
Greenberg, Harry D., New York, N. Y. Oscillatory hammer. 2,328,270; Aug. 31.
Greene, Joseph R., and F. A. Cox, assignors to Solar Aircraft Company, San Diego, Calif. Clamping tool. 2,328,271; Aug. 31.
Greiner, Anton F., Detroit, Mich. Universal joint. 2,328,139; Aug. 31.
Grieb, Everett F. (See Kienle, R. H., Park, Benbrook, and Grieb.)
Griswold, Donald G., assignor to Clayton Manufacturing Company, Alhambra, Calif. Check valve. 2,328,007; Aug. 31.
Griswold, Donald G., assignor to Clayton Manufacturing Company, Alhambra, Calif. Valve. 2,328,008; Aug. 31.
Griswold, Donald G., assignor to Clayton Manufacturing Company, Alhambra, Calif. Check valve. 2,328,009; Aug. 31.
Griswold, Donald G., assignor to Clayton Manufacturing Company, Alhambra, Calif. Check valve. 2,328,010; Aug. 31.
Groen, Fred H., Jr., assignor to Groen Mfg. Co., Chicago, Ill. Kettle. 2,328,210; Aug. 31.
Groen Mfg. Co. (See Groen, Fred H., Jr., assignor.)
Gross, Alfred G. (See Brace, G. A., and Gross.)
Grove, Don E., West Los Angeles, and J. D. Comstock, assignors to Hollywood Liquefier Corporation, Los Angeles, Calif. Juice extractor. 2,328,526; Aug. 31.
Gubelmann, William S., Convent, N. J. Cash register. 2,328,272; Aug. 31.
Gustafsson, Eric, and J. W. Baur, assignors to Binks Manufacturing Company, Chicago, Ill. Universally adjustable automatic spraying device. 2,328,448; Aug. 31.
Haas, Otto R., North Beverly, Mass., assignor to United Shoe Machinery Corporation, Borough of Flemington, N. J. Shoe sewing machine. 2,328,011; Aug. 31.
Haas, Otto R., North Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Shoe sewing machine. 2,328,070; Aug. 31.
Haberstump, Alfred H., Detroit, Mich., assignor to The Murray Corporation of America. Cultivator. 2,328,449; Aug. 31.
Hagen, Wolfgang, Berlin, Germany; vested in the Alien Property Custodian. Carrier frequency system. 2,328,450; Aug. 31.
Hahn, John H., assignor to Monsanto Chemical Company, St. Louis, Mo. Catalysts resulting from hydrolysis of alloys of catalytic metals and hydrolyzable metals. 2,328,140; Aug. 31.
Hale, Jesse W., Newton, Mass. Change speed device. 2,328,273; Aug. 31.
Hallock, David H. (See Belt, C. B., and Hallock.)
Halmos, Charles. (See Polgár, A., and Halmos.)
Haltenberger, Jules, Ann Arbor, Mich. Suspension means for automobile transmissions. 2,328,141; Aug. 31.
Hamilton, Edwina W., Lubbock, Tex. Traveling case for portable radio receivers. 2,328,012; Aug. 31.
Hanauer, Henry J., assignor to Badger Carton Company, Milwaukee, Wis. Coat hanger. 2,328,142; Aug. 31.
Hanchock, William G., Detroit, Mich. Reciprocating electromagnetic motor. 2,328,337; Aug. 31.
Hanle, Benjamin W., Elizabeth, N. J., assignor to Eagle Pencil Company. Fountain pen. 2,328,143; Aug. 31.
Hanney, Angus F., assignor to The American Laundry Machinery Company, Norwood, Ohio. Washing machine formula control. 2,328,073; Aug. 31.
Hans, Edmund E., Detroit, Mich. Fan. 2,328,072; Aug. 31.
Hansen, Christian L., Pewaukee, Wis. Storage and dispensing apparatus. 2,328,080; Aug. 31.
Hansen, John N. (See Smith, F. B., and Hansen.)
Harper, Kennard W., East Aurora, and E. O. Roeder, Ebenezer, assignors to Spencer Lens Company, Buffalo, N. Y. Microscope. 2,328,211; Aug. 31.
Harris, Samuel B., Cristobal, Canal Zone. Closure seal. 2,328,068; Aug. 31.
Harris-Seybold-Potter Company. (See Wood, William H., assignor.)
Hartmann Trunk Company. (See Ritter, Julius, Jr., assignor.)
Haspel, Wilhelm, Stuttgart-Heumaden, Germany; vested in the Alien Property Custodian. Vehicle. 2,328,144; Aug. 31.
Hattan, Mark, Dayton, Ohio. End fitting for high pressure hose. 2,328,013; Aug. 31.
Hauptman, Wesley R., Los Angeles, Calif. Cologne container. 2,328,338; Aug. 31.
Hazen, Lysle L., Detroit, Mich. Earth drilling mechanism. 2,328,274; Aug. 31.
Heard, Joseph R., Jr., New York, N. Y., assignor, by mesne assignments, to Wyandotte Chemicals Corporation, Wyandotte, Mich. Catalytic process for purifying ethylene. 2,328,275; Aug. 31.
Heath, Earl L., Marinette, Wis. Vehicle wheel lock. 2,328,339; Aug. 31.
Hedman, Sverker N., Stoneham, Mass., assignor to General Electric Company. Elastic fluid turbine arrangement. 2,328,451; Aug. 31.
Heigis, Henry E., West Orange, assignor to Specialties Development Corporation, Bloomfield, N. J. Fire detecting and extinguishing system. 2,328,014; Aug. 31.
Heiner, Everette J., Fresno, Calif., assignor of one-third to H. Cleason, and one-third to L. J. Heiner. Electric swivel. 2,328,212; Aug. 31.
Heiner, Louis J., et al. (See Heiner, Everette J., assignor.)
Henderson, Byron R., East Orange, N. J. Control apparatus. 2,328,340; Aug. 31.
Hercules Powder Company. (See Gloor, Walter E., assignor.)
Hercules Powder Company. (See Mayfield, Evart E., assignor.)
Hewson, Bertram T., London, England. Color television. 2,328,145; Aug. 31.
Higgins, Allan H. W. (See Fischer, H. C., and Higgins.)
Higgins, Andrew J., and J. M. Poche, New Orleans, La. Coupling hook. 2,328,341; Aug. 31.
Hill, Laurence B., and E. G. Moshier, assignors to L. C. Smith & Corona Typewriters, Inc., Syracuse, N. Y. Typewriting machine. 2,328,146; Aug. 31.
Hintzmann, Karl. (See Doser, A., Bayer, and Hintzmann.)
Hirt, Rudolf. (See Martin, H., Zaeslin, Hirt, and Staub.)
Hobart Bros. Company, The. (See Hobart, Edward A., assignor.)
Hobart, Edward A., assignor to The Hobart Bros. Company, Troy, Ohio. Speed regulator for engines. 2,328,452; Aug. 31.
Hoffmann-La Roche, Inc., et al. (See Mead, M. W., Jr., and Lee, assignors.)
Hoffmann-La Roche Inc. (See Schnider, Otto, assignor.)
Hollenback, George M., Los Angeles, Calif. Amalgamator. 2,328,213; Aug. 31.
Hollywood Liquefier Corporation. (See Grove, D. E., and Comstock, assignors.)

Holmes, Bradford B., New York, N. Y., assignor to Bendix Aviation Corporation, Bendix, N. J. Oxygen regulator. 2,328,214; Aug. 31.
Holmes, Edward A., Sandersville, Ga. Pea hulling machine. 2,328,015; Aug. 31.
Hoover Company, The. (See Becker, Bernard C., assignor.)
Hoover Company, The. (See Brace, G. A., and Gross, assignors.)
Hoover Company, The. (See Coons, Curtis C., assignor.)
Hoover Company, The. (See Coons, C. C., and Kitto, assignors.)
Hoover Company, The. (See Stoner, Thomas A., assignor.)
Hoover Company, The. (See Troxler, Charles G., assignor.)
Hopewell, Robert, Luton, England. Floor construction. 2,328,453; Aug. 31.
Hornkem Corporation. (See Daniel, Friedrich K., assignor.)
Horvath, Anthony G. (See Eickmeyer, E. E., and Horvath.)
Horváth, Josef, Budapest, Hungary; vested in The Alien Property Custodian. Latticelike stiffening ribbing for structural plates. 2,328,454; Aug. 31.
Howard, Lawrence M., assignor to Knapp-Monarch Company, St. Louis, Mo. Heating pad thermostat. 2,328,342; Aug. 31.
Hoy, Clarence A. (See Stover, R. B., and Hoy.)
Huelster, Otto J., assignor to Scovill Manufacturing Company, Waterbury, Conn. One-way detachable snap fastener. 2,328,016; Aug. 31.
Hughes, Everett C. (See Burk, R. E., and Hughes.)
Hultquist, Martin E., Plainfield, and M. L. Crossley, Bound Brook, N. J., assignors to American Cyanamid Company, New York, N. Y. N'-alkali metal-N', N4-dihalogenacyl-sulphanilamides. 2,328,455; Aug. 31.
Humphreys, Ellis, assignor to Mississippi Glass Company, St. Louis, Mo. Apparatus for studying illumination. 2,328,456; Aug. 31.
Hunt, Harold L., New York, N. Y. Land mine. 2,328,276; Aug. 31.
Hunt, Harold L., New York, N. Y. Bomb. 2,328,277; Aug. 31.
Hunter, Archibald S., Kenmore, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Manufacture of textile yarn. 2,328,074; Aug. 31.
Hydraulic Development Corporation, Inc., The. (See Ernst, Walter, assignor.)
Hyson, John A., Merwood Park, and J. H. Kerrick, assignors to The Philadelphia and Reading Coal and Iron Company, Philadelphia, Pa. Fuel mixture. 2,328,147; Aug. 31.
Iavelli, Teno. (See Neracher, C. A., Dunn, Syrovy, Iavelli, Bucy, and Schotz.)
Industrial Patents Corporation. (See Sanders, Marion D., assignor.)
Industrial Rayon Corporation. (See Fryer, L. S., and Jokilehto, assignors.)
Ingersoll-Rand Company. (See Fuehrer, George H., assignor.)
Innes, George, Davenport, Iowa. Grain handling mechanism. 2,328,278; Aug. 31.
International Cellucotton Products Company. (See Thompson, Oscar T., assignor.)
International Projector Corporation. (See Borberg, Willy, assignor.)
Irmscher, Hans O., New York, N. Y., assignor to Millie Patent Holding Co., Inc. Package and making the same. 2,328,017; Aug. 31.
Irmscher, Hans O., New York, N. Y., assignor to Millie Patent Holding Co., Inc. Package and making the same. 2,328,018; Aug. 31.
Ische, George H. (See Nilson, Harold, assignor.)
Jackson, John G., assignor to Square D Company, Detroit, Mich. Circuit breaker. 2,328,457; Aug. 31.
Jackson, John G., and O. Maseng, assignors to Square D Company, Detroit, Mich. Circuit breaker. 2,328,458; Aug. 31.
Jacob, Thomas H., Wausau, Wis. Adjustable trailer hitch. 2,328,343; Aug. 31.
Jacobowitz, Arnold, Buffalo, N. Y. Filter. 2,328,148; Aug. 31.
Jacobs, Marcellus L., Minneapolis, Minn. Burglar alarm for motor vehicles. 2,328,215; Aug. 31.
Jaeckel, Adolph C., assignor to A. O. Smith Corporation, Milwaukee, Wis. Apparatus for pug making. 2,328,071; Aug. 31.
Jaffe, Samuel R., Chicago, Ill. Pipe joint. 2,328,381; Aug. 31.
Jefferson Electric Company. (See Pearson, Oscar A., assignor.)
Jenkins, Alexander. (See Thompson, L. E., and Jenkins.)
Joachim, Joseph G., assignor to Ferro Stamping & Manufacturing Company, Detroit, Mich. Latch construction. 2,328,216; Aug. 31.
Johnson, Arden L., assignor to Tomkins-Johnson Company, Jackson, Mich. Rivet carrier for riveting machines. 2,328,149; Aug. 31.
Johnson, Arthur A., Bridgeport, Conn., assignor to Autographic Register Company, Hoboken, N. J. Manifolding stationery. 2,328,081; Aug. 31.
Johnson, Donald C., Berkeley, Calif. Surveying instrument. 2,327,982; Aug. 31.
Johnson Laboratories, Inc. (See Berge, Godshalk, assignor.)
Johnson, Orville H., Wausa, Nebr., assignor to James R. Kearney Corporation, St. Louis, Mo. Guy tongs. 2,328,217; Aug. 31.
Johnson, Paul P. (See Thoren, T. R., and Johnson.)
Johnson, William B., U. S. Army. Retractible spout. 2,328,020; Aug. 31.
Jokilehto, Wayne J. (See Fryer, L. S., and Jokilehto.)
Jones, Charles H., Warwick, R. I., assignor to Universal Winding Company, Boston, Mass. Winding machine. 2,328,344; Aug. 31.
Jones, Edwin A., Shorewood, Wis. Automatic control means for heating devices. 2,328,279; Aug. 31.
Jones, Edwin A., Shorewood, Wis. Control means and system of control for heating devices. 2,328,280; Aug. 31.
Jones, James R., Lakewood, assignor to Art Metal Construction Company, Jamestown, N. Y. Desk. 2,328,019; Aug. 31.
Jones, Walter R., Brooklyn, N. Y. Photographic jigsaw puzzle. 2,328,281; Aug. 31.
Jorgensen, Bernhardt, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Shoe machine. 2,328,077; Aug. 31.
Jorgensen, Jacob C., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Heel-end lasting machine. 2,328,075; Aug. 31.
Karp, Edward J., assignor to G. S. Blakeslee & Co., Cicero, Ill. Driving unit. 2,328,076; Aug. 31.
Katzman, Morris, and A. K. Epstein, assignors to The Emulsol Corporation, Chicago, Ill. Derivatives of amines. 2,328,021; Aug. 31.
Kearney, James R., Corporation. (See Johnson, Orville H., assignor.)
Keefe, Michael E., Jr., assignor to National Powder Extinguisher Corporation, Jersey City, N. J. Fire-extinguishing apparatus. 2,328,345; Aug. 31.
Keiser, Bernhard. (See De Groote, M., and Keiser.)
Kelly, Dwight N., assignor to A. Brandwein & Company, Chicago, Ill. Studio couch. 2,328,218; Aug. 31.
Kemp, Frederick H., Peoria, Ill., assignor to Mid-West Abrasive Company, Detroit, Mich. Finishing stone. 2,328,459; Aug. 31.
Kerrick, Joseph H. (See Hyson, J. A., and Kerrick.)
Kidd, Wilmot H., Sharon, assignor to The Foxboro Company, Foxboro, Mass. Density measuring apparatus. 2,328,460; Aug. 31.
Kienle, Roy H., Bound Brook, R. H. Park, Bridgewater Township, Somerset County, C. H. Benbrook, North Plainfield, and E. F. Grieb, Plainfield, N. J., assignors to American Cyanamid Company, New York, N. Y. Continuous recorder for color changes. 2,328,461; Aug. 31.
Killeffer, David H., Crestwood, N. Y. Refrigerating system. 2,328,462; Aug. 31.
Killeffer, David H., Crestwood, N. Y. Prime mover. 2,328,463; Aug. 31.
Kiltie, Ordean, Fort Wayne, Ind., assignor to General Electric Company. Regulating circuit. 2,328,464; Aug. 31.
Kitto, William H. (See Coons, C. C., and Kitto.)
Knapp-Monarch Company. (See Howard, Lawrence M., assignor.)
Kniepen, Peter, Berlin, Germany; vested in the Alien Property Custodian. Condenser leadin for high electric potentials. 2,328,150; Aug. 31.
Knightson, Harry. (See Lomax, S. C., and Knightson.)
Knowlton Bros. (See Davenport, F. E., Knowlton, and McCormick, assignors.)
Knowlton, David C. (See Davenport, F. E., Knowlton, and McCormick.)
Koch, Stanley J. (See Christaldi, P. S., and Koch.)
Kock, Winston E., assignor to The Baldwin Company, Cincinnati, Ohio. Electrical musical instrument. 2,328,282; Aug. 31.
Koester, Melvin C. (See Williams, C. B., and Koester.)
Kopp, Georges, Paris, France; vested in the Alien Property Custodian. Metalliferous substantive dyestuffs. 2,328,465; Aug. 31.
Koppitz, Carl G., and A. M. Zeth, assignors to Railway and Industrial Engineering Company, Greensburg, Pa. Disconnect switch. 2,328,283; Aug. 31.
Krochmal, Henry, Elizabeth, N. J. Dividing head. 2,328,346; Aug. 31.
Krueger, Theodore H., Stratford, Conn., assignor to Better Packages Incorporated. Tape serving machine. 2,328,022; Aug. 31.
Krzeciessa, Walter E. H., K. G. Scheibel, and A. A. Bohmann, Dresden, Germany; vested in the Alien Property Custodian. Mechanism for controlling movements. 2,328,466; Aug. 31.
Kucher, Andrew A., Oakwood, assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,328,151; Aug. 31.
Kuhn, Frank, Detroit, and L. H. Thomas, Birmingham, assignors to American Electrical Heater Company, Detroit, Mich. Thermostatic unit and connection for electric irons. 2,328,152; Aug. 31.
Kugler, Harry C., York, assignor to Superior Wire Cloth Company, Hungerford, Pa. Apparatus for drying wire screen. 2,328,078; Aug. 31.
Kuo, Zing Y., Boston, Mass. Incubation of eggs. 2,328,347; Aug. 31.

Kurtz, Max, New York, N. Y., assignor to Max Kurtz and Joseph M. Ross, jointly, both of New York, N. Y. Ski spreader. 2,328,069; Aug. 31.

La Casse, William J., assignor to The Coolerator Company, Duluth, Minn. Refrigerator. 2,328,467; Aug. 31.

Lacoe, Ralph D., San Diego, Calif. Airplane stall and high-speed indicating apparatus. 2,328,384; Aug. 31.

Laffly, Edmond G., Paris, France; vested in the Alien Property Custodian. Coupling device for the assembly of tubular elements. 2,328,468; Aug. 31.

Laffly, Edmond G., Paris, France; vested in the Alien Property Custodian. Coupling device. 2,328,469; Aug. 31.

Laing, Alexander W., Miami, Fla. Trim tool. 2,328,153; Aug. 31.

Lampton, Glen T., Williamsport, Pa., assignor, by mesne assignments, to The Aviation Corporation, New York, N. Y. Manufacture of propeller blades. 2,328,348; Aug. 31.

Land, Edwin H., assignor to Polaroid Corporation, Cambridge, Mass. Light polarizer and manufacture. 2,328,219; Aug. 31.

Lane-Wells Company. (See Alexander, Ford I., assignor.)

Lane-Wells Company. (Turechek, George F., assignor.)

Lane-Wells Company. (See Turechek, G. F., and Spencer, assignors.)

Landis Tool Company. (See Balsiger, Harold E., assignor.)

Lang, Joseph C., Pittsburgh, Pa., assignor to Bocji Corporation. Blind rivet. 2,328,023; Aug. 31.

Lang, Otto. (See Niederreither, H., and Lang.)

Lange, Carl W., and J. K. Wentz, Erie, Pa., assignors to General Electric Company. Dynamoelectric machine coil support. 2,328,470; Aug. 31.

Langdon, Jesse D., Los Angeles, Calif. Flexible check valve and vacuum breaker. 2,328,382; Aug. 31.

Latta Syndicate Limited. (See Tull, Alan G., assignor.)

Lawrence, Warren A., Hayesville, Ohio. Tailgate mechanism. 2,328,082; Aug. 31.

Laws, John H., Detroit, Mich. Valve. 2,328,349; Aug. 31.

Lea, George D., Downers Grove, and J. S. Stull, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Article handling apparatus. 2,328,383; Aug. 31.

Lederle Laboratories, Inc. (See Oleson, Jerome J., assignor.)

Lee, John. (See Mead, M. W., Jr., and Lee.)

Lehigh Structural Steel Company. (See Taylor, Frank H., assignor.)

Leffel, James D., Bridgeport, Conn., assignor to Remington Rand Inc., Buffalo, N. Y. Drawing fixture. 2,328,471; Aug. 31.

Lehane, Timothy J., and E. H. Burgess, assignors to Vapor Car Heating Company, Inc., Chicago, Ill. Split evaporator for cooling systems. 2,328,472; Aug. 31.

Leonard, Elof R. (See Davis, R. W., and Leonard.)

Leonard, Vincent W., Saugus, Mass., assignor to General Electric Company. Electrical system. 2,328,473; Aug. 31.

Lennholm, Gustav A., assignor to Square D Company, Detroit, Mich. Electric switch. 2,328,154; Aug. 31.

Le Tourneau, Robert G., Peoria, Ill., assignor to R. G. Le Tourneau, Inc. Expansion joint. 2,328,155; Aug. 31.

Le Tourneau, R. G., Inc. (See Le Tourneau, Robert G., assignor.)

Levitt, John B. (See Morgan, J. D., and Levitt.)

Lewis, John, Ardsley, N. Y. Stretching device. 2,328,474; Aug. 31

Libbey-Owens-Ford Glass Company. (See Lindenmeyer, Elmer H., assignor.)

Libbey-Owens-Ford Glass Company. (See White, Gerald, assignor.)

Libbey-Owens-Ford Glass Company. (See Williams, C. B., Jr., and Koester, assignors.)

Limb, Marcus G., assignor to Cape Cod Instrument Company, Hyannis, Mass. Radio direction finder. 2,328,024; Aug. 31.

Lincoln Engineering Company. (See Green, Emmet M., assignor.)

Lindenmeyer, Elmer H., Ottawa, Ill., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Sand blasting apparatus. 2,328,350; Aug. 31.

Linderoth, Erik T., Enkoping, Sweden. Rotary deflection separator. 2,328,220; Aug. 31.

Line Material Company. (See Steinmayer, Alwin G., assignor.)

Lineback, Thomas J., St. Louis, assignor of one-fourth to E. J. Morse, Clayton, Mo. Mattress or the like. 2,328,083; Aug. 31.

Lipshaw, Julius, Detroit, Mich. Specimen blade sharpener. 2,328,221; Aug. 31.

Little, George A. (See Ducker, L. F., and Little.)

Löckmann, Hans W., Bielefeld, and H. Wana, Berlin, Germany; vested in the Alien Property Custodian. Endless belt. 2,328,475; Aug. 31.

Lomax, Sydney C., and H. Knightson, Barking, England. Container. 2,328,084; Aug. 31.

London, Bessie P., Baltimore, Md. Massaging apparatus. 2,328,156; Aug. 31.

Luck, David G. C., Haddon Heights, N. J., assignor to Radio Corporation of America. Omnidirectional range. 2,328,476; Aug. 31.

Luers, John Milton, Patents Incorporated. (See Luers, John M., assignor.)

Luers, John M., Mount Clemens, assignor to John Milton Luers Patents Incorporated, Detroit, Mich. Toolholder. 2,328,477; Aug. 31.

Luneburg, Rudolf K., assignor to Spencer Lens Company, Buffalo, N. Y. Objective. 2,328,157; Aug. 31.

Lyon Metal Products, Incorporated. (See Bales, James E., assignor.)

Maccarini, Carlo, Springfield, Mass. Application of cords to food products. 2,328,085; Aug. 31.

MacDonald, Alexander D., Malden, assignor to B. B. Chemical Co., Boston, Mass. Polymerized chloroprene compositions. 2,328,351; Aug. 31.

MacDonald, Alexander D., Malden, assignor to B. B. Chemical Co., Boston, Mass. Liquid compositions containing polymerized chloroprene. 2,328,352; Aug. 31.

Macdonald, Lester S., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Inseam joint forming machine. 2,328,086; Aug. 31.

MacDonald, George S., Buffalo, and J. E. Trafton, Kenmore, assignors to Spencer Lens Company, Buffalo, N. Y. Optical instrument. 2,328,284; Aug. 31.

MacDougall, Seymour E., Buffalo, N. Y. Dental flask. 2,328,285; Aug. 31.

MacIntire, Walter H., Knoxville, Tenn., assignor to American Zinc, Lead & Smelting Company, St. Louis, Mo. Making heavy magnesium oxide. 2,328,286; Aug. 31.

Mackenzie, Neil M., Bound Brook, N. J., assignor to American Cyanamid Company, New York, N. Y. Azo dyestuff intermediate. 2,328,353; Aug. 31.

Magee, Robert B., assignor to The Buckeye Traction Ditcher Company, Findlay, Ohio. Driving mechanism for hoists. 2,328,088; Aug. 31.

Mahler, Esther, Philadelphia, Pa. Girdle or the like. 2,328,385; Aug. 31.

Manning, Bowman & Co. (See Young, Allan M., assignor.)

Martin-Decker Corporation. (See Santhoff, Walter F., assignor.)

Martin, Edward J., East Chicago, Ind., assignor to Sinclair Refining Company, New York, N. Y. Art of refining. 2,328,158; Aug. 31.

Martin, Henry, Basel, H. H. Zaeslin, Riehen, near Basel, R. Hirt, and A. Staub, assignors to J. R. Geigy A. G., Basel, Switzerland. Preparation of halogen substituded aminoarylsulphonic acid derivatices. 2,328,159; Aug. 31.

Martin, John W., Brooklyn, N. Y. Holder for mops and other articles. 2,328,287; Aug. 31.

Marvin, John T., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Fluid sealing device. 2,328,160; Aug. 31.

Maseng, Olav. (See Jackson, J. G., and Maseng.)

Mason, Warren P., West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Piezoelectric transducer. 2,328,478; Aug. 31.

Mathieu, Francois, Moissac, France; vested in the Alien Property Custodian. Electric oven for high temperatures working under vacuum or under neutral gas. 2,328,479; Aug. 31.

Mattes, Harold C., and L. J. Wronke, assignors to Belmont Radio Corporation, Chicago, Ill. Indicating means. 2,328,531; Aug. 31.

Matthews, W. N., Corporation. (See Birkenmaier, Theodore, assignor.)

Mawicke, Clement A., Wilmette, and H. W. Olsen, Chicago, Ill.; said Olsen assignor to said Mawicke. Register rail for double printing. 2,328,480; Aug. 31.

Maxim, Hiram H., assignor to The Maxim Silencer Company, Hartford, Conn. Water cooled silencer. 2,328,161; Aug. 31.

Maxim Silencer Company, The. (See Maxim, Hiram H., assignor.)

Mayfield, Evart E., assignor to Hercules Powder Company, Wilmington, Del. Bituminous emulsion and producing. 2,328,481; Aug. 31.

McCann, Michael, Ozone Park, N. Y., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Safety device for sewing machines. 2,328,527; Aug. 31.

McCann, Paul S., La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Conveyer system. 2,328,386; Aug. 31.

McConnell, John L., Evanston, Ill., assignor to Central Scientific Co. Thermometer armor. 2,328,528; Aug. 31.

McCarty, Malcolm D., Dallas, Tex., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Geophone. 2,328,222; Aug. 31.

McCormick, Robert W. (See Davenport, F. E., Knowlton, and McCormick.)

McDonald, Dorothy L., assignor to H. M. McDonald, Evanston, Ill. Undergarment. 2,328,087; Aug. 31.

McDonald, Herman M. (See McDonald, Dorothy L., assignor.)

McNeil Machine & Engineering Company, The. (See Soderquist, Leslie E., assignor.)

Milwaukee Gas Specialty Company. (See Thornbery, John H., assignor.)

Mead, Morris W., Jr., Bloomfield, and J. Lee, assignors of one-half to Hoffmann-La Roche, Inc., Nutley, N. J., and one-half to National Grain Yeast Corp. Production of yeast having high vitamin B_1 potency. 2,328,025; Aug. 31.

Meats, William H., assignor to The Eagle Engineering Company Limited, Warwick, England. Trailer vehicle. 2,328,387; Aug. 31.

Mercil, Elmer J., Oak Park, Ill., assignor to Mercil Plating Equipment Company, Chicago, Ill. Plating tank. 2,328,162; Aug. 31.

Mercil Plating Equipment Company. (See Mercil, Elmer J., assignor.)

Merck & Co. (See Finkelstein, Jacob, assignor.)

Merrill, Fred B., Jackson, Miss. Cap for foundation vents. 2,328,288; Aug. 31.

Michigan Maple Block Company. (See Schmitt, Frederick J., Jr., assignor.)

Middleton, Leslie H., Toledo, Ohio. Battery filling vent. 2,328,223; Aug. 31.

Mid-West Abrasive Company. (See Kemp, Frederick H., assignor.)

Miller, George F., et al. (See Butts, Richard R., assignor.)

Millie Patent Holding Co. (See Irmscher, Hans O., assignor.)

Minnesota and Ontario Paper Company. (See Barrett, William, assignor.)

Minnesota and Ontario Paper Company. (See Bull, Alvah S., assignor.)

Minnesota Mining & Manufacturing Company. (See Coulter, Robert I., assignor.)

Minnesota Mining & Manufacturing Company. (See Drew, Richard G., assignor.)

Mississippi Glass Company. (See Humphreys, Ellis, assignor.)

Monsanto Chemical Company. (See Hahn, John H., assignor.)

Monsanto Chemical Company. (See Thomas, Charles A., assignor.)

Montano, Elizabeth, Palm City, Calif. Baby feeding device. 2,328,354; Aug. 31.

Moore, Arthur T., and C. R. Ebling, Batavia, N. Y.; said Ebling assignor to said Moore. Method of and apparatus for washing garments or the like. 2,328,026; Aug. 31.

Moore, Coleman B., Carroll Park, assignor to The Brown Instrument Company, Philadelphia, Pa. Measuring instrument. 2,328,163; Aug. 31.

Moorehead, Robert J., Riverside, Calif. Clamp truck. 2,328,224; Aug. 31.

Morey, James J., Brooklyn, N. Y. Radio frequency induction heating apparatus. 2,328,225; Aug. 31.

Morgan Construction Company. (See Morgan, M., and Whalen, assignors.)

Morgan, John D., South Orange, and P. B. Levitt, Millburn, N. J., assignors to Cities Service Oil Company, New York, N. Y. Engine leakage meter. 2,328,289; Aug. 31.

Morgan, Myles, Worcester, and J. N. Whalen, Boylston, assignors to Morgan Construction Company, Worcester, Mass. Handling of rod bundles or the like. 2,328,388; Aug. 31.

Morrison, Harry. (See Saunders, S. G., and Morrison.)

Morse, Emil J. (See Lineback, Thomas J., assignor.)

Moshier, Edson G. (See Hill, L. B., and Moshier.)

Müller, Rudolph, Elizabeth, N. J. Blade adjustment for wood planers. 2,328,389; Aug. 31.

Murray Corporation of America, The. (See Haberstump, Alfred H., assignor.)

Murray, Otis W. (See Sease, V. B., and Murray.)

Muller, Ignaz, New York, N. Y. Manufacture of separators. 2,328,027; Aug. 31.

Mulligan, John J., East Chicago, Ind., assignor to L. R. Birkenstein. Recovery of soluble lead salts from insoluble lead compounds. 2,328,089; Aug. 31.

Nachumsohn, Irving, Chicago, Ill. Washing machine. 2,328,226; Aug. 31.

Nash-Kelvinator Corporation. (See Wahlberg, N. E., and Berry, assignors.)

Nash-Kelvinator Corporation. (See Wahlberg, N. E., and Wood, assignors.)

National Automotive Fibres, Inc. (See Davies, Clarence J., assignor.)

National Fiberstok Envelope Co. (See Blizard, J. W., F., and Peters, assignors.)

National Grain Yeast Corp., et al. (See Mead, M. W., Jr., and Lee, assignors.)

National Oil Products Company. (See Buxton, Loran O., assignor.)

National Powder Extinguisher Corporation. (See Keefe, Michael E., Jr., assignor.)

Nelson, Fred C., St. Paul, Minn. Piston and ring assembly. 2,328,390; Aug. 31.

Nelson, Jabez C., assignor to Easy Washing Machine Corporation, Syracuse, N. Y. Agitator for washing machines. 2,328,482; Aug. 31.

Nelson, Raymond E., Seattle, Wash. Riveting tool. 2,328,391; Aug. 31.

Neracher, Carl A., W. T. Dunn, A. J. Syrovy, T. Iavelli, R. T. Bucy, and O. W. Schotz, Detroit, assignors to Chrysler Corporation, Highland Park, Mich. Power transmission. 2,328,392; Aug. 31.

Neracher, Carl A., and W. T. Dunn, Detroit, assignors to Chrysler Corporation, Highland Park, Mich. Fluid coupling. 2,328,393; Aug. 31.

Neuman, Jacob J., South Salem, N. Y. Full automatic centrifugal extractor machine. 2,328,394; Aug. 31.

Neuman, Jacob J., South Salem, N. Y. Apparatus for processing sugar and the like. 2,328,395; Aug. 31.

Neuman, Jacob J., South Salem, N. Y. Full automatic centrifugal extractor machine. 2,328,396; Aug. 31.

Neuman, Jacob J., South Salem, N. Y. Throw-away pallet. 2,328,397; Aug. 31.

Neuman, Leonard J. (See Furse, Dean H., and Neuman.)

New Jersey Machine Corporation. (See von Hofe, George W., assignor.)

Niederreither, Hans, and O. Lang, Munich, Germany; vested in the Alien Property Custodian. Making cementitious building units. 2,328,290; Aug. 31.

Nilson, Harold, Wayzata, Minn., assignor to George H. Ische, Milwaukee, Wis. Lifting apparatus. 2,328,483; Aug. 31.

Northern Engineering Works. (See Schaitberger, Daniel A., assignor.)

Nutt, Harold, and H. V. Reed, assignors to Borg-Warner Corporation, Chicago, Ill. Clutch system. 2,328,090; Aug. 31.

Nutt, Harold, Chicago, and R. L. Smirl, Bellwood, assignors to Borg-Warner Corporation, Chicago, Ill. Fluid operated clutch. 2,328,091; Aug. 31.

Nutt, Harold, Chicago, and R. L. Smirl, Bellwood, assignors to Borg-Warner Corporation, Chicago, Ill. Fluid operated clutch. 2,328,092; Aug. 31.

O. K. Tool Company, The. (See Reaney, Ernest, assignor.)

O'Connor, Arthur F., assignor to Union Asbestos & Rubber Company, Chicago, Ill. Convertible ice bunker for refrigerator cars. 2,328,529; Aug. 31.

Odenbach Holding Corporation. (See Odenbach, John H., assignor.)

Odenbach, John H., assignor to Odenbach Holding Corporation, Rochester, N. Y. Ship construction. 2,328,028; Aug. 31.

Oleson, Jerome J., Pearl River, assignor to Lederle Laboratories, Inc., New York, N. Y. Animal growth promoting substance. 2,328,355; Aug. 31.

Olsen, Harold W. (See Mawicke, C. A., and Olsen.)

Oosterhuis, Albert G., Amsterdam, Netherlands; vested in the Alien Property Custodian. Preparation of nitrogen chloride. 2,328,484; Aug. 31.

Orefraction Incorporated. (See Wiegand, Edwin L., assignor.)

Orr, Palmer, Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill. Transmission control. 2,328,227; Aug. 31.

Osborn, William D., and H. R. Crane, Los Angeles, Calif. Kite type sewer washer. 2,328,093; Aug. 31.

Osborn, William D. (See Crane, H. R., and Osborn.)

Osborne, Carl W., Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill. Automatic transmission. 2,328,291; Aug. 31.

Ott, John E., Lisle Township, Du Page County, assignor to Acme Steel Company, Chicago, Ill., Strip metal package. 2,328,356; Aug. 31.

Ott, Harry G., assignor to Waltham Watch Company, Waltham, Mass. Indicating instrument. 2,328,485; Aug. 31.

Owens-Corning Fiberglas Corporation. (See Simison, Allen L., assignor.)

Owens-Illinois Glass Company. (See Stover, R. B., assignor), and Hoy.)

Pacific Electric Manufacturing Corporation. (See Schwager, A. C., and Garrison, assignors.)

Packard Motor Car Company. (See Bogardus, Leonard R., assignor.)

Painter, Walter S., Middlebury, assignor to Waterbury Buckle Company, Waterbury, Conn. Stud-plate unit for hose supporters and the like. 2,328,486; Aug. 31.

Painter, William H., Short Hills, N. J., assignor to Radio Corporation of America. Depositing phosphor materials. 2,328,292; Aug. 31.

Park, Robert H. (See Kienle, R. H., Park, Benbrook, and Grieb.)

Paterson Engineering Company Limited, The. (See Royce, John G., assignor.)

Pearson, Oscar A., Oak Park, assignor to Jefferson Electric Company, Bellwood, Ill. Core assembly. 2,328,228; Aug. 31.

Pearson, Otto H., assignor to L. N. Strike, Salt Lake City, Utah. Pressing machine. 2,328,229; Aug. 31.

Peat, Arthur R. (See Thompson, P. H., and Peat.)

Peerless Key-Imperial Mfg. Co. (See Gelfand, Alex, assignor.)

Peerless Tube Company. (See Remington, F., and Tartaglia, assignors.)

Perkins, George H., Cleveland, and A. L. Stoeckel, East Cleveland, Ohio, assignors to The American Steel and Wire Company of New Jersey. High speed cutting mechanism. 2,328,164; Aug. 31.

Permutit Company. (See Bowers H. L., and Pick, assignors.)

Perrone, John, New York, N. Y. Potato slicer. 2,328,487; Aug. 31.

Perry, Albert C., Toledo, Ohio. Boat platform for vessels. 2,328,094; Aug. 31.

Petersen, Edgar A., Grosse Pointe, assignor to Chrysler Corporation, Highland Park, Mich. Method and apparatus for forming cores. 2,328,357; Aug. 31.

Peterson, William R., Oswego, assignor to St. Regis Paper Company, New York, N. Y. Bag filling apparatus with hand discharge. 2,328,165; Aug. 31.

Peters, Carl E., assignor to B-L Electric Manufacturing Company, St. Louis, Mo. Rectifier. 2,328,488; Aug. 31.

Peters, Charles G. (See Blizard, J. W. F., and Peters.)

Petrolite Corporation, Ltd. (See De Groote, M., and Keiser, assignors.)

Pfau, Hans, Berlin-Adlershof, Germany; vested in the Alien Property Custodian. Devices for controlling the pressure and temperature in altitude cabins, particularly for airplanes. 2,328,489; Aug. 31.

Phelps, Clyde H. (See Weaver, I. A., and Phelps.)

Philadelphia and Reading Coal and Iron Company, The. (See Hyson, J. A., and Kerrick, assignors.)

Phillips, Mary C., Malden, Mass. Battery holder. 2,328,095; Aug. 31.

Pick, Eric. (See Bowers, H. L., and Pick.)

Pikl, Josef, Pitman, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Organic compound and preparing the same. 2,328,358; Aug. 31.

Pineo, Orrin W., Milo, Maine, assignor to American Cyanamid Company, New York, N. Y. Spectrophotometer monochromator drive. 2,328,293; Aug. 31.

Poche, John M. (See Higgins, A. J., and Poche.)

Pohls, Paul, Wuppertal-Elberfeld, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y. Diphenylsulphone derivative. 2,328,490; Aug. 31.

Polaroid Corporation. (See Land, Edwin H., assignor.)

Polgár, André, and C. Halmos, Paris, France; vested in the Alien Property Custodian. Manufacture of photographic bleaching layers. 2,328,166; Aug. 31.

Porter, George K., Philadelphia, assignor, by mesne assignments, to Fischer & Porter Company, Hatboro, Pa. Flow proportioning device. 2,328,029; Aug. 31.

Posture Research Corporation. (See Wood, Glenn D., assignor.)

Potter, David M., Plainfield, N. J. Connector. 2,328,294; Aug. 31.

Poux, Noel J., Meadville, Pa., assignor to Talon, Inc. Slide fastener stringer tape reinforcement. 2,327,983; Aug. 31.

Provost, Laurence R., Cheyenne, Wyo. Fish lure. 2,328,295; Aug. 31.

Puchner, Erwin, Rome, Italy; vested in the Alien Property Custodian. Bomb comprising a compressed mass of fire extinguishing powder. 2,328,491; Aug. 31.

Rackett, Gerald F., Los Angeles, assignor to Technicolor Motion Picture Corporation, Hollywood, Calif. Cinematographic registering apparatus. 2,328,492; Aug. 31.

Radio Corporation of America. (See Luck, David G. C., assignor.)

Radio Corporation of America. (See Painter, William H., assignor.)

Railway and Industrial Engineering Company. (See Koppitz, C. G., and Zeth, assignors.)

Ramsdell, Frederick M., Worcester, Mass. Tool holder. 2,328,359; Aug. 31.

Ratigan, James P., Los Angeles, Calif. Wedge-type clamp and carrier bar. 2,328,167; Aug. 31.

Reaney, Ernest, Stratford, Conn., assignor to The O. K. Tool Company, Inc., New York, N. Y. Shave-milling steel. 2,328,493; Aug. 31.

Reaney, Ernest, Stratford, Conn., assignor to The O. K. Tool Company, Inc., New York, N. Y. Milling cutter. 2,328,494; Aug. 31.

Reed, Claude D., Lebanon, Pa., assignor to Bethlehem Steel Company. Method and apparatus for nut manufacture. 2,328,495; Aug. 31.

Reed, Harold V. (See Nutt, H., and Reed.)

Reevely, Frederick R., St. Lambert Quebec, Canada, assignor to Western Electric Company, Incorporated, New York, N. Y. Treating strands. 2,328,096; Aug. 31.

Reid, Effie R., executrix. (See Reid, Roswell S.)

Reid, Roswell S., deceased, by E. R. Reid, executrix, assignor to West Virginia Newspaper Publishing Company, Morgantown, W. Va. Display printing machine. 2,328,097; Aug. 31.

Remington, Frederic, Elizabeth, and R. A. Tartaglia, East Orange, assignors to Peerless Tube Company, Bloomfield, N. J. Making lead articles. 2,328,098; Aug. 31.

Remington Rand Inc. (See Leffel, James D., assignor.)

Richards, William H., Dayton, Ohio. Hot-air heater. 2,328,030; Aug. 31.

Richfield Oil Corporation. (See Craig, Wallace A., assignor.)

Rigoulot, Ulysses C., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Glare shield mounting. 2,328,360; Aug. 31.

Risley, Roger E., assignor to Dresser Manufacturing Company, Bradford, Conn. Pipe clamp and method and apparatus for applying same. 2,328,031; Aug. 31.

Risley, Roger E., assignor to Dresser Manufacturing Company, Bradford, Pa. Pipe clamp. 2,328,168; Aug. 31.

Ritter, John G., Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Fluid translating apparatus. 2,328,296; Aug. 31.

Ritter, Julius, Jr., assignor to Hartmann Trunk Company, Racine, Wis. Wardrobe case cover stay device. 2,328,099; Aug. 31.

Ritter, Julius, Jr., assignor to Hartmann Trunk Company, Racine, Wis. Hand luggage construction. 2,328,100; Aug. 31.

Roberts, Floyd F., administrator. (See Roberts, Richard.)

Roberts, Ray B. (See Roberts, Richard, assignor.)

Roberts, Richard, deceased, by F. L. Roberts, administrator, Cokeville, assignor to R. B. Roberts, Kemmerer, Wyo. Fish stop. 2,328,297; Aug. 31.

Rocard, Yves, Paris, France; vested in the Alien Property Custodian. Magnetostrictive microphone. 2,328,496; Aug. 31.

Roeder, Erwin O. (See Harper, K. W., and Roeder.)

Röhm & Haas Company. (See Egolf, Charles B., assignor.)

Roller-Smith Company. (See Wood, Joseph D., assignor.)

Romine, Lawrence F., Detroit, Mich. Winding. 2,328,497; Aug. 31.

Roper, John M., Washington, D. C. Airplane running light installation. 2,328,032; Aug. 31.

Rosenblatt, Edgar F., East Orange, assignor to Baker & Company Inc., Newark, N. J. Providing adherent metal coatings on surfaces. 2,328,101; Aug. 31.

Rosenmund, Alfred L., Woodport, N. J., assignor to Stapling Machines Co. Box. 2,328,230; Aug. 31.

Roskosky, Stephen J., Flint, Mich., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Coating composition. 2,328,398; Aug. 31.

Royce, John G., assignor of one-half to The Paterson Engineering Company Limited, London, England. Support for filtering apparatus. 2,328,231; Aug. 31.

Saathoff, George W., South Orange, N. J. Combustion control system. 2,328,498; Aug. 31.

Saathoff, George W., South Orange, N. J. Control system for vapor generators. 2,328,499; Aug. 31.

Saco-Lowell Shops. (See Burman, Oscar F. Jr., assignor.)

Safety Car Heating and Lighting Company, The. (See Von Ohlsen, Louis H., assignor.)

St. Regis Paper Company. (See Peterson, William R., assignor.)

Salsas, Emile, Spa, Belgium; vested in the Alien Property Custodian. Endless flat elastic belt. 2,328,500; Aug. 31.

Sanders, Marion D., assignor to Industrial Patents Corporation, Chicago, Ill. Conditioning sludge. 2,328,361; Aug. 31.

Sandstrom, Nils G., assignor to Erie City Iron Works, Erie, Pa. Steam generator. 2,328,530; Aug. 31.

Santhoff, Walter F., Cypress, assignor to Martin-Decker Corporation, Los Angeles, Calif. Detachable coupling for high pressure hose. 2,328,298; Aug. 31.

Saunders, Seymour G., Bloomfield Hills, and H. Morrison, Detroit, assignors to Chrysler Corporation, Highland Park, Mich. Coating material recovery medium and process. 2,328,399; Aug. 31.

Schaitberger, Daniel A., assignor to Northern Engineering Works, Detroit, Mich. Power drive mechanism. 2,328,362; Aug. 31.

Schanzer, Felix, Berlin, Germany; vested in the Alien Property Custodian. Machine. 2,328,501; Aug. 31.

Scheffler, Karl, Berlin, Germany; vested in the Alien Property Custodian. Measuring air-fuel ratio. 2,328,502; Aug. 31.

Scheibel, Kurt G. (See Krzenciessa, W. E. H., Scheibel, and Bohmann.)

Schwindler, Erwin I., Kansas City, Mo. Instructing by histophonetics. 2,328,169; Aug. 31.

Schmelter, Gordon P. (See Freeman, R. D., and Schmelter.)

Schmitt, Frederick J., Jr., assignor to Michigan Maple Block Company, Petoskey, Mich. Butcher block. 2,328,503; Aug. 31.

Schmitt, Leo A., Washington, D. C. Attachment for ribbon machines. 2,328,102; Aug. 31.

Schnider, Otto, Basel, Switzerland, assignor to Hoffman-La Roche Inc., Nutley, N. J. 2,4-dioxo-3,3-dialkylpyrrolidines and the manufacture of same. 2,328,232; Aug. 31.

Schorer, Herman, Valhalla, N. Y. Prestressing reinforcing device for concrete. 2,328,033; Aug. 31.

Schotz, Otto W. (See Neracher, C. A., Dunn, Syrovy, Iavelli, Bucy, and Schotz.)

Schunk, George S., West Allis, Wis. Power drive for bicycles. 2,328,233; Aug. 31.

Schutte, Charles F. and H. D., Snyder, N. Y. Screening mill. 2,328,170; Aug. 31.

Schutte, Herman D. (See Schutte, Charles F. and H. D.)

Schwab, Joseph B., Stockston, Calif. Grading apparatus. 2,328,299; Aug. 31.

Schwager, August C., Millbrae, and C. L. Garrison, assignors to Pacific Electric Manufacturing Corporation, San Francisco, Calif. Disconnecting switch. 2,328,171; Aug. 31.

Schwarz, Egon H., Zurich, Switzerland. Preserving materials of the powdery or mealy type. 2,328,300; Aug. 31.

Scofield, Theodore J., assignor to The Sparks-Withington Company, Jackson, Mich. Warning signaling system. 2,328,172; Aug. 31.

Scovill Manufacturing Company. (See Huelster, Otto J., assignor.)

Sease, Virgil B., New Brunswick, and O. W. Murray, South River, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Photographic element and process. 2,328,034; Aug. 31.

Sedalana Sociedad Anónima. (See Balsach, Juan, assignor.)

See, Melvin J., and J. C. Bailie, assignors to Standard Oil Company, Chicago, Ill. Catalytic conversion of petroleum hydrocarbons. 2,328,103; Aug. 31.

Seguy, Jeon D., assignor to Universal Oil Products Company, Chicago, Ill. Reactivating used catalysts. 2,328,234; Aug. 31.

Setzler, Henry, Chicago, Ill. Sitz bath. 2,328,235; Aug. 31.

Shaw, Ralph M., Jr., Edgewater Park, N. J. Wheel theft prevention means. 2,328,301; Aug. 31.

Silver, Walter H., assignor to Deere & Company, Moline, Ill. Gauging and lifting mechanism for implements. 2,328,173; Aug. 31.

Silver, Walter H., asignor to Deere & Company, Moline, Ill. Lister. 2,328,174; Aug. 31.

Simison, Allen L., Newark, Ohio, assignor to Owens-Corning Fiberglas Corporation. Making parallel fiber filters. 2,328,302; Aug. 31.

Simpson, John M., Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill. Transmission. 2,328,104; Aug. 31.

Simpson, John M., Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill. Clutch control. 2,328,303; Aug. 31.

Sinclair Refining Company. (See Martin, Edward J., assignor.)

Sinclair Refining Company. (See Teter, John W., assignor.)

Singer Manufacturing Company. (See Becker, Rudolph, assignor.)

Singer Manufacturing Company, The. (See McCann, Michael, assignor.)

Smirl, Richard L., Detroit, Mich., assignor to Borg-Warner Corporation, Chicago, Ill. Hydrodynamic torque transmitting device with molded plastic rotor. 2,328,175; Aug. 31.

Smirl, Richard L. (See Nutt, H., and Smirl.)

Smith, A. O., Corporation. (See Jaeckel, Adolph C., assignor.)

Smith, A. O., Corporation. (See Tiedemann, Julius B., assignor.)

Smith, Donald P., Norwood, assignor to The Alvey-Ferguson Company, Cincinnati, Ohio. Conveyer for industrial washing and drying machines. 2,328,504; Aug. 31.

Smith, Frank B., and J. N. Hansen, assignors to The Dow Chemical Company, Midland, Mich. Alkanol amine salts of dinitro-phenols. 2,328,505; Aug. 31.

Smith, Harvey N., Washington, D. C. Snow ring or wheel. 2,328,035; Aug. 31.

Smith, L. C., & Corona Typewriters, Inc. (See Hill, L. B., and Moshier, assignors.

Snelling, Walter O., Allentown, Pa. Heater. 2,328,506; Aug. 31.

Socony-Vacuum Oil Company. (See McCarty, Malcolm D., assignor.)

Soderquist, Leslie E., assignor to The McNeil Machine & Engineering Company, Akron, Ohio. Tire stripping vulcanizing press. 2,328,507; Aug. 31.

Solar Aircraft Company. (See Greene, J. R., and Cox, assignors.)

Sonnenschein, Wilhelm, Elsterberg I. V., Germany; vested in the Alien Property Custodian. Purification of carbon disulphide. 2,328,176; Aug. 31.

Soren Corporation, The. (See Sorensen, Edward M., assignor.)

Sorensen, Edward M., assignor to The Soren Corporation, Dayton, Ohio. Counter. 2,328,304; Aug. 31.

Sparks-Withington Company, The. (See Scofield, Theodore J., assignor.)

Specialties Development Corporation. (See Heigis, H. E., assignor.)

Spencer Lens Company. (See Harper, K. W., and Roeder, assignors.)

Spencer Lens Company. (See Luneburg, Rudolf K., assignor.)

Spencer Lens Company. (See MacDonald, G. S., and Trafton, assignors.)

Spencer, Lloyd. (See Turechek, G. F., and Spencer.)

Sportolari, Frank, Pittsburgh, Pa. Apparatus for forming coated frozen confections. 2,328,508; Aug. 31.

Square D Company. (See Jackson, John G., assignor.)

Square D Company. (See Jackson, J. G., and Maseng, assignor.)

Square D Company. (See Lennholm, Gustav A., assignor.)

Stahly, Grant L., and W. W. Carlson, Columbus, assignors, by mesne assignments, to The Commonwealth Engineering Company of Ohio, Dayton, Ohio. Producing soluble benzyl ethers of dextran. 2,328,036; Aug. 31.

Standard Oil Company, The. (See Burk, R. E., and Hughes, assignors.)

Standard Oil Company. (See Buttkofer, Robert E., assignor.)

Standard Oil Company. (See See, M. J., and Bailie, assignor.)

Stanley, Leopold G., Maplewood, N. J. Billfold or pocket case. 2,328,400; Aug. 31.

Stapling Machines Co. (See Rosemund, Alfred L., assignor.)

Staub, Alfred. (See Martin, H., Zaeslin, Hirt, and Staub.)

Steinmayer, Alwin G., Milwaukee, assignor to Line Material Company, South Milwaukee, Wis. Fuse link construction. 2,328,177; Aug. 31.

Stoeckel, Albert L. (See Perkins, G. H., and Stoeckel.)

Stoner, Thomas A., assignor to The Hoover Company, North Canton, Ohio. Suction cleaner. 2,328,236; Aug. 31.

Stover, Roy B., Toledo, Ohio, and C. A. Hoy, Hoopeston, Ill., said Hoy assignor to Food Machinery Corporation, San Jose, Calif., and said Stover assignor to Owens-Illinois Glass Company. Filling machine. 2,328,401; Aug. 31.

Streb, Robert J. (See Chappell, R. R., Colt, and Streb.)

Strike, Louis N. (See Pearson, Otto H., assignor.)

Strobino, Louis J., Bethel, Conn. X-ray shield. 2,328,105; Aug. 31.

Strong, William J., assignor to Wheeling Stamping Company, Wheeling, W. Va. Viscous liquid dispenser. 2,328,106; Aug. 31.

Stull, John S. (See Lea, G. D., and Stull.)

Sulzer, John H., Westfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electrical connecting and conditioning apparatus. 2,328,107; Aug. 31.

Summers, Claude M., Fort Wayne, Ind., assignor to General Electric Company. Voltage regulator. 2,328,037; Aug. 31.

Sundholm, Edwin P., Albert City, Iowa. Dispensing device for filling grease guns and the like. 2,328,363; Aug. 31.

Superior Felt & Bedding Co. (See Bergstrom, Victor J., assignor.)

Superior Wire Cloth Company. (See Kugler, Harry C., assignor.)

Svoboda, Antonin, Forest Hills, assignor to Abax Corporation, New York, N. Y. Mechanism for use in computing apparatus. 2,328,306; Aug. 31.

Swanson, Earl C., assignor to Andersen Corporation, Bayport, Minn. Window structure. 2,328,509; Aug. 31.

Swebilius, Carl G., Hamden, assignor to Western Cartridge Company, New Haven, Conn. Recoil-operated self-loading firearm. 2,328,108; Aug. 31.

Syrovy, Augustin J. (See Neracher, C. A., Dunn, Syrovy, Iavelli, Bucy, and Schotz.)

Talon, Inc. (See Bailey, Perkins H., assignor.)

Talon, Inc. (See Poux, Noel J., assignor.)

Tartaglia, Richard A. (See Remington, F., and Tartaglia.)

Taylor, Charles H., Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Suction cleaning apparatus. 2,328,038; Aug. 31.

Taylor, Frank H., assignor to Lehigh Structural Steel Company, New York, N. Y. Cable tensioning mechanism. 2,328,364; Aug. 31.

Technicolor Motion Picture Corporation. (See Rackett, Gerald F., assignor.)

Teter, John W., Chicago, Ill., assignor to Sinclair Refining Company, New York, N. Y. Manufacture of gasoline. 2,328,178; Aug. 31.

Tevander, Swan N., Maywood, Ill. Closure cap. 2,328,365; Aug. 31.

Thomas, Charles A., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Dihalo-ethylene copolymerization products. 2,328,510; Aug. 31.

Thomas, Gustav, Dresden-Loschwitz, Germany; vested in the Alien Property Custodian. Refrigerant evaporator. 2,328,511; Aug. 31.

Thomas, Laurence H. (See Kuhn, F., and Thomas.)

Thompson, Leslie E., and A. Jenkins, London, England, assignors, by mesne assignments, to The Union Switch and Signal Company, Swissvale, Pa. Alternating electric current rectifier of the selenium type. 2,328,179; Aug. 31.

Thompson, Oscar T., Neenah, Wis., assignor to International Cellucotton Products Company, Chicago, Ill. Divisible paper web. 2,328,109; Aug. 31.

Thompson, Parke H., Glendale, and A. R. Peat, Webster Groves, Mo., assignors to Amp Corporation, St. Louis, Mo. Beverage dispensing apparatus. 2,328,110; Aug. 31.

Thompson Products Incorporated. (See Edington, Jack L., assignor.)

Thompson Products Incorporated. (See Thoren, T. B., and Johnson, assignors.)

Thoren, Theodore R., and P. P. Johnson, assignors to Thompson Products Incorporated, Cleveland, Ohio. Ribbed dome hollow head valve. 2,328,512; Aug. 31.

Thornbery, John H., assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis. Lead extension. 2,328,111; Aug. 31.

Thurmond, Gilbert I., Asheville, and E. Brenner, Hendersonville, assignors to American Enka Corporation, Enka, N. C. Manufacture of rayon. 2,328,307; Aug. 31.

Tiedmann, Julius B., assignor to A. O. Smith Corporation, Milwaukee, Wis. Die for tube reducing. 2,328,112; Aug. 31.

Times Telephoto Equipment Inc. (See Cooley, Austin G., assignor.)
Timmermann, Elmer J., Glendale, Calif. Table tennis bat. 2,328,366; Aug. 31.
Toce, Charles A. (See Woodruff, W. M., and Toce.)
Todd, Augustine J., Washington, D. C. Container. 2,328,367; Aug. 31.
Tomkins-Johnson Company. (See Johnson, Arden L. assignor.)
Toomey, Thomas C., West New Brighton, Staten Island, N. Y., and J. G. Brandt, Westfield, assignors to The Babcock & Wilcox Company, Newark, N. J. Steam generator. 2,328,039; Aug. 31.
Török, George, Budapest, Hungary; vested in the Alien Property Custodian. Insertion for cushions or the like. 2,328,513; Aug. 31.
Trafton, James E. (See MacDonald G. S., and Trafton.)
Treverton, Richard W., assignor to Trico Products Corporation, Buffalo, N. Y. Window operating mechanism. 2,328,237; Aug. 31.
Trico Products Corporation. (See Treverton, Richard W., assignor.)
Troxler, Charles G., assignor to The Hoover Company, North Canton, Ohio. Suction cleaner. 2,328,238; Aug. 31.
Tull, Alan G., Purley, assignor to Latta Syndicate Limited, London, England. Color photography and cinematography. 2,328,368; Aug. 31.
Turechek, George F., assignor to Lane-Wells Company, Los Angeles, Calif. Gun perforator. 2,328,308; Aug. 31.
Turechek, George F., and Lloyd Spencer, assignors to Lane-Wells Company, Los Angeles, Calif. Firing head for gun perforators. 2,328,309; Aug. 31.
Tuthill, L. E., Inc. (See Tuthill, Leslie E., assignor.)
Tuthill, Leslie E., assignor to L. E. Tuthill, Inc., Seattle, Wash. Mineral jig. 2,328,402; Aug. 31.
Tuttle & Kift, Inc. (See Tuttle, W. R., and Ewald, assignors.)
Tuttle, William R., Riverside, and F. J. Ewald, Elmhurst, assignors to Tuttle & Kift, Inc., Chicago, Ill. Heating unit assembly. 2,328,113; Aug. 31.
Tvrzicky, Francis, Chicago, Ill. Hingedly mounted telephone accessory shelf. 2,328,310; Aug. 31.
Underwood Elliott Fisher Company. (See Dobson, William A., assignor.)
Union Asbestos & Rubber Company. (See O'Connor, Arthur F., assignor.)
Union Switch and Signal Company. (See Thompson, L. E., and Jenkins, assignors.)
Union Switch & Signal Company. (See Vantassel, Harry C., assignor.)
United Shoe Machinery Corporation. (See Hass, Otto R., assignor.)
United Shoe Machinery Corporation. (See Jorgensen, Jacob C., assignor.)
United Shoe Machinery Corporation. (See Macdonald, Lester S., assignor.)
Universal Oil Products Company. (See Seguy, Jean D., assignor.)
Universal Winding Company. (See Jones, Charles H., assignor.)
Upton, Albert L., St. Louis, Mo. Theater sound system. 2,328,369; Aug. 31.
Van der Heem, Jan, The Hague, Netherlands; vested in the Alien Property Custodian. Electric vacuum cleaner having a suction set which is movable over the surface to be cleaned. 2,328,514; Aug. 31.
Van Geel, Willem C. (See Esseling, L. A. L., and van Geel.)
Van Norman Machine Tool Company. (See Curtis, Frank W., assignor.)
Van Overeem, Marius L., Hilversum, Netherlands; vested in the Alien Property Custodian. Phonograph turntable driving device. 2,328,515; Aug. 31.
Van Pelt, Charles H. C. (See Ducker, L. F., and Little, assignors.)
Vantassel, Harry C., assignor to The Union Switch & Signal Company, Swissvale, Pa. Apparatus for the control of highway crossing signals. 2,328,180; Aug. 31.
Vapor Car Heating Company. (See Lehane, T. J., and Burgess, assignors.)
Vehicular Parking Ltd. (See Woodruff, W. N., and Toce, assignors.)
Vickers, Harry F., assignor to Vickers, Incorporated, Detroit, Mich. Hydraulic hoisting and rotating apparatus. 2,328,311; Aug. 31.
Vickers, Harry F., assignor to Vickers, Incorporated, Detroit, Mich. Hydraulic hoisting and rotating apparatus. 2,328,312; Aug. 31.
Vickers, Incorporated. (See Vickers, Harry F., assignor.)
Von Hofe, George W., Bound Brook, assignor to New Jersey Machine Corporation, Hoboken, N. J. Labeling machine. 2,328,516; Aug. 31.
Von Ohlsen, Louis H., New Haven, Conn., assignor to The Safety Car Heating and Lighting Company, Inc. Mounting structure. 2,328,313; Aug. 31.
Von Ohlsen, Louis H., New Haven, Conn., assignor to The Safety Car Heating and Lighting Company, Inc. Power system and control therefor. 2,328,314; Aug. 31.
Von Opel, Fritz, New York, N. Y., vested in the Alien Property Custodian. Movable position finding devices, particularly course protractors. 2,328,517; Aug. 31.
Vulcan, Louis. (See Barton, Armand, assignor.)
Waechter, Harry J., Mount Healthy, assignor to P. Benninghofen and E. C. Diesbach, Hamilton, Ohio, as trustees. Autographic register. 2,328,532; Aug. 31.
Wahlberg, Nils E., Chicago, Ill., and W. S. Berry, assignors to Nash-Kelvinator Corporation, Kenosha, Wis. Clutch housing insulator. 2,328,518; Aug. 31.
Wahlberg, Nils E., and H. F. Wood, assignors to Nash-Kelvinator Corporation, Kenosha, Wis. Transmission. 2,328,519; Aug. 31.
Walker, Victor, Fort Erie, Ontario, Canada, assignor to AlnCin, Inc., Buffalo, N. Y. Glass article and manufacture thereof. 2,328,533; Aug. 31.
Waltham Watch Company. (See Ott, Harry G., assignor.)
Wana, Heinrich. (See Löckmann, H. W., and Wana.)
Warren, Frederick A., Atlanta, Ga. Surface drain. 2,328,315; Aug. 31.
Waterbury Buckle Company. (See Painter, Walter S., assignor.)
Weaver, Ira A., and C. H. Phelps, assignors to Weaver Manufacturing Company, Springfield, Ill. Vibration amplitude and center of oscillation indicator. 2,328,114; Aug. 31.
Weaver Manufacturing Company. (See Weaver, I. A., and Phelps, assignors.)
Webb, Charles E., New London, Wis., assignor to Edison Wood Products, Incorporated, West Orange, N. J. Crib. 2,328,316; Aug. 31.
Wehr, Rudolph, Baptistown, N. J. Rotary valve. 2,328,115; Aug. 31.
Weinberg, Joseph. (See Baruch, S. N., and Weinberg.)
Weigel, E. O., & Sons. (See Weigel, Norman E., assignor.)
Weigel, Norman E., Short Hills, assignor to E. O. Weigel & Sons, Newark, N. J. Fountain pen. 2,328,116; Aug. 31.
Weightman, William A., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Assembly jig. 2,328,040; Aug. 31.
Wellons, Charles M., Bellevue, Pa. Steering device for boats. 2,328,041; Aug. 31.
Welsh, James W., assignor to The Welsh Manufacturing Company, Providence, R. I. Headband. 2,328,042; Aug. 31.
Welsh Manufacturing Company, The. (See Welsh, James W., assignor.)
Wengel, Raymond W., assignor to Eastman Kodak Company, Rochester, N. Y. Projector shutter. 2,328,239; Aug. 31.
Wentworth, Robert S., Mamaroneck, N. Y. Distributing and assembling machine. 2,328,317; Aug. 31.
Wentz, John K. (See Lang, C. W., and Wentz.)
West, Charles A. (See Carmody, Edmund O., and West.)
West, Clifford S., Adams, Mass., assignor to General Electric Company. Condenser winding machine. 2,328,520; Aug. 31.
West, Herbert J., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Production of low viscosity urea-formaldehyde alcohol resin solutions. 2,327,984; Aug. 31.
West Virginia Newspaper Publishing Company. (See Reid, Roswell S., assignor.)
Western Cartridge Company. (See Swebilius, Carl G., assignor.)
Western Electric Company. (See Berthold, Wolf, assignor.)
Western Electric Company. (See Lea, G. D., and Stull, assignors.)
Western Electric Company. (See McCann, Paul S., assignor.)
Western Electric Company. (See Reevely, Frederick R., assignor.)
Western Electric Company. (See Sulzer, John H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Breckenridge, Frank, assignor.)
Westinghouse Electric & Manufacturing Company. (See Ritter, John G., assignor.)
Westinghouse Electric & Manufacturing Company. (See Taylor, Charles H., assignor.)
Whalen, John N. (See Morgan, M., and Whalen.)
Wheelan, Robert B., Great Neck, N. Y., and A. Balaban, Hollywood, Calif. Photography and means therefor. 2,328,403; Aug. 31.
Wheeling Stamping Company. (See Strong, William J., assignor.)
White, Gerald, assignor to Libby-Owens-Ford Glass Company, Toledo, Ohio. Glass tempering. 2,328,404; Aug. 31.
Wiegand, Edwin L., assignor to Orefraction Incorporated, Pittsburgh, Pa. Processing of materials. 2,328,240; Aug. 31.
Wiest, Georg, Ludwigshafen-on-the-Rhine, Germany; vested in the Alien Property Custodian. Keto carboxylic acid derivatives. 2,328,370; Aug. 31.
Wight, Sedgwick N., assignor to General Railway Signal Company, Rochester, N. Y. Coded track circuit signaling system. 2,328,241; Aug. 31.

Williams, Carl B., Jr., and M. C. Koester, assignors to Libby-Owens-Ford Glass Company, Toledo, Ohio. Cutting machine. 2,328,405; Aug. 31.
Wingfoot Corporation. (See Carson, Clarence M., assignor.)
Winthrop Chemical Company. (See Pohls, Paul, assignor.)
Witherill, Lathrop M., Pensacola, Fla. Sole. 2,328,242; Aug. 31.
Wittmann, Robert A., Chicago, Ill., assignor to Chicago By-Products Corporation. Unit air conditioning system. 2,328,521; Aug. 31.
Wollenweber, Julius E., Detroit, Mich., assignor to The American Paper Bottle Company, Toledo, Ohio. Mechanism for and method of charging containers with liquid. 2,328,372; Aug. 31.
Wood, Glenn D., assignor to Posture Research Corporation, Elkhart, Ind. Chair. 2,328,243; Aug. 31.
Wood, Harry F. (See Wahlberg, N. E., and Wood.)
Wood, Joseph D., Bethlehem, Pa., assignor to Roller-Smith Company. Circuit breaker contact. 2,328,318; Aug. 31,
Wood, William H., Bedford, assignor to Harris-Seybold-Potter Company, Cleveland, Ohio. Lithographic plate preparation. 2,328,371; Aug. 31.
Woodruff, William N., and C. A. Toce, Houston, Tex., assignors, by mesne assignments, to Vehicular Parking Ltd. Parking meter. 2,328,043; Aug. 31.
Woodward, William H., Detroit, Mich. Circular saw machine. 2,328,244; Aug. 31.
Worthen, Eugene P., East Weymouth, Mass., assignor, by mesne assignments, to Buena Vista Iron Company. Combination low pressure feed heater. 2,328,044; Aug. 31.
Worthen, Eugene P., East Weymouth, Mass., assignor to Buena Vista Iron Company. Feed-water heater. 2,328,045; Aug. 31.
Wronke, Louis J. (See Mattes, H. C., and Wronke.)
Wyandotte Chemicals Corporation. (See Heard, Joseph R., Jr., assignor.)
Yavitch, Morris, Los Angeles, Calif. Water heater with safety drain. 2,328,245; Aug. 31.
Yocum, Paul A., Barberton, Ohio. Rubber band dispenser. 2,328,522; Aug. 31.
Young, Allan M., assignor to Manning, Bowman & Co., Meriden, Conn. Toaster. 2,328,046; Aug. 31.
Zaeslin, Hans H. (See Martin, H., Zaeslin, Hirt, and Staub.)
Zeth, Arthur M. (See Koppitz, C. G., and Zeth.)
Zukor, Arnold, Bronx, N. Y. Support device for sinking ships. 2,328,117; Aug. 31.
Zumstein, T. B., et al. (See Butts, Richard R., assignor.)

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 31ST DAY OF AUGUST, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Form, Collapsible. H. C. Bostwick. Re. 22,369; Aug. 31.

LIST OF DESIGN INVENTIONS

Airplane. D. B. Dailey and R. Farrington. 136,277; Aug. 31.
Apron. H. Pons. 136,294; Aug. 31.
Badge or the like. W. L. Greene. 136,265; Aug. 31.
Booth unit, Dining. F. Mastrangelo. 136,271; Aug. 31.
Brooch or similar article. E. M. Kafka. 136,268–9; Aug. 31.
Cap. S. Lish. 136,283; Aug. 31.
Casing, Thermostat. G. W. Crise. 136,252; Aug. 31.
Casing for a carpet sweeper or similar article. I. J. Owen. 136,293; Aug. 31.
Cooker, Pressure. A. Vischer, Jr. 136,263; Aug. 31.
Cross, Prayer. J. A. Pryor. 136,272; Aug. 31.
Dispenser for paper napkins. B. T. Hoffmaster. 136,267; Aug. 31.
Dress. B. Cashin. 136,274–5; Aug. 31.
Dress. F. Greenberg. 136,278; Aug. 31.
Dress. N. Kaback. 136,281; Aug. 31.
Dress. M. McCoy. 136,286–92; Aug. 31.
Dress. S. Zahn. 136,299; Aug. 31.
Game board. J. R. Huckelbridge. 136,256; Aug. 31.
Glider, Airplane. B. Aznycer. 136,296; Aug. 31.
Hammer, brush, needle, Combined neurological. J. Brandenburg. 136,273; Aug. 31.
Handbag. J. A. Lichter. 136,258; Aug. 31.
Handbag. A. Matias. 136,285; Aug. 31.
Hat. S. Lish. 136,282; Aug. 31.
Hat. S. Lish. 136,284; Aug. 31.
Leather, Embossed. L. I Friedman. 136,253–4; Aug. 31.
Locket. T. H. Massay. 136,270; Aug. 31.
Locomotive body. R. G. F. Loewy. 136,259–61; Aug. 31.
Molded insulation switch base, One-piece. C. F. Robbins. 136,295; Aug. 31.
Pen holding stand. W. T. Holland. 136,280; Aug. 31.
Pitcher or similar article. W. Oehrle. 136,262; Aug. 31.
Plate or the like. M. Gougler. 136,255; Aug. 31.
Rock dusting apparatus, Mine. B. H. Van Vactor. 136,297–8; Aug. 31.
Separator, Egg. J. Clark. 136,251; Aug. 31.
Shade, Lamp. W. Hansen. 136,266; Aug. 31.
Stand, Serving. H. Lachman. 136,257; Aug. 31.
Towell and wash cloth rack or similar article, Combined. T. L. Williams. 136,264; Aug. 31.
Toy, Riding stick. E. C. Bartholomew. 136,250; Aug. 31.
Truck, Industrial. G. Holland and H. J. Framhein. 136,279; Aug. 31.
Utility holder, Needle workers'. M. F. Corder. 146,276; Aug. 31.

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FOR WHICH

PATENTS WERE ISSUED ON THE 31ST DAY OF AUGUST, 1943

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Acid derivatives, Keto carboxylic. G. Wiest. 2,328,370; Aug. 31.
Acyl isothiocyanate and polymer thereof. V. V. Alderman and D. D. Coffman. 2,327,985; Aug. 31.
Adherent metal coatings on surfaces. E. F. Rosenblatt. 2,328,101; Aug. 31.
Adjusting mechanism for gears. W. Borberg. 2,328,123; Aug. 31.
Agitator for washing machines. J. C. Nelson. 2,328,482; Aug. 31.
Air conditioning system, Unit. R. A. Wittmann. 2,328,521; Aug. 31.
Airplane running light installation. J. M. Roper. 2,328,032; Aug. 31.
Airplane stall and high-speed indicating apparatus. R. D. Lacoe. 2,328,384; Aug. 31.
Alkanol amine salts of dinitro-phenols. F. B. Smith and J. N. Hansen. 2,328,505; Aug. 31.
Amalgamator. G. M. Hollenback. 2,328,213; Aug. 31.
Amines, Derivatives of. M. Katzman and A. K. Epstein. 2,328,021; Aug. 31.
Animal growth promoting substance. J. J. Oleson. 2,328,355; Aug. 31.
Apparatus for controlling the slide movement in long-bed hydraulic presses. E. Cannon. 2,328,258; Aug. 31.
Apparatus for drying wire screen cloth. H. C. Kugler. 2,328,078; Aug. 31.
Apparatus for forming coated frozen confections. F. Sportolari. 2,328,508; Aug. 31.
Apparatus for processing sugar and the like. J. J. Neuman. 2,328,395; Aug. 31.
Apparatus for pug making. A. C. Jaeckel. 2,328,071; Aug. 31.
Apparatus for studying illumination. E. Humphreys. 2,328,456; Aug. 31.
Apparatus for the control of highway crossing signals. H. C. Vantassel. 2,328,180; Aug. 31.
Application of cords to food products. C. Maccarini. 2,328,085; Aug. 31.
Arc welding table. J. E. Bales. 2,328,182; Aug. 31.
Armor, Thermometer. J. L. McConnell. 2,328,528; Aug. 31.
Article handling apparatus. G. D. Lea and J. S. Stull. 2,328,383; Aug. 31.
Artificial tooth. R. W. Erdle. 2,328,379; Aug. 31.
Attachment for ribbon machines. L. A. Schmitt. 2,328,102; Aug. 31.
Automatic box. S. Bergstein. 2,328,186; Aug. 31.
Automatic declutching means. C. W. Bryant. 2,328,980; Aug. 31.
Baby feeding device. E. Montano. 2,328,354; Aug. 31.
Bag filling apparatus with hand discharge. W. R. Peterson. 2,328,165; Aug. 31.
Barium sulphate pigments and preparing them. L. Balassa. 2,328,250; Aug. 31.
Basket and cover, Fruit and vegetable. R. W. Davis and E. R. Leonard. 2,328,427; Aug. 31.
Bat, Table tennis. E. J. Timmerman. 2,328,366; Aug. 31.
Bath, Sitz. H. Setzler. 2,328,235; Aug. 31.
Battery holder. M. C. Phillips. 2,328,095; Aug. 31.
Bed, Chair. J. D. Bell. 2,328,254–5; Aug. 31.
Belt, Endless. H. W. Lockmann and H. Wana. 2,328,475; Aug. 31.
Belt, Endless flat elastic. E. Salsas. 2,328,500; Aug. 31.
Beverage dispensing apparatus. P. H. Thompson and A. R. Peat. 2,328,110; Aug. 31.
Billfold or pocket case. L. G. Stanley. 2,328,400; Aug. 31.
Bit control for percussive tools. A. G. Decker, Jr. 2,328,201; Aug. 31.
Bituminous emulsions and producing. E. E. Mayfield. 2,328,481; Aug. 31.
Blackout light. R. A. Francis. 2,328,445; Aug. 31.
Blade adjustment for wood planers. R. Müller. 2,328,389; Aug. 31.
Block: *See*—
Butcher block. Tackle block.
Bomb. H. L. Hunt. 2,328,277; Aug. 31.
Bomb comprising a compressed mass of fire extinguishing powder. E. Puchner. 2,328,491; Aug. 31.
Box: *See*—
Automatic box.
Box supporting device. G. Carlson and E. B. Clark. 2,328,421; Aug. 31.
Box. A. L. Rosenmund. 2,328,230; Aug. 31.
Brake. P. M. Freer. 2,328,334; Aug. 31.
Branch lines to supply lines, Preventing reverse flow from. B. E. Ahlport. 2,328,118; Aug. 31.
Building structure. J. Cowin. 2,328,197; Aug. 31.
Building units, Making cementitious. H. Niederreither and O. Lang. 2,328,290; Aug. 31.
Bumper. J. C. Dudley. 2,328,378; Aug. 31.
Burglar alarm for motor vehicles. M. L. Jacobs. 2,328,215; Aug. 31.
Butcher block. F. J. Schmitt, Jr. 2,328,503; Aug. 31.
Cable tensioning mechanism. F. H. Taylor. 2,328,364; Aug. 31.
Calculating machine. C. M. Friden. 2,327,981; Aug. 31.
Can cleaning device. N. P. Bach. 2,327,986; Aug. 31.
Cap: *See*—
Closure cap.
Cap for foundation vents. F. B. Merrill. 2,328,288; Aug. 31.
Carbondisulphide, Purification of. W. Sonnenschein. 2,328,176; Aug. 31.
Carrier frequency system. W. Hagen. 2,328,450; Aug. 31.
Case: *See*—
Billfold or pocket case.
Cast for portable radio receivers, Traveling. E. W. Hamilton. 2,328,012; Aug. 31.
Cash register. W. S. Gubelmann. 2,328,272; Aug. 31.
Catalytic process for purifying ethylene. J. R. Heard, Jr. 2,328,275; Aug. 31.
Catalysts, Reactivating used. J. D. Seguy. 2,328,234; Aug. 31.
Catalysts resulting from hydrolysis of alloys of catalytic metals and hydrolyzable metals. J. H. Hahn. 2,328,140; Aug. 31.
Cell, Blocking layer. L. A. L. Esseling and W. C. van Geel. 2,328,440; Aug. 31.
Cement products, Manufacture of hydraulic. R. B. Crabbs. 2,328,058; Aug. 31.
Ceramic insulating material and producing the same. G. Berge. 2,328,410; Aug. 31.
Chair. G. D. Wood. 2,328,243; Aug. 31.
Change speed device. J. W. Hale. 2,328,273; Aug. 31.
Check valve. D. G. Griswold. 2,328,007; Aug. 31.
Check valve. D. G. Griswold. 2,328,009–10; Aug. 31.
Check valve and vacuum breaker, Flexible. J. D. Langdon. 2,328,382; Aug. 31.
Chloride, Production of vinyl. R. W. Dornte. 2,328,430; Aug. 31.
Chloroprene compositions, Polymerized. A. D. MacDonald. 2,328,351; Aug. 31.
Cigar and cigarette. G. A. Betts. 2,327,991; Aug. 31.
Cinematographic registering apparatus. G. F. Rackett. 2,328,492; Aug. 31.
Circuit: *See*—
Regulating circuit.
Circuit breaker. J. G. Jackson. 2,328,457; Aug. 31.
Circuit breaker. J. G. Jackson and O. Maseng. 2,328,458; Aug. 31.
Circuit breaker contact. J. D. Wood. 2,328,318; Aug. 31.
Circular saw machine. W. H. Woodward. 2,328,244; Aug. 31.
Circular weaving loom. J. Balsach. 2,327,987; Aug. 31.
Clamp: *See*—
Pipe clamp.
Clamping tool. J. R. Greene and F. A. Cox. 2,328,271; Aug. 31.
Cleaner: *See*—
Suction cleaner.
Clearer, Drawing frame. O. F. Burman, Jr. 2,328,324; Aug. 31.
Clip: *See*—
Electrical contact clip.
Closure cap. S. N. Tevander. 2,328,365; Aug. 31.
Clutch: *See*—
Fluid operated clutch.
Clutch. G. E. Flinn. 2,328,205; Aug. 31.
Clutch control. J. M. Simpson. 2,328,303; Aug. 31.
Clutch system. H. Nutt and H. V. Reed. 2,328,090; Aug. 31.
Coating bodies with carbon. C. J. Christensen. 2,328,422; Aug. 31.
Coat hanger. H. J. Hanauer. 2,328,142; Aug. 31.
Coating apparatus. W. Barrett. 2,328,183; Aug. 31.
Coating composition. L. Balassa. 2,328,249; Aug. 31.
Coating composition. S. J. Roskosky. 2,328,398; Aug. 31.
Coating material recovery medium and process. S. G. Saunders and H. Morrison. 2,328,399; Aug. 31.
Cologne container. W. R. Hauptman. 2,328,338; Aug. 31.
Color cinematography. P. D. Brewster. 2,328,418; Aug. 31.

Color photography and cinematography. A. G. Tull. 2,328,368; Aug. 31.
Combination low pressure feed heater. E. P. Worthen. 2,328,044; Aug. 31.
Compressor. W. R. Brown and N. J. Collings. 2,328,420; Aug. 31.
Condenser lead in for high electric potentials. P. Kniepen. 2,328,150; Aug. 31.
Condenser winding machine. C. S. West. 2,328,520; Aug. 31.
Condiment holder. H. R. Albion. 2,328,246; Aug. 31.
Connector. D. M. Potter. 2,328,294; Aug. 31.
Container: *See*—
Cologne container. Display container.
Container. S. C. Lomax and H. Knightson. 2,328,084; Aug. 31.
Container. A. J. Todd. 2,328,367; Aug. 31.
Control apparatus. B. R. Henderson. 2,328,340; Aug. 31.
Control for clamps. D. H. Cravener, Jr. 2,328,262; Aug. 31.
Control means and system of control for heating devices. E. A. Jones. 2,328,280; Aug. 31.
Control means for heating devices, Automatic. E. A. Jones. 2,328,279; Aug. 31.
Control system, Combustion. G. W. Saathoff. 2,328,498; Aug. 31.
Control system for vapor generators. G. W. Saathoff. 2,328,499; Aug. 31.
Conveyer. E. P. Bullard, III. 2,328,050; Aug. 31.
Conveyer for industrial washing and drying machines. D. P. Smith. 2,328,504; Aug. 31.
Conveyer system. R. S. McCann. 2,328,386; Aug. 31.
Core assembly. O. A. Pearson. 2,328,228; Aug. 31.
Couch structure, Convertible. V. J. Bergstrom. 2,328,411; Aug. 31.
Couch, Studio. D. N. Kelly. 2,328,218; Aug. 31.
Counter. E. M. Sorensen. 2,328,304; Aug. 31.
Coupling: *See*—
Fluid coupling.
Coupling device. E. G. Laffly. 2,328,469; Aug. 31.
Coupling device for the assembly of tubular elements. E. G. Laffly. 2,328,468; Aug. 31.
Coupling for high pressure hose, Detachable. W. F. Santhoff. 2,328,298; Aug. 31.
Coupling hook. A. J. Higgins and J. M. Poche. 2,328,341; Aug. 31.
Cover stay device, Wardrobe case. J. Ritter, Jr. 2,328,099; Aug. 31.
Crib. C. E. Webb. 2,328,316; Aug. 31.
Cultivator. A. H. Haberstump. 2,328,449; Aug. 31.
Cutter: *See*—
Milling cutter.
Curler, Hair. L. Eisenman. 2,328,331; Aug. 31.
Cutting machine. C. B. Williams, Jr., and M. C. Koester. 2,328,405; Aug. 31.
Dairy animal restraining arm. A. V. Borkey. 2,328,188; Aug. 31.
Damper. A. J. Filkins. 2,328,332; Aug. 31.
Davenport and bed, Convertible. T. F. Cooney. 2,328,260; Aug. 31.
Density measuring apparatus. W. H. Kidd. 2,328,460; Aug. 31.
Desk. J. R. Jones. 2,328,019; Aug. 31.
Device for aiding in hairdressing. E. G. Danilla. 2,328,374; Aug. 31.
Devices for controlling the pressure and temperature in altitude cabins, particularly for airplanes. H. Pfau. 2,328,489; Aug. 31.
Die for tube reducing. J. B. Tiedemann. 2,328,112; Aug. 31
Dihalo-ethylene copolymerization product. C. A. Thomas. 2,328,510; Aug. 31.
Diphenylsulphone derivative. P. Pöhls. 2,328,490; Aug. 31.
Disconnect switch. C. G. Koppitz and A. M. Zeth. 2,328,283; Aug. 31.
Disconnecting switch. A. C. Schwager and C. L. Garrison. 2,328,171; Aug. 31.
Dispenser: *See*—
Rubber band dispenser. Viscous liquid dispenser.
Dispensing device for filling grease guns and the like. E. P. Sundholm. 2,328,363; Aug. 31.
Display container. P. E. Allen. 2,328,119; Aug. 31.
Distributing and assembling machine. R. S. Wentworth. 2,328,317; Aug. 31.
Dividing head. H. Krochmal. 2,328,346; Aug. 31.
Door: *See*—
Garage door.
Door construction. J. I. Byrne. 2,328,326; Aug. 31.
Drain, Surface. F. A. Warren. 2,328,315; Aug. 31.
Drawing fixture. J. D. Leffel. 2,328,471; Aug. 31.
Drier arrangement. G. L. C. Earle. 2,328,129; Aug. 31.
Driving mechanism for hoists. R. B. Magee. 2,328,088; Aug. 31.
Driving unit. E. J. Karp. 2,328,076; Aug. 31.
Drum, Drier. E. E. Berry. 2,328,321; Aug. 31.
Dyestuff intermediate, Azo. N. M. Mackenzie. 2,328,353; Aug. 31.
Dyestuffs, Metalliferonus substantive. G. Kopp. 2,328,465; Aug. 31.
Dynamoelectric machine coil support. C. W. Lange and J. K. Wentz. 2,328,470; Aug. 31.
Earth drilling mechanism. L. L. Hazen. 2,328,274; Aug. 31.
Eggs, Incubation of. Z. Y. Kuo. 2,328,347; Aug. 31.
Electric distribution system. L. R. Bogardus. 2,328,373; Aug. 31.
Electric oven for high temperatures working under vacuum or under neutral gas. F. Mathieu. 2,328,479; Aug. 31.
Electric switch. G. A. Lennholm. 2,328,154; Aug. 31.
Electric swivel. E. J. Heiner. 2,328,212; Aug. 31.
Electrical connecting and conditioning apparatus. J. H. Sulzer. 2,328,107; Aug. 31.
Electrical contact clip. T. Birkenmaier. 2,328,415; Aug. 31.
Electrical musical instrument. W. E. Kock. 2,328,282; Aug. 31.
Electrical resistance paper and making same, Low. F. E. Davenport, D. C. Knowlton, and R. W. McCormick. 2,328,198; Aug. 31.
Electrical system. V. W. Leonard. 2,328,473; Aug. 31.
Electrical winding and method and apparatus for making same, Multilayer. L. W. Foster. 2,328,443; Aug. 31.
Electrode holder. V. Forgett. 2,328,067; Aug. 31.
Electron tube. A. Gaebel. 2,328,136; Aug. 31.
Embalming apparatus. H. S. Day. 2,328,199; Aug. 31.
End fitting for high pressure hose. M. Hattan. 2,328,013; Aug. 31.
Engine leakage meter. J. D. Morgan and P. B. Levitt. 2,328,289; Aug. 31.
Engine lubricator. E. M. Green. 2,328,005–6; Aug. 31.
Ethers, Manufacture of. W. A. Craig. 2,328,059; Aug. 31.
Evaporator for cooling systems, Split. T. J. Lehane and E. H. Burgess. 2,328,472; Aug. 31.
Evaporator, Refrigerant. G. Thomas. 2,328,511; Aug. 31.
Expansion joint. R. G. Le Tourneau. 2,328,155; Aug. 31.
Extractor: *See*—
Juice extractor.
Extractor machine, Full automatic centrifugal. J. J. Neuman. 2,328,394; Aug. 31.
Extractor machine, Full automatic centrifugal. J. J. Neuman. 2,328,396; Aug. 31.
Fabric, Cutting. F. G. Dodge. 2,328,063; Aug. 31.
Fan. E. E. Hans. 2,328,072; Aug. 31.
Fastener: *See*—
One-way detachable snap fastener. Paper fastener.
Feed-water heater. E. P. Worthen. 2,328,045; Aug. 31.
Filaments, Making. H. Buchsbaum and L. Becker. 2,328,125; Aug. 31.
Filaments, Repair of broken lighting. G. R. Borden, Jr. 2,328,187; Aug. 31.
Filling machine. R. B. Stover and C. A. Hoy. 2,328,401; Aug. 31.
Film splicing device. W. Geyer. 2,328,447; Aug. 31.
Filter: *See*—
Oil filter.
Filter. A. Jacobowitz. 2,328,148; Aug. 31.
Filter apparatus. H. Eickemeyer. 2,328,436; Aug. 31.
Finder, Radio Direction. M. G. Limb. 2,328,024; Aug. 31.
Finishing stone. F. H. Kemp. 2,328,459; Aug. 31.
Firearm, Recoil-operated self-loading. C. G. Swebilius. 2,328,108; Aug. 31.
Fire-extinguishing apparatus. M. E. Keefe, Jr. 2,328,345; Aug. 31.
Fire detecting and extinguishing system. H. E. Heigis. 2,328,014; Aug. 31.
Fish stop. R. Roberts. 2,328,297; Aug. 31.
Flap gate. C. S. Brown. 2,328,419; Aug. 31.
Flask, Dental. S. E. MacDougall. 2,328,285; Aug. 31.
Floor construction. R. Hopewell. 2,328,453; Aug. 31.
Flow proportioning device. G. K. Porter. 2,328,029; Aug. 31.
Fluid coupling. C. A. Neracher and W. T. Dunn. 2,328,393; Aug. 31.
Fluid, Drilling. F. K. Daniel. 2,328,426; Aug. 31.
Fluid operated clutch. H. Nutt and R. L. Smirl. 2,328,091–2; Aug. 31.
Fluid sealing device. J. T. Marvin. 2,328,160; Aug. 31.
Fluid translating apparatus. J. G. Ritter. 2,328,296; Aug. 31.
Fluid turbine arrangement, Elastic. S. N. Hedman. 2,328,451; Aug. 31.
Fountain implement. J. H. Bair. 2,328,048; Aug. 31.
Fruit, Treating. L. F. Ducker and G. A. Little. 2,328,265; Aug. 31.
Fuel dispensing apparatus, Ticket issuing. E. E. Eickmeyer and A. G. Horvath. 2,328,435; Aug. 31.
Fuel mixture. J. A. Hyson and J. H. Kerrick. 2,328,147; Aug. 31.
Fuse link construction. A. G. Steinmayer. 2,328,177; Aug. 31.
Garage door. W. D. Ferris. 2,328,204; Aug. 31.
Garment construction. P. H. Bailey. 2,328,181; Aug. 31.
Garment, Lined. P. H. Bailey. 2,327,979; Aug. 31.
Gasoline, Manufacture of. J. W. Teter. 2,328,178; Aug. 31.

Gauging and lifting mechanism for implements. W. H. Silver. 2,328,173; Aug. 31.
Generator: *See*—
High-pressure steam generator. Saw tooth wave generator. Steam generator.
Geophone. M. D. McCarty. 2,328,222; Aug. 31.
Girdle or the like. E. Mahler. 2,328,385; Aug. 31.
Glare shield mounting. U. C. Rigoulot. 2,328,360; Aug. 31.
Glass article and manufacture thereof. V. Walker. 2,328,533; Aug. 31.
Glass tempering. G. White. 2,328,404; Aug. 31.
Golf stroke teaching machine. W. E. Beil and F. Farley. 2,328,408; Aug. 31.
Grading apparatus. J. B. Schwab. 2,328,299; Aug. 31.
Grain handling mechanism. G. Innes. 2,328,278; Aug. 31.
Guard, Aircraft windshield safety. J. De Stefano. 2,328,305; Aug. 31.
Guard, Windshield safety. J. De Stefano. 2,328,263; Aug. 31.
Gun, Casing. F. I. Alexander. 2,328,247; Aug. 21.
Gun perforator. G. F. Turechek. 2,328,308; Aug. 31.
Hairdressing. A. Casieri. 2,328,192; Aug. 31.
Hand luggage construction. J. Ritter, Jr. 2,328,100; Aug. 31.
Handling of rod bundles or the like. M. Morgan and J. N. Whalen. 2,328,388; Aug. 31.
Hanger: *See*—
Coat hanger.
Headband. J. W. Welsh. 2,328,042; Aug. 31.
Head for gun perforators, Firing. G. F. Turechek and L. Spencer. 2,328,309; Aug. 31.
Heat transfer apparatus. R. Esnault-Pelterie. 2,328,439; Aug. 31.
Heater: *See*—
Combination low pressure feed heater. Feed-water heater. Hot-air heater.
Heater. W. O. Snelling. 2,328,506; Aug. 31.
Heating unit assembly. W. R. Tuttle and F. J. Ewald. 2,328,113; Aug. 31.
Heel. A. Barton. 2,328,319; Aug. 31.
High-pressure steam generator. W. Beyer. 2,328,414; Aug. 31.
High speed cutting mechanism. G. H. Perkins and A. L. Stoeckel. 2,328,164; Aug. 31.
Hitch, Adjustable trailer. T. H. Jacob. 2,328,343; Aug. 31.
Hoisting and rotating apparatus, Hydraulic. H. F. Vickers. 2,328,311–12; Aug. 31.
Holder: *See*—
Battery holder. Match book holder.
Condiment holder. Plate holder.
Electrode holder. Tool holder.
Identification badge holder.
Holder for mops and other articles. J. W. Martin. 2,328,287; Aug. 31.
Hood, Hair drying. A. R. Freeman. 2,328,207; Aug. 31.
Hook: *See*—
Coupling hook.
Hot-air heater. W. H. Richards. 2,328,030; Aug. 31.
Hydraulic vise. F. W. Curtis. 2,328,061; Aug. 31.
Hydrocarbon products, Stabilizing. R. E. Burk and E. C. Hughes. 2,328,190; Aug. 31.
Hydrophilic cellulosic films, Coating. R. G. Drew. 2,328,066; Aug. 31.
Ice bunker for refrigerator cars, Convertible. A. F. O'Connor. 2,328,529; Aug. 31.
Ice formation on aircraft wings, Preventing. J. Goodman. 2,328,079; Aug. 31.
Identification badge holder. C. D. Fowler. 2,328,206; Aug. 31.
Ignition system. O. T. Francis. 2,328,444; Aug. 31.
Impeller and propeller construction for booster pumps. R. R. Curtis. 2,328,328; Aug. 31.
Index mechanism. H. E. Balsiger. 2,328,251; Aug. 31.
Indicator: *See*—
Remote control and indicator.
Indicating instrucent. H. G. Ott. 2,328,485; Aug. 31.
Indicating means. H. C. Mattes and L. J. Wronke. 2,328,531; Aug. 31.
Indicator. E. G. Friedman. 2,328,208; Aug. 31.
Ingot mold. V. A. Brennan. 2,328,417; Aug. 31.
Insertion for cushions or the like. G. Török. 2,328,513; Aug. 31.
Instructing by histophonetics. E. I. Schindler. 2,328,169; Aug. 31.
Insulator, Clutch housing. N. E. Wahlberg and W. S. Berry. 2,328,518; Aug. 31.
Iron: *See*—
Steam generating electric iron.
Jig, Assembly. W. A. Weightman. 2,328,040; Aug. 31.
Joint: *See*—
Expansion joint. Rubber bushed joint.
Pipe joint.
Joint forming machine, Inseam. L. S. Macdonald. 2,328,086; Aug. 31.
Juice extractor. D. E. Grove and J. D. Comstock. 2,328,526; Aug. 31.
Kettle. F. H. Groen, Jr. 2,328,210; Aug. 31.
Keying arrangement for electric signaling systems. A. G. Cooley. 2,328,056; Aug. 31.
Kite type sewer washer. W. D. Osborn and H. R. Crane. 2,328,093; Aug. 31.
Labeling machine. G. W. von Hofe. 2,328,516; Aug. 31.
Ladle. H. G. Freeman. 2,328,267; Aug. 31.
Land mine. H. L. Hunt. 2,328,276; Aug. 31.
Lasting machine, Heel-end. J. C. Jorgensen. 2,328,075; Aug. 31.
Latch construction. J. G. Joachim. 2,328,216; Aug. 31.
Laundry apparatus. F. Breckenridge. 2,328,256; Aug. 31.
Lead articles, Making. F. Remington and R. A. Tartaglia. 2,328,098; Aug. 31.
Lead extension. J. H. Thornbery. 2,328,111; Aug. 31.
Lead salts from insoluble lead compounds, Recovery of soluble. J. J. Mulligan. 2,328,089; Aug. 31.
Lens. J. B. Dickson. 2,328,329; Aug. 31.
Lifeboat. W. E. Elling. 2,328,437; Aug. 31.
Lifting apparatus. H. Nilson. 2,328,483; Aug. 31.
Light: *See*—
Blackout light.
Light polarizer and manufacture. E. H. Land. 2,328,219; Aug. 31.
Liquid compositions containing polymerized chloroprene. A. D. Macdonald. 2,328,352; Aug. 31.
Lister. W. H. Silver. 2,328,174; Aug. 31.
Lithographic plate preparation. W. H. Wood. 2,328,371; Aug. 31.
Load-bearing member. H. C. Fischer and A. H. W. Higgins. 2,328,442; Aug. 31.
Lock: *See*—
Vehicle wheel lock.
Locking device for throttle valves. G. H. Fuehrer. 2,328,446; Aug. 31.
Loom: *See*—
Circular weaving loom.
Loose-leaf binder. J. W. F. Blizard and C. G. Peters. 2,328,416; Aug. 31.
Lubricator device. L. D. Cobb. 2,328,327; Aug. 31.
Lubricator: *See*—
Engine lubricator.
Lubricator. E. M. Green. 2,328,004; Aug. 31.
Lure, Fish. L. R. Provost. 2,328,295; Aug. 31.
Machine. F. Schanzer. 2,328,501; Aug. 31.
Machine chain bit and holder therefor, Mining. F. L. Fulke. 2,328,134; Aug. 31.
Machine for forming wire reinforced tape. H. Dent. 2,328,429; Aug. 31.
Magnesium metal, Producing. H. A. Doerner. 2,328,202; Aug. 31.
Magnesium oxide, Maing heavy. W. H. MacIntire. 2,328,286; Aug. 31.
Magneto, Multiple field magnet ignition. J. Bernard. 2,328,412; Aug. 31.
Mask adapted for use at high altitudes. A. H. Bulbulian. 2,327,995; Aug. 31.
Massaging apparatus. B. P. London. 2,328,156; Aug. 31.
Mast, Adjustable. G. O. Benson. 2,327,990; Aug. 31.
Match book holder. H. Cohen. 2,327,999; Aug. 31.
Materials, Depositing phosphor. W. H. Painter. 2,328,292; Aug. 31.
Mattress or the like. T. J. Lineback. 2,328,083; Aug. 31.
Means and method of bringing oil wells into production. D. N. Furse and L. J. Neuman. 2,328,001; Aug. 31.
Measuring air-fuel ratio. K. Scheffler. 2,328,502; Aug. 31.
Measuring instrument. C. B. Moore. 2,328,163; Aug. 31.
Mechanical movement. A. Cory. 2,328,261; Aug. 31.
Mechanism for and method of charging containers with liquid. J. E. Wollenweber. 2,328,372; Aug. 31.
Mechanism for controlling movements. W. E. H. Krzenciessa, K. G. Scheibel, and A. A. Bohmann. 2,328,466; Aug. 31.
Mechanism for improving the dirigibility of ships, submarines, and aircraft. H. C. Briggs. 2,327,994; Aug. 31.
Mechanism for use in computing apparatus. A. Svoboda. 2,328,306; Aug. 31.
Metalworking machine. C. Gall and B. J. Di Santo. 2,328,002; Aug. 31.
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Method and apparatus for forming cores. E. A. Petersen. 2,328,357; Aug. 38.
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Method and apparatus for rectifying alternating currents. J. A. Doran. 2,328,264; Aug. 31.
Method of and apparatus for washing garments and the like. A. T. Moore and C. R. Ebling. 2,328,026; Aug. 31.
Microphone, Magnetostrictive. Y. Rocard. 2,328,496; Aug. 31.
Microscope. K. W. Harper and E. O. Roeder. 2,328,211; Aug. 31.
Mill: *See*—
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Milling cutter. E. Reaney. 2,328,494; Aug. 31.
Mineral jig. L. E. Tuthill. 2,328,402; Aug. 31.
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Molding material. W. E. Gloor. 2,328,269; Aug. 31.

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Mounting structure. L. H. Von Ohlsen. 2,328,313; Aug. 31.
N'-alkali, metal-N',N₄-dihalogen-acylsulphanilamides. M. E. Hultquist and M. L. Crossley. 2,328,455; Aug. 31.
Nitrogen chloride, Preparation of. A. G. Osterhuis. 2,328,484; Aug. 31.
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Oil emulsions, Dehydrating mineral. T. W. Burnam. 2,327,996; Aug. 31.
Oil filter. H. G. Eisler. 2,328,131; Aug. 31.
One-way detachable snap fastener. O. J. Huelster. 2,328,016; Aug. 31.
Operating means for fluorescent lamps. J. Bertram. 2,328,413; Aug. 31.
Operating mechanism for switches. S. H. Durbin. 2,328,266; Aug. 31.
Ophthalmic mounting. R. T. Cook and W. A. Bonin. 2,328,423; Aug. 31.
Optical instrument. G. S. MacDonald and J. E. Trafton. 2,328,284; Aug. 31.
Organic compound and preparing the same. J. Pikl. 2,328,358; Aug. 31.
Oscillatory hammer. H. D. Greenberg. 2,328,270; Aug. 31.
Oxygen regulator. B. B. Holmes. 2,328,214; Aug. 31.
Package and making the same. H. O. Irmscher. 2,328,017–18; Aug. 31.
Package, Strip metal. J. E. Ott. 2,328,356; Aug. 31.
Paint mask structure. J. E. Duggan. 2,328,203; Aug. 31.
Pallet, Throw-away. J. J. Neuman. 2,328,397; Aug. 31.
Pan, Pie. E. N. Bassett. 2,327,988; Aug. 31.
Paper fastener. A. Gelfand. 2,328,268; Aug. 31.
Parallel fiber filters, Making. A. L. Simison. 2,328,302; Aug. 31.
Parking meter. W. N. Woodruff and C. A. Toce. 2,328,043; Aug. 31.
Pea hulling machine. E. A. Holmes. 2,328,015; Aug. 31.
Pen, Fountain. B. W. Hanle. 2,328,143; Aug. 31.
Pen, Fountain. N. E. Weigel. 2,328,116; Aug. 31.
Petroleum hydrocarbons, Catalytic conversion of. M. J. See and J. C. Baillie. 2,328,103; Aug. 31.
Phonograph turntable driving device. M. L. van Overeem. 2,328,515; Aug. 31.
Photographic bleaching layers, Manufacture of. A. Polgár and C. Halmos. 2,328,166; Aug. 31.
Photographic elements and process. V. B. Sease and O. W. Murray. 2,328,034; Aug. 31.
Photographic jigsaw puzzle. W. R. Jones. 2,328,281; Aug. 31.
Photography and means therefor. R. B. Wheelan and A. Balaban. 2,328,403; Aug. 31.
Pile raising structure. L. W. Atwater. 2,328,120; Aug. 31.
Pipe clamp. R. E. Risley. 2,328,168; Aug. 31.
Pipe clamp and method and aparatus for applying same. R. E. Risley. 2,328,031; Aug. 31.
Pipe joint. S. R. Jaffe. 2,328,381; Aug. 31.
Piston and ring assembly. F. C. Nelson. 2,328,390; Aug. 31.
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Plate, License. A. W. Becker. 2,328,253; Aug. 31.
Platform for vessels, Boat. G. C. Perry. 2,328,094; Aug. 31.
Plating tank. E. J. Mercil. 2,328,162; Aug. 31.
Polar coordinate cathode-ray tube. P. S. Christaldi and S. J. Koch. 2,328,259; Aug. 31.
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Position finding devices, particularly course protractors. F. von Opel. 2,328,517; Aug. 31.
Post card and envelope, Combined business reply. E. Feder. 2,328,380; Aug. 31.
Poultry housing. F. H. Giguere. 2,328,209; Aug. 31.
Powdered catalyst recovery. R. E. Butikofer. 2,328,325; Aug. 31.
Power drive for bicycles. G. S. Schunk. 2,328,233; Aug. 31.
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Preparation of compounds of cerium. J. Blumenfeld. 2,327,992; Aug. 31.
Preserving materials of the powdery or mealy type. E. H. Schwarz. 2,328,300; Aug. 31.
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Processing of materials. E. L. Wiegand. 2,328,240; Aug. 31.
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Regulating circuit. O. Kiltie. 2,328,464; Aug. 31.
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Regulator for engines, Speed. E. A. Hobart. 2,328,452; Aug. 31.
Reinforcing device for concrete, Prestressing. H. Schorer. 2,328,033; Aug. 31.
Relief valve. W. Ernst. 2,328,132; Aug. 31.
Remote control and indicator. S. N. Baruch and J. Weinberg. 2,328,320; Aug. 31.
Reservoir for condition responsive indicating devices, Pressure relief expansible. L. W. Atchison. 2,328,406; Aug. 31.
Resin solutions, Production of low viscosity urea-formaldehyde. H. J. West. 2,327,984; Aug. 31.
Resin, Urea-triazine. G. F. D'Alelio. 2,328,424–5; Aug. 31.
Ribbed dome hollow head valve. T. R. Thoren and P. P. Johnson. 2,328,512; Aug. 31.
Ribbing for structural plates, Latticelike stiffening. J. Horváth. 2,328,454; Aug. 31.
Rivet, Blind. J. C. Lang. 2,328,023; Aug. 31.
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Safety device. R. Becker. 2,328,524; Aug. 31.
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Sand blasting apparatus. E. H. Lindenmeyer. 2,328,350; Aug. 31.
Saw-tooth wave generator. R. Andrieu. 2,328,248; Aug. 31.
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Sewer sand washer or desander. H. R. Crane and W. D. Osborn. 2,328,060; Aug. 31.
Sewing machine, Shoe. O. R. Haas. 2,328,011; Aug. 31.
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Sheet, Pressure-sensitive adhesive. R. I. Coulter. 2,328,057; Aug. 31.
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Signaling system, Coded track circuit. S. N. Wight. 2,328,241; Aug. 31.
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Sleeve shortener. L. Goldberg. 2,328,137; Aug. 31.
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Sole. L. M. Witherill. 2,328,242; Aug. 31.
Soluble benzyl ethers of dextran, Producing. G. L. Stahly and W. W. Carlson. 2,328,036; Aug. 31.
Spectrophotometer monochromator drive. O. W. Pineo. 2,328,293; Aug. 31.
Speech transmission system. P. G. Edwards. 2,328,434; Aug. 31.
Spinner. E. B. Benson. 2,328,185; Aug. 31.
Spool, Flexible winding. L. S. Fryer and W. J. Jokilehto. 2,328,335; Aug. 31.
Spout, Retractible. W. B. Johnson. 2,328,020; Aug. 31.
Spraying device, Universally adjustable automatic. E. Gustafsson and J. W. Baur. 2,328,448; Aug. 31.
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Stationery, Manifolding. A. A. Johnson. 2,328,081; Aug. 31.
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Steering device for boats. C. M. Wellons. 2,328,041; Aug. 31.
Steering release mechanism. C. G. Doty. 2,328,064; Aug. 31.
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Stretcher. C. B. Belt and D. H. Hallock. 2,328,409; Aug. 31.
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Stretching device. J. Lewis. 2,328,474; Aug. 31.
Stripper, Sucker rod. C. S. Crickmer. 2,328,127; Aug. 31.
Structural member. H. C. Fischer and A. H. W. Higgins. 2,328,441; Aug. 31.
Stud-plate unit for hose supporters and the like. W. S. Painter. 2,328,486; Aug. 31.
Suction cleaner. B. C. Becker. 2,328,184; Aug. 31.
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Tape reinforcement, Slide fastener stringer. N. J. Poux. 2,327,983; Aug. 31.
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Thermostat, Heating pad. L. M. Howard. 2,328,342; Aug. 31.
Thermostatic unit and connection for electric irons. F. Kuhn and L. H. Thomas. 2,328,152; Aug. 31.
Tire stripping vulcanizing press. L. E. Soderquist. 2,328,507; Aug. 31.
Toaster. A. M. Young. 2,328,046; Aug. 31.
Tongs, Guy. O. H. Johnson. 2,328,217; Aug. 31.
Tool: *See*—
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Tooth mounting. M. Bartek. 2,328,121; Aug. 31.
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Torque transmitting device, with molded plastic rotor, Hydrodynamic. R. L. Smirl. 2,328,175; Aug. 31.
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Universal joint. A. F. Greiner. 2,328,139; Aug. 31.
Vacuum cleaner coupling construction. A. W. Gardes. 2,328,003; Aug. 31.
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Valve mechanism for water softeners. H. L. Bowers and E. Pick. 2,328,223; Aug. 31.
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Vitamin-bearing materials, Refining. L. O. Buxton. 2,328,053; Aug. 31.
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Water heater with safety drain. M. Yavitch. 2,328,245; Aug. 31.
Water-soluble high molal oxyalkylated esters and making same, Certain. M. De Groote and B. Keiser. 2,328,062; Aug. 31.
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Window operating mechanism. R. W. Treverton. 2,328,237; Aug. 31.
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Wringer. De W. Clausen. 2,327,998; Aug. 31.
Yeast having high B^1 potency, Production of. M. W. Mead, Jr., and J. Lee. 2,328,025; Aug. 31.

CLASSIFICATION OF PATENTS

ISSUED AUGUST 31, 1943

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

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